



CATALOGUE 33/EN



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Catalogue 33/EN 2023 Errors and modifications are subject to change. © HL Hutterer & Lechner GmbH A-2325 Himberg Brauhausgasse 3–5

Tel +43/(0)2235-86291-0 Fax +43/(0)2235-86291-31 office@hl.at www.hl.at



R 6/4"

120-325





42





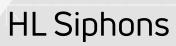




40 = 95-27







1. Kitchen

1











HL Kitchen siphons

Basic information about design and installation

HL supplies a lot of different possibilities of connecting and siphoning kitchen sinks and washing devices (dishwashers). Here are answers to the most frequently ask questions.

▲ Prevention from pluggings:

When connecting the kitchen sink, you should allways take care, to use minimum DN40 pipes and siphons, to avoid a plugging (by e.g. cooking fat).

▲ Sound minimisation:

When wastewater from e.g. dishwashers flows into the siphon, a high sound level occures, when the sewage impinges on the water seal. Therefore we recommend, to use kitchen traps with double wall immersion tubes, like e.g. HL100, HL126 and HL126.2

▲ Prevention from backwater to the washing device:

When the sewer is plugged, there is a big risk, that the sewer flows back to the dishwasher. Therefore we recommend the usage of washing device connectors with integrated backflow flaps (all types of HL are provided

with adequate membranes). To upgrade existing connectors without backflow flaps we recommend the usage of HL3.

▲ Prevention from leakage:

Leakage water is one of the most common reasons for reclamations in fitted kitchens, as it is recognized very late and therefore expensive. To prevent from claims, the plumber should take care of save and tight connections to the sink. HL provides it's siphons with plastic gaskets and cap nuts, which are on the one hand waterproof and on the other hand save only by turning by hand.

▲ Flexibility:

As the connection to the sewage pipe mostly is in the wall and therefore in an unconvenient position, it is important to reach the pipe inlet by turning or bowing. HL enables the plumber to connect the siphon to the wallside inlet of the pipe without tension.

▲ Overflow:

When buying a kitchen sink, please take care, that it is supplied together with a fitting over-flow kit. HL supplies standard overflow kits, which in fact do not fit to all sinks.

▲ Space saving:

To use the whole space under the kitchen sink for storage, it is useful, to install siphons, which are located directly to the wall. Our types HL126 and HL126.2 are equipped with adequate connectors (HL26), so that an installation close to the wall is possible.

Relevant standards/directives

EN 274 Drains and siphons for sanitary equipement



HL Kitchen siphons - Products - Data

HL100 Tubular trap with backwater membrane connector for washing devices

Data

Material

Connection 6/4" Cap nut

dimension

HL100/40: DN40 Outlet dimension

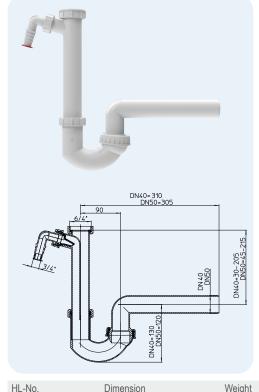
HL100/50: DN50

EN 274 Standard

Recommended for Kitchen sinks with dishwasher Additional Adjustable immersion tube and

ball joint included information

Temperature-resistant up to 95°C







EAN +110049 +110056 Piece/package

HL100G Tubular trap

Data

Material

6/4" Cap nut Connection

dimension

Standard

Outlet dimension

HL100G/40: DN40 HL100G/50: DN50

EN 274

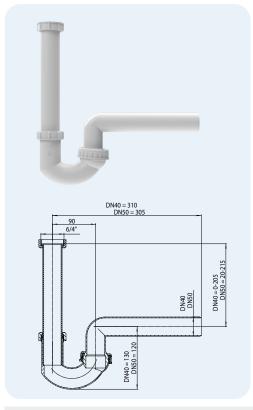
Recommended for

Kitchen sink

Additional Adjustable immersion tube and ball information

joint included

Temperature-resistant up to 95°C







HL126 Space saving trap with backwater membrane connector

Data

PP Material

6/4" Cap nut Connection

dimension

Outlet dimension HL126/40: DN40

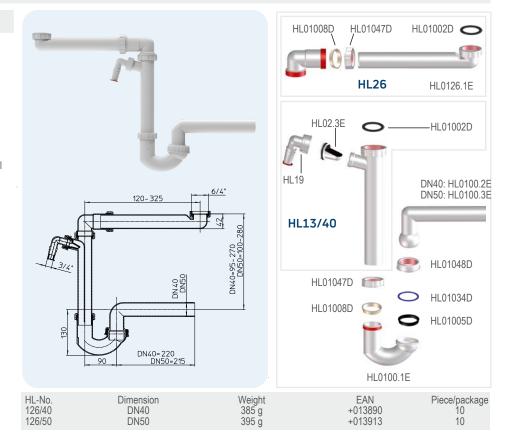
HL126/50: DN50

Standard

Recommended for Kitchen sinks with dishwasher Additional Adjustable immersion tube and ball

information joint included

Temperature-resistant up to 95°C



HL126.2 Space saving trap with backwater membrane connector for double sinks

Data

Material

2 x 6/4" Cap nut Connection

dimension

Outlet dimension

HL126.2/40: DN40 HL126.2/50: DN50

Standard EN 274

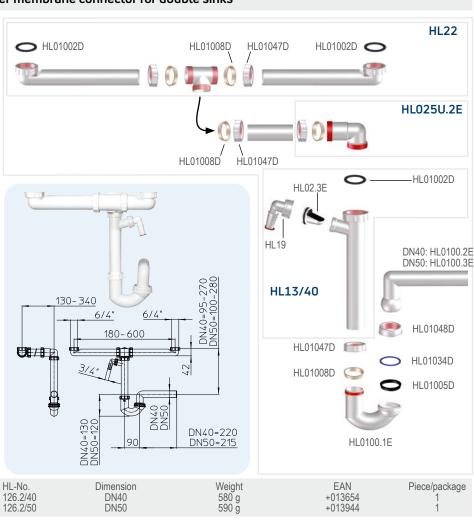
Recommended for Double kitchen sinks and

dishwasher

Additional Adjustable immersion tube and ball

information joint included

Temperature-resistant up to 95°C





HL Kitchen siphons - Accessories - Data

HL3 Non-return valve

Data

Material PF

 $\begin{array}{ll} \text{Connection} & 3/4\text{" Hose nozzle} \\ \text{dimension} & (17-23\text{ mm}) \end{array}$

Outlet dimension 1'

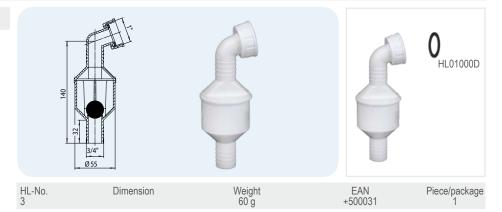
Recommended for Dishwasher connector without

backwater membrane

Additional Prevents from backwater to the

information washing device,

Temperature-resistant up to 95°C



HL6 Double connector with 2 hose nozzles HL19

Data

Material P

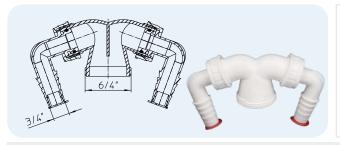
 $\begin{array}{lll} \text{Connection} & 2 \times 3/4 \text{" Hose nozzle} \\ \text{dimension} & (17-23 \text{ mm}) \\ \text{Outlet dimension} & 6/4 \text{" Male thread} \\ \end{array}$

Standard EN 274

Recommended for Connection of 2 washing devices

Additional Temperature-resistant up to 95°C

information



HL-No. Dimension Weight 60 g

Dimension DN32

DN40

DN50

EAN 500062

HL19

Piece/package

HL19

HL8EL Flexible covering rosette

Data

 Material
 PP-soft

 Connection
 HL8EL/30: DN32

 dimension
 HL8EL/40: DN40

HL8EL/50: DN50

Outlet dimension HL8EL/30: DN32

HL8EL/40: DN40 HL8EL/50: DN50

Recommended for the covering of the connection

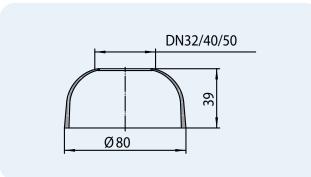
between siphon and wall inlet pipe

HL-No. 8EL/30

8EL/40

Additional Flexible version, fits to both pipe

information and wall





HL10 Extension tube

Data

Material PF

 Connection
 HL10/40: DN40 Socket

 dimension
 HL10/50: DN50 Socket

 Outlet dimension
 HL10/40: DN40 Pipe

 HL10/50: DN50 Pipe
 HL10/50: DN50 Pipe

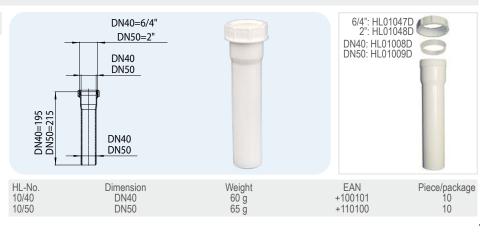
Standard EN 274

Recommended for Extending of siphons installed on

the wall

Additional Pull-out save by a wedge shaped

information gasket and cap nut.





HL11 90° angled elbow

Data

Material PP

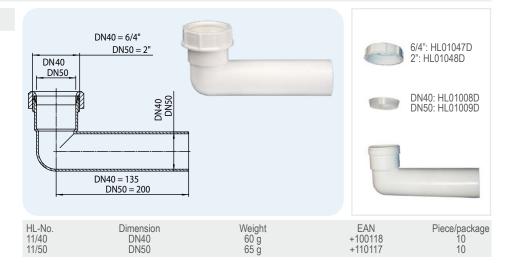
HL11/40: DN40 Socket Connection dimension HL11/50: DN50 Socket HL11/40: DN40 Pipe Outlet dimension HL11/50: DN50 Pipe

Standard

Recommended for Extending of siphons installed on

Additional Pull-out save by a wedge shaped

information gasket and cap nut.



HL12 Adapter ring

Data

PP Material

Connection HL12.1: 5/4"IG x 6/4" Male thread HL12.2: 6/4"IG x 6/4" Male thread dimension

> HL12.3: 6/4"IG x 5/4" Male thread HL12.4: 2"IG x 6/4" Male thread HL12.5: 5/4"IG x 5/4" Male thread

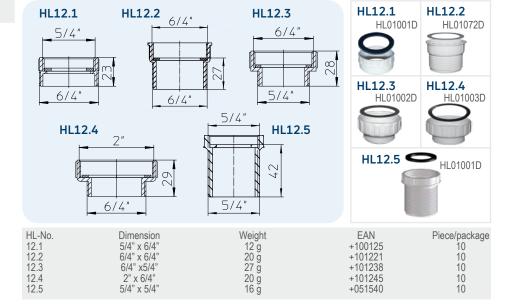
Standard

Recommended for Extension or reduction of threaded

connectors

Additional Usage only for non-pressure

information pipes!



HL13 Immersion tube with washing device hose nozzles

Data

Material

HL13/30: 5/4" Cap nut Connection dimension HL13/40: 6/4" Cap nut

HL13/50: 6/4" Cap nut

Outlet dimension HL13/30: DN32

> HL13/40: DN40 HL13/50: DN50

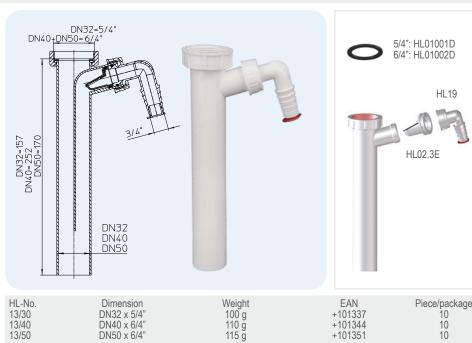
Standard EN 274

Recommended for To create a washing device

connection to the siphon

Additional Backwater save, minimal sound by

information double wall



HL-No.	Dimension	Weight	EAN	Piece/package
13/30	DN32 x 5/4"	100 g	+101337	10
13/40	DN40 x 6/4"	110 ğ	+101344	10
13/50	DN50 x 6/4"	115 g	+101351	10



HL13-2/40 Immersion tube with 2 washing device hose nozzles

Data

Material PF

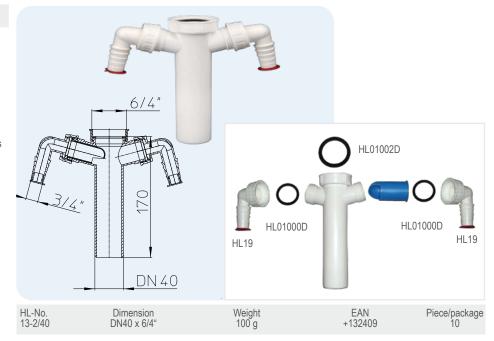
Connection 6/4" cap nut

dimension

Outlet dimension DN40 Standard EN 274

Recommended for Connection of 2 washing devices
Additional Problem solver, if single connectors

information are missing



HL13G Immersion tube

Data

Material PI

Connection HL13G/30: 5/4" Cap nut dimension HL13G/40: 6/4" Cap nut HL13G/50:6/4" Cap nut

Outlet dimension HL13G/30: DN32

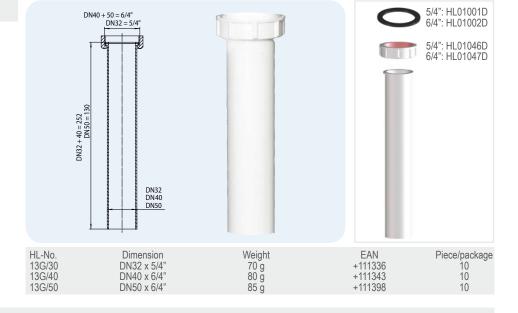
HL13G/40: DN40 HL13G/50: DN50

Standard EN 274

Recommended for Connector to the kitchen siphon

Additional Universally usable

information



HL14/90 Waste outlet

Data

Material PP/stainless steel
Outlet dimension 6/4" male thread
Standard EN 274

Recommended for Kitchen sinks with outlet 90mm (3")

Additional Stainless steel valve disc

information Ø 113 mm and stainless steel plug

included

As accessory: Screw 7 cm Article No.: HL014/90.5E





HL15 Waste outlet

Data

Material PP/stainless steel

Connection HL15-5/4": 5/4" Waste outlet HL15-6/4": 6/4" Waste outlet dimension Outlet dimension HL15-5/4": 6/4" male thread

HL15-6/4": 6/4" male thread

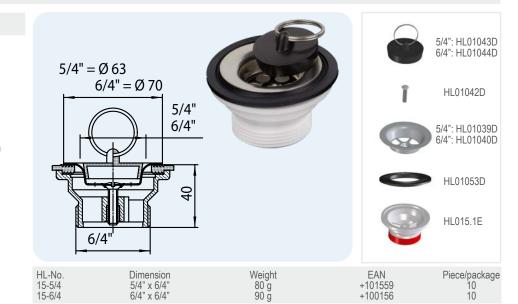
Standard

Recommended for Kitchen sinks with outlet 50mm

(6/4") or 40mm (5/4")

Additional Valve disc and plug included

information



HL15U Waste outlet with overflow, valve disc and plug

Data

Material PP/stainless steel

Connection HL15U-5/4": 5/4" Waste outlet dimension HL15U-6/4": 6/4" Waste outlet HL15U-5/4": 6/4" male thread Outlet dimension HL15U-6/4": 6/4" male thread

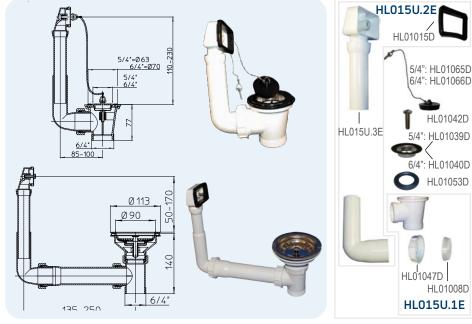
Kitchen sinks with outlet 50mm

(6/4") or 40mm (5/4") with overflow

Additional Fits to standard overflow holes

information

Recommended for



	175 250			HL015U.1E
HL-No.	Dimension	Weight	EAN	Piece/package
15U-5/4	5/4" x 6/4"	200 g	+105755	5
15U-6/4	6/4" x 6/4"	210 g	+100576	5
15U-90	Ø 90 x 6/4"	370 g	+035892	1

HL16

HL01008D

HL01047D

HL22 Outlet connector

Data

Material

6/4" Cap nut

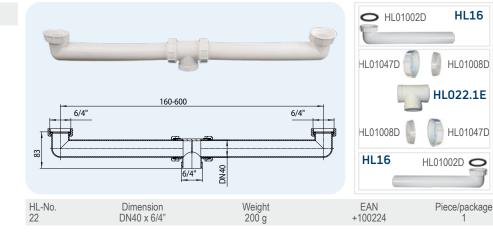
Connection dimension

Outlet dimension 6/4" male thread

Standard EN 274

Recommended for Double kitchen sinks Additional Adjustment 160 - 600 mm

information





HL23 Outlet connector

Data

Material PP

Connection 6/4" Cap nut

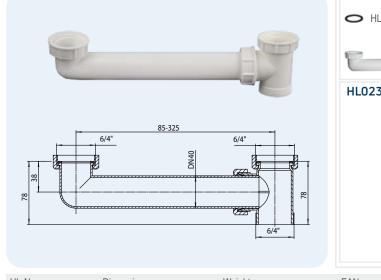
dimension

Outlet dimension 6/4" male thread

EN 274 Standard

Recommended for Double kitchen sinks Additional Adjustment 85 - 325 mm

information





HL-No.

Dimension DN40

EAN +100231 Piece/package

HL24 Outlet connector

Data

Material PP/stainless steel

Connection HL24-5/4": 5/4" Waste outlet dimension HL24-6/4": 6/4" Waste outlet Outlet dimension HL24-5/4": 6/4" male thread

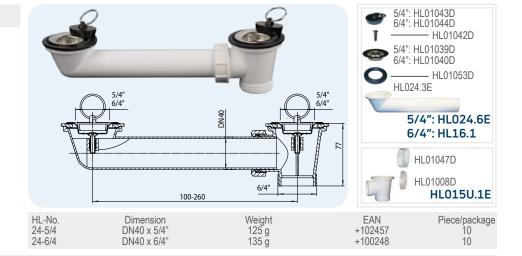
HL24-6/4": 6/4" male thread

Standard EN 274 Recommended for Double sinks

Additional

information

With valve disc and plug



HL24U Outlet connector

Data

Material PP/stainless steel

Connection HL24U-5/4": 2 x 5/4" Waste outlet HL24U-6/4": 2 x 6/4" Waste outlet dimension Outlet dimension HL24U-5/4": 6/4" male thread

HL24U-6/4": 6/4" male thread

EN 274 Standard

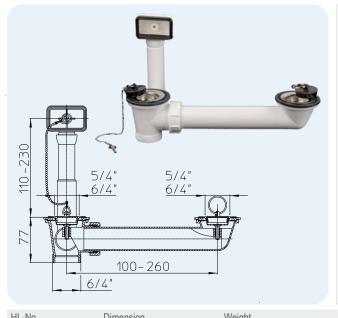
Recommended for Double sinks with outlet 50mm

(6/4") or 40mm (5/4")

Additional With valve disc, outlet and plug

information

Fits to standard overflow holes Adjustment 100 - 260 mm



HL-No. Dimension 24U-5/4 24U-6/4 DN40 x 5/4" DN40 x 6/4" 360 g 370 g 2 x HL01008D **HL024U.1E** Piece/package

HL015U.2E

5/4": HL01065D

6/4": HL01066D

5/4": HL01043D

6/4": HL01044D HL01042D 5/4": HL01039D

6/4": HL01040D

5/4": HL024.6E 6/4": HL16.1

2 x HL01047D

EAN

+124756

+112470

HL01053D

HL024.3E

HL015U.3E

HL01015D



HL25U Outlet connector for reversible double sinks

Data

Material PP/stainless steel Connection 2 x 6/4" Waste outlet

dimension

Outlet dimension 6/4" male thread Standard EN 274

Recommended for Double sinks with outlet 50mm

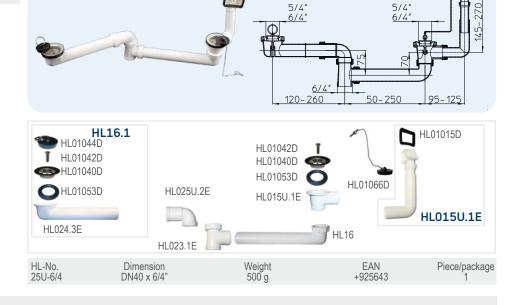
(6/4") or 40mm (5/4")

Additional

information

With valve disc, outlet and plug

Fits to standard overflow holes



HL26 Space saving connector

Data

Material

Connection 6/4" Cap nut

dimension

Outlet dimension 6/4" male thread

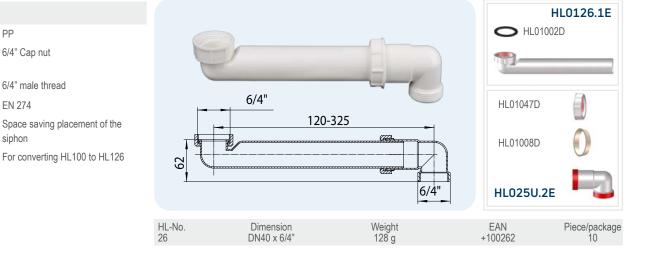
Standard EN 274

Recommended for Space saving placement of the

siphon

Additional

information



HL27 Outlet connector

Data

Material

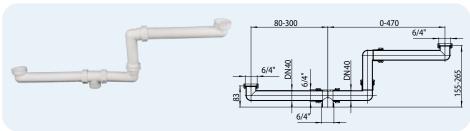
Connection 2 x 6/4" Cap nut

dimension

Outlet dimension 6/4" male thread

Standard EN 274

Recommended for Double sinks with height offset







HL28 Outlet connector

Data

Material PF

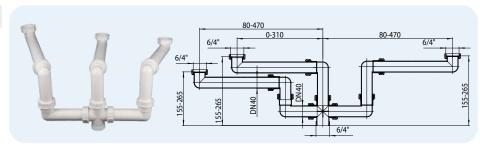
Connection 3 x 6/4" Cap nut

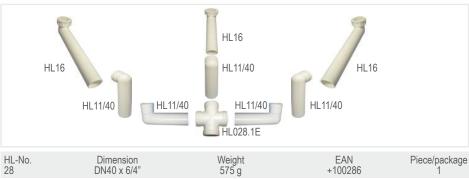
dimension

Outlet dimension 6/4" male thread

Standard EN 274

Recommended for Double sinks with height offset







SIPHONS ABLÁUFE

DN40 = 80-315 DN32 = 80-315









DN3







DN40 = 95 DN32 = 90





















HL Washbasin siphons

Basic information about design and installation

Siphons made of plastic, e.g. polypropylene, have different advantages compared to conventional metal siphons:

▲ Convenient in installation

The length adjustment of plastic parts is much faster and saver than of metal parts. Because of the material properties of plastic, gaskets and nuts may be opened and closed tightly time after time, only by screwing by hand.

▲ Easy to maintain

HL washbasin siphons are mostly equipped with cleaning possibilities. Cleaning trays may be removed and cleaned with little effort and without tools. Items like jewellery, which fell into the trap, cannot get into the drain pipe.

▲ Space saving and handicap-accessible Most washbasins nowadays are furnished with bathroom cabinets. As the siphon is invisible, it has not to fit to the bathroom design. To get more usable space under the washbasin, the siphon should be situated near the wall (possible with HL137). Also these traps simplify the access to the washbasin for disabled people with wheelchairs (HL137 and HL134.0 OR HL4000 and HL4000.3).

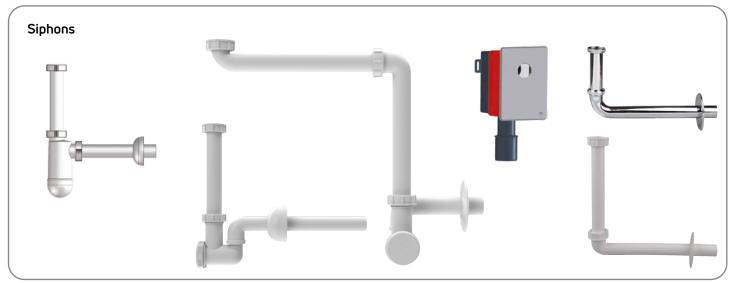
▲ Flexibility

As the connection between washbasin, siphon and the wall-side inlet is mostly not in line with the waste outlet, it is necessary with standard siphons, to use bows to reach the waste pipe. By using siphons with ball-joints, the plumber saves these additional fittings. Beside of that, you may also use the integrated hose nozzle, to connect it to washing devices, if a special trap (e.g. HL400) is missing. If special washing device siphons (like HL400 or HL4000) are missing, the connection may be also created by using a junction (HL19T).

Relevant standards/directives

EN 274......Drains and siphons for sanitary equipement DIN 19541Siphons for special purposes

HL Washbasin siphons - Products - Overview



Product	HL132	HL135	HL137	HL4000.0 HL4000.3	HL134.1C HL134.1K
Description	Washbasin bottle trap	Washbasin and bidet siphon	Space saving siphon	Washer/wash basin construction set	Installation kit for HL134.0
Function	Siphoning and connection of washbasins	Siphoning and connection of bidets/washbasins	For the space saving and handicap-accessible siphoning of washbasins	Flush mounted odour trap (basin accessible for handicapped people)	Connection between the flush mounted siphon HL134.0 and the washbasin



HL Washbasin siphons - Products - Data

HL132 Washbasin siphon

Data

Material

Connection 5/4" Cap nut

dimension

Outlet dimension HL132/30: DN32

HL132/40: DN40

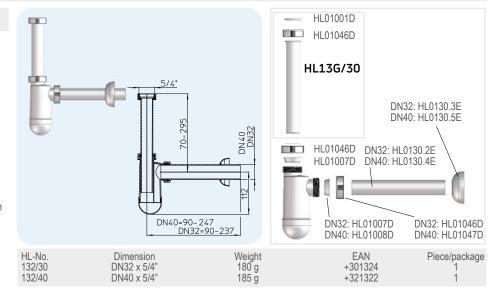
horizontal

EN 274 Standard

Recommended for replacement of standard metal

siphons, temperature-resistant up

Including Adjustable immersion tube, rosette



HL132.1 Washbasin siphon with hose nozzle

Data

Material

Connection 5/4" Cap nut

dimension

Outlet dimension HL132.1/30: DN32

HL132.1/40: DN40

horizontal

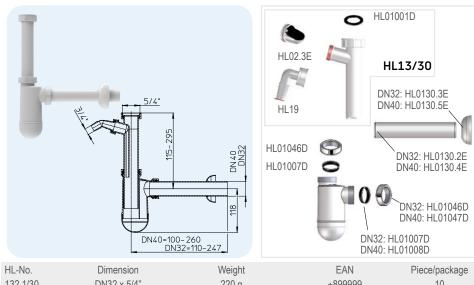
EN 274 Standard

Recommended for temperature-resistant up to 95 °C

Including Adjustable immersion tube, rosette.

backwater membrane hose

nozzle



HL-No.	Dimension	Weight	EAN	Piece/package
132.1/30	DN32 x 5/4"	220 g	+899999	10
132.1/40	DN40 x 5/4"	225 g	+999996	10

HL02.3E

HL19

O HL01001D

HL01046D HL01007D

HL13/30

HL133 Washbasin siphon with hose nozzle and cleaning tray

Data

Material PΡ

Connection 5/4" Cap nut

dimension

HL133/30: DN32 Outlet dimension

HL133/40: DN40

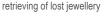
horizontal, rotatable

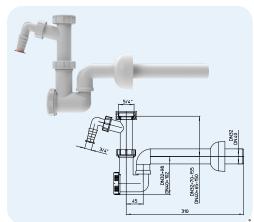
Standard EN 274

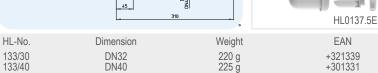
Recommended for temperature-resistant up to 95 °C

Including Adjustable immersion tube, rosette,

backwater membrane hose nozzle, cleaning tray: relieves the







DN32: HL8EL/30

Piece/package

10 10



HL134.0 Flush mounted washbasin siphon

Data

HL134.0/40: 0,38 l/s Capacity

HL134.0/50: 0,38 l/s

Material Connection dimens. DN32

HL134.0/40: DN40 Outlet dimension

HL134.0/50: DN50

vertical

DIN 19541 Standard

Recommended for Flush mounted siphon for

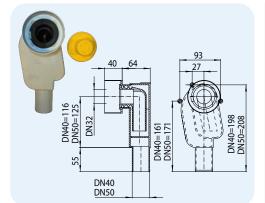
> washbasins, in combination with HL134.1C or 134.1K; for handicap-

accessible washbasins

Inlet element for easy cleaning of Including

the siphon; relieves the access to

the waste pipe



HL-No.	Dimension	Weight	EAN
134.0/40 134.0/50	DN40 DN50	380 g 385 g	+301348 +302345

HL134.1C Brass connector, chrome-plated

Data

Material Brass, chrome-plated 5/4" Cap nut Connection

dimension

Outlet dimension DN32

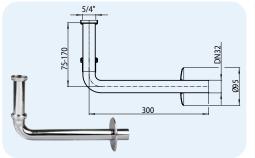
horizontal

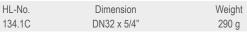
EN 274 Standard

Recommended for Connection between flush mounted

siphon HL134.0 and the washbasin

Adjustable immersion tube Including







HL0134.1E

EAN Piece/package +311347 10

Piece/package

10 10

HL134.1K Plastic connector

Data

Material PΡ

5/4" Cap nut Connection dimens. Outlet dimension

horizontal

EN 274 Standard

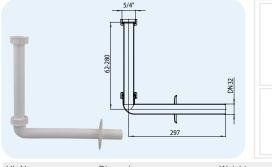
Recommended for Connection between flush

mounted siphon HL134.0 and the

washbasin:

temperature-resistant up to 95 °C

Adjustable immersion tube Including







Piece/package EAN +313341 140 g 10

HL135 Washbasin and bidet siphon

Data

Material

Connection 5/4" Cap nut

dimension Outlet dimension

Standard

HL135/30: DN32

HL135/40: DN40 horizontal, rotatable

EN 274

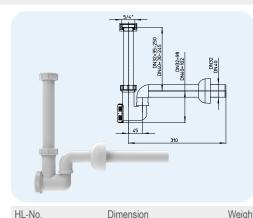
Recommended for Washbasins and bidets,

temperature-resistant up to 95 °C

Adjustable immersion tube. Including

cleaning tray: relieves the retrieving

of lost jewellery





10

HL01001D

Dimension Weight 215 g 220 g DN32 135/30 +331352



HL4000.0 Corpus for washing device siphon / wash basin siphon HL4000.3 Wash basin upgrate kit

Data

Capacity 0,6 l/s

Material PP/Stainless steel

Connection DN32 DN40/50 Outlet Siphon height 50 mm Standard DIN 19541

Recommended for siphoning of space saving wash

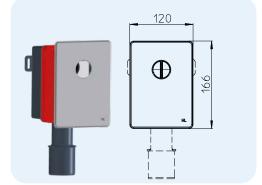
basins or handicap-accessible basins, e.g. for hospitals or retire-

ment homes

Additional As connector between siphon and

information basin we recommend HL134.1K or

HI 134 1C





HL0137.1E

HL0137.4E

HL01046D

HL01007D

O HL01071D

HL01046D HL01007D

HL-No.	Dimension	Weight	EAN	Piece/package
4000.0	DN40/50	244 g	+041619	1
4000.3	DN40/50	220 a	+041657	1

HL137N Space saving siphon, Outlet horizontal

Data

Material Connection 5/4" Cap nut

dimension

Outlet dimension 137N/30: DN32

> 137N/40: DN40 horizontal

Standard EN 274

Recommended for Space saving installation in

> bathroom furniture; or for handicap-accessible

washbasins;

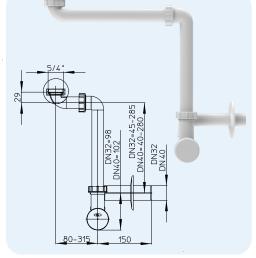
temperature-resistant up to 95 °C

HL-No.

137N/30 137N/40

cleaning tray: relieves the retrieving Including of lost jewellery;

Adjustable immersion tube



Dimension

DN32 x 5/4" DN40 x 5/4"

	HL0137.5E	DN32: HL0137.3E DN40: HL0137.2E
Weight 300 g 305 g	EAN +003976 +003990	Piece/package 10 10

HL137N.1 Space saving siphon, outlet vertical

Data

Material

Connection 5/4" Cap nut

dimension

Outlet dimension 137N.1/30: DN32

137N.1/40: DN40 vertical

EN 274

Standard

Recommended for Space saving installation in

> bathroom furniture; or for handicap-accessible

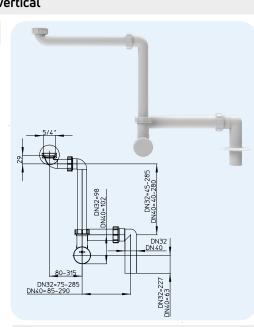
washbasins:

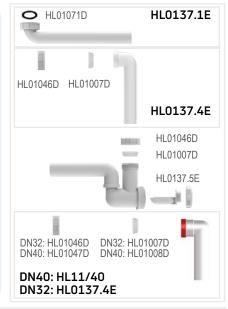
temperature-resistant up to 95 °C

Including cleaning tray: relieves the retrieving

of lost jewellery;

Adjustable immersion tube





HL-No.	Dimension	Weight	EAN	Piece/package
137N.1/30 137N.1/40	DN32 x 5/4" DN40 x 5/4"	360 g 355 g	+006298 +006335	10 10 23



HL12.5 Thread extension 5/4"

Data

Material PP

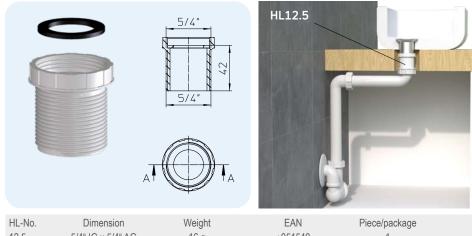
Connection 5/4" inside thread

dimension

Outlet dimension 5/4" outside thread

Standard EN 274

Recommended for countertop washbasins



12.5 5/4" IG x 5/4" AG 16 g +051540

HL15.1 Waste outlet

Data

Material

5/4" Waste outlet Connection

dimension

Outlet dimension 5/4" Thread Standard EN 274

Recommended for Washbasin with integrated overflow

Including Chain, screw and plug



EAN +101511 Piece/package 10 5/4" x 5/4" 85 g 15.1

HL19T T-connector

Data

Material

19T: 3/4" Hose nozzle Connection

dimension 19T.2: Ø 8 - 13 mm Hose nozzle

Outlet dimension HL19T(.2)/30: DN32

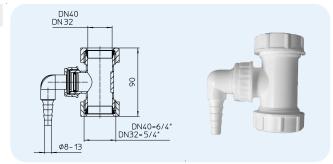
HL19T(.2)/40: DN40

Standard EN 274

Recommended for Subsequent connection to washing

devices; exclusively for vertical

immersion tubes





HL-No.	Dimension	Weight	EAN	Piece/package
19T/30	DN32 x 5/4" - 1" x 3/4"	63 g	+004294	1
19T/40	DN40 x 6/4" - 1" x 3/4"	65 g	+004331	1
19T.2/30	DN32 x 5/4" - 1" x 8–13 mm	63 g	+004355	1
19T.2/40	DN40 x 6/4" - 1" x 8–13 mm	65 g	+004348	1

Weight

160 g

HL34 Angled trap connector

Data

PΕ Material Connection DN32/40

dimension

DN40/50 Outlet dimension Standard EN 274

Recommended for Kitchen and washbasin rear panel

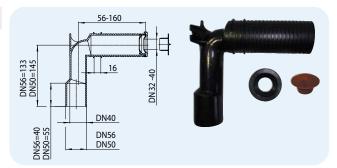
installation

Additional Inlet side adjustable in length by information cutting, connection between siphon

and wall outlet

HL-No.

34



Dimension

DN40/50



10

+940349

















HL Bath tub siphons

Basic information about design and installation

▲ Design: Easy accessibility

If the bath tub is sheeted, please take care to have an access to the siphon for cleaning and maintainance. ATTENTION: Avoid cleaning with compressed air, as the connection parts in the siphon or in the drain pipe may be splitted.

▲ Solid materials

To garantee a long lifetime of the bath tub sets, HL only uses solid brass parts.

▲ Easy and quick installation

HL bath tub siphons are equipped with rotatable ball joints, which relieves the installation. All outlets of our siphons are connectable to plug-in sleeve pipes or may be welded with PE-pipes.

▲ Important: Leak test

Both drain connection and overflow connection has to be tested on leakness, as a subsequent correction may cause high costs. The leak test can be made allready during construction, as it is not neccessary, to install the visible parts in advance.

Relevant standards/directives

EN 274 Drains and siphons for sanitary equipement

HL Bath tub siphons - Products - Overview



Product	HL555N	HL555N.L.0	HL560N	HL560N.L
Description	Bath tub waste and overflow set	Bath tub waste and overflow set with bowden cable 80cm, without visible parts	Bath tub waste, overflow and water supply set	Bath tub waste, overflow and water supply set with bowden cable 80cm
Function	For siphoning standard bath tubs, opening and closing of the plug is effected by the integrated turning handle in the overflow unit.	For siphoning bath tubs with longer distance between overflow and outlet, opening and closing of the plug is effected by the integrated turning handle in the overflow unit.	Siphoning, water supply, opening/closing of the plug and overflow is situated in the turning handle.	For bath tubs with longer distance between overflow and outlet. Siphoning, water supply, opening/closing of the plug and overflow is situated in the turning handle.



HL Bath tub siphons - Products - Data

HL555N Bath tub waste and overflow set

Data

Capacity 0,67 l/s PP. Material

outlet pluggable and weldable

Visible parts Brass, chrome-plated

Connection 6/4"

dimension

DN40/50, adjustable in length, Outlet dimension

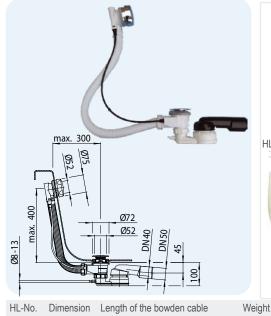
horizontal. Ball joint: 280° rotatable,

10° inclinable

Standard EN 274 Height of seal water 50 mm

Additional Mechanism with a toothed rack, information turning handle, flexible overflow

> tube, double gasket for the plug, bowden cable made of stainless steel (CrNi 18/10), additional connection Ø 8 – 13 mm for leakage pipes. Usage for bath tubes with max. material thickness of 13mm





EAN +003730 900 g

Piece/package

HL555N.O, HL555N.L.O Bath tub waste and overflow set like HL555N, but without visible parts

Data

Capacity 0,67 l/s Material

outlet pluggable and weldable

without visible parts Visible parts

Connection dimens.

Outlet dimension DN40/50, adjustable in lenght,

horizontal. Ball joint: 280° rotatable, 10° inclinable

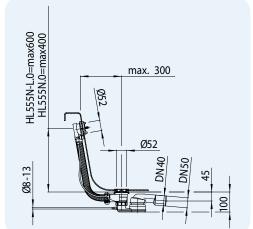
Standard EN 274

Height of seal water 50 mm

Additional Mechanism with a toothed rack, turning handle, flexible overflow information

tube, double gasket for the plug, bowden cable made of stainless steel(CrNi 18/10), additional connection Ø 8 – 13 mm for leakage

pipes. Usage for bath tubes with max. material thickness of 13mm



HL-No. Dimension Length of the bowden cable 555N.0 DN40/50 60 cm 555N.L.0 DN40/50 80 cm

HL0555N.17E HL0555N.19E 00 HL0555N.13E HL0555N.1E HL0555N.15E HL0560N.5E HL0555N.2E = 64 cm HL0555N.14E = 91 cm HL0555.5E

Weight	EAN	Piece/package
735 g	+003792	5
735 q	+016044	1

HL555N.1 - HL555N.4 Visible parts for the bath tub waste and overflow set HL555N.0 or HL555N.L.0

Data

Material 555N.1: Brass, chrome-plated

555N.2: Solid brass 555N.3: White brass 555N.4: Gold-plated brass

Standard EN 274







HL-No.	Visible parts	Weight	EAN	Piece/package
555N.1	Brass, chrome-plated	305 g	+003815	1
555N.2	Solid brass	305 g	+003839	1
555N.3	White brass	305 g	+003877	1
555N.4	Gold-plated brass	305 g	+003891	1



HL560N, HL560N.L Bath tub waste and overflow set with integrated water supply

Data

Capacity 0,67 l/s PP. Material

outlet pluggable and weldable

Visible parts Brass, chrome-plated

Connection 6/4"

dimension

DN40/50, adjustable in lenght, Outlet dimension

horizontal. Ball joint:280° rotatable,

10° inclinable

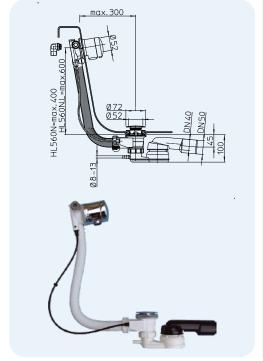
integrated, 3/4" connection left or Water supply

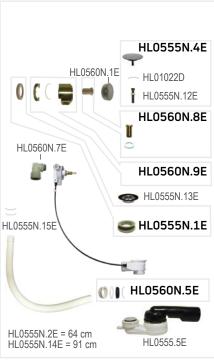
right

Standard EN 274 Height of seal water 50 mm

Additional Mechanism with a toothed rack, information turning handle, flexible overflow

tube, double gasket for the plug, bowden cable made of stainless steel(CrNi 18/10), additional connection Ø 8 – 13 mm for leakage pipes. Usage for bath tubes with max. material thickness of 13mm





HL-No.	Dimension	Length of the bowden cable	Weight	EAN	Piece/package
560N	DN40/50	60 cm	2340 g	+012428	1
560N.L	DN40/50	80 cm	2345 g	+012503	1

HL51 Bath tub waste and overflow set with chain and plug

Data

0,92 l/s Capacity PP Material Connection 6/4"

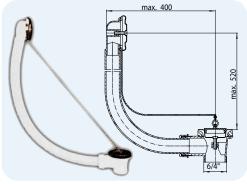
dimension

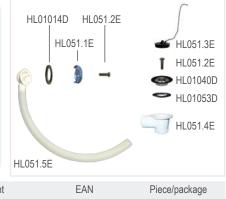
Outlet dimension vertical 6/4" male thread

Standard EN 274

Recommended for also for shower trays and degraded

tubs





Dimension 6/4"

Weight 290 g

+300518



HL500 Bath tub siphon with ball-joint

Data

0,83 l/s Capacity PP, Material

outlet pluggable and weldable

Connection dimension

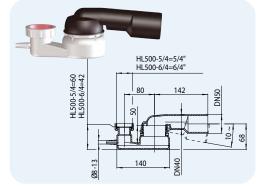
6/4"

Outlet dimension DN40/50, adjustable in lenght,

> horizontal. Ball joint:280° rotatable, 10° inclinable

Standard EN274 Height of seal water 50 mm

Additional Additional connection of e.g. information leakage tubes Ø 8 - 13 mm





HL500N Bath tub siphon

Data

0,52 l/s Capacity

Material PE: pluggable and weldable 500N-5/4: Thread 5/4" 500N-6/4: Thread 6/4" Connection dimension

Outlet dimension DN40/50 adjustable in length,

horizontal

Standard EN274 Height of seal water 50 mm

Additional without ball-joint

information

HL-No. 500N-5/4 500N-6/4

16

Dimension DN40/50 x 5/4" DN40/50 x 6/4"

Weight 80 g 80 g

EAN +350155 +350162

HL01002D

HL01072D = 6/4"

HL01071D = 5/4"

HL01072D = 6/4"

HL01071D = 5/4"

Piece/package

10

10

Piece/package 10 10

HL16 Elbow connector

Data

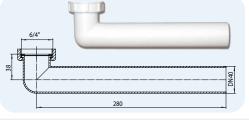
PP Material

Connection Thread 6/4"

dimension

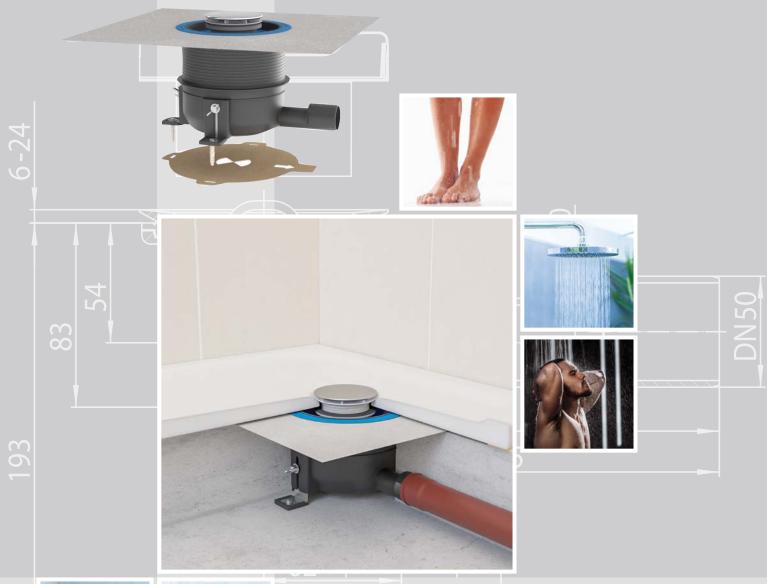
Outlet dimension horizontal, DN40

Standard EN 274













HL Siphons















HL Siphons for shower trays

Basic information about design and installation

Basically HL supplies siphons for all usual shower trays, which are according to the standards. To select the right product, please notice the following criteria:

▲ Hole diameter of the shower tray
The European standard HL 274 differs
between shower trays with hole diameters
Ø 52 mm or Ø 62 mm and Ø 90 mm.
HL-shower tray siphons fit to designs, which
are according to the European standard
(conus, thickness...). To get the perfect
tightness, one should take care to use
products of high quality of the shower tray.

▲ Capacity

All mentioned drain capacities of shower trays are values, which are tested under standard parameters. Trays with hole diameter \varnothing 52 mm and \varnothing 62 mm are tested with 120mm water height, trays with diameter \varnothing 90 mm only with 15mm, as more and more very flat shower trays are used because of the low entry level.

Of course the water coming from the shower should not be more than the capacity of the drain. We recommend to calculate with a certain cushion.

▲ Maintainance and cleaning

To avoid the deinstallation of the siphon, every time the outlet is plugged, our traps are designed with eather removable traps or hair catchers. With smaller hole diameters one should still plan an inspection door. At flat shower trays with hole diameter Ø 90 mm one do not need this. Therefore the siphon itself should be provided with an access to the waste pipe, when it is plugged. ATTENTION: Avoid cleaning with compressed air, as the connection parts in the siphon or in the drain pipe may be splitted.

▲ Convenient in installation
HL offers it's shower tray siphons with
rotatable ball-joints, which allow a very quick
and also stressless installation.

▲ Flat shower trays

Flat shower trays may be installed directly on the screed with a rest barrier of max. 2cm - and this still counts - acc. to ÖNORM B 3407-as "barriere-free" installation and therefore as disabled-accessible. The mounting on the screed is cost and time saving - no extra

formworks have to be done on the building site. Beside of that, the waterproofing may be applied on one surface and is not interupted by hollows or penetrations. With a conventional shower tray siphon (e.g. HL520F) this kind of installation is not possible - there is no way to connect the waterproofing to the siphon. Exactly for that raison HL570 FlexBox - as a complete system solution - was designed. Detailed information please see "product data".

Relevant standards/directives

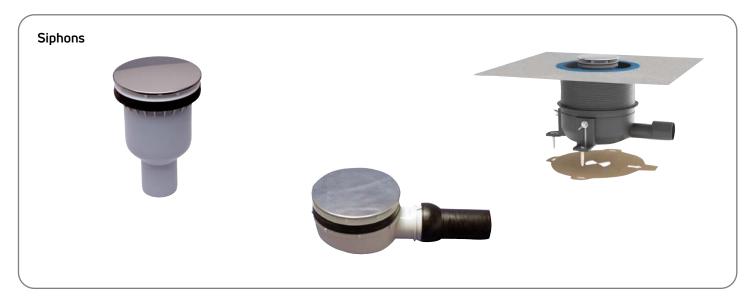
EN 274 Drains and siphons for sanitary equipement



HL Siphons for shower trays – Products – Overview



Product	HL514	HL514/SN	HL520F
Description	Shower tray siphon with plug	Shower tray siphon with stainless steel cover	Shower tray siphon with ball joint and stainless steel cover
Function	For siphoning shower trays with tray hole Ø 52 mm	For siphoning shower trays with tray hole Ø 52 mm, flat	For siphoning shower trays with tray hole 90mm, high capacity



Product	HL511N	HL521	HL570
Description	Shower tray siphon with ball joint and stainless steel cover	Flat shower tray siphon with ball joint and stainless steel cover	Shower tray siphon for flat shower trays
Function	For siphoning shower trays with tray hole 90mm	For siphoning shower trays with tray hole 90mm, flat version	System solution for the waterproof connection between waterproofing and drain body.



HL Shower Trays - Installation of HL570



1. Measure distances of the middle of the tray hole



2. Transfer measures to the concrete ceiling



3. Mark positions for the drilling holes



4. Drill holes



5. Fix drain body with fixing angles



6. Connect drain body with the drain pipe, adjust the slope of the pipe



7. Fill in screed



8. Cut salient nozzle



9. Insert sealing kit (flex-element) in the drain body



10. Apply moisture proofing compound



11. Maximum deviation: 4cm (plus/minus 2cm from the center)



12. Insert the waste valve and screw it together with the counternut. The gasket has to be tight on the bottom of the tray



HL Shower Trays - Installation of HL570



13. Set tray on the screed



14. Pull bottom ring of the counter nut to the waste



15. Connect flex-element with bottom ring of the counter nut

- Dont forget: Leak testAfter leak test insert lot cover again



16. Apply tile glue



17. Set tiles



18. Sectional drawing of the floor



19. Remove lot cover, insert siphon and cover



20. Good job!





HL Siphons for shower trays - Products - Data

HL570 FlexBox Complete installation-kit for flat shower trays, incl. stainless steel cover HL570.0 FlexBox Complete installation-kit for flat shower trays, without cover HL570.0 FlexBox-Plan Complete installation-kit for flat shower trays, but with flattened screw valve

Data

0,5 l/s Capacity

Material PP/TPE/Stainless steel 80 - 200 mm (250 mm) Constr. height

Visible parts HL570: Stainless steel

cover Ø 113 mm HL570.0: Without cover

Tray hole Ø 90 mm Connection Outlet dimension DN40/50 horizontal

Siphon Removable 2-part siphon

EN 274 Standard

ÖNORM B 3407

Height of seal water

50 mm

Including Drain body with lot cover, 3 fixing angles and drilling template; Flex-

element (blue), cover, waste valve with lot cover/mounting wrench and

2-part siphon

Additional information

The drain body is set in the screed and connected information to the moisture proofing compound. Waterproof connection between shower tray and drain body by snapping on the flex-element. Horizontal and vertical deviations of 4cm (plus/minus 2cm from the

center are possible.

Soundproofing tested Test certificate: www.hl.at Compatibility list for matching shower trays at www.hl.at

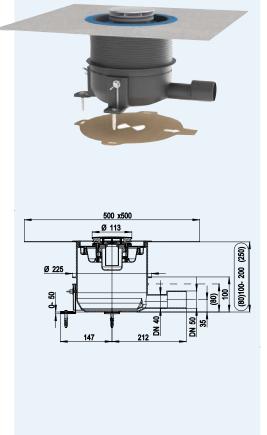
Recommended for

Flat shower trays made of steel enamel, stone, acryl, mineral

casting... with hole Ø 90 mm

Accessories

Screw valve HL0570.1E-Plan for shower trays that do NOT comply with the standard specifications for the geometry of the drain opening according to EN251.





HL-No.	Dimension	Cover	Weight	EAN	Piece/package
570 FlexBox	DN40/50	Stainless steel V2A	530 g	+049998	1
570.0 FlexBox	DN40/50	-	390 g	+050017	1
570.0-Plan FlexBox	DN40/50	-			1









HL520F Shower tray siphon DN40/50 for tray hole 90 mm

Data

Capacity 0,60 l/s
Material PP/PE

Visible parts Cover platte Ø 112 mm, polished

stainless steel

Connection Tray hole Ø 90 mm

Outlet dimension Convertible from horizontal to

vertical, DN40/50, adjustable in

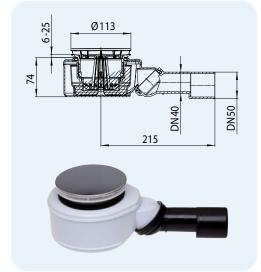
lenght

Stench trap Removable rubber membrane

Standard EN274 Height of seal water 50 mm

Including Hair catcher, lot cover
Additional Installation height 74 mm!

information



White



ŀ	HL-No.	Dimension	Cover plate	Capacity	Installation height	Weight	EAN	Piece/package
Ę	520F	DN40/50	Stainless steel	0,6 l/s	74 mm	530 g	+037452	1
5	520F.0	DN40/50	-	0,6 l/s	74 mm	390 g	+037476	1
E	520	DN50	Stainless steel	0.9 l/s	83 mm	530 a	+031122	1

HL522... Coloured stainless steel covers, fitting to HL520-, HL570- and HL522-series

522.3

Data

Ø 112 mm

Material HL522.1: Stainless steel polished

HL522.11: Gold-plated brass HL522.2: Solid brass

HL522.3: Stainless steel, White

coloured

HL522.1	HL522.11	HL522.2	HL522.3	
HL-No.	Colour	Weight	EAN	Piece/package
522.1	Stainless steel	139 g	+008902	1
522.11	Gold-plated brass	139 g	+008926	1
522.2	Solid brass	139 g	+008940	1

139 g

+ 008964

HL521 Flat shower tray siphon DN40 with ball joint for tray hole 90mm

Data

Capacity 0,42 l/s
Material PP/PE

Visible parts Stainless steel

Connection

For tray hole Ø 90 mm

dimension

Outlet dimension with adjustable ball joint

0-15° DN40

Odor trap Removable
Standard EN274
Height of seal water 30 mm

Additional Height over all 60 mm!

information





HL511N Vertical shower tray siphon DN50 for tray hole Ø 90 mm

Data

Capacity 0,53 l/s
Material PP

Grate Cover plate Ø 113 mm, polished

stainless steel

Connection For tray hole Ø 90 mm

dimension

Outlet dimension Vertical
Trap Removable
Standard EN274
Height of seal water 50 mm
Including Lot cover

Additional Vertical shower trap siphon

information



HL514/SN... Shower tray siphon 6/4" with ball-joint, (cover and tube connector)

Data

Capacity HL514/SN, HL514/SN-80,

HL514/SNV: 0,48 l/s HL514/SN.0, HL514/SNV.0: 0,48 l/s

Material PP

outlet pluggable and weldable

Visible parts HL514/SN: Stainless steel cover

Ø 86 mm,

HL514/SN.0, HL514/SNV.0:

Without cover

Connection HL514/SN, HL514/SNV, dimension HL514/SN.0, HL514/SNV.0:

for tray holes Ø 52 mm HL514/SN-80: Valve Ø 80 mm for

tray holos (4.62 mm

tray holes Ø 62 mm

Outlet dimension horizontal, ball-joint: 280° rotatable,

10° inclinable

DN 40/50 adjustable in length

Hose nozzle HL514/SNV, HL514/SNV.0: Tube

connector 8 - 13 mm

e.g. for leakage tubes or steam

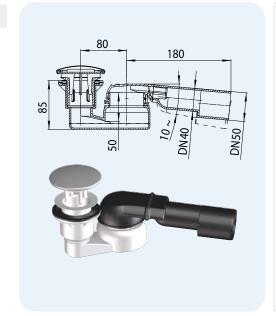
HL514/S.3: Stainless steel, White

showers.

coloured

Standard EN274 Height of seal 50 mm

water





HL-No.	Dimension	Cover	Hose nozzle	Weight	EAN	Piece/package
514/SN	DN40/50	Stainless steel	-	330 g	+004751	10
514/SN-80	DN40/50	Stainless steel	-	335 g	+004775	1
514/SN.0	DN40/50	-	-	235 g	+004799	10
514/SNV	DN40/50	Stainless steel	8 – 13 mm	330 g	+004911	10
514/SNV.0	DN40/50	-	8 – 13 mm	235 g	+010776	10

HL514/S... Stainless steel covers in different colours, fitting to HL514/SN and HL514/SNV

 Data

 Ø
 86 mm

 Material
 HL514/S.1: Stainless steel HL514/S.11: Gold-plated brass HL514/S.2: Solid brass
 HL-No.
 Colour
 Weight
 EAN
 Piece/package

HL-No. Colour Weight EAN Piece/package +405138 514/S.1 Stainless steel 95 g 1 514/S.11 Gold-plated brass 95 g +425136 514/S.2 Solid brass 95 g +425143 514/S.3 White 95 g + 525140



HL514 Shower tray siphon 6/4" with ball-joint and plug

Data

Capacity 0,58 l/s
Material PP,

outlet pluggable and weldable

Visible parts Stainless steel

Connection HL514: Valve 6/4" for hole Ø 52 mm,

HL514-80: Valve Ø 80 mm

for hole Ø 62 mm

Outlet dimension horizontal, ball-joint: 280° rotatable,

10° inclinable

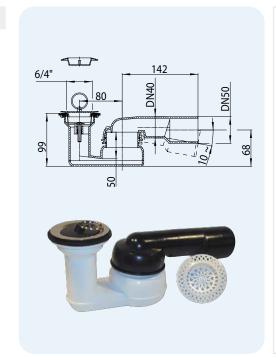
HL514, HL514-80: DN 40/50

cuttable in length

Hose nozzle –
Standard EN274
Height of seal 50 mm

water

Including Plug and hair catcher 6/4"





HL-No.	Dimension	Weight	EAN	Piece/package
514	DN40/50	275 g	+305148	10
514-80	DN40/50	260 g	+514809	1

HL513/S Vertical shower trap connector 6/4"

Data

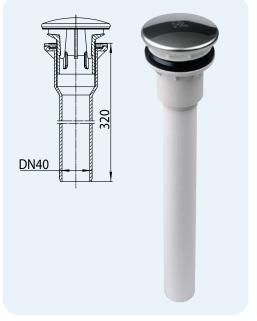
Capacity 0,75 l/s
Material PP

Visible parts Stainless steel 86mm

Connection Outlet 6/4" for hole 52mm

dimension

Outlet dimension vertical DN40
Standard EN274
Additional info without trap





HL-No.	Dimension	Cover	Weight	EAN	Piece/package
513/S	DN40	Stainless steel	420 g	+513000	1
513/S.0	DN40	-	325 g	+513017	1



HL Siphons for shower trays – Products – Accessories

HL16.1 Elbow connector for shower trays

Data

Material PI

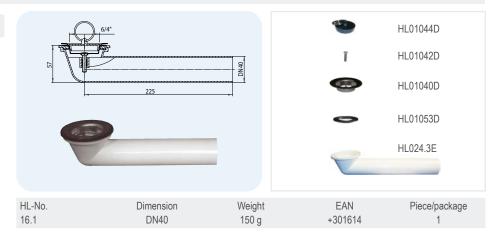
Connection Waste outlet 6/4"

dimension

Outlet

horizontal, DN 40/50 adjustable

in length



HL515, HL515/S, HL517 Acrylic glass immersion tube

Data

Material Polycarbonate

Dimension HL515, HL515/S: h = 100 mm

HL517: h = 105 mm

Additional HL515

information Fits to HL514 and HL80.2(H)

HL515/S:

fits to HL514/SN(V) and HL513/S

HL517: fits to HL520and HL522-series

All immersion tubes are available in different length on request



HL-No.	Dimension	Weight	EAN	Piece/package
515	h = 100 mm	42 g	+305155	1
515/S	h = 100 mm	42 g	+315154	1
517	h = 105 mm	87 g	+008810	1

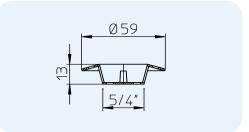
HL525, HL526 Hair catcher

Data

Material PE

Dimension HL525: 5/4"

HL526: 6/4"





HL-No.	Dimension	Weight	EAN	Piece/package
525	5/4"	12 g	+305254	1
526	6/4"	12 g	+305261	1









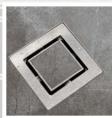
HL System solutions

5. Barrier-free showers



























HL System solutions for barrier-free showers

Basic information for planning and execution

Barrier-free showers nowadays are very popular to end-users. The advantages are obvious: Real and optical gain of space, individual design of the shower area, and now also a wide range of barrier-free shower solutions in every price segment. In case of installation of barrier-free showers, it can be observed, that the practice is far away from the theory, whatsoever. There are many interfaces, where the instalment can go wrong and therefore the bathroom users expectations are not fulfilled; because of wrong consultation, because of a lack of coordination between construction company, installer, tiler... In order to prevent this failures it is recommended to draw attention to certain aspects, such as following:

▲ Installation height

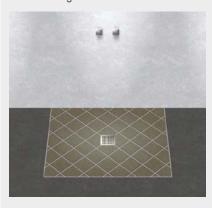
Especially in case of bathroom renovation, the installer has the problem of low floor heights - this leads to low drainage systems. Please do not forget, that for all tiled shower spaces a slope of minimum 2% is needed and has to be added to the drain height, when calculating!

▲ Capacity

Calculation of the required minimum drain capacity: Capacity of the shower fitting + 20%! The test procedure for the determination of the drain capacity is described in EN 1253-2; in this standard the nominal capacity is valid with a water height of 20mm above the grate or cover of the drain.

▲ Connection to the waterproofing
Tiled showers are most endangered areas,
concerning the penetration of moisture into
the floor (and wall) construction (according
ÖNORM B 2207 danger class W4). Since tiles
and tile glue are not regarded as a permanent
sealing, a waterproofing has to be applied
below the tiles. Most endangered spot is the
transition from drain to the sealing compound.
Therefore high quality drains are equipped
with flanges, which care for the tight sealing in
this area. Also these drains should be able, to
drain off leakage water, which is staying below
the tiles (secondary water drainage).

▲ Selection of the drain system: Point drainage



- ▲ Advantages of point drainage:
- o Easy and long term experienced installation
- o Low price
- Less construction height, as the drain position is mostly in the middle and not at the end of the shower area
- o Individual choice of the drain position according to the tile pattern, perfect for diagonal tiling

Linear drainage



- ▲ Advantages of linear drainage:
- Easy preparation of the screed slope (only in one direction)
- o Perfect for large tiles
- o Installation close to the wall avoids the overflow of water into the rest of the bathroom
- o High end design

▲ Stench trap

According to standard EN 12056-2 odor traps must be installed inside of the buildings. Every odor trap has to have water seal of at least 5 cm height in order to prevent odor rising into the building. In case of vacuum in the drainage system, these 5 cm water prevent the trap from being sucked out by the vacuum. In case of lower floor heights (renovation) the sealing height in the trap could be less than 5 cm, if the trap is equipped with an additional mechanical odor barrier. For this case HL shower drain systems are equipped with the proven Primusblue system. The Primusblue is a combined trap with sealing water and a mechanical odor barrier that provides absolute odor-tightness and even more protection against unpleasant odors from the sewer. With a tightness at overpressure up to +800 Pascal and at negative pressure down to -400 Pascal, Primusblue offers more safety compared to conventional water odor seals with 50 mm sealing water. Another benefit is the function of backflow tightness down to a pressure of 0.5 mWs. The backflow of wastewater in the case of awkwardly laid drainage pipes (e.g. from a bathtub or swimming pool backwash) is effectively prevented.

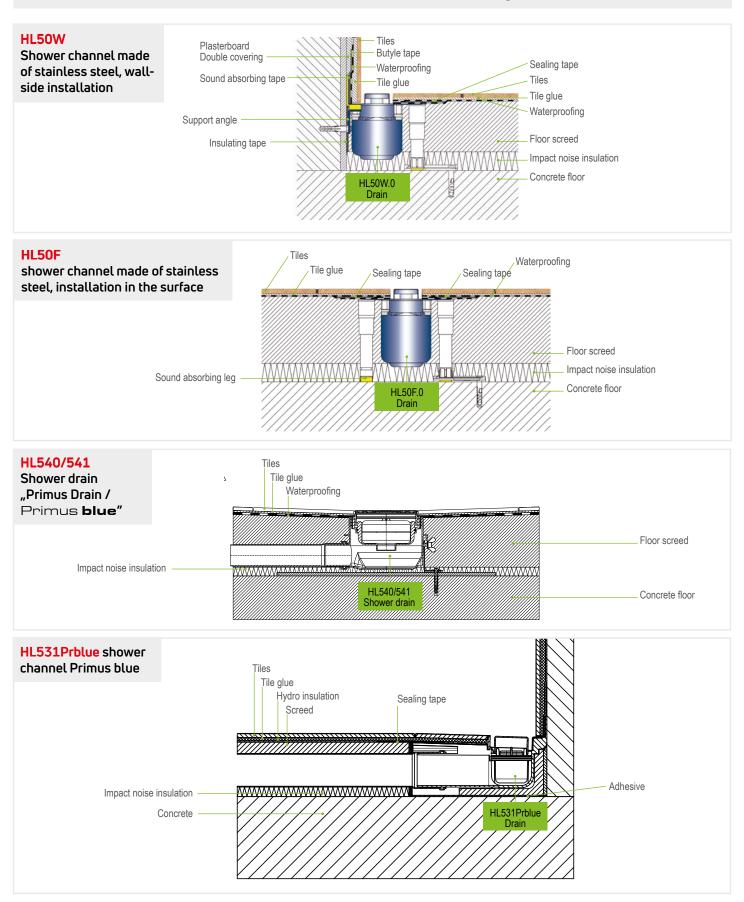
▲ Coordination at the building site
Usually three different kind of craftsmen work
on the completion of a barrier-free shower:
Screed layer, plumber and tiler. Therefor a
good cross-over communication between
these craftsmen is needed. For this purpose
we recommend, to establish a central planning
authority (planner, architect, ...).

▲ Design

HL is offering different kinds of covers in different colours. Therefor the final decision has to be taken in accordance with the end-user of the bathroom.

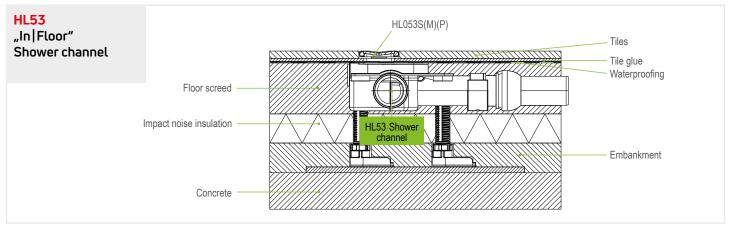


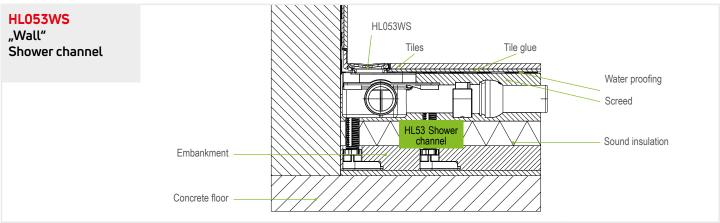
HL Barrier-free showers – Sectional drawings

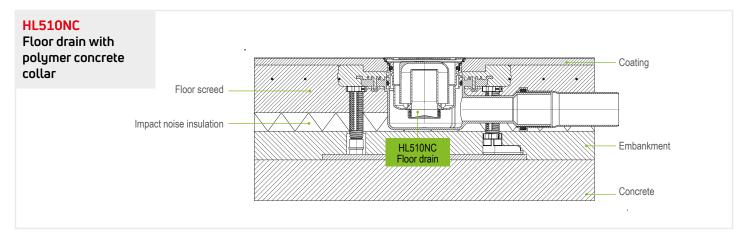


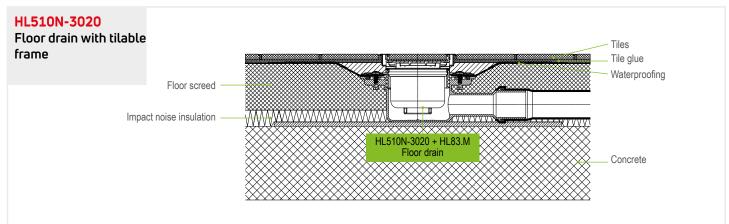


HL Barrier-free showers – Sectional drawings



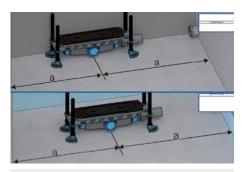




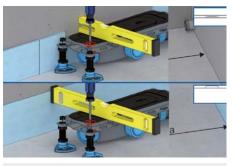




HL Barrier-free showers – Installation manual HL53



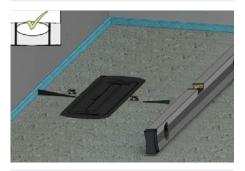
1. Position drain body and fix it to the raw concrete ceiling



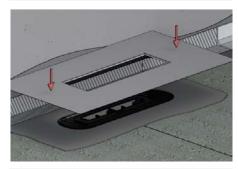
2. Adjust drain body to the height - then $\,$ level it long- and broadside



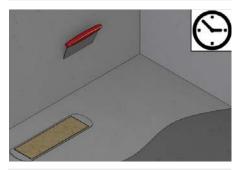
3. Switch drain nozzle to one of the three possible sides, connect it to the drain pipe and check whether it's water proof



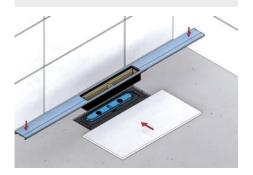
4. Level screed by keeping a minimum slope of 2% to the building protection



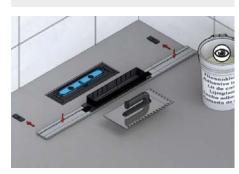
5. Remove building protection and any pollution, then install sealing kit



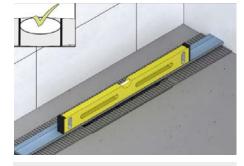
6. Use building protection, install waterproof seal, paint both sides and make sure to check drying time.



7. Stainless steel - position cover, cut it to the length and adjust height step by step



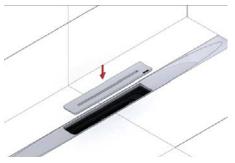
8. Fix to the ground by using tile adhesive



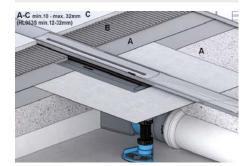
9. Stainless steel - adjust cover vertically by pushing down the adhesive bed; the inlaying cross sloap ensures reliable drainage



10. Remove positioning profile and install odour trap



11. Removable stainless steel - use cover - ready!



12. A: Waterproof SealC: Ceramic tiling

B: Tile adhesive



HL Barrier-free showers - Installation manual HL531Prblue



1. Measure shower area; Adjust shower drain in length by shortening both sides of the shower block



2. Preparation of the surface (flat surface), apply adhesive on the surface



3. Position shower channel in the adhesive layer next to the wall. Check its horizontal position



4. Connect the drain with pipe and make leak test



5. Insert the sound insulation and and thermal insulation



6. Insert screed with a minimum of 2% slope to the edge of the EPS-panel



7. Apply liquid waterproofing on both sides of the sealing foil



8. Attach sealing tapes, seal the entire shower area



9. Set tiles up to the edge of the protection cover



10. Remove protection cover and fill silicone into the surrounding gaps





HL Barrier-free showers - Installation manual HL540/541



1. Define outlet position, set the stencil in direction to the outlet pipe and mark the holes for the drilling.



2. Drill holes



3. Fix the drain body with fixing angles on the floor and connect to the pipe.



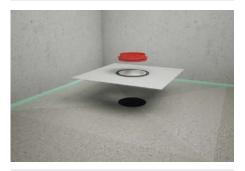
4. Adjust the decline of the pipe by using the angles and level the drain body.



5. Insert floor screed and create a slope to the drain by minimum 2%.



6. After the floor screed is dry, cut the salient nozzle with a saw (or cutting disc).



7. Insert the sealing kit, turn the protection cover and insert it again.



8. Apply waterproofing in the whole shower area and on (and under) the sealing kit, seal the edges with sealing tapes.



9. Insert the extension, if necessary, cut the extension.



10. Adjust the extension by turning to the tile layout (360° turnable), lay the tiles.



11. Remove the protection cover and insert the grate.



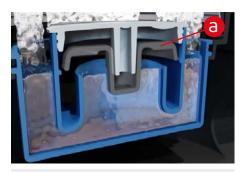
12. Ready



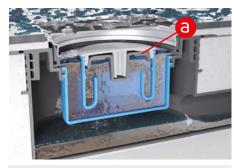
Primus **blue** trap - function



"Primus **blue**" - the new HL hybrid trap for shower and floor drains - works mechanic and hydraulic. It protects from smell, no matter if there is under pressure, over pressure or if the water inside is evaporated.



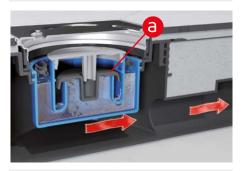
When the water from the shower runs throuth the trap, the valve disc opens.



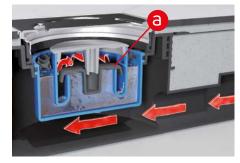
When the valve disc is opened, the water may pass the trap as usual.



if the water inflow is stopped, the valve disc closes, the water stays inside the trap.



Underpressure from the sewer: The weight of the valve disc together with the water inside the trap protects from getting sucked out.



Overpressure in the sewer: The valve disc is pressed against the valve seat, so no smell may get out. A further advantage: the trap is save against back flow.



Should the water inside the trap be evaporated, e.g. caused by a floor heating, the mechanic trap protects from bad smell







HL Barrier-free showers - Products - Data

HL50F.0 Shower channel made of stainless steel, installation in the surface, HEIGHT 110 MM!

Data

Capacity 600 - 1300 mm length = 0.8 l/s

1400 - 2100 mm length = 1,4 l/s

Material Stainless steel 1.4301/PP

Outlet dimension DN50 with ball-joint

Height 110 mm Standard EN 1253 Height of seal water 50 mm

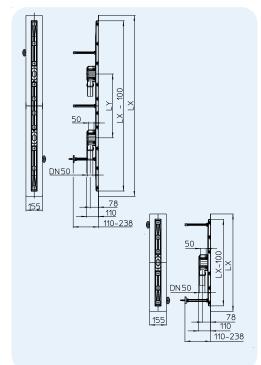
Additional removable stench trap, with 5cm information surrounding sand-coated flange for

a save connection to the under-tile waterproofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage

water, to flow into the trap.

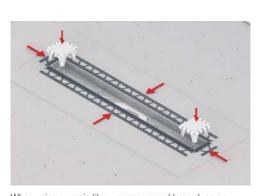
Including Sound absorbing height adjustable levelling legs, 2 pieces of edge trim

jigs, 2 pieces of tiling gauges









When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

HL-No.	Material	Dimen- sion	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50F.0/60	Stainless steel	DN50	600 mm		0,8l/s	2261 g	+024599	1
HL50F.0/70	Stainless steel	DN50	700 mm		0,8l/s	2488 g	+024612	1
HL50F.0/80	Stainless steel	DN50	800 mm		0,8l/s	2729 g	+024636	1
HL50F.0/90	Stainless steel	DN50	900 mm		0,8l/s	2937 g	+024650	1
HL50F.0/90.2	Stainless steel	2 x DN50	900 mm	200 mm	1,4l/s	3194 g	+032433	1
HL50F.0/100	Stainless steel	DN50	1000 mm		0,8l/s	3224 g	+024674	1
HL50F.0/100.2	Stainless steel	2 x DN50	1000 mm	300 mm	1,4l/s	3480 g	+032440	1
HL50F.0/110	Stainless steel	DN50	1100 mm		0,8l/s	3525 g	+024698	1
HL50F.0/110.2	Stainless steel	2 x DN50	1100 mm	300 mm	1,4l/s	3782 g	+032457	1
HL50F.0/120	Stainless steel	DN50	1200 mm		0,8l/s	3760 g	+024711	1
HL50F.0/120.2	Stainless steel	2 x DN50	1200 mm	400 mm	1,4l/s	4017 g	+032464	1
HL50F.0/130	Stainless steel	DN50	1300 mm		0,8l/s	3966 g	+024735	1
HL50F.0/130.2	Stainless steel	2 x DN50	1300 mm	400 mm	1,4l/s	4150 g	+032471	1
HL50F.0/140	Stainless steel	2 x DN50	1400 mm	500 mm	1,4l/s	5840 g	+030545	1
HL50F.0/150	Stainless steel	2 x DN50	1500 mm	500 mm	1,4l/s	6120 g	+030569	1
HL50F.0/160	Stainless steel	2 x DN50	1600 mm	600 mm	1,4l/s	6260 g	+030583	1
HL50F.0/170	Stainless steel	2 x DN50	1700 mm	600 mm	1,4l/s	6600 g	+030606	1
HL50F.0/180	Stainless steel	2 x DN50	1800 mm	700 mm	1,4l/s	6820 g	+030620	1
HL50F.0/190	Stainless steel	2 x DN50	1900 mm	700 mm	1,4l/s	7060 g	+030644	1
HL50F.0/200	Stainless steel	2 x DN50	2000 mm	800 mm	1,4l/s	7240 g	+030668	1
HL50F.0/210	Stainless steel	2 x DN50	2100 mm	800 mm	1,4l/s	7560 g	+030682	1



HL50FF.0 Shower channel made of stainless steel, installation in the surface (flat version), HEIGHT 90 MM!

Data

Capacity 600 – 1300 mm length = 0,7 l/s

1400 – 2100 mm length = 1,2 l/s

Material Stainless steel 1.4301/PP

Outlet dimension DN50 with ball-joint

Height 90 mm Height of seal water 30 mm

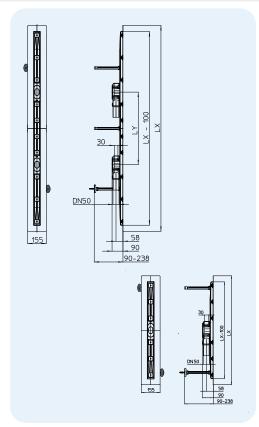
Additional removable stench trap, with 5cm information surrounding sand-coated flange for

a save connection to the under-tile waterproofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage

water, to flow into the trap.

Including Sound absorbing height adjustable

levelling legs, 2 pieces of edge trim jigs, 2 pieces of tiling gauges









When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

HL-No.	Material	Dimen- sion	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50FF.0/60	Stainless steel	DN50	600 mm		0,7l/s	2261 g	+029761	1
HL50FF.0/70	Stainless steel	DN50	700 mm		0,7l/s	2488 g	+029778	1
HL50FF.0/80	Stainless steel	DN50	800 mm		0,7l/s	2729 g	+029785	1
HL50FF.0/90	Stainless steel	DN50	900 mm		0,7l/s	2937 g	+029792	1
HL50FF.0/90.2	Stainless steel	2 x DN50	900 mm	200 mm	1,2l/s	3135 g	+035717	1
HL50FF.0/100	Stainless steel	DN50	1000 mm		0,7l/s	3224 g	+024834	1
HL50FF.0/100.2	Stainless steel	2 x DN50	1000 mm	300 mm	1,2l/s	3422 g	+035724	1
HL50FF.0/110	Stainless steel	DN50	1100 mm		0,7l/s	3525 g	+024858	1
HL50FF.0/110.2	Stainless steel	2 x DN50	1100 mm	300 mm	1,2l/s	3723 g	+035731	1
HL50FF.0/120	Stainless steel	DN50	1200 mm		0,7l/s	3760 g	+024872	1
HL50FF.0/120.2	Stainless steel	2 x DN50	1200 mm	400 mm	1,2l/s	3958 g	+035748	1
HL50FF.0/130	Stainless steel	DN50	1300 mm		0,7l/s	3966 g	+024896	1
HL50FF.0/130.2	Stainless steel	2 x DN50	1300 mm	400 mm	1,2l/s	4164 g	+035755	1
HL50FF.0/140	Stainless steel	2 x DN50	1400 mm	500 mm	1,2l/s	5840 g	+033362	1
HL50FF.0/150	Stainless steel	2 x DN50	1500 mm	500 mm	1,2l/s	6120 g	+033379	1
HL50FF.0/160	Stainless steel	2 x DN50	1600 mm	600 mm	1,2l/s	6260 g	+033386	1
HL50FF.0/170	Stainless steel	2 x DN50	1700 mm	600 mm	1,2l/s	6600 g	+033393	1
HL50FF.0/180	Stainless steel	2 x DN50	1800 mm	700 mm	1,2l/s	6820 g	+033409	1
HL50FF.0/190	Stainless steel	2 x DN50	1900 mm	700 mm	1,2l/s	7060 g	+033416	1
HL50FF.0/200	Stainless steel	2 x DN50	2000 mm	800 mm	1,2l/s	7240 g	+033423	1
HL50FF.0/210	Stainless steel	2 x DN50	2100 mm	800 mm	1,2l/s	7560 g	+033430	1



HL50FU.0 Shower channel made of stainless steel, installation in the surface (extra flat), HEIGHT 68 MM!

Data

600 - 1300 mm length = 0,46 l/s Capacity

1400 - 2100 mm length = 0,82 l/s

Material Stainless steel 1.4301/PP

Outlet dimension Height 68 mm EN 1253 Standard Height of seal water 24 mm

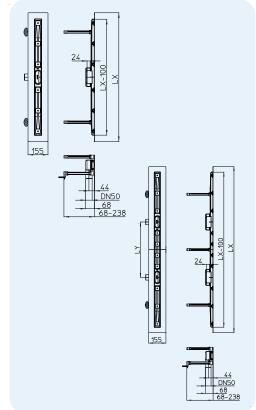
Additional Removable stench trap, with 5 cm surrounding sand coated flange for information

a save connection to the under-tile waterproofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage

water, to flow into the trap.

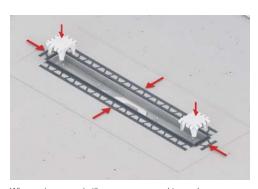
Sound absorbing height adjustable Including levelling legs, 2 pieces of edge trim

jigs, 2 pieces of tiling gauges.









When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

HL-No.	Material	Dimen- sion	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50FU.0/60	Stainless steel	DN50	600 mm		0,46 l/s	2261 g	+033904	1
HL50FU.0/70	Stainless steel	DN50	700 mm		0,46 l/s	2488 g	+033911	1
HL50FU.0/80	Stainless steel	DN50	800 mm		0,46 l/s	2729 g	+033928	1
HL50FU.0/90	Stainless steel	DN50	900 mm		0,46 l/s	2937 g	+033935	1
HL50FU.0/90.2	Stainless steel	2 x DN50	900 mm	200 mm	0,82 l/s	3194 g	+035762	1
HL50FU.0/100	Stainless steel	DN50	1000 mm		0,46 l/s	3224 g	+033942	1
HL50FU.0/100.2	Stainless steel	2 x DN50	1000 mm	300 mm	0,82 l/s	3481 g	+035779	1
HL50FU.0/110	Stainless steel	DN50	1100 mm		0,46 l/s	3525 g	+033959	1
HL50FU.0/110.2	Stainless steel	2 x DN50	1100 mm	300 mm	0,82 l/s	3782 g	+035786	1
HL50FU.0/120	Stainless steel	DN50	1200 mm		0,46 l/s	3760 g	+033980	1
HL50FU.0/120.2	Stainless steel	2 x DN50	1200 mm	400 mm	0,82 l/s	4017 g	+035793	1
HL50FU.0/130	Stainless steel	DN50	1300 mm		0,46 l/s	3966 g	+033997	1
HL50FU.0/130.2	Stainless steel	2 x DN50	1300 mm	400 mm	0,82 l/s	4140 g	+035809	1
HL50FU.0/140	Stainless steel	2 x DN50	1400 mm	500 mm	0,82 l/s	5840 g	+034000	1
HL50FU.0/150	Stainless steel	2 x DN50	1500 mm	500 mm	0,82 l/s	6120 g	+034017	1
HL50FU.0/160	Stainless steel	2 x DN50	1600 mm	600 mm	0,82 l/s	6260 g	+034024	1
HL50FU.0/170	Stainless steel	2 x DN50	1700 mm	600 mm	0,82 l/s	6600 g	+034031	1
HL50FU.0/180	Stainless steel	2 x DN50	1800 mm	700 mm	0,82 l/s	6820 g	+034048	1
HL50FU.0/190	Stainless steel	2 x DN50	1900 mm	700 mm	0,82 l/s	7060 g	+034055	1
HL50FU.0/200	Stainless steel	2 x DN50	2000 mm	800 mm	0,82 l/s	7240 g	+034062	1
HL50FU.0/210	Stainless steel	2 x DN50	2100 mm	800 mm	0,82 l/s	7560 g	+034079	1



HL50W.0 Shower channel made of stainless steel, installation wall-side, HEIGHT 110 MM!

Data

Capacity 600 - 1300 mm length = 0.8 l/s

1400 - 2100 mm length = 1,4 l/s

Material Stainless steel 1.4301/PP

Outlet dimension DN50 with ball-joint

Height 110 mm Standard EN 1253 Height of seal water 50 mm

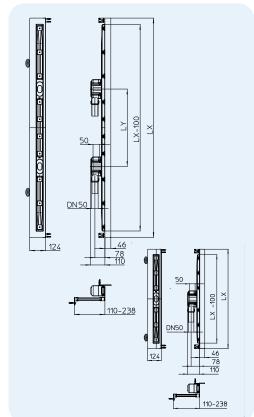
Additional removable stench trap, with 5cm information surrounding sand-coated flange for

a save connection to the under-tile waterproofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage

water, to flow into the trap.

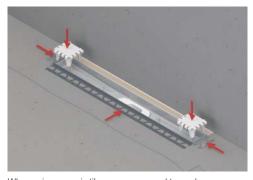
Including Sound absorbing height adjustable levelling legs, 2 pieces of edge trim

jigs, 2 pieces of tiling gauges









When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

HL-No.	Material	Dimen- sion	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50W.0/60	Stainless steel	DN50	600 mm		0,8l/s	2409 g	+024759	1
HL50W.0/70	Stainless steel	DN50	700 mm		0,8l/s	2655 g	+024773	1
HL50W.0/80	Stainless steel	DN50	800 mm		0,8l/s	2965 g	+024797	1
HL50W.0/90	Stainless steel	DN50	900 mm		0,8l/s	3248 g	+024810	1
HL50W.0/90.2	Stainless steel	2 x DN50	900 mm	200 mm	1,4 l/s		+032495	1
HL50W.0/100	Stainless steel	DN50	1000 mm		0,8l/s	3462 g	+024834	1
HL50W.0/100.2	Stainless steel	2 x DN50	1000 mm	300 mm	1,4 l/s		+032488	1
HL50W.0/110	Stainless steel	DN50	1100 mm		0,8l/s	3769 g	+024858	1
HL50W.0/110.2	Stainless steel	2 x DN50	1100 mm	300 mm	1,4 l/s		+032501	1
HL50W.0/120	Stainless steel	DN50	1200 mm		0,8l/s	4082 g	+024872	1
HL50W.0/120.2	Stainless steel	2 x DN50	1200 mm	400 mm	1,4 l/s		+032518	1
HL50W.0/130	Stainless steel	DN50	1300 mm		0,8l/s	4283 g	+024896	1
HL50W.0/130.2	Stainless steel	2 x DN50	1300 mm	400 mm	1,4 l/s		+032525	1
HL50W.0/140	Stainless steel	DN50	1400 mm	500 mm	1,4l/s	6200 g	+030385	1
HL50W.0/150	Stainless steel	DN50	1500 mm	500 mm	1,4l/s	6480 g	+030408	1
HL50W.0/160	Stainless steel	DN50	1600 mm	600 mm	1,4l/s	6780 g	+030422	1
HL50W.0/170	Stainless steel	DN50	1700 mm	600 mm	1,4l/s	6960 g	+030446	1
HL50W.0/180	Stainless steel	DN50	1800 mm	700 mm	1,4l/s	7200 g	+030460	1
HL50W.0/190	Stainless steel	DN50	1900 mm	700 mm	1,4l/s	7450 g	+030484	1
HL50W.0/200	Stainless steel	DN50	2000 mm	800 mm	1,4l/s	7920 g	+030507	1
HL50W.0/210	Stainless steel	DN50	2100 mm	800 mm	1,4l/s	8020 g	+030521	1



HL50WF.0 Shower channel made of stainless steel, installation wall-side (flat version), HEIGHT 90 MM!

Data

Capacity 600 - 1300 mm length = 0.7 l/s

1400 – 2100 mm length = 1,2 l/s

Material Stainless steel 1.4301/PP

Outlet dimension DN50 with ball-joint

Height 90 mm Height of seal water 30 mm

Additional removable stench trap, with angled information bar at the back, 5cm surrounding

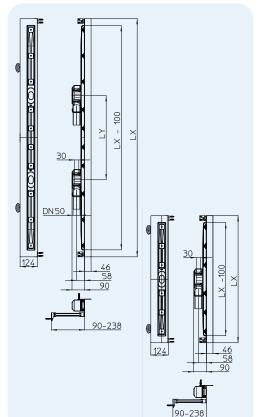
sand-coated flange for a save connection to the under-tile water-proofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage water, to flow

into the trap.

Including Sound absorbing height adjustable

levelling legs, butyl tape for a waterproof connection to the wall, tape for sound disconnection, 2 pieces of edge trim jigs, 2 pieces of

tiling gauges







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When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

HL-No.	Material	Dimen- sion	length LX	length LY	Capacity	Weight	EAN	Piece/ package	
HL50WF.0/60	Stainless steel	DN50	600 mm		0,7 l/s	2409 g	+029716	1	
HL50WF.0/70	Stainless steel	DN50	700 mm		0,7 l/s	2655 g	+029723	1	
HL50WF.0/80	Stainless steel	DN50	800 mm		0,7 l/s	2965 g	+029587	1	
HL50WF.0/90	Stainless steel	DN50	900 mm		0,7 l/s	3248 g	+029594	1	
HL50WF.0/90.2	Stainless steel	2 x DN50	900 mm	200 mm	1,2 l/s		+035663	1	
HL50WF.0/100	Stainless steel	DN50	1000 mm		0,7 l/s	3462 g	+029730	1	
HL50WF.0/100.2	Stainless steel	2 x DN50	1000 mm	300 mm	1,2 l/s		+035670	1	
HL50WF.0/110	Stainless steel	DN50	1100 mm		0,7 l/s	3769 g	+029747	1	
HL50WF.0/110.2	Stainless steel	2 x DN50	1100 mm	300 mm	1,2 l/s		+035687	1	
HL50WF.0/120	Stainless steel	DN50	1200 mm		0,7 l/s	4082 g	+029754	1	
HL50WF.0/120.2	Stainless steel	2 x DN50	1200 mm	400 mm	1,2 l/s		+035694	1	
HL50WF.0/130	Stainless steel	DN50	1300 mm		0,7 l/s	4283 g	+029709	1	
HL50WF.0/130.2	Stainless steel	2 x DN50	1300 mm	400 mm	1,2 l/s		+035700	1	
HL50WF.0/140	Stainless steel	DN50	1400 mm	500 mm	1,2 l/s	6200 g	+033447	1	
HL50WF.0/150	Stainless steel	DN50	1500 mm	500 mm	1,2 l/s	6480 g	+033454	1	
HL50WF.0/160	Stainless steel	DN50	1600 mm	600 mm	1,2 l/s	6780 g	+033461	1	
HL50WF.0/170	Stainless steel	DN50	1700 mm	600 mm	1,2 l/s	6960 g	+033478	1	
HL50WF.0/180	Stainless steel	DN50	1800 mm	700 mm	1,2 l/s	7200 g	+033485	1	
HL50WF.0/190	Stainless steel	DN50	1900 mm	700 mm	1,2 l/s	7450 g	+033492	1	
HL50WF.0/200	Stainless steel	DN50	2000 mm	800 mm	1,2 l/s	7920 g	+033508	1	
HL50WF.0/210	Stainless steel	DN50	2100 mm	800 mm	1,2 l/s	8020 g	+033515	1	



HL50WU.0 Shower channel made of stainless steel, installation wall-side (extra flat), HEIGHT 68 MM!

HL-No.

Data

Capacity 600 - 1300 mm length = 0,46 l/s

1400 - 2100 mm length = 0,82 l/s

Material Stainless steel 1.4301/PP

Outlet dimension DN50
Height 68 mm
Height of seal water 24 mm

Additional Removable stench trap, with 5cm information surrounding sand coated flange

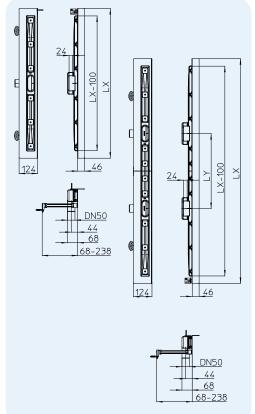
and angled bar at the back for a save connection to the under-tile waterproofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage

water, to flow into the trap.

Including Sound absorbing height adjustable levelling legs, butyl tape for a

waterproof connection to the wall, tape for sound disconnection, 2 pieces of edge trim jigs, 2 pieces

of tiling gauges.

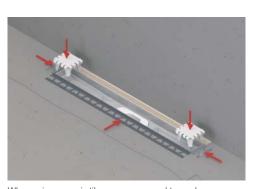


Material





Dimension length LX length LY Capacity Weight EAN Piece/



When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

		2	10119111 = 21	.0.19 = 1	capacity		 package	
HL50WU.0/60	Stainless steel	DN50	600 mm		0,46 l/s	2409 g	1	
HL50WU.0/70	Stainless steel	DN50	700 mm		0,46 l/s	2655 g	1	
HL50WU.0/80	Stainless steel	DN50	800 mm		0,46 l/s	2965 g	1	
HL50WU.0/90	Stainless steel	DN50	900 mm		0,46 l/s	3248 g	1	
HL50WU.0/90.2	Stainless steel	2 x DN50	900 mm	200 mm	0,82 l/s		1	
HL50WU.0/100	Stainless steel	DN50	1000 mm		0,46 l/s	3462 g	1	
HL50WU.0/100.2	Stainless steel	2 x DN50	1000 mm	300 mm	0,82 l/s		1	
HL50WU.0/110	Stainless steel	DN50	1100 mm		0,46 l/s	3769 g	1	
HL50WU.0/110.2	Stainless steel	2 x DN50	1100 mm	300 mm	0,82 l/s		1	
HL50WU.0/120	Stainless steel	DN50	1200 mm		0,46 l/s	4082 g	1	
HL50WU.0/120.2	Stainless steel	2 x DN50	1200 mm	400 mm	0,82 l/s		1	
HL50WU.0/130	Stainless steel	DN50	1300 mm		0,46 l/s	4283 g	1	
HL50WU.0/130.2	Stainless steel	2 x DN50	1300 mm	400 mm	0,82 l/s		1	
HL50WU.0/140	Stainless steel	DN50	1400 mm	500 mm	0,82 l/s	6200 g	1	
HL50WU.0/150	Stainless steel	DN50	1500 mm	500 mm	0,82 l/s	6480 g	1	
HL50WU.0/160	Stainless steel	DN50	1600 mm	600 mm	0,82 l/s	6780 g	1	
HL50WU.0/170	Stainless steel	DN50	1700 mm	600 mm	0,82 l/s	6960 g	1	
HL50WU.0/180	Stainless steel	DN50	1800 mm	700 mm	0,82 l/s	7200 g	1	
HL50WU.0/190	Stainless steel	DN50	1900 mm	700 mm	0,82 l/s	7450 g	1	
HL50WU.0/200	Stainless steel	DN50	2000 mm	800 mm	0,82 l/s	7920 g	1	
HL50WU.0/210	Stainless steel	DN50	2100 mm	800 mm	0,82 l/s	8020 g	1	



HL50FV.0 Shower channel made of stainless steel, installation in the surface, with vertical outlet

Data

Capacity 600 - 1300 mm length = 0,8 l/s

1400 - 2100 mm length = 1,4 l/s

Material Stainless steel 1.4301/PP

Outlet dimension DN50 vertical
Height See techn. drawing

Standard EN 1253 Height of seal water 50 mm

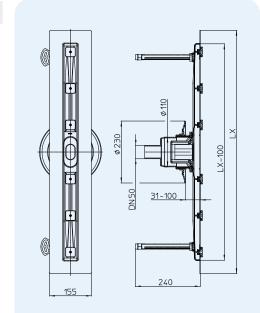
Additional Removable stench trap, with 5cm information surrounding sand-coated flange for

a save connection to the under-tile waterproofing. The frameless design makes it possible, to choose border bars, fitting to the tiles and enables under-tile leakage

water to flow into the trap.

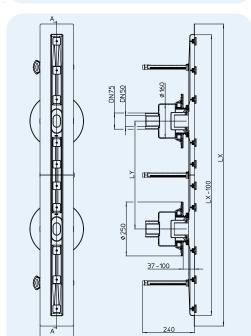
Including Sound absorbing height adjustable levelling legs, 2 pieces of edge trim

jigs, 2 pieces of tiling gauges



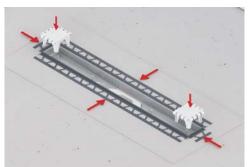












When using ceramic tiles we recommend to produce an individual frame made of tiling profiles.

HL-No.	Material	Dimension	Length LX	Length LY	Capacity	Weight	EAN	Piece/ package
50FV.0/60	Stainless steel	DN50	600 mm		0,8 l/s	3760 g	+03792	1
50FV.0/70	Stainless steel	DN50	700 mm		0,8 l/s	3840 g	+03777	1
50FV.0/80	Stainless steel	DN50	800 mm		0,8 l/s	4060 g	+03793	1
50FV.0/90	Stainless steel	DN50	900 mm		0,8 l/s	4100 g	+03773	1
50FV.0/100	Stainless steel	DN50	1000 mm		0,8 l/s	4850 g	+03794	1
50FV.0/110	Stainless steel	DN50	1100 mm		0,8 l/s	5010 g	+03795	1
50FV.0/120	Stainless steel	DN50	1200 mm		0,8 l/s	5210 g	+03796	1
50FV.0/130	Stainless steel	DN50	1300 mm		0,8 l/s	5280 g	+03797	1
50FV.0/140	Stainless steel	DN50	1400 mm	500 mm	1,4 l/s	8250 g	+03798	1
50FV.0/150	Stainless steel	DN50	1500 mm	500 mm	1,4 l/s	8500 g	+03799	1
50FV.0/160	Stainless steel	DN50	1600 mm	600 mm	1,4 l/s	8650 g	+03800	1
50FV.0/170	Stainless steel	DN50	1700 mm	600 mm	1,4 l/s	8900 g	+03801	1
50FV.0/180	Stainless steel	DN50	1800 mm	700 mm	1,4 l/s	9130 g	+03802	1
50FV.0/190	Stainless steel	DN50	1900 mm	700 mm	1,4 l/s	9380 g	+03803	1
50FV.0/200	Stainless steel	DN50	2000 mm	800 mm	1,4 l/s	9620 g	+03804	1
50FV.0/210	Stainless steel	DN50	2100 mm	800 mm	1,4 l/s	9870 g	+03805	1



HL050S Cover plate "Standard", made of stainless steel - for shower channels

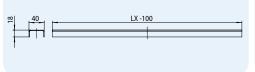
Data

Material Stainless steel 1.4301

Height Usage for floorings from 2 – 16 mm

including tile glue

Load classification K3 (300 kg)





HL-No.	Material	length LX -100	Weight	EAN	Piece/package	HL-No.	Material	length LX -100	Weight	EAN	Piece/package
050S/60	Stainless steel	500 mm	410 g	+024919	1	050S/140	Stainless steel	1300 mm	1074 g	+029891	1
050S/70	Stainless steel	600 mm	490 g	+024933	1	050S/150	Stainless steel	1400 mm	1156 g	+029914	1
050S/80	Stainless steel	700 mm	583 g	+024957	1	050S/160	Stainless steel	1500 mm	1238 g	+029938	1
050S/90	Stainless steel	800 mm	672 g	+024971	1	050S/170	Stainless steel	1600 mm	1320 g	+029952	1
050S/100	Stainless steel	900 mm	746 g	+024995	1	050S/180	Stainless steel	1700 mm	1402 g	+029976	1
050S/110	Stainless steel	1000 mm	830 g	+025015	1	050S/190	Stainless steel	1800 mm	1484 g	+029990	1
050S/120	Stainless steel	1100 mm	900 g	+025039	1	050S/200	Stainless steel	1900 mm	1566 g	+030026	1
050S/130	Stainless steel	1200 mm	992 g	+025053	1	050S/210	Stainless steel	2000 mm	1648 g	+030040	1

HL050D Cover plate "Design", made of stainless steel - for shower channels

Data

Material Stainless steel 1.4301 brushed

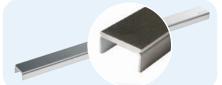
finish

Usage for floorings Height

from 5 - 19 mm including tile glue

Load classification K3 (300 kg)





HL-No.	Material	length LX -100	Weight	EAN	Piece/package	HL-No.	Material	length LX -100	Weight	EAN	Piece/package
050D/60	Stainless steel	500 mm	872 g	+025077	1	050D/140	Stainless steel	1300 mm	2322 g	+603007	1
050D/70	Stainless steel	600 mm	1041 g	+025091	1	050D/150	Stainless steel	1400 mm	2528 g	+603009	1
050D/80	Stainless steel	700 mm	1260 g	+025114	1	050D/160	Stainless steel	1500 mm	2734 g	+603011	1
050D/90	Stainless steel	800 mm	1395 g	+025138	1	050D/170	Stainless steel	1600 mm	2940 g	+603013	1
050D/100	Stainless steel	900 mm	1550 g	+025152	1	050D/180	Stainless steel	1700 mm	3146 g	+603015	1
050D/110	Stainless steel	1000 mm	1757 g	+025176	1	050D/190	Stainless steel	1800 mm	3352 g	+603017	1
050D/120	Stainless steel	1100 mm	1954 g	+025190	1	050D/200	Stainless steel	1900 mm	3558 g	+603019	1
050D/130	Stainless steel	1200 mm	2116 g	+025213	1	050D/210	Stainless steel	2000 mm	3764 g	+603021	1

HL050I Cover plate "Individuell", made of stainless steel - for shower channels

Data

Material Stainless steel 1.4301 brushed

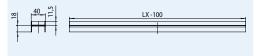
finish

Height

Usage for floorings from 16 – 30 mm including tile glue

Load classification K3 (300 kg)

with recess for customers individual floor finish Additional information





HL-No.	Material	length LX -100	Weight	EAN	Piece/package	HL-No.	Material	length LX -100	Weight	EAN	Piece/package
0501/60	Stainless steel	500 mm	766 g	+025237	1	0501/140	Stainless steel	1300 mm	2003 g	+030224	1
0501/70	Stainless steel	600 mm	914 g	+025251	1	0501/150	Stainless steel	1400 mm	2151 g	+030248	1
0501/80	Stainless steel	700 mm	1060 g	+025275	1	0501/160	Stainless steel	1500 mm	2299 g	+030262	1
0501/90	Stainless steel	800 mm	1213 g	+025299	1	0501/170	Stainless steel	1600 mm	2447 g	+030286	1
0501/100	Stainless steel	900 mm	1412 g	+025312	1	0501/180	Stainless steel	1700 mm	2595 g	+030309	1
0501/110	Stainless steel	1000 mm	1488 g	+025336	1	0501/190	Stainless steel	1800 mm	2743 g	+030323	1
0501/120	Stainless steel	1100 mm	1723 g	+025350	1	0501/200	Stainless steel	1900 mm	2891 g	+030347	1
0501/130	Stainless steel	1200 mm	1855 g	+025374	1	0501/210	Stainless steel	2000 mm	3039 g	+030361	1

HL050.3EN Adjustment screws for the precise cover height

Data

Material

For the adapting of the cover plates Recommended for

stones

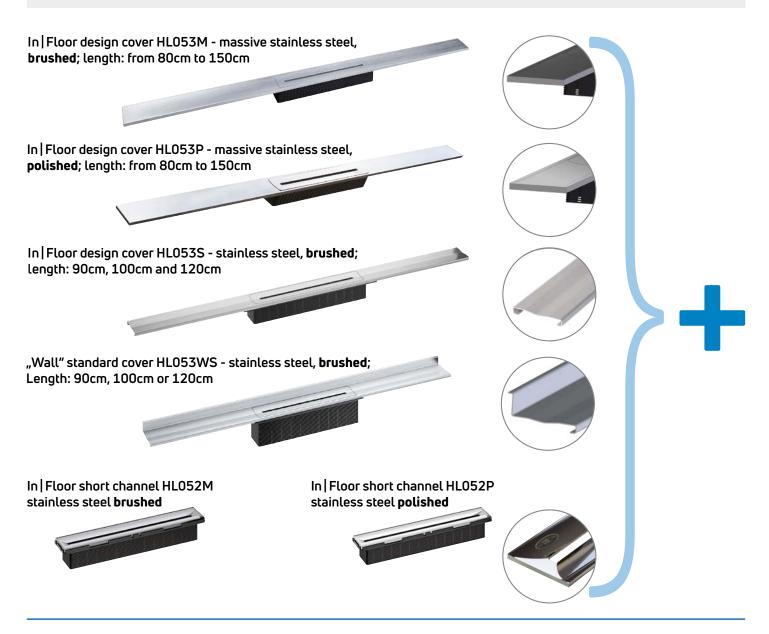
to higher floorings, like natural

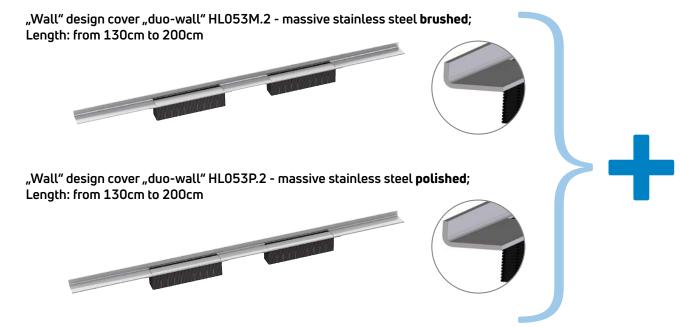
Shower channel	Requ. quant. of sets	Used cover plate	Adjustable in height
60 – 70 cm	2	Standard	15 – 29 mm
80 – 110 cm 120 – 130 cm	3 4	Design	18 – 32 mm
140 – 180 cm	5		
190 – 210 cm	0 – 210 cm 6		29 – 43 mm

HL-No.	Material	Weight	EAN	Piece/package
050 3FN	PP	296 a	+025862	1



HL53 - In|Floor system family







HL53 - In|Floor system family

Drain body HL53K Height: 90mm Flow rate: 0,8l/s



Drain body HL53KF Height: 65mm Flow rate: 0,5l/s



Drain body HL53KV Vertical outlet Flow rate: 1l/s



Drain body "Duo wall" HL53K.2

Height: 90mm Flow rate: 1,45l/s



Drain body "Duo wall" HL53KF.2

Height: 65mm Flow rate: 0,86l/s





HL53K "In Floor" drain body for shower channel or short shannel, MIN. HEIGHT 90 MM!

Data

Capacity 20 mm above drain level: 0,8l/s

10 mm above drain level: 0,6l/s

Material PP
Outlet DN50

Height 90 - 250 mm adjustable

Standard EN 1253
Trap (water height) 50 mm

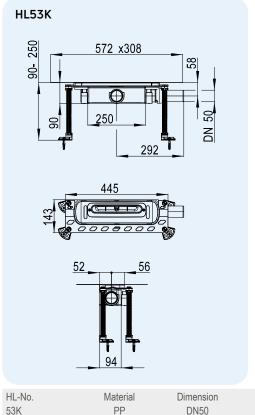
Fits to HL053S, HL053WS, HL053M(P),

HL052M(P)

Additional Incl. removable trap and flexible information waterproofing membrane.

Installation wallside or in the surface.

Please see movie www.hl.at





No. Material Dimension Weight EAN Piece/package
PP DN50 1336 g +041244 1

HL53KF "In | Floor" flat drain body for shower channel or short shannel, MIN. HEIGHT 65 MM!

Data

Capacity 20 mm above drain level: 0,45l/s

10 mm above drain level: 0,5l/s

Material PP
Outlet DN40

Height 65 - 250 mm adjustable

Standard EN 1253
Trap (water height) 30 mm

Fits to HL053S, HL053WS, HL053M(P),

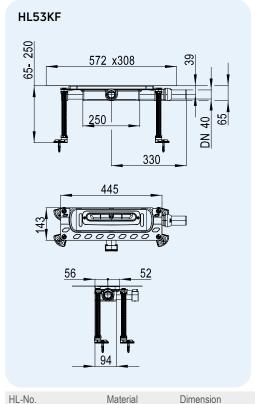
HL052M(P)

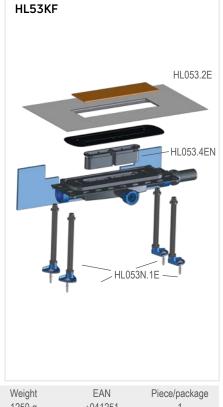
Additional Incl. removable trap and flexible information waterproofing membrane.

Installation wallside or in the

surface.

Please see movie www.hl.at





HL-No. Material Dimension Weight EAN Piece/package 53KF PP DN40 1250 g +041251 1



HL53K.2 "Wall" DUO drain body for shower channel HL053M(P).2, HEIGHT 90MM! HL53KF.2 "Wall" DUO flat drain body for shower channel HL053M(P).2, HEIGHT 65MM!

Data

Capacity 20 mm above drain

level: HL53K.2=1,45l/s; HL53KF.2=0,86I/s 10 mm above drain level:

HL53K.2=0,9l/s; HL53KF.2=0,8l/s

PP Material

Outlet HL53K.2: 2 x DN50

HL53KF.2: 2 x DN40

HL53K.2: 90 - 250 mm Installation height

adjustable

HL53KF.2: 65 - 250 mm

adjustable

EN 1253 Standard

Siphon HL53K.2: 50mm water trap

HL53KF.2: 30mm water trap

Fits to HL053M.2, HL053P.2

Additional incl. removable water traps, information

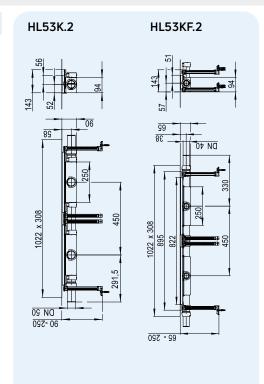
2 flexible waterproof membranes

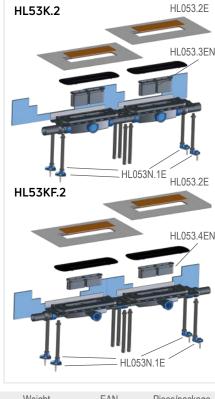
and fixing legs;

installation only close to the

wall:

Installation Only close to the wall





HL-No.	Material	Dimension	Weight	EAN	Piece/package
HL53K.2	PP	2 x DN50	2950 g	+047802	1
HL53KF.2	PP	2 x DN40	2500 g	+047819	1

HL53KV "In Floor" vertical drain body for shower channel or short channel

Data

20 mm above drain level: 0,9l/s Capacity

10 mm above drain level: 1,0l/s

PP Material Outlet

DN50

Installation 30 - 131 mm adjustable

height Standard

EN 1253

Siphon 50mm water trap

Fits to HL053S, HL053WS, HL053M(P),

HL052M(P)

incl. removable water trap, polimer Additional information

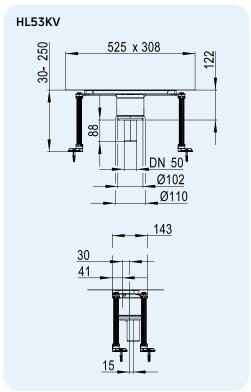
concrete collar with steel grid (only HL53KVC) and flexible waterproof membrane; installation in the

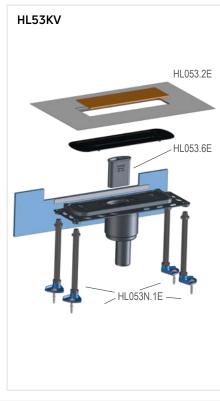
shower surface or close to the wall.

Incl. 4 adjustable fixing legs

Installation In the surface of the shower or

close to the wall





HL-No.	Material	Dimension	Weight	EAN	Piece/package
HL53KV	PP	DN50	1500 g	+047154	1



HL053M/.... "In | Floor" design shower channel made of matt stainless steel with integrated cross slope HL053P/... "In | Floor" design shower channel made of polished stainless steel with integrated cross slope

Data

Material Stainless steel V2A (1.4301)

massive 6mm

Please see chart Please see chart Load classification K3 - max. 300 kg

HL53K(F), HL53KV(C), HL53K(F)C Fits to

Additional information

HL53K(F), drainage strip with multiple precision slope usage for: floor tiles 10 - 32 mm and wall tiles 12 - 24 mm

In combination with drain body

(incl. tile glue)

Included

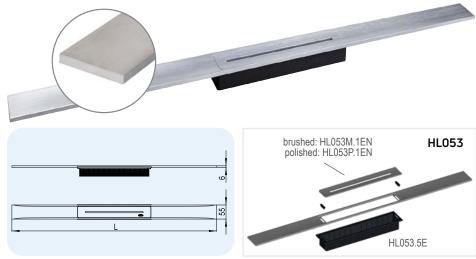
Installation accessories and lot

cover

Installation

Installation wallside or in the

surface.





HL-No.	Material	Dimension	Surface	Weight	EAN	Piece/package
053M/80	Stainless steel V2A	800 x 55 x 6 mm	matt	3650 g	+041428	1
053M/85	Stainless steel V2A	850 x 55 x 6 mm	matt	3800 g	+041275	1
053M/90	Stainless steel V2A	900 x 55 x 6 mm	matt	3950 g	+041282	1
053M/95	Stainless steel V2A	950 x 55 x 6 mm	matt	4100 g	+041299	1
053M/100	Stainless steel V2A	1000 x 55 x 6 mm	matt	4300 g	+041305	1
053M/110	Stainless steel V2A	1100 x 55 x 6 mm	matt	4550 g	+041312	1
053M/120	Stainless steel V2A	1200 x 55 x 6 mm	matt	4700 g	+041329	1
053M/130	Stainless steel V2A	1300 x 55 x 6 mm	matt	4850 g	+041336	1
053M/140	Stainless steel V2A	1400 x 55 x 6 mm	matt	5150 g	+041343	1
053M/150	Stainless steel V2A	1500 x 55 x 6 mm	matt	5450 g	+041350	1
053P/80	Stainless steel V2A	800 x 55 x 6 mm	polished	3650 g	+041428	1
053P/85	Stainless steel V2A	850 x 55 x 6 mm	polished	3800 g	+041435	1
053P/90	Stainless steel V2A	900 x 55 x 6 mm	polished	3950 g	+041466	1
053P/95	Stainless steel V2A	950 x 55 x 6 mm	polished	4100 g	+041473	1
053P/100	Stainless steel V2A	1000 x 55 x 6 mm	polished	4300 g	+041367	1
053P/110	Stainless steel V2A	1100 x 55 x 6 mm	polished	4550 g	+041374	1
053P/120	Stainless steel V2A	1200 x 55 x 6 mm	polished	4700 g	+041381	1
053P/130	Stainless steel V2A	1300 x 55 x 6 mm	polished	4850 g	+041398	1
053P/140	Stainless steel V2A	1400 x 55 x 6 mm	polished	5150 g	+041404	1
053P/150	Stainless steel V2A	1500 x 55 x 6 mm	polished	5450 g	+041411	1

HL053S/.... "In Floor" shower channel "Standard" made of stainless steel with integrated cross slope

Data

Stainless steel V2A (1.4301) Material

Dimensions please see chart K3 - max. 300 kg Load classification

Fits to HL53K(F), HL53KV(C), HL53K(F)C Additional in combination with drain body information HL53K(F), drainage strip with

integrated cross slope; usage for floor tiles 12 - 32 mm and wall tiles 12 - 24 mm (incl. tile glue). may be cut to minimum length of 450mm

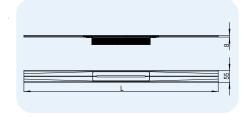
Installation accessories and lot

Including

Installation wallside or in the Installation

surface.







HL-No.	Material	Dimension	Surface	Weight	EAN	Piece/package
053S/90	Stainless steel V2A	900 x 55 x 1,5 mm	matt	1350 g	+045211	1
053S/100	Stainless steel V2A	1000 x 55 x 1,5 mm	matt	1350 g	+045198	1
053S/120	Stainless steel V2A	1200 x 55 x 1,5 mm	matt	1360 g	+045204	1



HL053M.2/... "Wall" DUO design shower channel, brushed stainless steel HL053P.2/... "Wall" DUO design shower channel, polished stainless steel

Data

Material Massive stainless steel V2A

(1.4301) - 6mm

Size See sheet below
Load classification K3 - max. 300 kg
Fits to HL53K(F).2

Additional Installation in combination with information double drain body "Wall" DUO.

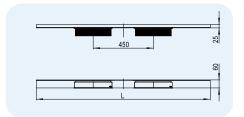
Channel with 2 inlets and wall angle, position only close to the wall; Channel with lateral shaped slope. Usable for floor tiles from 10 to 24 mm and wall tiles from 12 -

24 mm (incl. tile glue)

Including Installation accessories and lot

cover

Installation Only close to the wall





HL-No.	Material	Dimension	Surface	Weight	EAN	Piece/package
HL053M.2/130	Stainless steel V2A	1300 x 60 x 25 mm	matt	4700 g	+047642	1
HL053M.2/140	Stainless steel V2A	1400 x 60 x 25 mm	matt	5050 g	+047659	1
HL053M.2/150	Stainless steel V2A	1500 x 60 x 25 mm	matt	5330 g	+047666	1
HL053M.2/160	Stainless steel V2A	1600 x 60 x 25 mm	matt	5490 g	+047673	1
HL053M.2/170	Stainless steel V2A	1700 x 60 x 25 mm	matt	5560 g	+047680	1
HL053M.2/180	Stainless steel V2A	1800 x 60 x 25 mm	matt	6000 g	+047697	1
HL053M.2/190	Stainless steel V2A	1900 x 60 x 25 mm	matt	6100 g	+047703	1
HL053M.2/200	Stainless steel V2A	2000 x 60 x 25 mm	matt	6400 g	+047710	1
HL053P.2/130	Stainless steel V2A	1300 x 60 x 25 mm	polished	4670 g	+047727	1
HL053P.2/140	Stainless steel V2A	1400 x 60 x 25 mm	polished	4920 g	+047734	1
HL053P.2/150	Stainless steel V2A	1500 x 60 x 25 mm	polished	5200 g	+047741	1
HL053P.2/160	Stainless steel V2A	1600 x 60 x 25 mm	polished	5470 g	+047758	1
HL053P.2/170	Stainless steel V2A	1700 x 60 x 25 mm	polished	5750 g	+047765	1
HL053P.2/180	Stainless steel V2A	1800 x 60 x 25 mm	polished	6120 g	+047772	1
HL053P.2/190	Stainless steel V2A	1900 x 60 x 25 mm	polished	6280 g	+047789	1
HL053P.2/200	Stainless steel V2A	2000 x 60 x 25 mm	polished	6550 g	+047796	1

HL053WS "Wall" shower channel "standard", stainless steel with wallside angle and integrated cross slope

Data

Material Stainless steel V2A (1.4301)

Dimensions please see chart Load classification K3 - max. 300 kg

Fits to HL53K(F), HL53KV(C), HL53K(F)C

Additional Additional Installation in combination with drain body

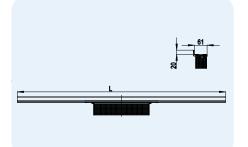
HL53-series, shower information channel with integrated cross slope and 2cm wallside angle. For floor tiles 12 - 32 mm and wall tiles 12 - 24 mm (incl. tile glue). Minimum

cuttable size: 450mm

Including Installation accessories and lot

cover

Installation Only close to the wall





HL-No.	Material	Dimension	Surface	Weight	EAN	Piece/package
053WS/90	Stainless steel V2A	900 x 55 x 1,5 mm	matt	1350 g	+048991	1
053WS/100	Stainless steel V2A	1000 x 55 x 1,5 mm	matt	1360 g	+048977	1
053WS/120	Stainless steel V2A	1200 x 55 x 1,5 mm	matt	1380 g	+048984	1

HL053WS

HL052M "In Floor" short channel, brushed HL052P "In Floor" short channel, polished

Data

Material Stainless steel V2A (1.4301)

Size $52 \times 302 \text{ mm}$ Load classification K3 - max. 300 kg

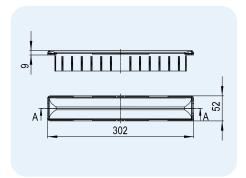
Fits to HL53K(F), HL53KV(C), HL53K(F)C

Additional Usage for all "In | Floor" drain information bodies. Height from 11 to 38 mm

Including Installation accessories and lot

cover

Installation Only close to the wall





IL-No.	Material	Dimension	Surface	Weight	EAN	Piece/package
1L052M	Edelstahl V2A	302 x 52 mm	matt	4700 g	+047642	1
11 052P	Edelstahl V2A	302 x 52 mm	nolished	5050 a	+047659	1



HL531Prblue Shower channel Primus blue with stainless steel frame and cover, HEIGHT 75 MM! HL531Prblue.1(.2)(.3) Shower channel Primus blue with stainless steel frame in color, HEIGHT 75 MM!

Data

Description Shower channel, integrated in an EPS element with stainless steel

frame and cover. Surface is waterproof fleece-laminated. For installation on the wall.

Drainage capacity accumulation height

10 mm 20 mm 0.5 l/s 0.6 l/s

Material PP/ABS/EPS-40/

stainless steel V2A

Inlet Stainless steel frame 500 x 86 x 13 mm, cover 486 x 56 mm

Outlet DN50 horizontal

Standard EN 1253

Odor trap

New Primus blue, combined trap
with sealing water and mechanical
odor barrier (absolutely odor-tight

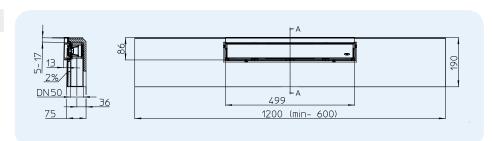
even without water). Backflow-proof up to 30 cm accumulation

height.

Installation The exact adjustment of the

shower channel is made by simply cutting the EPS element to length on site. Length from 600mm to 1200mm, width 190 mm, height 75mm incl. 2% slope to the wall. For Wall tiles from 5 mm to 17mm and floor tiles 13mm (incl. adhesive). Can be extended with

HL531V. See also installation movie at www.hl.at







HL-No.	Visible part	Dimension	Frame height	Material	Weight	EAN	Piece/Package
531Prblue	Cover Standard Stainless steel mat	1200 x 190 x 75 mm	13	PP/EPS-40/stainless steel V2A		+051571	1
531Prblue-l	Cover Individual Stainless steel mat	1200 x 190 x 75 mm	13	PP/EPS-40/stainless steel V2A		+051670	1
531Prblue.0	Stainless steel mat, without cover	1200 x 190 x 75 mm	13	PP/EPS-40/stainless steel V2A		+051595	1
531Prblue.1	PVD-coated black matt, without cover	1200 x 190 x 75 mm	13	PP/EPS-40/stainless steel V2A		+051601	1
531Prblue.2	PVD-coated rose gold matt, without cover	1200 x 190 x 75 mm	13	PP/EPS-40/stainless steel V2A		+051618	1
531Prblue.3	PVD-coated brass matt, without cover	1200 x 190 x 75 mm	13	PP/EPS-40/stainless steel V2A		+051625	1

HL531V Elongation element for HL531Prblue

Data

Material EPS-40

Additional To elongate shower channel information HL531Prblue, e.g. for multiple

shower facilities. May be cut to any length, with fleece-laminated

surface.



HL-No.	Material	Dimension	Weight	EAN	Piece/package
531V	FPS-40	300 x 190 x 75 mm			1



HL0531Prblue-S Cover Standard for shower channel HL531Prblue, available in 4 different colors HL0531Prblue-D Cover Design for shower channel HL531Prblue, available in 4 different colors HL0531Prblue-I Cover Individual for shower channel HL531Prblue, available in 4 different colors

Data

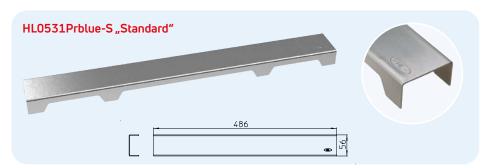
Material Stainless steel V2A,

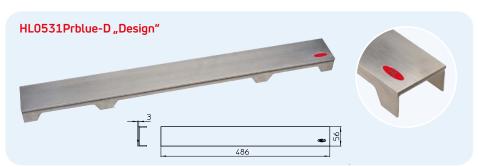
Colors: PVD-coated

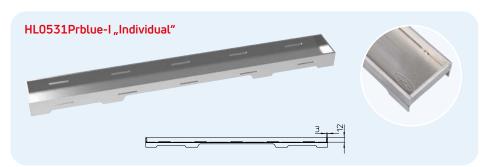
Dimensions **HL0531Prblue-S**: 486 x 56 mm

HL0531Prblue-D: 486 x 56 mm **HL0531Prblue-I:** Gap for tile: 480 x 50 mm, depth 12 mm

Load classification K3 - max. 300 kg







HL-No.	Visible part / Color	Dimension	Material	Weight	EAN	Piece/Package
HL0531Prblue-S	Stainless steel mat Standard	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051717	1
HL0531Prblue-S.1	PVD-coated black mat Standard	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051724	1
HL0531Prblue-S.2	PVD-coated rose gold mat Standard	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051731	1
HL0531Prblue-S.3	PVD-coated brass mat Standard	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051748	1
HL0531Prblue-D	Stainless steel mat Design	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051632	1
HL0531Prblue-D.1	PVD-coated black mat Design	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051649	1
HL0531Prblue-D.2	PVD-coated rose gold mat Design	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051656	1
HL0531Prblue-D.3	PVD-coated brass mat Design	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051663	1
HL0531Prblue-I	Stainless steel mat Individual	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051670	1
HL0531Prblue-I.1	PVD-coated black mat Individual	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051687	1
HL0531Prblue-I.2	PVD-coated rose gold mat Individual	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051694	1
HL0531Prblue-I.3	PVD-coated brass mat Individual	486 x 56 mm	PP/EPS-40/stainless steel V2A		+051700	1





HL540 "Primus Drain" Shower drain, MIN. HEIGHT 80 MM! HL540I "Primus Drain" Shower drain with individual tile hollow, MIN. HEIGHT 80 MM!

Data

Capacity

20 mm above drain level: HL540=0,8l/s; HL540i=0,6/s 10 mm above drain level: HL540=0,55l/s; HL540i=0,45l/s

Material

PP/stainless steel, Frame: V4A Grate HL540=V2A

Grate HL540i=V4A

Outlet

DN50 horizontal

Height from 8 - 20 cm adjustable

Standard EN 1253

Stench trap 5cm seal water, incl. Primus-trap,

no stench without seal water

Additional information

incl. removable trap inlet, sealing kit with textile coated membrane, sound disconnected adjusting angles, protection cover and lot

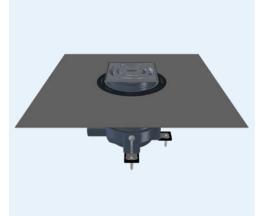
cover

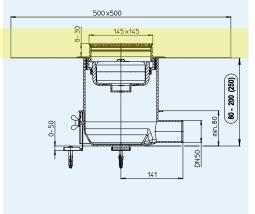
Soundproofing tested Test certificate: www.hl.at

Installation

The drain body might be fixed on the floor with 3 metal angles and can be adjusted in height afterwards. Advantage: maximum sceed covering of the outlet pipe. New: It is no longer necessary to set the drain exactly on the right height of the screed. After filling in the screed, the salient nozzle is cut by a saw. The sealing kit may be inserted without any tools and takes care of a safe connection to the waterproofing. At the end the extension is adjusted and set into the drain. Please take care, that the edges of the frame are underlaid with tile glue to take maximum load.

Please also see installation movie at www.hl at







HL0540.3E

HL-No.	Material	Dimension	Weight	EAN	Piece/package
540	PP/Stainless steel	DN50	1533 g	+039029	1
5401	PP/Stainless steel	DN50	1898 g	+039098	1
540-Quadra	PP/Stainless steel	DN50	1898 g	+041817	1
540-Cut	PP/Stainless steel	DN50	1898 g	+041800	1
540-Hamam	PP/Stainless steel/ PVD-coated	DN50	1898 g	+041824	1

HL066Q.1E, HL066C.1E, HL0540I, HL3928, HL3128E Design grates

Data

Material Stainless steel

Grate HL540I: 138x138mm massive,

Tile hollow: 74x74 mm,

depth 13mm

Load classification HL540: L - max. 1,5t,

HL540i: K3 - max. 300kg

Recommended for Shower drain HL540 or floor drain

series HL5100, HL3100, HL72.1

and HL317



HL-No.	Material	Dimension	Weight	EAN	Piece/package
066Q.1E	Stainless steel V4A	138 x 138 x 5 mm	607 g	+013623	1
066C.1E	Stainless steel V4A	138 x 138 x 5 mm	608 g	+031283	1
05401	Stainless steel V4A	138 x 138 x 5 mm	638 g	+039104	1
3928	Stainless steel/PVD coated V4A	138 x 138 x 5 mm	608 g	+031283	1
3128E	Stainless steel V4A	138 x 138 x 5 mm	595 g	+037094	1



HL541 Primus blue Flat shower drain, MIN. HEIGHT 62MM! HL541 Primus blue Flat shower drain with individual tile hollow, MIN. HEIGHT 62MM!

Data

Capacity 20 m

20 mm above drain level: HL541=0,5l/s; HL541i=0,45/s 10 mm above drain level: HL541=0,4l/s; HL541i=0,4l/s

Material PP/stainless steel, Frame: V4A

Grate HL541=V2A Grate HL541i=V4A

Outlet DN40/DN50 horizontal Height from 62 - 200 (230) mm

Standard EN 1253 Load classification K3 - max. 300 kg

Odor trap New Primus blue, combined

odor trap with sealing water and mechanical odor barrier (absolutely odor-tight even without water). Backflow-proof up to 50 cm accumulation height.

Additional information

Incl. removable trap inlet, sealing kit with fleece laminated membrane, adjustable fixing angles, hair catcher, lot cover and protection

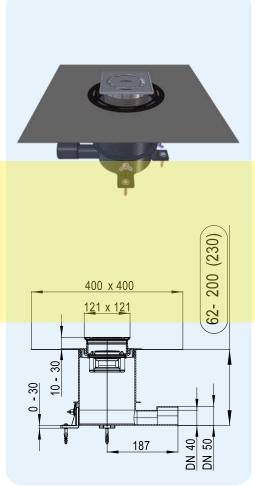
cover.

Soundproofing tested Test certificate: www.hl.at

Installation

The drain body might be fixed on the floor with 3 metal angles and can be adjusted in height afterwards. Advantage: maximum sceed covering of the outlet pipe. New: It is no longer necessary to set the drain exactly on the right height of the screed. After filling in the screed, the salient nozzle is cut by a saw. The sealing kit may be inserted without any tools and takes care of a safe connection to the waterproofing. At the end the extension is adjusted and set into the drain. Please take care, that the edges of the frame are underlaid with tile glue to take maximum load.

Please also see installation movie and movie "function of Primus **blue**" at www.hl.at



Material

PP/Stainless steel

PP/Stainless steel

PP/Stainless steel

Dimension

DN40/50

DN40/50

DN40/50

		HL0541.3E	
Weight	EAN	Piece/package	
1121 g	+047642	1	
1388 g	+047659	1	
1819 g	+048236	1	

HL541

HL037N.0E

HL0541.2E

HL2020

HL541K

HL0541.5E

HL037Pr.1E

HL5411

HL0541.4E

HL0541.0E

HL0541I, HL3120, HL3121, HL3122, HL3123, HL3124, HL3125, HL3127 Design grates

HL-No.

HL541

HL541I

HL541-Quadra

Daten

Material Stainless steel V2A

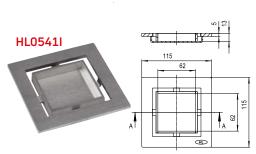
Grate Stainless steel grate 115 x 115 mm

Load classification L - max. 1,5 t

Recommended for Floor drain series HL70, HL80,

HL300, HL304, HL310N, HL510N, HL90 combined with extensions

HL3200 or HL3210 HL0541I: HL541





HL-No.	Dimension	Weight	EAN	Piece/package
3120	115 x 115 mm	425 g	+015412	1
3121	115 x 115 mm	425 g	+015429	1
3122	115 x 115 mm	425 g	+015443	1
3123	115 x 115 mm	425 g	+015443	1
3124	115 x 115 mm	425 g	+015450	1
3125	115 x 115 mm	425 g	+015467	1
3127	115 x 115 mm	430 g	+029037	1
05411	115 x 115 mm	800 g	+048304	1
3127	115 x 115 mm	430 g		1



HL510NC Floor drain with polymer concrete collar

Data

Capacity 20 mm above drain level: 0,55l/s

10 mm above drain level: 0,4l/s

Material Polymer concrete/steel mesh/PP

Outlet dimension DN40/50 horizontal

Height 95 mm Standard EN 1253 Height of seal water 50 mm

Additional removable trap, polymer concrete information collar with steel mesh reinforce-

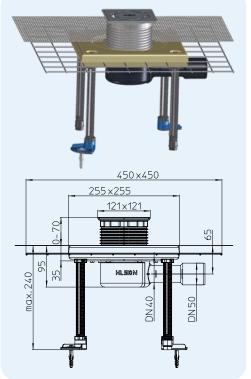
ment for a save connection to the under-tile waterproofing and

glassfiber pad.

Including Sound-absorbing levelling legs for

adjustment in height, lot cover and

supporting frame





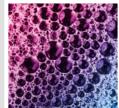
HL-No. Material Dimension Weight EAN Piece/package
510NC Polymer concrete/ DN40/50 4350 g +021338 1
steel mesh/PP













HL Siphons

6. Washing devices













HL Traps for washing devices - Products - Overview



Product	HL400	HL404.1	HL4000.0/.1/.2	HL405	HL405E	HL405ECO
Description	Standard concealed washing device trap	Concealed washing device trap with ventpipe	Washing device siphon corpus with single or double cartridge	Concealed washing device trap with water supply set	Concealed washing device trap with water supply set and power socket	Concealed washing device trap with water supply set
Function	For siphoning of washing machines, dishwashers a.s.o. with integrated backwater valve	For siphoning of washing machines, dishwashers a.s.o. with integrated backwater valve and ventpipe; for connections, which are more away than 4m from the downpipe	Washing device siphon with removable siphon cartridge, either for single or double connection (e.g. washing machine + clothes dryer)	For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply	For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply and power socket	For siphoning of washing machines, dishwashers a.s.o. with prepared cold water supply for a tap of your choice

Basic information about design and installation

In principle all washing devices should be connected by it's on trap to the sewage pipe. HL supplies a wide range of different traps and combination possibilities.

▲ Siphoning

Different to the normal siphoning of washbasins or sinks, one uses for washing devices concealed traps. This has a lot of advantages: saves space, nice design and minimizes the sound of flowing water.

▲ Maintenance and cleaning

All HL concealed washing device traps have a cleaning eye. HL4000-series: The siphon cartridge may be removed for cleaning or maintenance reasons. Easy function control with a transparent backside. Easy access to the downpipe for cleaning reasons.

▲ Waterproofness

By using O-rings between trap and hose connector, the highest watertightness is guaranteed, even when the nut is not yet fixed. Very important, as the outflowing water causes vibrations, which could release the connection.

▲ Installation

Please take care of installing the trap vertically. The red lot cover avoids the cleaning eye of getting dirty during construction. Should the trap be installed too much inside the wall, it is possible, to elongate the thread by a fitting spare-part. HL4000-series: By installing only the corpus HL4000.0 during the construction phase, the enduser can complete the siphon either with a single or a double cartridge (HL4000.1 or HL4000.2)

▲ With long access pipes it could be, that the water in the trap is sucked out, caused by too little air ventilation. This could be avoided from the beginning by using traps with integrated ventpipes. Beside of that HL supplies a lot of different combinations with additional power supply or cold water feed, for convenience and design reasons.

▲ Double connections

With HL4000-series it is possible for the house owner, to choose between a single or a double connection or to upgrade from single to double (e.g. washing machine + clothes dryer), when the corpus HL4000.0 is installed at first. The

double siphon cartridge has two hydraulically independent siphon chambers, which cares for highest safety. Backflow balls prevent the overflow from one device to the other.

Relevant standards/directives
EN 12056 Gravity drainage systems

for buildings and estates

DIN 19541 Siphons for special purposes

DIN 1988 Technical rules for cold water installation



HL Traps for washing devices - Products - Overview

Siphons











HL406	
Concealed washing device trap with water supply set	

For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply, hose connector with backwater valve and ventpipe

HL406.2

Concealed washing device trap with water supply set

For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply, 2 hose connectors with backwater valve and ventpipe

HL406E

Concealed washing device trap with power socket

For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply, hose connector with backwater valve, ventpipe and power socket

HL410

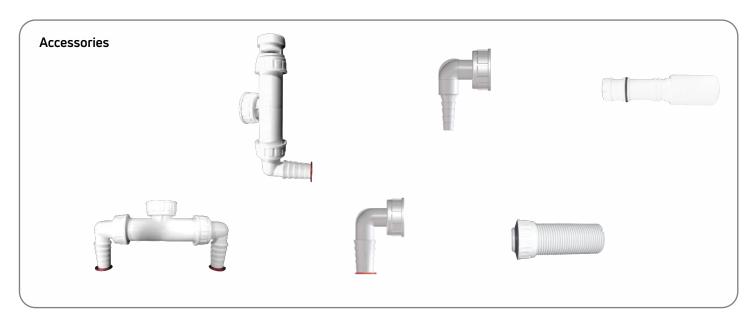
Washing device trap

For siphoning of washing machines, dishwashers a.s.o., installation on the wall

HL440

Concealed washing device trap with mechanical valve

For siphoning of washing machines, dishwashers a.s.o., little depth



Product	HL2	HL2.1	HL19	HL19.2	HL420	HL421
Description	Washing device double hose connector with backwater valve	Washing device hose connector with backwater valve and ventpipe	Angled hose connector	Angled hose connector	Elongation for the thread	Elongation for the thread
Function	For connecting of two washing devices, only as problem-solver!	Avoids, that the tube of the washing machine is sucked out	Connection between trap and the tube of the washing device	Connection between trap and the thin tube 8 - 13 mm	Elongation of the thread	Elongation of the thread, only usable, if the original thread was not yet cut!



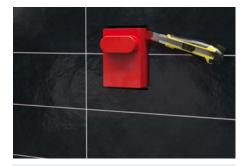
HL Traps for washing devices – Installation instruction HL4000



1. Define position and fix the corpus



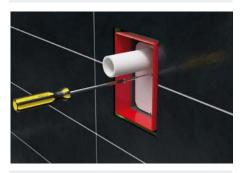
2. Connect to the pipe



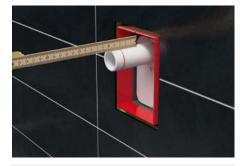
3. Cut the protection cover alongside the wall



4. Choose between single (HL4000.1) or double (HL4000.2) siphon cartridge



5. Insert cartridge and fix by screwing



6. Mark 3cm, measured from the wall (tile)



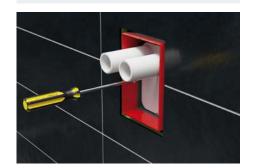
7. Cut at the mark



8. Set the cover and fix by thread ring, screw the hose



9. Connect to the washing device



10. When installing a second washing device (or dryer), replace the single cartridge to a double.



11. Install cover, thread ring and hose nozzle.



12. Connect clothes dryer.



HL Traps for washing devices - Products - Data

HL400 Concealed washing device trap

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection 1

dimension

Outlet dimension DN40/50 Standard DIN 19541 Height of seal 50 mm

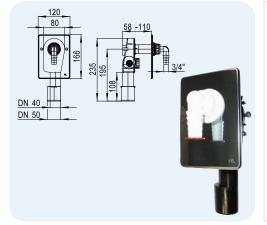
water

Recommended for Concealed siphoning of washing

devices

Additional with stainless steel cover, cuttable information red spacer, cleaning eye and back-

water valve





HL-No.	Dimension	Weight	EAN	Piece/package
400	DN40/50	280 g	+504008	10

HL404 Concealed washing device trap with option for connecting a ventpipe

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection dimension

Outlet dimension DN40/50
Standard DIN 19541
Height of seal 50 mm

water

Siphoning of washing devices, with

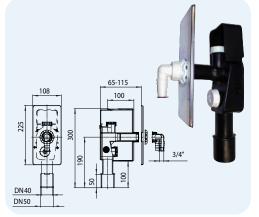
option of ventpipe

Additional with information red

Recommended for

with chrome-plated cover, cuttable red spacer, cleaning eye and back-

water valve





HL-No.	Dimension	Weight	EAN	Piece/package
404	DN40/50	484 g	+504046	5

HL404.1 Concealed washing device trap with integrated ventpipe

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection

dimension

Outlet dimension DN40/50 Standard DIN 19541 Height of seal 50 mm

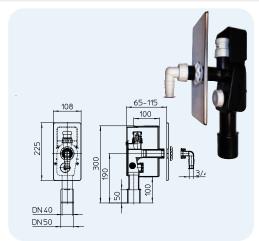
water

Recommended for Siphoning of washing devices, with

integrated ventpipe

Additional with chrome-plated cover, cuttable information red spacer, cleaning eye and back-

water valve







HL4000.0 Washing device siphon - corpus

Data

Capacity see HL4000.1 or HL4000.2

PP Material Outlet DN40/50 Standard DIN 19541

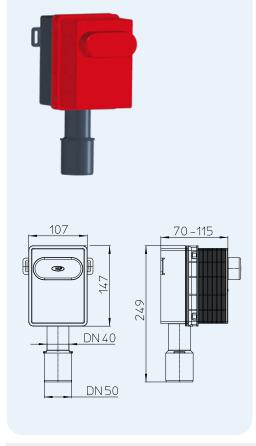
Recommended for HL4000.1 for 1 washing device

HL4000.2 for 2 washing devices

Additional After removing the cartridge there is information a free access to the waste pipe

Also see installation movie

(www.hl.at)





HL-No.	Dimension	Weight	EAN	Piece/package
4000.0	DN40/50	244 g	+041619	10

HL4000.1 "Single-Upgrade-kit" for washing device siphon HL4000.0 corpus HL4000.2 "Double-Upgrade-kit" for HL4000.0 corpus (e.g. washing machine and clothes dryer)

Data

Capacity HL4000.0 + HL4000.1: 0,51/s

HL4000.0 + HL4000.2: each 0,5l/s

Material

HL4000.1: HL19 Connection

HL4000.2:

2x HL19 + 1x HL19.2

Standard DIN 19541 Water trap 50 mm

Recommended for Single cartridge for 1 washing

machine

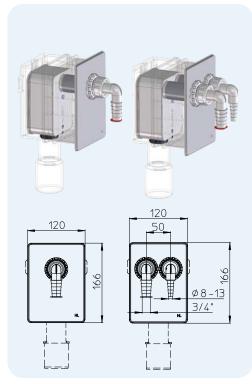
Double cartridge for 1 washing machine + 1 clothed dryer

Additional with transparent backside for quick information function control

with integrated backflow balls

Please also see installation movie

(www.hl.at)





HL-No.	Dimension	Weight	EAN	Piece/package
4000.1	-	265 g	+041633	1
4000.2	-	350 g	+041640	1



HL405 Concealed washing device trap with integrated cold water supply

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection dimension

1" / 1/2"

Outlet dimension DN40/50

Standard DIN 19541, DIN 1988

Height of seal

50 mm

water

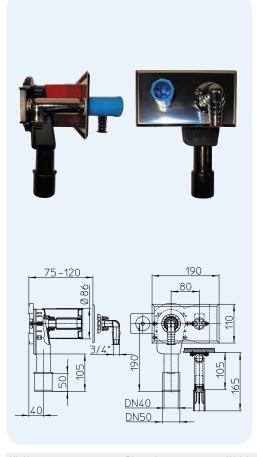
Recommended for Siphoning of washing devices, con-

nection of cold water line

Additional information

with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve and

backing plate





HL-No.	Dimension	Weight	EAN	Piece/package
405	DN40/50	973 a	+504053	1

HL405E Concealed washing device trap with integrated cold water supply and power socket

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection dimension

1" / 1/2"

Outlet dimension

DN40/50

Standard DIN 19541, DIN 1988

Height of seal water

50 mm

Recommended for

Siphoning of washing devices,

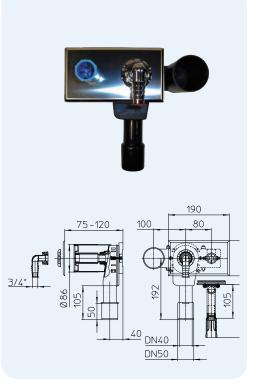
connection of cold water line and

power supply

Additional information

with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve and

backing plate





HL-No.	Dimension	Weight	EAN	Piece/package
405E	DN40/50	1000 a	+504091	1



HL405ECO Concealed washing device trap, prepared for idividual cold water supply

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection

dimension

DN40/50 Outlet dimension

Standard DIN 19541, DIN 1988

Height of seal

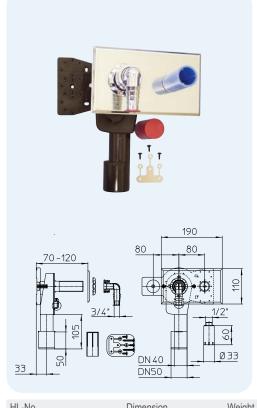
50 mm

water

Recommended for Siphoning of washing devices,

prepared for cold water supply

Additional with chrome-plated cover, cuttable information red spacer and backing plate





HL-No. Dimension Weight EAN Piece/package 405ECO DN40/50 443 g +015672

HL406 Concealed washing device trap with integrated cold water supply and on/off valve

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection

1" / 3/4"

dimension Outlet dimension

DN40/50

50 mm

Standard DIN 19541, DIN 1988

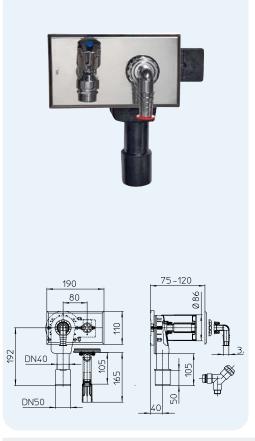
Height of seal water

Recommended for

Siphoning of washing devices,

connection of cold water line

Additional information with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve, backing plate and hose connector





HL-No. EAN Dimension Weight Piece/package 406 DN40/50 1075 g +504060



HL406.2 Concealed washing device trap with double water supply and double on/off valve

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection dimension

1" / 2 x 3/4"

DN40/50 Outlet dimension

Standard DIN 19541, DIN 1988

Height of seal

50 mm

water

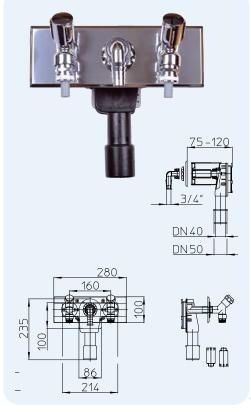
Recommended for Siphoning of washing devices, con-

nection of cold and warm water, e.g. at energy saving washing machines

Additional information

with chrome-plated cover, cuttable red spacer, 2 x 1/2" MS valve, back-

ing plate and hose connector





HL-No. EAN Dimension Weight Piece/package DN40/50 1931 g +008247

HL406E Concealed washing device trap with water supply, on/off valve and power supply

406.2

Data

0,38 l/s Capacity

Material PE/Stainless steel/MS

Connection 1" / 3/4"

dimension

Outlet dimension DN40/50

Standard DIN 19541, DIN 1988

Height of seal

water

Recommended for

Siphoning of washing devices, con-

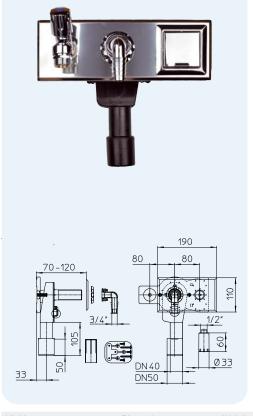
nection of cold water line and power

supply

50 mm

Additional information with chrome-plated cover, cuttable red spacer, 2 x 1/2" MS valve, backing

plate and hose connector







HL410 Washing device trap

Data

Capacity 0,38 l/s Material PΕ Connection dim. Outlet dimension **DN40** Standard DIN 19541 Height of seal 50 mm

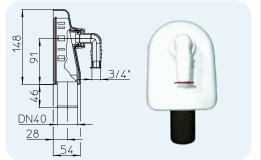
water

Recommended for Siphoning of washing devices,

installed on the wall

with white cover plate and fixing set Additional

information



HL-No. Weight EAN Dimension 410 **DN40** 440 g +504107



HL440 Concealed washing device trap with mechanical valve

Data

Capacity 0.33 l/s Material PΕ Connection dimension

Outlet dimension DN40/50 DIN 19541 Standard

Height of seal water

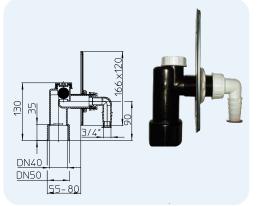
Recommended for

mechanical ball-trap

Siphoning of washing devices, little depth

Additional with chrome-plated cover

information



HL-No. Dimension DN40/50

HL0440.1E HL04000.5E HI 19 HL0400.6E HL0440.2E EAN Piece/package

Piece/package

Weight 200 g

HL Traps for washing devices - Products - Accessories

HL2 Double hose connector with backwater valve

Data

1 connector 0,28 l/s Capacity 2 connectors each 0,23 l/s

PP Material Connection 2 x 3/4"

dimension

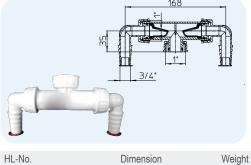
Outlet dimension

Recommended for Problem-solver

Additional

information

with integrated backwater valves



Dimension 1" x 3/4"

HL02.3E HL19 HL19

Piece/package

EAN

+520022

HL2.0 Double hose connector with backwater valve, with flat gasket

Data

Capacity 1 connector 0,28 l/s 2 connectors each 0,23 l/s

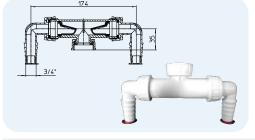
Material Connection 2 x 3/4"

dimension

Outlet dimension 1" with flat gasket Recommended for Problem-solver

Additional with integrated backwater valves

information





HL-No. Dimension EAN Piece/package Weight 2.0 1" x 3/4" 80 g +530021

85 g



HL2.1 Hose connector with backwater valve and ventpipe

Data

Capacity 0,28 l/s
Material PP
Connection 3/4"

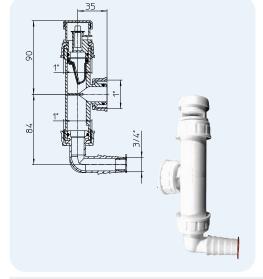
Outlet dimension 1"

Recommended for Prevents the trap from being sucked

out

Additional with integrated backwater valve and

information ventpipe





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 2.1
 1" x 3/4"
 65 g
 +5320213
 1

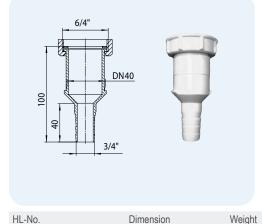
HL17 General connector

Data

Material PP Connection 3/4"

Outlet dimension 6/4"/DN40

connection



b. Dimension Weight 6/4" x DN40 x 3/4" 35 g

17

HL01002D

EAN Piece/package +500178 1

HL18 General hose connector

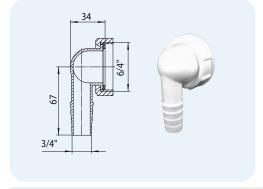
Data

Material PP Connection 3/4" dimension

Outlet dimension 6/4"

Recommended for Unnction from tube to screw

connection





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 18
 6/4" x 3/4"
 25 g
 +500185
 1



HL19... Hose connector

Data

Material PP

 $\begin{array}{ll} \text{Connection} & \text{HL19, HL19.0, HL19.C: } 3\text{/4"} \\ \text{dimension} & \text{HL19.2: } \varnothing \text{ 8-13 mm} \end{array}$

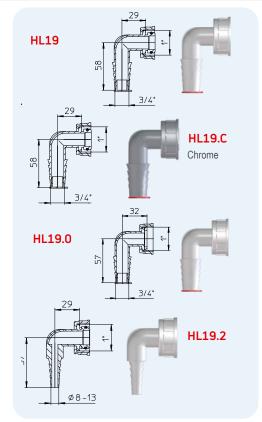
Outlet dimension 1

Recommended for Connection of tubes of washing

devices

Additional information

Gasket = O-ring, except HL19.0





HL-No.	Dimension	Weight	EAN	Piece/package
19	1" x 3/4"	18 g	+100194	10
19.C	1" x 3/4"	18 g	+190041	1
19.0	1" x 3/4"	18 g	+112197	1
19.2	1" x 8 – 13 mm	15 g	+001927	1

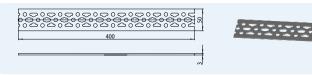
HL405B Backing plate

Data

Material Galvanized steel

Recommended for fits to HL44, HL405(E)(ECO) and

HL406(E)(.2)



HL-No.	Dimension	Weight	EAN	Piece/package
405B	50 x 400 mm	965 g	+504084	1

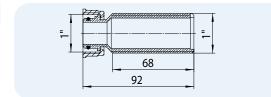
HL420 Extension for the thread

Data

Material PP
Connection 1"
dimension
Outlet dimension 1"

Recommended for Elongation of the thread for all HL

washing device traps





HL-No.	Dimension	Weight	EAN	Piece/package
420	1"	20 g	+504206	1

HL421 Pushfit extension for the thread

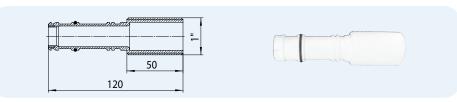
Data

Material PP Connection 1" dimension

Recommended for Stepless junction for the thread for

all HL washing device traps, except HL406, HL406.2, HL406E, HL410,

HL440



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 421
 1"
 25 g
 +421008
 1





7. Air condition and ventilation











HL Stench traps for air condition and ventilation

Basic information about design and installation

Mostly the connection of condensate water or dripping water to the waste water system is forgotten, when planning. A proper waste water drow-off is mostly left to the creativity of the plumber - and therefore very prone to error. At the same time different proplems occure, when you drain little quantities of liquits, which may be solved allready in advance during planning. Hereafter we like to offer you some proposals:

▲ Self-cleaning

Drains, which are used for little quantities of liquid (condensate water, dripping water of heating systems or boilers) are difficult just because the little flow velocity - because there is no self-cleaning effect in the siphon. Therefore it makes sense, to care for a sufficient diameter of the sewage pipe; Minimum: DN32. Beside of that we recommend to install horizontal pipes in direction to the siphon with a minimum incline of 10%.

▲ Stench trap

When the connected device is not working for a longer time, the seal water might evaporate. Therefore please take care, that you have enough height of seal water inside the trap (HL136.2) or to have an additional mechanical trap inside (HL136T, HL136.3, HL138N, HL138NH and HL21).

▲ Maintenance/cleaning

With flush-mounted traps (only HL138NH!) please take care, that you have a constant access to the stench trap. The inspection intervals are depending on the kind and quantity of the fine dust in the air (with air conditioners minimum before start of the season in spring time).

▲ Pressure differences

With central air conditioners or ventilation facilities the trap has to be installed in that way, that on the one hand in case of vacuum no air from the surrounding room gets into the device, and on the other hand, that in case of overpressure no air escapes from the device.

HL136.2: Suitable for vacuum or overpressure up to 2800 pascal (28cm water column). This trap is equipped with transparent pipes to controll the height of the seal water and with an additional hoze nozzle for refilling.

HL136T and HL136.3: These traps prevent air from getting into the device. Suitable for vacuum up to 1300 pascal (13cm water column), depending on the length of the immersion tube.

Relevant standards/directives

EN 12056................ Gravity drainage systems inside of buildings
DIN 19541 Siphons for special purposes
ÖNORM H 6020 Ventilating systems for medical unsed rooms - Development, construction, operation, maintainance,

technical and hygienic supervision



HL Traps for air condition and ventilation - Products - Data

HL20 Drip funnel

Data

Material

Connection 170 x 92 mm

dimension

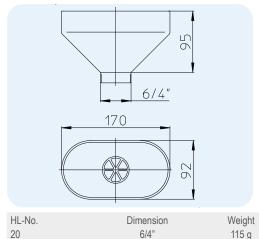
6/4" Outlet dimension

Recommended for the drainage of dripping water and

> sewage, which is not allowed to have a direct connection to the

Additional information including pipe clip, stench trap possible in combination with e.g.

HL100



EAN Piece/package +500208

HL21 Drip funnel including trap

Data

0.17 l/s Capacity Material PΡ Connection 92 x 55 mm dimension

Outlet dimension **DN32** Stench trap

60mm seal water with additional mechanical ball trap

DIN 19541, EN 1451

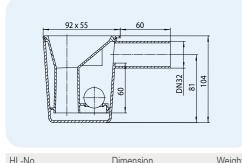
Recommended for Connections with inconstant

water flow

Additional information

Standard

also odourless without seal water



HL-No. Dimension Weight DN32 90 g



HL136.2 Stench trap for condensate with seal water

Data

PP Material Connection DN40 dimension

Outlet dimension DN40

Stench trap 280 mm seal water Standard DIN 19541

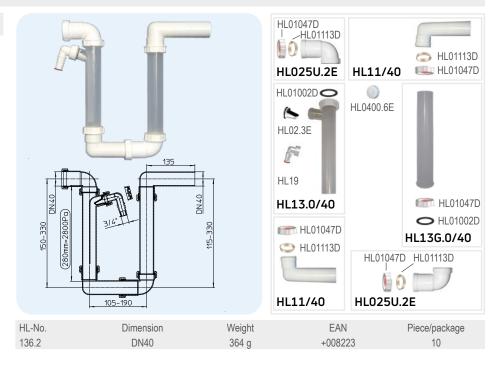
Recommended for

vacuum - or overpressure pipes

(connection to suction- or discharge

Additional information with average sealing water 2800 PA airtight on the suction or discharge

side, with hoze nozzle for refilling





HL136T Ball condensate trap DN40 transparent

Data

Capacity 0,37 l/s
Material PP

Connection DN32 with locking nut dimension Ø 12-18 mm for plugging

Outlet dimension DN40

Stench trap 60mm seal water with additional

mechanical ball trap

Standard DIN 19541, EN 12056

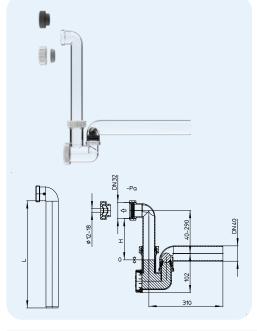
Recommended for Air conditioners, ventilation- and

heating devices

Additional information

also odourless without seal water, possible inlet horizontal and vertical

-Pascal	Н	L
< -300	30	80
(-300)-(-500)	30-50	80
(-500)-(-700)	50-70	100
(-700)-(-900)	70-90	120
(-900)-(-1100)	90-110	140
(_1100)_(_1300)	110_130	160





HL136.3 Stench trap for condensate with seal water- and mechanical ball trap

Data

Capacity 0,37 l/s
Material PP
Connection 5/4"

Outlet dimension DN40

Stench trap 60mm seal water with additional

mechanical ball trap

Standard DIN 19541, EN 12056

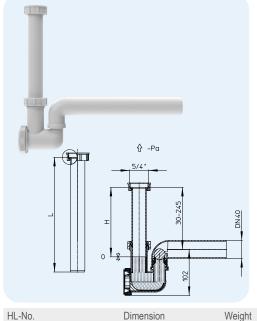
Recommended for Air conditioners, ventilation- and

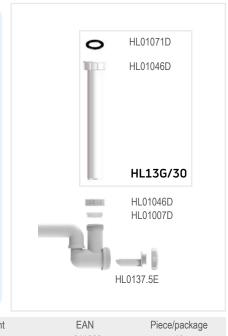
heating devices

Additional information

also odourless without seal water

-Pascal	Η	L
< -300	30	80
(-300)-(-500)	30-50	80
(-500)-(-700)	50-70	100
(-700)-(-900)	70-90	120
(-900)-(-1100)	90-110	140
(-1100)-(-1300)	110-130	160





HL01046D

HL01007D

HL01088D

HL01046D HL01007D

HL01088D

HL-No.	Dimension	Weight	EAN	Piece/package
136.3	DN40 x 5/4"	235 a	+011889	10



HL138N Flush mounted stench trap for condensate

Data

Capacity 0,15 l/s Material PΡ

Connection For connecting pipes from Ø 20 - 32 mm and minimal inner dimension

dimension of a pipe Ø 18 mm

Outlet dimension **DN32**

Stench trap 50 mm seal water, additional with

ball as mechanical odour barrier

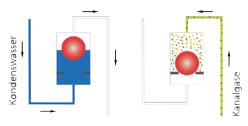
DIN 19541 Standard

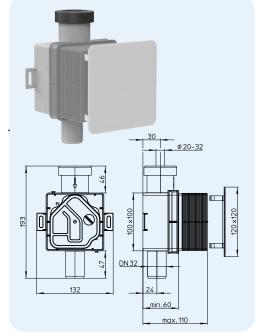
Recommended for Air conditioners, ventilation- and

heating devices

Additional also odourless without seal water,

information removable siphon cartridge





Dimension



Piece/package

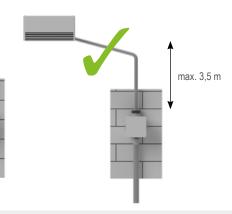
10

EAN

+051892



HL-No.



Weight

266 g



HL138NH Flush mounted stench trap for condensate with hygienic adapter

Data

Capacity 72 l/h Material PP

Connection For connecting pipes from

20 - 32 mm and minimal inner pipe

diameter 18mm

DN32 Outlet dimension

50 mm seal water, additional with Stench trap

ball as mechanical odour barrier

Standard ÖNORM H 6020, VDI 6022,

DIN 19541

Recommended for

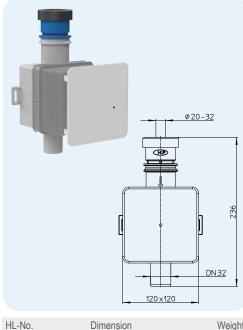
drainage of condensate water of air conditioners, ventilation and heating devices, especially for e.g. hospitals,

clinical institutions and care homes

acc. ÖNORM H 6020

Additional information also odourless without seal water; removable siphon cartridge;

With Austian hygienic certificate (please see www.hl.at)



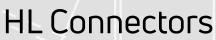


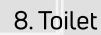






















HL Toilet connectors

Basic information about design and installation

HL supplies fitting connectors for every kind of toilet, which match with modern installation technology, functionally and visually. The plumber should take care on the following topics:

▲ Tightness

Please check the diameter of the outlet of the toilet facility, before connecting to the drainage system. As this connection is mostly behind the wall or in the floor, leakage in this area might be very unpleasant. Note: Outer diameter 102mm, tolerance +/- 5 mm.

▲ Flexibility

When installing a toilet on the floor, sometimes the problem occures, that the position of the outlet pipe is imprecise. This may be solved by using excentric connectors or rosettes.

▲ Material

The usage of high-quality material garanties a long lifetime. When leakness occures, the gasket easily may be changed.

Relevant standards/directives

DIN 19560 Pipes and fittings made of PP inside the building DIN 1389 Toilet connection fittings

HL Toilet connectors - Products - Data

HL200 Toilet connector with excentric sleeve

Data

ullilelision

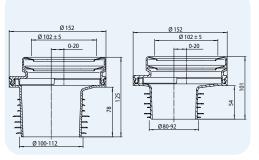
Outlet dimension HL200/1: Ø 100 – 112 mm

HL200/90: Ø 80 – 92 mm

Standard DIN 1389

Recommended for Toilet bowls with vertical outlet

Additional with multiple lip-seal, information 20mm excenticity





HL-No.	Dimension	Weight	EAN	Piece/package
200/1	DN110	225 g	+502004	10
200/90	DN90	220 g	+200900	10

HL201 Toilet connector

Data

Material PE-soft Connection \emptyset 102 ± 5 mm

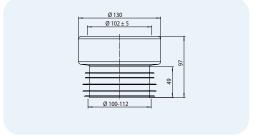
dimension

Outlet dimension Ø 100 – 112 mm Standard DIN 1389

Recommended for Toilet bowls with vertical outlet

Additional with multiple lip seal

information





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 201
 DN110
 110 g
 +502011
 10



HL202 Pan connector **HL202G** Toilet connector

Data

PP Material

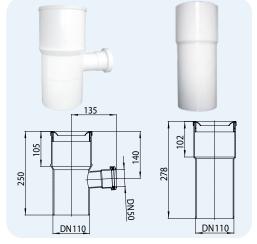
HL202: Ø 102 ± 5 mm/DN50 Connection dimension HL202G: Ø 102 ± 5 mm

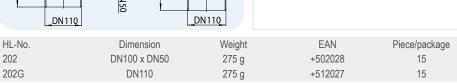
Outlet dimension DN110 Standard **DIN 1389**

Recommended for Toilet bowls with vertical outlet

Additional with gasket

information





HL01026D

HL0203.1E

HL01025D

HL01026D

Piece/package

25

HL0203.1E

HL203 Toilet connector white

Data

Material

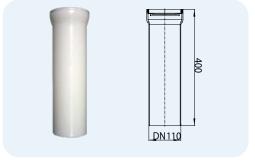
Ø 97 – 110 mm Connection

dimension

DN110 Outlet dimension Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet Additional with flexible gasket and ring

information





HL203/90 Toilet connector white

Data

PΡ Material

Connection \emptyset 102 \pm 5 mm

dimension

DN90 Outlet dimension

DIN 1389 Standard

Recommended for Toilet bowls with horizontal outlet

Additional with gasket

information





HL204 Discharged toilet connector white

Data

Material

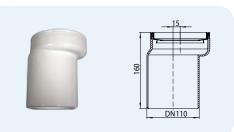
Connection Ø 97 – 110 mm

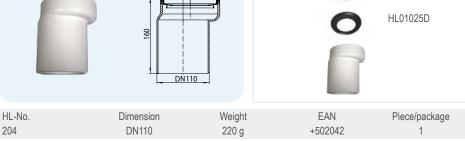
dimension

Outlet dimension DN110 Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet

Additional 15 mm discharged, information with gasket and ring







HL205 Toilet elbow-connector, white

Data

Material PP

Connection Ø 97 - 110 mm

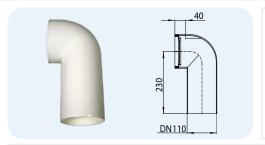
dimension

Outlet dimension DN110 Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet

Additional with gasket and ring

information



HL-No. Dimension Weight 220 g DN110

EAN +502059

HL0203.1E

HL01025E

HL01025D

Piece/package 10

HL0203.1E

HL209 Toilet elbow-connector, white with ball-joint

205

Data

Material PP

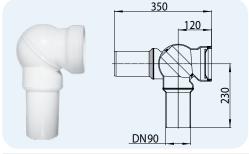
Connection Ø 97 - 110 mm

dimension

Outlet dimension DN90 Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet Additional with ball-joint, gasket and ring

information



HL-No. Dimension Weight 209.WE DN110 x DN90 405 g

EAN +502097 Piece/package 10

10

HL210 Toilet elbow-connector, white with ball-joint HL210P like HL210 but PVC DN100

Data

Material HL210.WE: PP

HL210P: PP/PVC

Connection Ø 97 – 110 mm

dimension

HL210.WE: DN110 Outlet dimension

HL210P: DN100

Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet Additional with ball-joint, gasket and ring, information product "P": outlet made of PVC





HL0203.1E HL01025D EAN Piece/package

HL210.7 Toilet elbow-connector, white with ball-joint and rosette

Data

Material

Ø 97 – 110 mm Connection

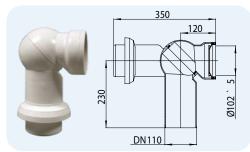
dimension

information

Outlet dimension DN110 Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet with ball-joint, rosette HL7EL, Additional

gasket and ring





Weight

475 g



+502103

+502110

EAN Piece/package +502172



HL222 Toilet connector kit

Data

Material

 \emptyset 102 \pm 5 mm Connection

dimension

Outlet dimension HL222/1: DN110

HL222/90: DN90

Standard **DIN 1389**

Recommended for Connection of waste and rinse water

for wall-toilets

Installation set available in delivery Additional

information





HL-No.	Dimension	Weight	EAN	Piece/package
222/1	DN110	325 g	+502226	1
222/90	DN90	310 g	+522293	1

HL224 Toilet elbow-connector

Data

Material PP

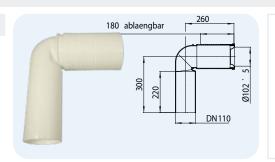
Connection \emptyset 102 \pm 5 mm

dimension

Outlet dimension DN110 **DIN 1389** Standard

Recommended for Toilet bowls with horizontal outlet Additional with cuttable inlet part and gasket

information



HL-No. Dimension 224.WE **DN110**

Weight 600 g

EAN +502240 Piece/package

HL01051D

HL224.1 Toilet elbow-connector with pipe clip and fixing bracket

Н

Data

PP Material

Connection \emptyset 102 \pm 5 mm

dimension

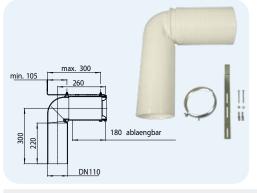
information

DN110 Outlet dimension

Standard **DIN 1389**

Recommended for Toilet bowls with horizontal outlet Additional with cuttable inlet part, gasket,

> bracket and clip for toilet bowls with "Vario"-outlet





=:= HL0224.1E HL01051D

EAN Piece/package +512249

HL225/90 Toilet elbow-connector

Data

Material

PΕ

Connection Ø 97 – 110 mm

dimension

DN90/110

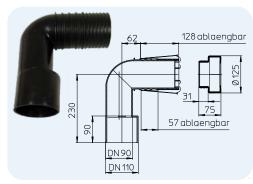
Outlet dimension Standard **DIN 1389**

Recommended for Connectible to all 4 shell rings spots

to ensure optimal connection

cuttable inlet part, no connection to Additional information the wall, rubber gasket with support

tube and lot cover





HL-No.	Dimension	Weight	EAN	Piece/package
225/90	DN90/110	860 a	+225903	5



HL225.1/90 Toilet elbow-connector with connector kit HL226

Data

Material PΕ

Connection Ø 97 - 110 mm

dimension

Standard

Outlet dimension DN90/110

DIN 1389 Recommended for Connectible to all 4 shell rings spots

to ensure optimal connection

Additional cuttable inlet part, no connection to the wall, rubber gasket with support information

tube and lot cover





225.1/90

Dimension DN90/110 Weight 980 g

+225194

5

HL0203.1E

HL703 Toilet elbow-connector with connector kit HL226

Data

Material

Ø 97 – 110 mm Connection dimens. Outlet dimension **DN110**

DIN 1389 Standard

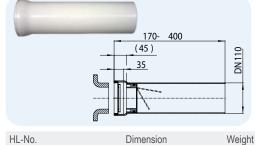
Recommended for "Problem-solver" for toilet bowls

with backflush, caused by incorrect

drainage

with gasket and ring Additional

information



DN110

Weight 530 g

EAN

+507030

Piece/package

HL01025D

HL Toilet connectors - Accessories - Data

703

7.WE

HL7.WE Splitted toilet rosette

Data

PΡ Material

Connection Ø 110 mm

dimension

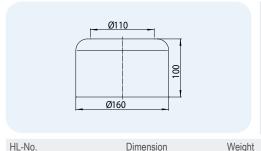
Outlet dimension Ø 160 mm

Recommended for visual aprovement of wall or floor

connections

Additional splittable rosette for finished

installations information



Dimension Weight **DN110** 140 g

EAN +502073 Piece/package 30

HL7EL Elastic toilet rosette, white

Data

Material PE-soft

HL7EL.WE: DN110 Connection dimension HL7EL/90WE: DN90

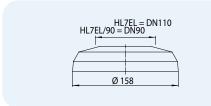
Outlet dimension Ø 158 mm

Recommended for visual aprovement of wall or floor

connections

Additional elastic rostette

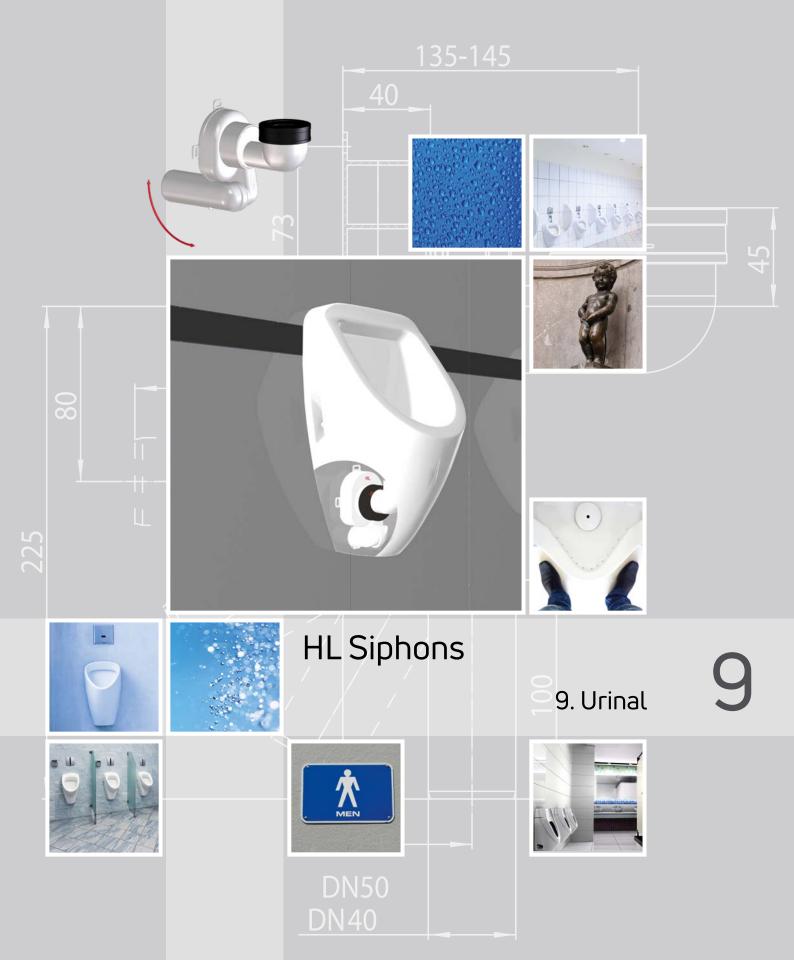
information





HL-No. Dimension Weight EAN Piece/package 7EL.WE DN110 45 g +500079 5 7EL/90WE **DN90** 45 g +501076







HL Urinal traps

Basic information about design and installation

Because of their low consumption of water urinals based on the principle of vacuum drainage have prevailed in the last years. Below we would like to clarify some of the terms, belonging to this chapter:

▲ Siphonic drainage

As urinal facilities mostly can be found in public areas, they have to be protected against unauthorised manipulation. Therefore the ceramic bowls are designed in a way, that all important parts are behind the bowl. That is why it is important to have a self-cleaning siphon. This effect results from using low cross sections inside the siphon and therefore higher flow speed. The trap is "systematically" suctioned. The needed seal water has to come from which remains in the ceramic bowl. For this purpose only approved traps may be used, to make

sure, that this siphonic drainage effect happens indeed. HL urinal trap HL430 is conform to the standard. Additionally the function is approved by an independant laboratory.

▲ Flush volume

Normally urinal facilities are operated by electronic controls. Thereby the minimum flush volume can be regulated. Minimum flush volumes for HL urinal traps: HL431 and HL432: 1,5l for one flush. HL430: 1l for one

▲ Plugging by urine scale

From the economical and ecological point of view people more and more use as little water for flushing as possible. However, it should be clear, that the less water is used for flushing, the more likely it will come to a plugging of the trap and/or the drainage pipe. And this leads to shorter cleaning intervals.

▲ Ball-joint

HL equips it's traps with a ball-joint, which allows a stressless installation, both horizontal and vertical.

Relevant standards/directives DIN 13407 Wall-mounted urinals DIN 19541 Stench traps for special purposes DIN 1380 Connectors for urinals -

requirements and verification

HL Urinal traps - Products - Data

HL130 Urinal trap

Data

Material Connection

dimension

 \emptyset 50 ± 2 mm

HL130/30: DN32

Outlet dimension

HL130/40: DN40

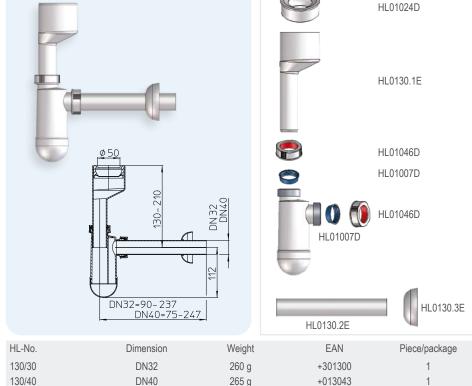
Capacity

Standard Recommended for DIN 19541, DIN 1380 urinals with vertical outlet

Additional information

Adjustable immersion tube,

concealed lip-seal and rosette



265 g



HL430 Urinal siphonic trap

Data

Material

Connection

dimension

Ø 50 ± 2 mm

Outlet dimension

HL430/40: DN40 HL430/50: DN50

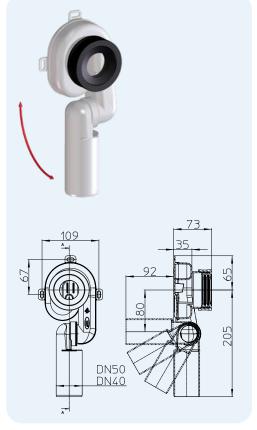
Capacity 0,7 l/s

Standard EN 13407, DIN 19541, DIN 1380 Recommended for Urinal bowls with internal horizontal

outlet and > 1I flush volume

Additional Ball-joint (0° - 90°) and gasket

information





HL-No.	Dimension	Weight	EAN	Piece/package
430/40	DN40	180 g	+304301	10
430/50	DN50	185 g	+314300	10

HL431 Urinal siphonic trap

Data

Material

Connection Ø 50 ± 2 mm

dimension

Outlet dimension

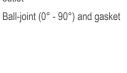
HL431/40: DN40

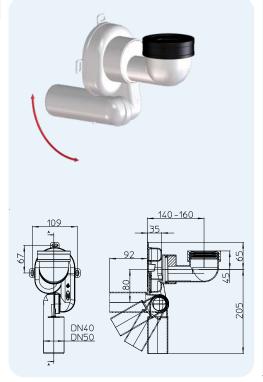
HL431/50: DN50

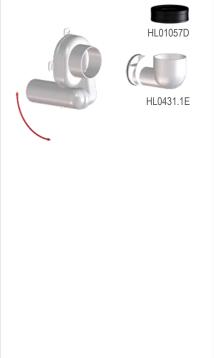
Capacity 0,7 l/s

Standard EN 13407, DIN 19541, DIN 1380 Recommended for Urinal bowls with internal vertical

Additional information







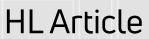
HL-No.	Dimension	Weight	EAN	Piece/package
431/40	DN40	250 g	+000777	10
431/50	DN50	260 g	+000791	10











10. Air admittance valves

10









HL Air admittance valves

Basic information about design and installation

Air admittance valves nowadays are part of nearly every drainage system. The main task of these valves is, to care on the one hand for an atmospherical pressure compensation in the drainage system and on the other hand to avoid stench coming up from the sewer. Please find below answers to the main questions.

▲ Is it neccessary to lead the downpipe over the roof?

Yes. Minimum one downpipe has to lead into the fresh air, which cares for the ventilation and also for the deaeration of the sewer system (also valid for passive houses acc. Austrian Standard B2501)

- ▲ What is the sence of air admittance valves? When wastewater runs down the drainage system, it comes to a vacuum, which might suck out the water in the stench trap. Air admittance valves care for pressure compensation and avoid nasty side effects like gurgling, emptying of the siphon or stench. They may be installed with little effort.
- ▲ When does one have to use air admittance valves?

Single or multiple drainage pipes, which are longer than 4 m away from the downpipe have to be equipped with ventapipes (air admittance valves). Minimum one downpipe must be installed over the roof, all other downpipes may be ventilated with air admittance valves.

▲ Where are they used?

At downpipes above the last drained device (e.g. above the highest toilet. The advantage is, that the pipe may not be lead through the ceiling into the attic). Also at renovations, when a single trap has to be ventilated, to solve existing problems.

- ▲ How do air admittance valves work? Inside the ventapipe a rubber disc regulates the air flow. This membrane closes the air inlet, when there is no pressure or overpressure and avoids air (or stench) coming up from the sewer. This is the reason, why these valves must be installed always vertically.
- ▲ Position fo installation/operating temperature

Air admittance valves must be installed in that way, that enough air from the surrounding may get into the sewer system. The operating temperature is described in DIN1986-100 and EN12380. E.g. our ventapipe HL900N has, acc. to these standards, classification A-I, highest range from -20°C to +60°C.

▲ Is it allowed to use ventapipes below the flood level?

Yes, but only, when the drain pipe is secured against backwater.

▲ Is it allowed to use air admittance valves to ventilate lift stations?

No, lift stations must be connected to one main ventilation pipe, which leads above the roof

▲ Maintainance

Take care, that air admittance valves are installed in places, where it is possible to clean or, in case of demage, replace them. For cleaning HL provides it's ventapipes with an insect screen, which can be easily removed for cleaning. In general one can say, that, as long as there is no stench problem in the drainage system, the air admittance valve works for long time.

▲ Savety

To reach highest functioning, we recommend to use only design approved and externally controlled types.

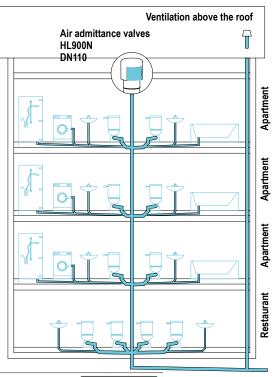
Relevant standards/directives

EN 12056-2 Gravity drainage systems inside of buildings EN12380.................. Air admittance valves for soil and waste systems DIN 1986-100 Drainage systems for buildings and estates ÖNORM B2501 Drainage of buildings



HL Air admittance valve - Calculation - Function

Calculation example for an apartment building with restaurant according the calculation formula in EN 12056-2.





Definition of terms:

Q_{ww} = Waste water quantity (I/s)

K = Waste water coefficient

∑ DU = Total connected value of drained units

Qa = required quantity of air

Apartments				
6 WC's with 7,5 I toilet tank	6 x 2,0 l/s = 12 l/s			
6 washbasins	$6 \times 0.5 \text{ l/s} = 3 \text{ l/s}$			
3 bath tubs	$3 \times 0.8 \text{ l/s} = 2.4 \text{ l/s}$			
3 showers	3 x 0,6 l/s = 1,8 l/s			
3 washing machines	3 x 0,8 l/s = 2,4 l/s			
Total	21,6 l/s			

Restaurant	
4 WCs with 7,5 I toilet tank	4 x 2,0 l/s = 8 l/s
2 washbasins	2 x 0,5 l/s = 1 l/s
Total	9 l/s

 Q_{ww} Apartments = 0,5 x $\sqrt{\frac{21,6}{1}}$ I/s = 0,5 x 4,65 I/s = 2,33 I/s (Q_{tot})

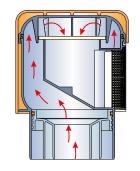
 Q_{ww} Restaurant = 0,7 x $\sqrt{9}$ l/s = 0,7 x 3 l/s = 2,1 l/s (Q_{tot})

 $Q_a = 8 x (Q_{tot} Apartments + Q_{tot} Restaurant)$

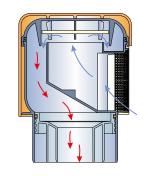
 $Q_a = 8 \times 4,43 \text{ l/s} = 35,44 \text{ l/s}$

Airflow capacity of HL900N = 37 I/s

Function



At overpressure in the sewer system the valve stays closed. No stench can get out.



At vacuum in the sewer the valve opens and the inflowing air causes pressure compensation.

Typical waste water coefficients (K)	
Irregular use like e.g. in apartment buildings, b&bs, offices	0,5
Regular use like e.g. in hospitals, schools restaurants, hotels	0,7
Frequent use like e.g. in public toilets and/or showers	1
Special use like e.g. in laboratories	1,2

Excerpt from EN 12056-2 chart 2 Waste water values	
Drained unit	Value
	DU (I/s)
Washbasins, bidet	0,5
Shower without plug	0,6
Shower with plug	0,8
Bathtub	0,8
Kitchen sink	0,8
Dish washer	0,8
Washing machine up to 6 kg	0,8
Washing machine up to 12 kg	1,5
WC with 7,5 I toilet tank	2,0
Floor drain DN50	0,8
Floor drain DN70	1,5
Floor drain DN100	2,0



HL Air admittance valves - Products - Data

HL900N Air admittance valve with reduction

Data

Material Connection dimen-DN110/75/50

Socket

37 l/s Airflow capacity

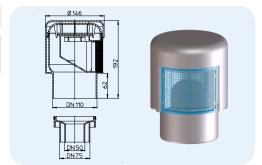
Standard EN 12380, type A1 design approved Recommended for Ventilation of single or multiple

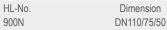
downpipes

Additional information with removable insect screen (easy cleaning), solid rubber disc, double

wall thermal insulation and reduction

DN50/75





Weight 550 g

+909001

Piece/package

HL900NECO Air admittance valve

Data

Material PΡ Connection DN110

dimension Airflow capacity

37 l/s

Standard EN 12380, type A1 design approved

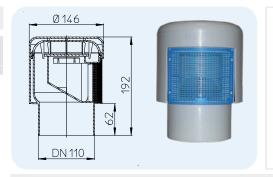
Recommended for

Ventilation of single or multiple

downpipes

Additional information with removable insect screen (easy cleaning), solid rubber disc and

double wall thermal insulation



119

HL-No. 900NECO

158

DN 90

DN110

Dimension Weight **DN110** 470 g

EAN +016839

HL0900.2E

Piece/package 10

HL901 Air admittance valve

Data

PΡ Material Connection dimen-DN75/110

plain pipe

DN90 Socket

Airflow capacity

Standard EN 12380, type A1 design approved Recommended for Ventilation of single or multiple

downpipes

Additional

with removable insect screen (easy information cleaning), solid rubber disc and double wall thermal insulation, flat!

Bauart geprüft und überwacht

HL-No. 901

56

DN 75

20

Dimension DN75/90/110

EAN Weight +031269 362 g

HL0901.1E

Piece/package 10

HL01101D

HL904 Air admittance valve

Data

Material

DN32/50 Socket Connection dimension DN40 plain pipe

Airflow capacity 5,5 l/s

Standard EN 12380, type A1 design approved

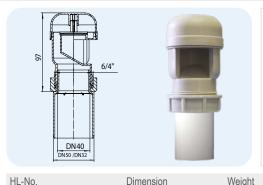
collected units

Ventilation of single drain units and

Additional information

Recommended for

with adapter





HL-No. 904 DN32/40/50 Weight 90 g

+909049

Piece/package 10

102

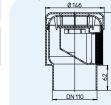
















HL0900.1E







HL904T Air admittance valve with T-connector

Data

Material

Connection

DN40 plain pipe

dimension

Airflow capacity

5,5 l/s

Standard

EN 12380, type A1 design approved

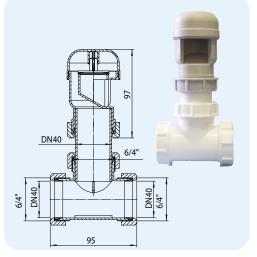
Bauart geprüft und überwacht

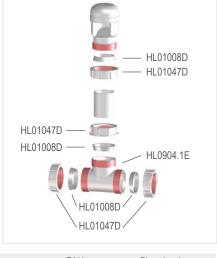
Bauart geprüft und überwacht

Recommended for

Ventilation of single drain units and collected units

Additional information with T-connector and adapter





HL-No. Dimension Weight EAN Piece/package 904T DN40 136 g +919048

HL903 Air admittance valve

Data

ABS/PP Material

Connection

DN32/50 Socket

dimension

DN40 plain pipe

Airflow capacity

Standard EN 12380, type A1 design approved

Recommended for

Ventilation of single drain units and

collected units

Additional information With removable insect screen, adapter and double wall thermal

insulation.





HL-No. 903

> Н 90 90

Dimension DN32/40/50 Weight 139 g

+029013

10

HL902T Air admittance valve with T-connector

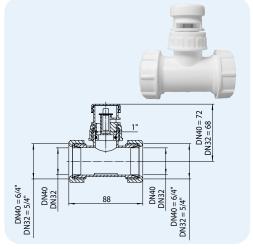
Data

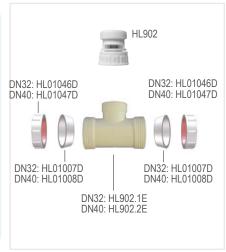
Material PP

Connection HL902T/30: DN30 plain pipe HL902T/40: DN40 plain pipe dimension

Standard EN 12380

Ventilation of single drain units Recommended for





HL-No.	Dimension	Weight	EAN	Piece/package
902T/30	DN32 x 1"	75 g	+004836	1
902T/40	DN40 x 1"	80 g	+004850	1



HL905N Flat concealed air admittance valve complet with white cover

Data

Material PP/ABS
Connection DN50/75
Airflow capacity 13 l/s

TÜVRheinland
ZERTIFIZIERT
WWW.tuxcem
ID 1111216824

Standard EN 12380-A1,

EN 12056-2

Recommended for

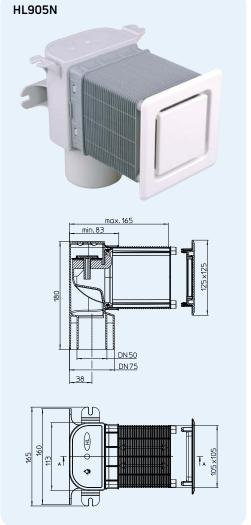
In-wall installation, ventilation of secondary downpipes and single- or multiple downpipes, which are more than 4m away from the downpipe

(EN12056-2)

Due to the flat design an installation in plasterboard walls with 75mm inner dimension is possible

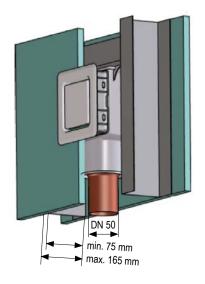
Additional information

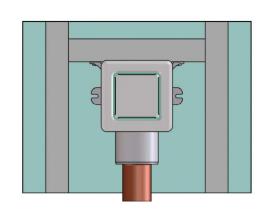
By installing this air admittance valve, you make sure, that enough air is getting into the outlet pipes of the whole bathroom, so the water inside the trap is not sucked out by vacuum, which might cause bad odour. The functional cartridge is removable for cleaning and revision and, additionally, allows an open access to the sewer system. Please see installation video at www.hl.at





HL-No.	Dimension	Cover	Weight	EAN	Piece/package
905N	DN50/75	white	383 g	+049752	1
905N.0	DN50/75	without cover	336 g	+049769	1







HL905.1, (.2), (3), (.4) Cover plate for HL905N HL905.1V, (.2V) Screwable cover for HL905N

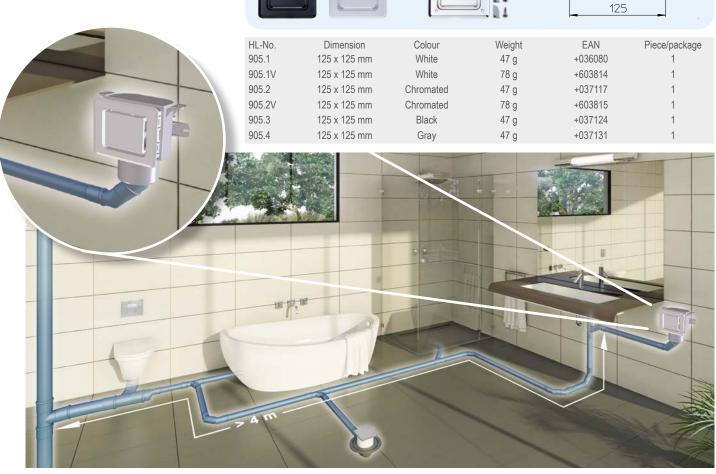
Data

 Material
 HL905.1: ABS

 Dimension
 125 x 125 mm

 Recommended for
 HL905N







HL Air admittance valves - Accessories - Data

HL902 Air admittance valve

Data

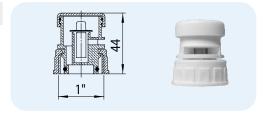
Material PP Connection 1" I

dimension

1" IG

Standard EN 12380

Recommended for Ventilation of single drain units



HL-No.	Dimension	Weight	EAN	Piece/package
902	1"	30 g	+909025	10

HL0317.4E Reduction DN75 x DN110

Data

Material F

Connection DN75 socket DN110 straight end Recommended for Reduction of HL905



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 0317.4E
 DN75/110
 104 g
 +317042
 1

HL990 Reduction

Data

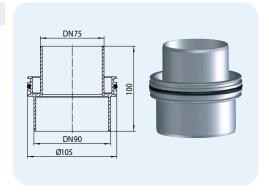
Material PP

Connection

DN75/90

dimension

Recommended for fits to HL900N (ECO)



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 990
 DN75/90
 97 g
 +018246
 1



Ø 354







HL Drains

11. Roof 11











HL Roof drains

Basic information about design and installation

For conventional roof drainage systems HL provides solutions for nearly every kind of roof construction. The challenge for the designer and the installer is very detailed. Different constructions, layer compositions and roof functions ask for varied drain combinations. Before designing please notice following topics:

▲ Calculation of the quantity of roof drains
First the quantity of rainwater has to be calculated. Acc. EN12056 and ÖNORM B2501 this is a minimum 300l/ (s x ha), which means one incident of intense rain, happening one time within 5 years for the time of 5 minutes. If this data is higher at the location of construction, this higher rain yield factor has to be taken into consideration for the calculation (please ask your local meteorological station).

Example: Roof surface = 1500m², rain yield factor = 400l/ (s x ha), coefficient 1 Rain water quantity, which has to be drained off = $(400 \times 1 \times 1500) / 10.000 = 60$ l/s. Basically every low point of the roof should be provided with a single drain.

Anyway, the number of drains and the drain capacities has to be at least the calculated rain vield factor.

Example: Rain yield factor = 60 l/s, drain capacity of the roof drain = 5 l/s Quantity of roof drains = 60/5 = 12 roof drains

▲ Emergency overflows

To protect from damages, please check acc. DIN 1986-100 and ÖNORM B2501 (or local standard), if emergency overflows are requested. Acc. DIN 1986-100 and ÖNORM B2501 it has to be checked at all roof constructions, if emergency overflows are necessary, considering the expected incidents of rain at the

construction site, the construction itself, the hydro-insulation, the statics of the roof and the special character of the drainage system. Two possibilities: Installation of a second drainage system or draining off by a gap in the attic. The quantity of rain water, drained off by emergency overflows, results from the difference between the century and the standard rain yield factor. (The term "century rain yield factor" means a heavy rain incident, which may occur one time in 100 years for the time of 5 minutes).

Example:

Century rain yield factor = 800 l/ (s x ha), standard rain yield factor = 400 l/ (s x ha)

Rain water quantity for emergency overflows = 800 - 400 = 400 l/ (s x ha).

▲ Waterproofing

Empirically roof openings most often are responsible for damages by water. That means, you have to pay most attention already during the period of designing, to have a 100% waterproof connection between the sheeting and the gully. HL provides solutions for all established waterproof sheeting. We recommend to use gullies, which are prefabricated with flanges made off the same material, as the sheeting.

▲ Drainage layers

Depending on the roof design, there might be more than one layer, which has to be drained off. Please take care, that each layer, where water may occur, is drained off (e.g. by a gravel guard).

▲ Heating

To avoid the freezing of the gully during the winter time, we recommend generally the installation of a roof drain with integrated heating. From our experience, these drains are installed, when they are connected to only storm water sewers. A heated gully is absolutely necessary, when it is at a position, where snow water may occur during day, whilst at night it might be blocked by ice.

▲ Condensed water

Roof drains should have an integrated thermoinsulation, to avoid, that condensed water arises (e.g. all HL roof drains have a double wall drain body, which functions as thermoinsulation).

Relevant standards/directives

ÖNORM B 2501 Drainage of buildings

DIN 1986-100 Drainage systems for buildings and estates

EN 1253......Drains for buildings ÖNORM B 2209Waterproofing works

ÖNORM B 2220 Roof waterproofings with bitumen and plastic sheetings

ÖNORM B 7209 Waterproofings for buildings ÖNORM B 7220 Roofs with waterproofings

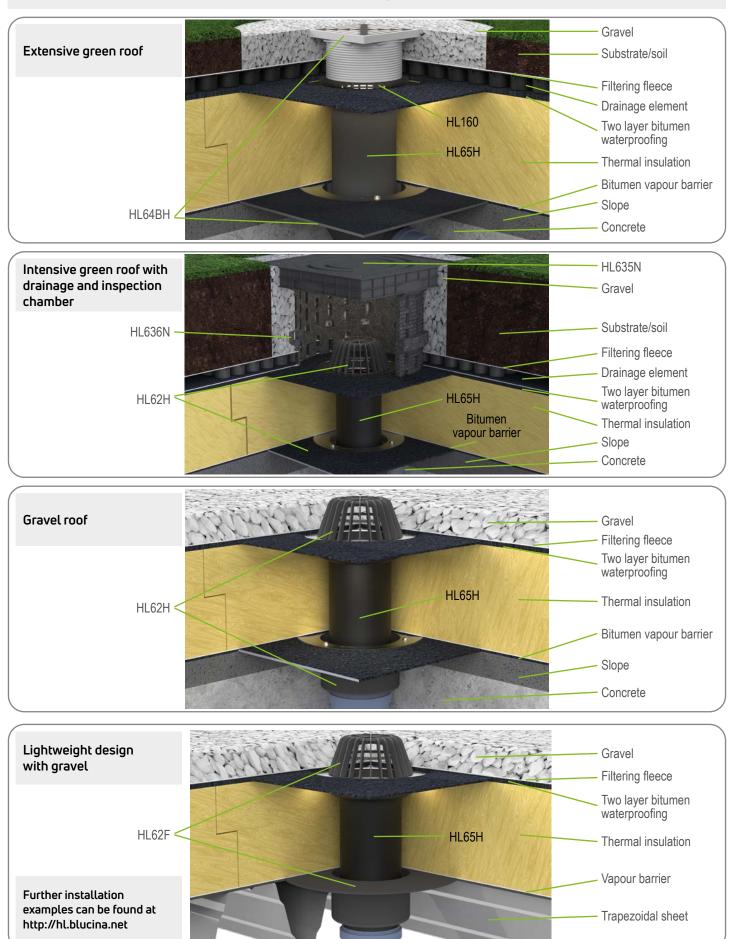


Selection of the convenient drain

Selective criteria	Requirements	Product
Drainage surface	When you calculate the quantity of occuring rain water acc. ÖNORM B2501 and DIN 1986-100, you have to use at least the standard rain yield factor of 300 l/ (s x ha). Quantity of rain water = 0,03 l/s x drainage surface (m²) Quantity of gullies = Absolute quantity of rain water Capacity of the gully	For the exact definition of the right drain and the quantity of gullies, please mind the capacity of the particular article.
Waterproofing	For the right choice of the convenient drain, please find out, which waterproof sheeting material is used on the roof. Please prefer drains with prefabricated PVC- or bitumen flanges, when the roof is sheeted with PVC or bitumen. For all other sheeting you may use drains with a clamping ring.	
	Bitumen sheeting, liquid bitumen compounds	Roof drain vertical HL62H Roof drain horizontal HL64H
	PVC-sheeting	Roof drain vertical HL62P Roof drain horizontal HL64P
	FPO-sheeting	Roof drain vertical HL62F Roof drain horizontal HL64F
	Polymer sheeting	Roof drain vertical HL62 Roof drain horizontal HL64
Roof construction	To find out, what is the best composition of the drain, like extension (with our without flange), gravel guard (e.g. for inverted roofs) or heating, a detailed plan of the different layers is necessary.	
	Extension with flange for e.g. warm roofs	HL65(H)(P)(F)(PE)
	Gravel guard for e.g. inverted roofs	HL160, HL161
	Extension with flange	HL350.0
	Extension	HL350
	Drainage- and inspection-chamber	HL635N
Heating	All types of roof drains, signed with the appendix ".1" are equipped with an integrated, self-adjusting 230 V heating (10 - 30 Watt). We recommend gullies with heating especially, when the drainage system is connected to the rainwater drain.	".1"
Siphon trap	All types of drains are without siphon trap. If the drainage system is connected to the sewer, it is possible, to install a central, vertical flap valve for down pipes below the roof as a stench trap.	HL603

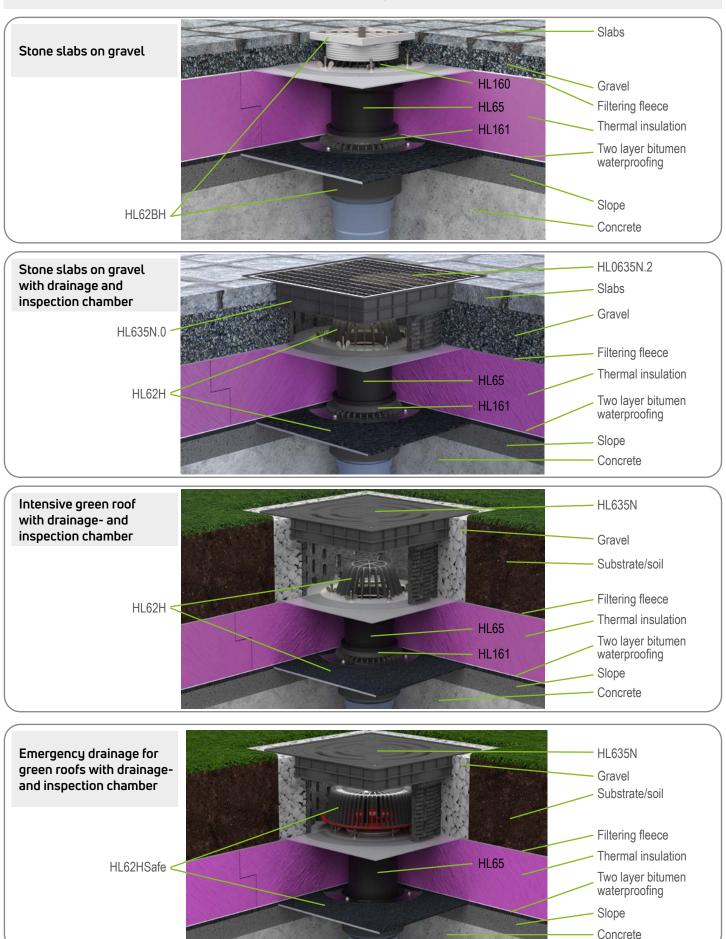


HL Roof drains - Installation examples - Warm roof





HL Roof drains - Installation examples - Inverted roof





HL Roof drains – Installation Thermal insulated inverted roof with gravel embankment



1. Produce tap hole with Ø 255 mm, insert drain HL62H



2. Apply prime coat on the raw ceiling



3. Weld the first bitumen layer on the raw ceiling, then weld the bitumen flange of the drain on the biumen layer



4. Connect second bitumen layer with the bitumen flange of the drain



5. Professional integration of the gully in a 2-layer bitumen sheeting



6. Remove lid cover, apply the fleece, insert gravel guard HL160



7. Put the extension HL350.0 on the gravel guard HL160



8. Set the thermal insulation plates, adjust the height of the extension by cutting



9. Insert the transparent plastic ring in the groove of the



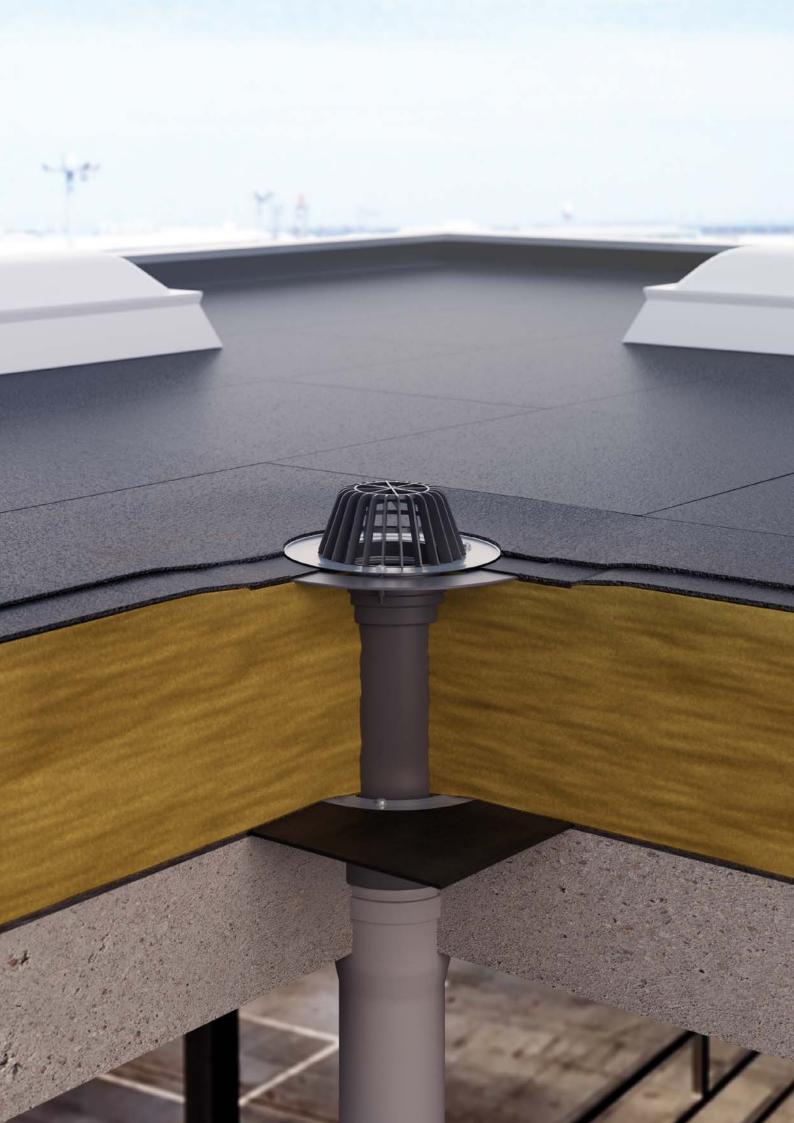
10. Clamp the fleece on the flange with the stainless steel ring



11. Insert leaf catcher, dispense the gravel with minimum grain size 16/32 around the leaf catcher



12. Fill with gravel





HL Roof drains - Products - Overview



Product	HL62	HL62H	HL62P	HL62F	HL64	HL64H	HL64P
Description	Standard roof drain vertical with clamp ring	Roof drain vertical with bitumen membrane	Roof drain vertical with PVC-flange	Roof drain vertical with PP-flange	Standard roof drain horizontal with clamp ring	Roof drain horizontal with bitumen membrane	Roof drain horizontal with PVC-flange
Function	To clamp polymer sheeting	Especially for con- nection to bitumen sheeting	Especially for connection to PVC-sheeting	Especially for connection to FPO-sheeting based on PP	For clamping of polymer sheeting	Especially for con- nection to bitumen sheeting	Especially for connection to PVC-sheeting

All drains of series HL62 and HL64 are also available with an assembly kit for terraces. All drains of series HL62 and HL64 are also available with integrated heating. For more information see product data.

Drains

More spare parts for HL80.3 and HL80.3H find in chapter "balcony - terraces".





Product	HL80.3	HL80.3H
Description	Flat roof drain	Flat roof drain with bitumen flange
Function	For roof areas up to 33 m^2 and rain yield factor of 300 V (s x ha)	For roof areas up to 33 m ² and rain yield factor of 300 l/ (s x ha) especially for connection to bitumen sheeting



Product	HL65	HL65H	HL65P	HL65F(HL65PE)	HL350	HL350.0
Description	Standard extension	Extension with bitumen flange	Extension with PVC-flange	The extension with PP or PE flange	Extension	Extension with insulation set
Function	For clamping of polymer sheeting, e.g. warm roofs	Especially for connection to bitumen sheeting, e.g. warm roofs	Especially for connection to PVC sheeting, e.g. warm roofs	Especially for connection to FPO based on PP or PE	To extend the leaf catcher or the grating of the walkalble type	To extend the leaf catcher or the grating of the walkable type with additional clamp ring



HL Roof drains - Products - Overview



HL64F	HL63	HL63H	HL63P	HL69	HL69H	HL69P
Roof drain horizontal with PP-flange	Roof drain "Drainbox" vertical with clamp ring	Roof drain "Drainbox" vertical with bitumen membrane	Roof drain "Drainbox" vertical with PVC-flange	Flat-roof renovation drain vertical with clamp ring	Flat-roof renovation drain vertical with bitumen membrane	Flat-roof renovation drain vertical with PVC-flange
Especially for connection to FPO sheeting based on PP	For clamping of polymer sheeting and for the installation in thermal insulations from 100 - 160 mm	Especially for connection to bitumen sheeting, and for the installation in thermal insulations from 100 - 160 mm	Especially for connection to PVC sheeting, and for the installation in thermal insulations from 100 - 160 mm	For clamping of polymer sheeting and for the re- novation of the drainage system. Easily to be plugged into the body of the old drain	Especially for connection to bitumen sheeting and for the renovation of the drainage system. Easily to be plugged into the body of the old drain	Especially for connection to PVC sheeting and for the renovation of the drainage system. Easily to be plugged into the body of the old drain

Sealing kits









Product	HL84.H	HL84.CU	HL84.E
Description	Sealing kit with bitumen membrane	Sealing kit with copper plate	Sealing kit with galvanized steel plate
Function	For clamping to a standard roof drain or a standard extension. "Problem solver"	Fits to a standard roof drain or to a standard extension - for roofs with copper sheeting	Fits to a standard roof drain or to a standard extension - for roofs with steel sheeting



Product	HL160	HL161	HL66.9	HL635N	HL603
Description	Gravel guard for inverted roofs	Drainage element	Walkable extension	Stainless steel leaf catcher	Flap valve for downpipes DN110 or DN160
Function	For the drainage of rainwa- ter on the hydro-insulation layer, e.g. inverted roof construction	For drainage of condensation water on the vapour barrier, e.g. with aered flat roofs.	To convert roof drains with leaf catcher to a walkable type	Fits for all roof drains and extensions with clamp ring	Prevents from sewer stench



HL62 Roof drain with thermal insulation HL62.1 Roof drain like HL62, but electrically heated

Data

Material PP, drain body thermal insulated

Outlet

Sealing flange PP with stainless steel clamp ring

Inlet Leaf catcher Ø 170 mm

EN 1253 Standard

Recommended for Polymer sheeting

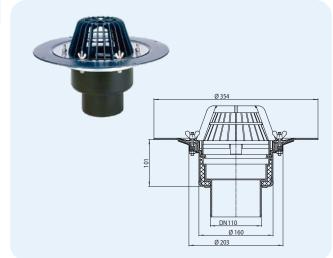
Notch dimension: 255 x 380 mm Additional Tap hole dimension: Ø 255 mm information

> HL62.1: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Lid cover, 6 pcs. HL062N.4E Including

hex nut alternative to wing nuts





HL-No.	Dimension	Weight	EAN	Piece/package	Type
62/7	DN75	1507 g	+830626	1	Standard
62.1/7	DN75	1647 g	+832620	1	with heating
62/1	DN110	1486 g	+800629	1	Standard
62.1/1	DN110	1626 g	+802623	1	with heating
62/2	DN125	1481 g	+810628	1	Standard
62.1/2	DN125	1621 g	+812622	1	with heating
62/5	DN160	1515 g	+820627	1	Standard
62.1/5	DN160	1655 g	+822621	1	with heating

HL62H Roof drain with bitumen membrane HL62.1H Roof drain like HL62H, but with electrical heating

Data

Material PP, drain body thermal insulated

Outlet vertical

Sealing flange PP, stainless steel, prefabricated

welded bitumen membrane

Leaf catcher Ø 170 mm Inlet

EN 1253 Standard

Recommended for Bitumen sheeting

Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

> HL62.1H: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





62.1H/5 DN160 2001 g +836215 1 with heating	HL-No. 62H/7 62.1H/7 62H/1 62.1H/1 62H/2 62.1H/2 62.1H/5	Dimension	Weight 1853 g 1993 g 1892 g 1872 g 1872 g 1867 g 1861 g	EAN +831623 +806225 +801626 +816217 +811625 +826216 +821624	Piece/package 1 1 1 1 1 1 1 1 1	Type Standard with heating Standard with heating Standard with heating Standard with heating
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Drainage table HL62, HL62.1, HL62.H, HL62.1H
Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b)

Drainage capacity teste	d according to EN 125	i3-2:2015 a	ccording to	pt. 5.5.2.1 o	n downpipe	3 m			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN75 vertical	1,7 (35 mm)	0,9	3,5	6,8	9,9	13,2	15,0	15,1	15,2
DN110 vertical	4,5 (35 mm)	1,0	4,1	7,3	10,7	14,5	18,3	23,2	29,4
DN125 vertical	7,0 (45 mm)	1,0	4,1	6,9	10,2	14,0	17,7	22,4	27,7
DN160 vertical	8.1 (45 mm)	1.0	4.2	7.1	10.3	14.1	18.0	22.6	28.4



HL62B Roof drain, walkable HL62.1B Roof drain like HL62B, but with electrical heating

Data

Material PP, drain body thermal insulated

Outlet vertical

Extension PP, 150 x 150 mm, adjustable in

length

Sealing flange PP with stainless steel clamp ring

Inlet Stainless steel grate,

137 x 137 mm

Standard EN 1253

Load classification K3, max. 300 kg

Recommended for Polymer sheeting, walkable flat

roofs

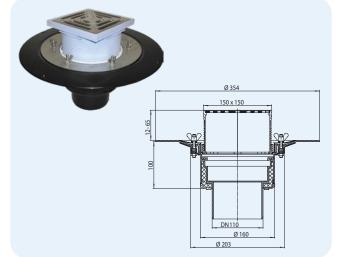
Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

HL62.1B: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover, 6 pcs. HL062N.4E

hex nut alternative to wing nuts





HL-No. 62B/7	Dimension DN75	Weight 1803 g	EAN +836253	Piece/package 1	Type Standard
62.1B/7	DN75	1943 g	+832514	1	with heating
62B/1	DN110	1782 g	+806256	1	Standard
62.1B/1	DN110	1922 g	+802517	1	with heating
62B/2	DN125	1777 g	+816255	1	Standard
62.1B/2	DN125	1917 g	+812516	1	with heating
62B/5	DN160	1811 g	+826254	1	Standard
62.1B/5	DN160	1951 g	+822522	1	with heating

HL62BH Roof drain walkable, with bitumen membrane HL62.1BH Roof drain like HL62BH, but electrically heated

Data

Material PP, drain body thermal insulated

Outlet vertical

Extension PP, 150 x 150 mm, adjustable in

length

Sealing flange PP, stainless steel, prefabricated

welded bitumen membrane

Inlet Stainless steel grate, 137 x 137 mm

Standard EN 1253

Load classification K3, max. 300 kg

Recommended for Bitumen sheeting;

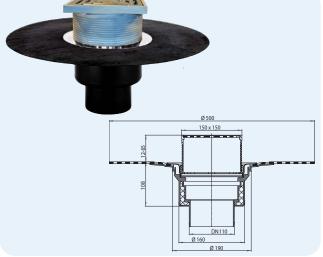
walkable flat roofs

Additional Notch dimension: 255 x 380 mm information Tap hole dimension: \emptyset 255 mm

HL62.1BH: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





Drainage table Tested according Drainage capacity test	g to EN 1253-2:2	015 acc	ording to	pt. 5.5.2			b)
Nominal width	DIN EN 1253	5mm	15 _{mm}	$25\mathrm{mm}$	$35\mathrm{mm}$	45 mm	55 r
DN75 vertical	1,7 (35 mm)	0,70	1,85	4,60	7,40	10,25	-
DN110 vertical	4,5 (35 mm)	0,80	1,80	3,70	6,45	9,15	9,3

DINTIO Vertical	4,5 (35 11111)	0,00	1,00	3,70	0,45	9,15	9,35	9,40	9,00
DN125 vertical	7,0 (45 mm)	0,65	1,85	3,65	5,10	6,05	7,75	8,10	8,50
DN160 vertical	8,1 (45 mm)	0,80	2,10	4,20	5,95	6,95	7,50	7,85	8,00
Drainage capacity me	asured according to E	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
Nominal width DN75 vertical	DIN EN 1253 0,8 (35 mm)	5 mm 0,70	15mm 2,00	20 mm 3,10	35 mm 3,95	45 mm 4,10	55 mm 4,15	65 mm 4,40	75 mm 4,45
								• • • • • • • • • • • • • • • • • • • •	

65 mm

75 mm

0 60

HL-No. 62BH/7 62.1BH/7 62BH/1	Dimension DN75 DN75 DN110	Weight 2104 g 2244 g 2083 g	EAN +846221 +802128 +816224	Piece/package 1 1 1	Type Standard with heating Standard
62.1BH/1	DN110	2223 g	+812127	1	with heating
62BH/2	DN125	2078 g	+826223	1	Standard
62.1BH/2	DN125	2218 g	+822126	1	with heating
62BH/5	DN160	2112 g	+836222	1	Standard
62.1BH/5	DN160	2252 g	+832125	1	with heating



HL62P Roof drain with PVC-flange HL62.1P Roof drain like HL62P, but electrically heated

Data

Material PP, PVC,

drain body thermal insulated

Sealing flange PVC, weldable with hot air Inlet Leaf catcher Ø 170 mm

Standard EN 1253

Recommended for PVC-sheeting

Additional Notch dimension: $255 \times 380 \text{ mm}$ information Tap hole dimension: \emptyset 255 mm

HL62.1P: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





HL-No. 62P/7	Dimension DN75	Weight 1307 g	EAN +022144	Piece/package	Type Standard
62.1P/7	DN75	1447 g	+022205	1	with heating
62P/1	DN110	1286 g	+022090	1	Standard
62.1P/1	DN110	1426 g	+021925	1	with heating
62P/2	DN125	1281 g	+022113	1	Standard
62.1P/2	DN125	1421 g	+022168	1	with heating
62P/5	DN160	1315 g	+022120	1	Standard
62 1P/5	DN160	1544 a	+022182	1	with heating

HL62F Roof drain with PP-flange HL62.1F Roof drain like HL62F, but electrically heated

Data

Material PP, drain body thermal insulated

Sealing flange PP, weldable with hot air Inlet Leaf catcher Ø 170 mm

Standard EN 1253

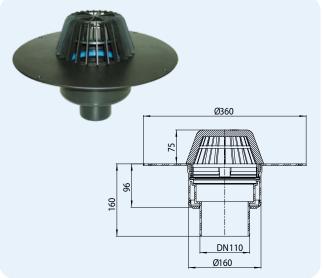
Recommended for FPO-sheeting, based on PP

Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

HL62.1F: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





HL-No.	Dimension	Weight	EAN	Piece/package	Type	
62F/7	DN75	1307 g	+031740	1	Standard	
62.1F/7	DN75	1447 g	+031825	1	with heating	
62F/1	DN110	1286 g	+031726	1	Standard	
62.1F/1	DN110	1426 g	+031788	1	with heating	
62F/2	DN125	1281 g	+031764	1	Standard	
62.1F/2	DN125	1421 g	+031801	1	with heating	

Drainage table HL62P, HL62.1P, HL62F, HL62.1F Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

brainage capacity tested according to Etv 1255-2.2015 according to pt. 5.5.2.1 on downpipe 5 in									
Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm
DN75 vertical	1,7 (35 mm)	0,55	2,30	4,50	7,40	10,60	12,85	16,30	16,30
DN110 vertical	4,5 (35 mm)	0,65	2,50	5,00	7,85	11,45	15,20	19,20	23,60
DN125 vertical	7,0 (45 mm)	0,65	2,50	4,90	7,50	10,75	14,40	18,70	23,10
D11400 II I	0.4 (45)	0.55	0.55	4.05	7 70	44.40	44.50	40.00	00.00



HL62BP Roof drain with PVC-flange, walkable HL62.1BP Roof drain like HL62BP, but electrically heated

Data

Material PP, PVC,

drain body thermal insulated

Extension PP, 150 x 150 mm, adjustable in

length

PVC, weldable with hot air Sealing flange

Inlet Stainless steel grate, 137 x 137 mm

EN 1253 Standard Load classification K3, max. 300 kg Recommended for PVC-sheeting,

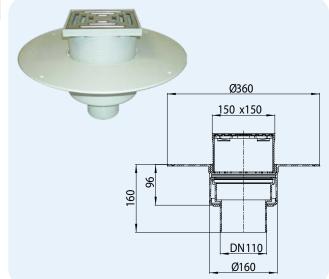
walkable flat roofs

Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

> HL62.1BP: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





					_
HL-No.	Dimension	Weight	EAN	Piece/package	Type
62BP/7	DN75	1603 g	+022311	1	Standard
62.1BP/7	DN75	1743 g	+022397	1	with heating
62BP/1	DN110	1582 g	+022250	1	Standard
62.1BP/1	DN110	1722 g	+022335	1	with heating
62BP/2	DN125	1577 g	+022274	1	Standard
62.1BP/2	DN125	1717 g	+022359	1	with heating
62BP/5	DN160	1611 g	+022298	1	Standard
62.1BP/5	DN160	1751 g	+022373	1	with heating

HL62BF Roof drain with PP-flange, walkable HL62.1BF Roof drain like HL62BF, but electrically heated

Data

Material

Extension PP, 150 x 150 mm, adjustable in

length

Sealing flange PP, weldable with hot air

Inlet Stainless steel grate, 137 x 137 mm

Standard Load classification K3, max. 300 kg

FPO-sheeting, based on PP, Recommended for

walkable flat roofs

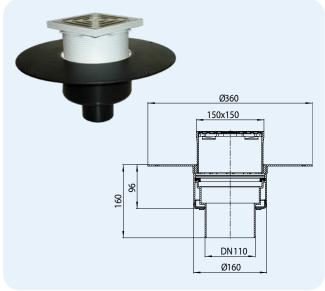
Additional Notch dimension: 255 x 380 mm information

Tap hole dimension: Ø 255 mm

HL62.1BF: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Lid cover Including





Drainage table HL62BP, HL62.1BP, HL62BF, HL62.1BF Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b)

Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m										
Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35mm	$45\mathrm{mm}$	55 mm	65 mm	75 mm	
DN75 vertical	1,7 (35 mm)	0,70	1,85	4,60	7,40	10,25	-	-	-	
DN110 vertical	4,5 (35 mm)	0,80	1,80	3,70	6,45	9,15	9,35	9,40	9,60	
DN125 vertical	7,0 (45 mm)	0,65	1,85	3,65	5,10	6,05	7,75	8,10	8,50	
DN160 vertical	8,1 (45 mm)	0,80	2,10	4,20	5,95	6,95	7,50	7,85	8,00	
Drainage capacity me	asured according to E	N 1253-2:2	015 accordi	ng to clause	e 5.5.1.2 fre	e draining				
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35mm	45 mm	55 mm	65 mm	75 mm	
DN75 vertical	0,8 (35 mm)	0,70	2,00	3,10	3,95	4,10	4,15	4,40	4,45	
DN110 vertical	1,4 (35 mm)	0,45	1,80	2,60	3,90	4,55	5,00	5,55	5,90	
DN125 vertical	2,8 (45 mm)	0,50	1,65	2,65	3,70	4,20	4,65	5,05	5,40	
DN160 vertical	4.0 (45 mm)	0.50	1.75	2.75	3.80	4.20	4.75	5.00	5.40	

HL-No.	Dimension	Weight	EAN	Piece/package	Type
62BF/7	DN75	1603 g	+031344	1	Standard
62.1BF/7	DN75	1743 g	+031849	1	with heating
62BF/1	DN110	1582 g	+031351	1	Standard
62.1BF/1	DN110	1722 g	+031863	1	with heating
62BF/2	DN125	1577 g	+031368	1	Standard
62.1BF/2	DN125	1717 g	+031887	1	with heating



HL64 Roof drain with thermal insulation HL64.1 Roof drain like HL64, but electrically heated

Data

Material PP, drain body thermal insulated Sealing flange PP with stainless steel clamp ring

Leaf catcher Ø 170 mm Inlet

Standard EN 1253

Recommended for Polymer sheeting

Additional Notch dimension: 260 x 380 mm

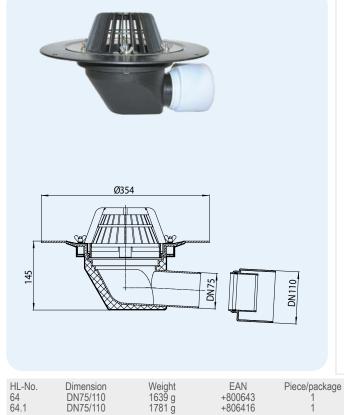
information

HL64.1: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Lid cover, 6 pcs. HL062N.4E Including

hex nut alternative to wing nuts





HL-No.	Dimension
64	DN75/110
64.1	DN75/110

EAN +800643 +806416

Type Standard with heating

HL64H Roof drain with bitumen membrane HL64.1H Roof drain like HL64H, but electrically heated

Data

Material PP, drain body thermal insulated

Sealing flange PP, Stainless steel, prefabricated welded bitumen membrane

Inlet Leaf catcher Ø 170 mm

Standard EN 1253

Recommended for Bitumen sheeting

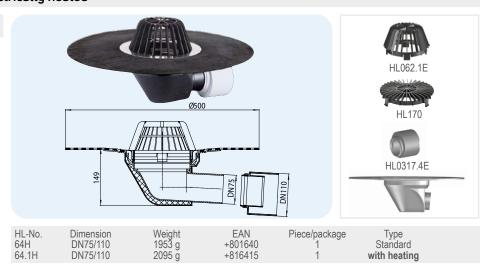
Additional Notch dimension: 260 x 380 mm

information

HL64.1H: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover



Drainage table H Tested according Drainage capacity teste	to EN 1253-2:20	15 acco	rding to p		•	, ,			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 75 horizontal	1,7 (35 mm)	0,90	3,80	6,00	10,00	13,50	16,50	16,70	16,80
DN 110 horizontal	4 E /2E mm)	0.00	2 90	E 10	6.00	6 50	6 50	6 60	6 50



HL64B Roof drain walkable HL64.1B Roof drain like HL64B, but electrically heated

Data

Material PP, drain body thermal insulated PP, 150 x 150 mm, adjustable in Extension

Sealing flange PP with stainless steel clamp ring Inlet Stainless steel grate, 137 x 137 mm

EN 1253 Standard Load classification K3, max. 300 kg

Recommended for Polymer sheeting, walkable flat

roofs

Additional Notch dimension: 260 x 380 mm

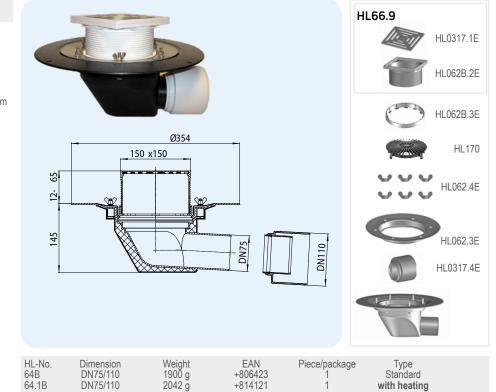
information

HL64.1B: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover, 6 pcs. HL062N.4E

hex nut alternative to wing nuts



HL64BH Roof drain walkable, with bitumen membrane HL64.1BH Roof drain like HL64BH, but electrically heated

Data

Material PP, drain body thermal insulated PP, 150 x 150 mm, adjustable in Extension

length

PP, Stainless steel, prefabricated welded **bitumen membrane** Sealing flange

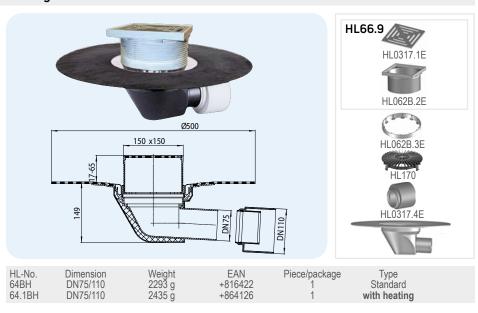
Inlet Stainless steel grate, 137 x 137 mm EN 1253 Standard

K3, max. 300 kg Load classification Recommended for Bitumen sheeting; walkable flat roofs

Notch dimension: 260 x 380 mm HL64.1BH: heated type with self-adjusting heat source for the connection to a 230 V power grid Additional information

(10 - 30 Watt)

Including Lid cover



Drainage table HL64B, HL64.1B, HL64BH, HL64.1BH Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9 Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m									
Nominal width	DIN EN 1253	5 mm	15mm	25 mm	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm
DN75 horizontal	1,7 (35 mm)	0,55	1,80	4,00	6,50	9,55	-	-	-
DN110 horizontal	4,5 (35 mm)	0,60	1,90	3,45	3,85	4,15	4,50	4,70	4,80
Drainage capacity me	asured according to El	N 1253-2:2	015 accord	ing to claus	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15mm	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN75 horizontal	0,8 (35 mm)	0,65	1,85	2,95	3,65	3,85	3,90	4,00	4,05
DN110 horizontal	1,4 (35 mm)	0,55	1,80	3,05	3,65	3,85	3,95	4,10	4,15



HL64P Roof drain with PVC-flange HL64.1P Roof drain like HL64P, but electrically heated

Data

Material PP, PVC,

drain body thermal insulated

Sealing flange PVC, weldable with hot air Inlet Leaf catcher Ø 170 mm

Standard EN 1253
Recommended for PVC-sheeting

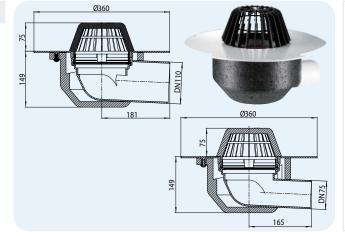
Additional Notch dimension: 260 x 380 mm

information

HL64.1P: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





HL062.1E

HL170

Type	Piece/package	EAN	Weight	Dimension	HL-No.
Standard	1	+031405	1739 g	DN75	64P/7
with heating	1	+031443	1881 g	DN75	64.1P/7
Standard	1	+031429	1739 g	DN110	64P/1
with heating	1	+031467	1881 a	DN110	64 1P/1

HL64F Roof drain with PP-flange HL64.1F Roof drain like HL64F, but electrically heated

Data

Material P

drain body thermal insulated

Sealing flange PP, weldable with hot air Inlet Leaf catcher Ø 170 mm

Standard EN 1253

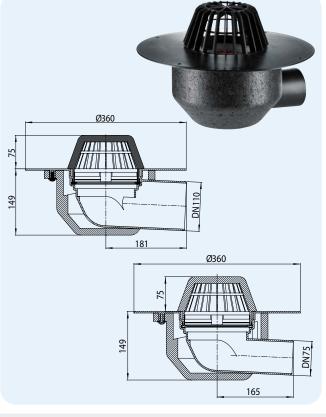
Recommended for FPO-sheeting, based on PP
Additional Notch dimension: 260 x 380 mm

information

HL64.1F: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





55 mm 65 mm 75 mm DN 75 horizontal 0.65 2.50 17.60 1.7 (35 mm) 4.40 6.90 10.30 13.60 17.15 DN 110 horizontal 4,5 (35 mm) 0,60 2,70 5,10 7,80 24,20



HL64BP Roof drain with PVC-flange, walkable HL64.1BP Roof drain like HL64BP, but electrically heated

Data

PP, PVC, Material

drain body thermal insulated

PP, 150 x 150 mm, adjustable in Extension

length

PVC, weldable with hot air Sealing flange

Inlet Stainless steel grate, 137 x 137 mm

EN 1253 Standard Load classification K3, max. 300 kg Recommended for

PVC-sheeting, walkable flat roofs

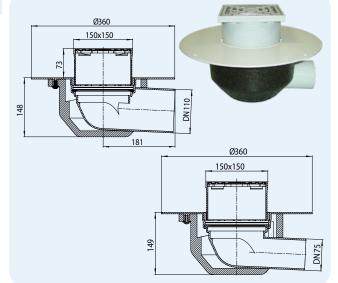
Additional Notch dimension: 260 x 380 mm

information

HL64.1BP: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





HL66.9

HL0317.1E

HL062B.2E

HL64BF Roof drain with PP-flange, walkable HL64.1BF Roof drain like HL64BF, but electrically heated

Data

Material

drain body thermal insulated

PP, 150 x 150 mm, adjustable in Extension

length

Sealing flange PP. weldable with hot air

Stainless steel grate, 137 x 137 mm Inlet

Standard EN 1253 Load classification K3, max. 300 kg

Recommended for FPO-sheeting, based on PP,

walkable flat roofs

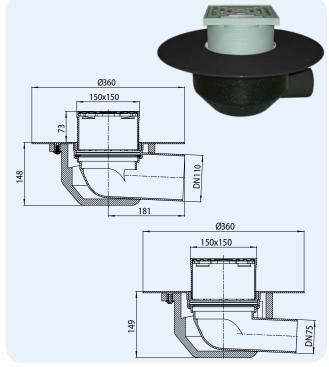
Additional Notch dimension: 260 x 380 mm

information

HL64.1BF: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





Drainage table HL64BP, HL64.1BP, HL64BF, HL64.1BF

Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9

Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

	_	- '								
Nominal width	DIN EN 1253	5mm	15mm	$25\mathrm{mm}$	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm	
DN75 horizontal	1,7 (35 mm)	0,55	1,80	4,00	6,50	9,55	-		-	
DN110 horizontal	4,5 (35 mm)	0,60	1,90	3,45	3,85	4,15	4,50	4,70	4,80	
Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining										
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN75 horizontal	0,8 (35 mm)	0,65	1,85	2,95	3,65	3,85	3,90	4,00	4,05	
DN110 horizontal	1,4 (35 mm)	0,55	1,80	3,05	3,65	3,85	3,95	4,10	4,15	

HL-No.	Dimension	Weight	EAN Pied	Type	
64BF/7	DN75	2000 g	+031603	1	Standard
64.1BF/7	DN75	2142 g	+031566	1	with heating
64BF/1	DN110	2000 g	+031627	1	Standard
64.1BF/1	DN110	2142 g	+031580	1	with heating



HL64HPower Power roof drain with bitumen flange HL64PPower Power roof drain with PVC-flange HL64FPower Power roof drain with PP-flange

Data

Material HL64HPower: PP. bitumen

HL64PPower: PP, PVC HL64FPower: PP. PP

Flange HL64HPower: Pre-mounted bitumen

membrane

HL64PPower: Fixed PVC-flange

for hot air

HL64FPower: Fixed PP-flange for

hot air

Inlet Crewed leaf catcher diameter

240mm

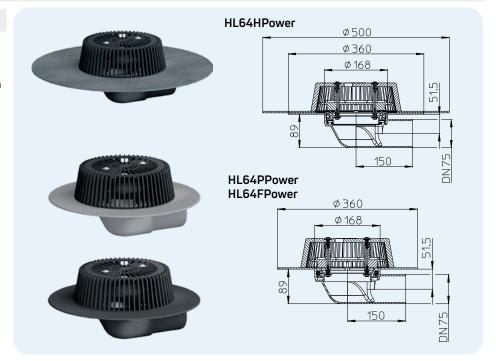
Standard EN 1253

Recommended for Installation in thermo-insulations

min. 120mm, high capacity alternative for attica drains

Additional information Notch dimension 180mm x 260mm

Including Lid cover



Drainage table HL64HPower, HL64PPower, HL64FPower
Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b)
Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width DIN EN 1253 5 mm 15 mm 25 mm 35 mm 45 mm 55 mm 65 mm 75 mm DN 75 horizontal 1,7 (35 mm) 0,70 3,20 7,30 12,00 15,60 16,00 16,00

 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 64HPower
 DN75
 3817 g
 +040797
 1

 64PPower
 DN75
 2920 g
 +040810
 1

 64FPower
 DN75
 2646 g
 +040780
 1

HL63 Roof drain "Drainbox", with thermal insulation HL63.1 Roof drain like HL63, but electrically heated

Data

Capacity HL63/7, HL63.1/7: 8,60 l/s

HL63/1, HL63.1/1: 8,70 l/s HL63/2, HL63.1/2: 12,20 l/s

Material PP, Drain body with thermal

insulation and adjustable in height

Connection HL63/7, HL63.1/7: DN75 dimension HL63/1, HL63.1/1: DN110 HL63/2, HL63.1/2: DN125

Outlet vertical

Sealing flange PP with stainless steel clamp ring

Inlet Leaf catcher Ø 170 mm

Standard EN 1253

Recommended for Polymer sheeting;

for the installation in thermal insulation plates from 100 - 160

mm

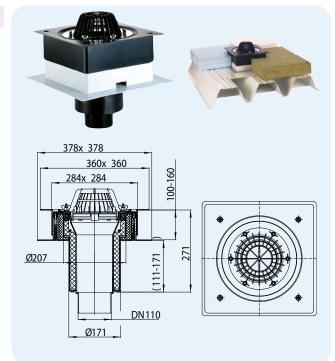
Additional Notch dimension: 255 x 400 mm information Tap hole dimension: Ø 255 mm

HL63.1: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover, 6 pcs. HL062N.4E

hex nut alternative to wing nuts





HL-No.	Dimension	Weight	EAN	Piece/package	Type	
3/7	DN75	3054 g	+806300	1	Standard	
3.1/7	DN75	3173 g	+806317	1	with heating	
3/1	DN110	3078 g	+816309	1	Standard	
3.1/1	DN110	3197 g	+816316	1	with heating	
3/2	DN125	3098 g	+826308	1	Standard	
3.1/2	DN125	3217 g	+826315	1	with heating	



HL63H Roof drain "Drainbox" with bitumen membrane HL63.1H Roof drain like HL63H, but electrically heated

Data

Capacity HL63H/7, HL63.1H/7: 8,60 l/s

HL63H/1, HL63.1H/1: 8,70 l/s HL63H/2, HL63.1H/2: 12,20 l/s

Material PP, Drain body with thermal

insulation and adjustable in height

Connection HL63H/7, HL63.1H/7: DN75 dimension HL63H/1, HL63.1H/1: DN110

HL63H/2, HL63.1H/2: DN125

Outlet vertica

Sealing flange PP, Stainless steel, prefabricated

welded bitumen membrane

Inlet Leaf catcher Ø 170 mm

Standard EN 1253

Recommended for Bitumen sheeting; for the

installation in thermal insulation

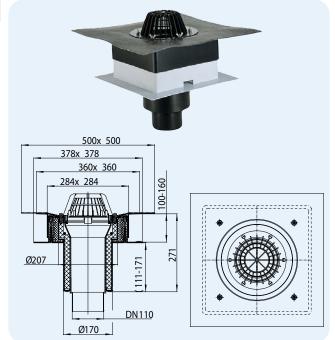
plates from 100 - 160 mm

Additional Notch dimension: 255 x 400 mm information Tap hole dimension: Ø 255 mm

HL63.1H: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





HL-No.	Dimension	Weight	EAN	Piece/package	Type
63H/7	DN75	3571 g	+806324	1	Standard
63.1H/7	DN75	3690 g	+806331	1	with heating
63H/1	DN110	3595 g	+816323	1	Standard
63.1H/1	DN110	3714 g	+816330	1	with heating
63H/2	DN125	3615 g	+826322	1	Standard
63.1H/2	DN125	3734 g	+826339	1	with heating

HL63P Roof drain "Drainbox" with PVC-flange HL63.1P Roof drain like HL63P, but electrically heated

Data

Material

Capacity HL63P/7, HL63.1P/7: 6,48 l/s

HL63P/1, HL63.1P/1: 5,82 l/s HL63P/2, HL63.1P/2: 9,25 l/s

Drain body with thermal insulation

and adjustable in height

Connection HL63P/7, HL63.1P/7: DN75 dimension HL63P/1, HL63.1P/1: DN110

HL63P/2, HL63.1P/2: DN125

Outlet vertical

Sealing flange PVC, weldable with hot air

Inlet Leaf catcher Ø 170 mm

Standard EN 1253

Recommended for PVC-sheeting for the installation

in thermal insulation plates from

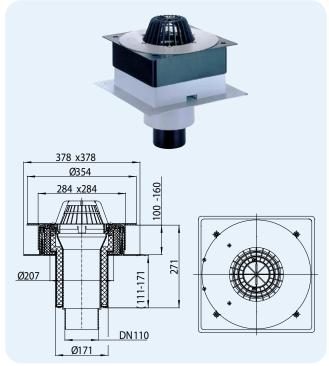
100 – 160 mm

Additional Notch dimension: 255 x 400 mm information Tap hole dimension: Ø 255 mm

HL63.1P: heated type with self-adjusting heat source for the connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover



HL-No. 63P/7 63.1P/7 63P/1 63.1P/1 63P/2 63.1P/2	Dimension DN75 DN75 DN110 DN110 DN125 DN125	Weight 2779 g 2898 g 2803 g 2922 g 2823 g 2942 g	EAN +806348 +806355 +816347 +816354 +826346 +826353	Piece/package 1 1 1 1 1 1 1	Type Standard with heating Standard with heating Standard with heating	



HL69 Roof renovation drain

Data

Material

Sealing flange PP with stainless steel clamp ring

Inlet Leaf catcher Ø 170 mm

Recommended for Polymer sheeting;

for the simple and quick renovation

of the old drainage system

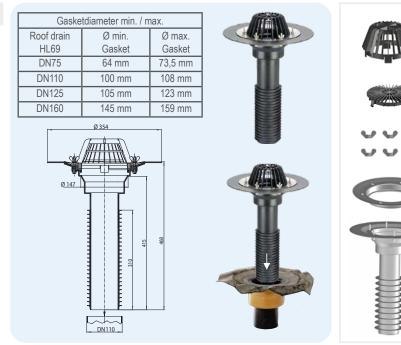
Easily to be plugged into the body Additional information of the old drain with vertical outlet

> - ready installed. Fits excactely into the old pipes with the prefabricated

lip-gaskets.

Lid cover, 6 pcs. HL062N.4E Including

hex nut alternative to wing nuts



HL-No.	Dimension	Weight	EAN	Piece/package
69/7	for DN75	1523 g	+000580	1
69/1	for DN110	1781 g	+004515	1
69/2	for DN125	1877 g	+004522	1
69/5	for DN160	2265 g	+008261	1

HL69H Roof renovation drain with bitumen membrane

Data

Material

PP, prefabricated welded bitumen Sealing flange

membrane

Leaf catcher Ø 170 mm Inlet

Recommended for Bitumen sheeting;

for the simple and quick renovation

of the old drainage system

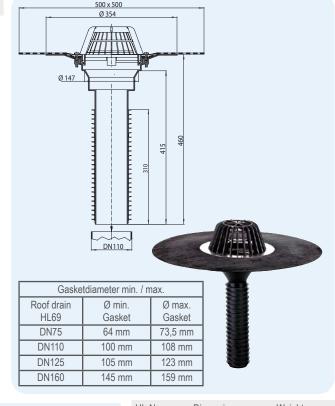
Additional Easily to be plugged into the body information of the old drain with vertical outlet

- ready installed. Fits excactely into

the old pipes with the prefabricated

lip-gaskets.

Including Lid cover





HL062.1E

HL170

HL062.4E

HL062.3E

Drainage table HL69, HL69H
Tested according to EN 1253-2:2015 according

to pt. 5.5.2.1 Fig. 10a) + 10b) Drainage canacity tested according to EN 1253-2-2015 according to

Drainage capacity teste	braining capacity to total according to ETV 1200 2.2010 according to pt. 0.0.2.1 off downpipe of th									
Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN75 vertical	1,7 (35 mm)	0,80	3,60	6,80	9,70	12,90	13,30	13,50	13,60	
DN110 vertical	4,5 (35 mm)	0,90	3,90	6,90	9,60	12,50	15,50	17,50	22,30	
DN125 vertical	7,0 (45 mm)	0,90	4,30	7,50	10,90	14,20	18,50	23,00	24,30	
DN160 vertical	8,1 (45 mm)	1,00	4,30	7,40	10,70	15,00	19,00	22,70	29,80	

HL-No.	Dimension	Weight	EAN	Piece/package
69H/7	für DN75	2074 g	+004539	1
69H/1	für DN110	2332 g	+004546	1
69H/2	für DN125	2428 g	+004553	1
69H/5	für DN160	2816 g	+008285	1



HL69P Roof renovation drain with PVC-flange

Data

PP, PVC Material

PVC, weldable with hot air Sealing flange Leaf catcher Ø 170 mm Inlet

Recommended for PVC-sheeting;

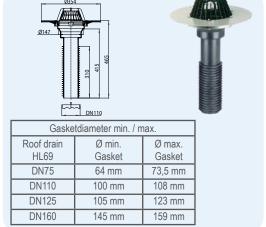
for the simple and quick renovation of the old

drainage system.

Easily to be plugged into the body of the old drain Additional with vertical outlet - ready installed. Fits excactely information

into the old pipes with the prefabricated lip-gaskets.

Including Lid cover





HL-No.	Dimension	Weight	EAN	Piece/package
69P/7	for DN75	2103 g	+022663	1
69P/1	for DN110	2461 g	+022601	1
69P/2	for DN125	2557 g	+022625	1
69P/5	for DN160	2845 g	+022649	1
69P/5	for DN160	2845 g	+022649	1

HL80.3 Roof drain with continuously variable outlet

Data

PP, PE Material

Connection DN50/75 crosscutable

dimension

Outlet convertable from horizontal to vertical, Material PE,

pluggable and weldable

Leaf catcher Ø 110 mm Inlet

FN 1253 Standard

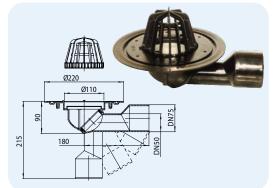
Recommended for Roof areas up to 33 m² and rain yield factor

of 300 l/ (s x ha)

Additional

Tap hole dimension Ø 185 mm information

Including Lid cover





HL0300.0EN

HL-No. DN50/75 +908035

HL080.8E

HL80K

HL80.3H Roof drain with continuously variable outlet and bitumen membrane

Data

Material

Connection dimens. DN50/75 adjustable in length

convertable from horizontal to vertical, Material PE, Outlet

pluggable and weldable

PP, prefabricated welded bitumen membrane Sealing flange

Leaf catcher Ø 110 mm Inlet

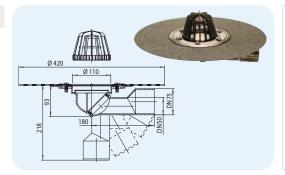
Standard

Bitumen sheeting, Roof areas up to 33 m² and rain Recommended for

yield factor of 300 l/ (s x ha) Tap hole dimension Ø 185 mm

Additional information

Including Lid cover





HL-No.	Dimension	Weight	EAN	Piece/package
80.3H	DN50/75	550 g	+918034	1

Drainage table HL69P
Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b)
Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN75 vertical	1,7 (35 mm)	0,80	2,70	4,90	7,90	11,00	13,30	13,50	13,60	
DN110 vertical	4,5 (35 mm)	0,80	2,80	5,10	8,10	11,70	15,50	19,00	23,90	
DN125 vertical	7,0 (45 mm)	0,80	2,80	5,20	8,30	11,80	15,50	19,50	24,00	
DN160 vertical	8,1 (45 mm)	0,80	2,50	5,00	8,00	11,30	14,80	18,90	23,70	

Drainage table HL80.3, HL80.3H
Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9
Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35mm	45 mm	55 mm	65 mm	75 mm	
DN 50	0,9 (35 mm)	0,65	1,25	1,35	4,80	6,15	6,30	6,35	6,40	
DN75	1,7 (35 mm)	0,55	1,45	2,50	2,80	-	-	-	-	
Drainage capacity me	Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining									
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN 50	0,8 (20 mm)	0,35	1,45	1,50	1,55	1,60	1,70	1,75	1,80	
DN75	0,8 (20 mm)	0,50	1,35	1,60	1,80	1,95	2,00	2,10	2,20	



HL65 Extension

Data

Material PP DN125 Connection

dimension

Outlet vertical

Sealing flange PP with stainless steel clamp ring

Recommended for Polymer sheeting;

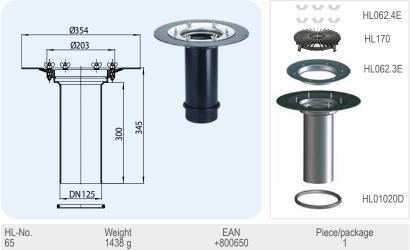
fits to HL62(.1)(H), HL64(.1)(H)

Additional incl. backflow gasket

information

Including 6 pcs. HL062N.4E

hex nut alternative to wing nuts



HL65H Extension with bitumen membrane

Data

PP Material DN125 Connection

dimension

Outlet vertical

Sealing flange PP, prefabricated welded bitumen membrane

Recommended for Bitumen sheeting Additional incl. backflow gasket

information



HL65P Extension with PVC-flange

Data

Material PVC Connection DN125

dimension

Outlet vertical

Sealing flange PVC, weldable with hot air

Recommended for **PVC-sheeting** Additional incl. backflow gasket

information



HL65F Extension with PP-flange **HL65PE** Extension with PE-flange

Data

HL65F: PP Material

HL65PE: PE DN125

Connection

dimension

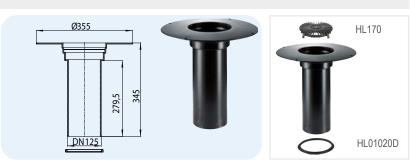
Outlet vertical

Sealing flange PP resp. PE, weldable by hot air HL65F: FPO-sheeting, based on PP Recommended for

HL65PE: FPO-sheeting, based on PE

Additional incl. backflow gasket

information



HL-No. EAN Piece/package 65F 65PE +031900 +017126



HL Roof drains - Accessories - Data

HL635N Drainage and inspection chamber for green, gravel and terrace roofs HL635N.0 Drainage and inspection chamber for green, gravel and terrace roofs, without grate

HL-No.

635N.0

Data

Installation height 70 -205 mm Material EPS-230 / PP

Dimensions frame outer dimensions: 390 x 390 mm

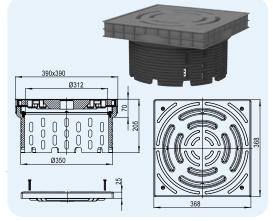
inlet grate: 368 x 368 x 25 mm, 4 x screwed,

part can be cut to length: Ø 350 mm

plastic inlet grate K3 (300 kg) Load class

DIN 1986-3 Standard

Additional For easy inspection and maintenance of information roof drains on green, gravel and terrace roofs



EAN +032228 Grate Piece/package with without

HL636N Extension element for drainage and inspection chamber HL635N

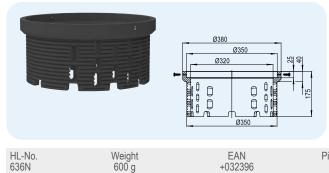
Data

Installation height 25 - 150 mm EPS-230 Material See tech. Drawing Dimensions DIN 1986-3 Standard

Additional For extension of the drainage and inspection chamber HL635N. The information

chamber can be extended to any length by connecting two or more

extension elements.



+032396

Weight 2151 g 1178 g

Piece/package

HL0636N.6E

HL0635N.1

HL635N.0

HL0635N.2 Galvanized steel grating for drainage and inspection chamber HL635N.0

636N

Data

Galvanized sheet steel Material 368 x 368 x 25 mm Dimensions Load class L15 or A15 - max 1,5 t

Additional For surfaces with high load demands

information

roomanahaanaanaa , HL-No. Piece/package

EAN 635N.2 +006199

HL0635N.3 Closed plastic lid for drainage and inspection chamber HL635N.0

Data

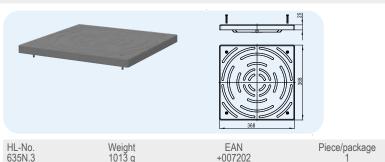
Material PP (polypropylene) 368 x 368 x 25 mm. Dimensions

4 x screwable

Load class K3 (300 kg)

Additional Specially designed for retention roofs

with rain retention information





HL160 Gravel guard for inverted roofs

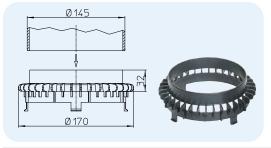
Data

Material PP

Additional for installation between drain flange and extension, information to drain enough water in the second drainage level,

e.g. inverted roofs. Fits to drain series HL62, HL63,

HL64, HL69 and extension HL350(.0)



HL-No. Dimension 160 Ø 170 mm

Weight 53 g

EAN +001606 Piece/Package

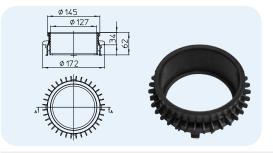
HL161 Drainage element for series HL65

Data

Material PP

Additional information

for installation between drain flange and extension HL65-series, to drain water on the second drainage level or on the vapour barrier, e.g. at aered roofs. Fits to drain series HL62, HL63, HL64, HL69 and extension HL65.



HL-No.

Dimension Ø 172 mm Weight 134 g EAN +034772 Piece/Package

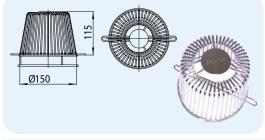
HL175 Stainless steel leaf catcher

Data

Material Stainless steel 1.4301

Additional information

Fits to all HL roof drains and extensions



HL-Nr.

Dimension Ø 150 mm Weight 520 g

EAN +018031 Piece/Package

HL603 Flap seal for external downpipes

Data

Outlet

Capacity DN110 and DN160: 6l/s

Material PF

Connection HL603/1: DN110

HL603/5: DN160

HL603/1: DN110

HL603/5: DN160

Recommended for Avoids stench, coming up the downpipe, e.g. for

roof drains, which are connected to the sewer

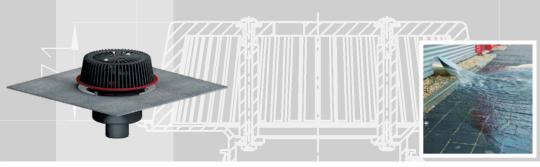
Additional Only for vertical installation, care for access for

information cleaning!



 HL-Nr.
 Dimension
 Weight
 EAN being control of the con

500 x 500 Ø 262









HL Safety drainage

Ø 354









Basic information on planning and implementation

Why do I need safety drains?

Basically rain water on flat roofs is being lead away by roof gullies. Either as conventional gravity drainage or as vacuum roof drainage. The dimensioning and planning is based on an average 5-year rainfall intensity (I/(s x ha). Should the rainfall exceed the previous mentioned base (because of higher rain intensity during a 100 year rain event), rain water will not be drained anymore. In that case an independent safety drain should be installed, in order to reliably lead off the coming up rainfall.

The safety drain covers exceptional events like this and protects the roof construction (including any connected structural damage). Usually those thoughts are being neglected by the relevant/responsible people. Should a safety drain be undersized or not even be installed during an extraordinary rain event it can lead to an increase of the water level on the roof surface. For example pulling up of the sealing. The seeping in of water follows and leads to hidden damages and enormous repair costs. Not even to talk about the worst case scenario: break down of the roof construction!

Where do I find the regulations for planning and implementation of a safety drain?

In Austira there is a regulation called ÖNORM B 2501:2014, also EN...... ÖNORM B 2501:2014, Extracts:

5.10 Drainage of roofs and site areas

5.10.1 Rated rainfall intensity

Usually the roof drainage is based on a 5-minute rain event with a return frequency of 5 years. The calculated rain fall intensity, with respect to the relevant location, can be taken from the data of the Federal Ministry of Agriculture and Forestry, Environment and Water Management under http://ehyd.gv.at (parameters and measurements). They have to be recalculated to I/(s • ha).

The minimum rainfall intensity for roof surfaces and site areas is being set at 300 l/(s • ha).

The measurement of the roof drainage is made according to ÖNORM EN 12056-3:2000, part 4.1. Same approach for property drainage.

5.10.5.1 Safety overflow, safety drains

5.10.5.1 General information

Roofs and terraces with inward drainage, in addition to each single individual area (for a rain intensity according to 5.10.1) should be provided with an emergency overflow and drainage. The goal is to cover a minimum sum of all individual areas according to 5.10.2. Should a roof or terrace surface be established with more than two outlets each, it is possible to dimension one or more of the partial surfaces as a safety drain. Within buildings, safety drains are to be drained separate to the roof drainage (according to 5.10.1). While positioning the safety drains, the existing connection heights of the rising components and, if needed, the necessary accumulation height of the drainage system, have to be taken into consideration.

The safety drain must never be connected to any wastewater pipes.

Exceptions are: existing buildings, where the roof drainage had and has to be lead into a mixed water pipe. A mathematical prove of the system performance must be made. The drainage system as well as the safety overflow and drain system are supposed to work together and provide a drainage, concerning an expected 5 minute rain event with a return frequency of a 100 years r (5,100)



• How do I calculate the minimum flow of a safety drain?

Based on an example, we would like to show you how to calculate your safety drain system. Please note the following:

Basic Details

Building Location: Himberg bei Wien

Roof Dimensions: 55 m x 20 m

Roof Surface: 1100 m²

Type of Roof: Flat Roof with attic, slope: 2% Allowed Roof Load / Snow Load: 0,884 kN/m²

Calculation factor from kN/m² to mm water column = 101,974 428 892 2

Maximum water level on the roof: 90,14 mm



Water output values of the roof drains are being checked for gravity drainage according to EN1253-2:2015 (table 3) to DN110 with a 35 mm and DN125 + DN150 with 45 mm water level.

For a drainage with pressure flow the water level is to be set to a height of 55mm.

Rated rainfall intensity is based on the data of http://ehyd.gv.at ffor a 5 minute rain event with the following return frequency $r_{(5,5)} = 446,66 \text{ l/(s} \cdot \text{ha)}$

The return frequency for a 5 minute rain event during an average ot 100 years has been set to $r(5,100) = 836,66 \text{ I/(s} \cdot \text{ha})$

The minimum flow of the emergency drainage is to be calculated as the following:

$$Q_{\text{not}} = (r_{(5,100)} - r_{(5,5)} \cdot C) \cdot \frac{A}{10000}$$

 Q_{not} Minimum run-off capacity of the emergency drainage in I/s

 $r_{(5,100)}$ 5 minutes-rain event in $l/(s \cdot ha)$ with an interval of recurrence of 100 years = 836,66 $l/(s \cdot ha)$

 $r_{(5,5)}$ 5 minutes-rain event in $l/(s \cdot ha)$ with an interval of recurrence of 5 years = **446,66** $l/(s \cdot ha)$

C Run-off coefficient (without dimension) depending on the roof surface condition = 1

A Effective roof surface in m² = 1100 m²

Q not = (836,66-446,66 . 1) . 0,11 = **42,9** I/s



· What safety drains should be used?

Basically there are a few different technical solutions to ensure any safety drainage. The decision primarily will be taken by the planner. Following you will find 4 different possibilities to implement a safety drain, according to the example on page 3.

Example 1: Rectangular safety overflow via the attic

Calculation of the overflow with according to ÖNORM 2501 and DIN 1986-100

Overflow Volume (I/s) 42,9
Allowed Roof Load (kN/m²) 0,884
Maximum Water Level (mm) 90,14
Water Level of roof outlets (mm) 55
Overflow height (mm) 35,14



$$Q_{\rm W} = \frac{L_{\rm W} \cdot h_{\rm U}^{1.5}}{24\,000}$$
 bzw. $L_{\rm W} = \frac{Q_{\rm W} \cdot 24\,000}{h_{\rm U}^{1.5}}$

 $Q_{\rm w}$ Drain capacity per meter length in l/s,

L_w Length of the overflow in mm

 h_{ij} Maximum planned water level in case of overflow (pressure height) in mm

$$L_{\rm W} = \frac{42.9 \text{ l/s} \cdot 24\ 000}{h_{\rm U}^{1.5}} = 4942,72 \text{ mm} = 4,95 \text{ m}$$

For this example the necessary overflow width was calculated on a base of 4,95 m. Should the slit width be set to 500 mm (as usual), the roof surface will have to be provided with 10 attic outlets, 5 on each of the two longer sides.

Necessary outlets: 10

Example 2: Round safety overflow as water spout via the attic

Overflow Volume (I/s): 42,9 I/s
The drain capacity of a round DN 100 opening
with a 35 mm water level and an inclination of 5° is **1 I/s.**Please see ÖNORM B2501:2015 as pointed out in

Necessary outlets: 44





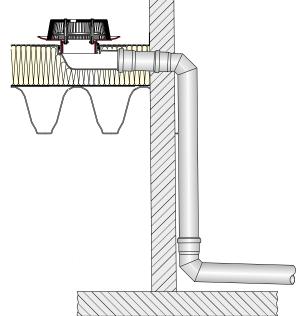
Example 3: Safety drain close to the attic (HL PowerSafe) connected to a 3m down pipe

The drain capacity of the HL PowerSafe system, connected to a 3m down pipe and a water level of 35mm is set to 12 l/s.

Requirement to the safety drainage: 42,9 l/s Performance of 4 PowerSafe drains: 48 l/s

Necessary outlets: 4



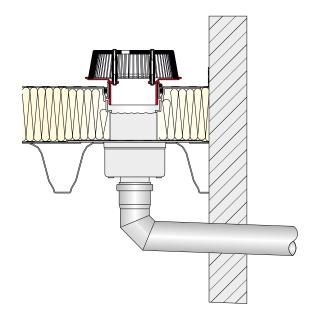


Example 4: Safety drain close to the attic (HL PowerSafe) including extension element

The drain capacity of the HL PowerSafe DN110, connected according to the picture presuming a water level of 35 mm is set to 8,1 l/s.

Requirement to the safety drainage: 42,9 l/s Performance of 6 PowerSafe drains: 48,6 l/s

Necessary outlets: 6







HL Roof Drains - Products - Overview



Product	HL62Safe	HL62HSafe	HL62PSafe	HL62FSafe	HL64Safe	HL64HSafe
Description	Safety roof drain Vertical with clamping ring	Safety roof drain Vertical with bitumen membrane	Safety roof drain Vertical with PVC sealing flange	Safety roof drain Vertical with PP sealing flange	Safety roof drain Horizontal with clamping flange	Safety roof drain Horizontal with bitumen membrane
Function	Clamping of polymeric roof seal strips	Special design for connection to bitumen seals	Special design for connection to PVC seal strips	Special design for con- nection to PP-based FPO seal strips	Clamping of polymeric roof seal strips	Special design for connection to bitumen seals



Product	HL64PSafe	HL64FSafe	HL64H PowerSafe	HL64P Power Safe	HL64F PowerSafe
Description	Safety roof drain Horizontal with PVC sealing flange	Safety roof drain Horizontal with PP sealing flange	Safety roof drain PowerSafe with bitumen membrane	Safety roof drain with PVC sealing flange	Safety roof drain PowerSafe with PP sealing flange
Function	Special design for connection to PVC seal strips	Special design for connection to PP-based FPO seal strips	Special design for connection to bitumen seals	Special design for connection to PVC seal strips	Special design for connection to PP-based FPO seal strips

Any safety roof drain is available with heating, except for the PowerSafe series. Please find further information within the particular product information.



HL62Safe Safety roof drain with 28 - 68 mm height-adjustable inlet edge HL62.1Safe Safety roof drain like HL62Safe with additional electrical heating

Data

Drainage capacity please see table

Material PP, outlet unit thermally insulated Connections HL62Safe/7, HL62.1Safe/7: DN75

> HL62Safe/1, HL62.1Safe/1: DN110 HL62Safe/2, HL62.1Safe/2: DN125 HL62Safe/5, HL62.1Safe/5: DN160

Outlet vertical

Sealing flange PP with stainless steel clamping

ring

Inlet Leaf catcher, height adjustable

from 28 - 68 mm

Standard ÖNORM B2501-2015. EN 1253

Recommended for polymer sheeting

Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

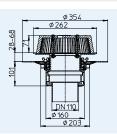
HL62.1Safe: heated type with self-adjusted heat source for direct connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover, 6 pcs. HL062N.4E Hex

nut alternative to wing nuts





Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,6	5,9	8,7	12,1	14,8	15
DN110	4,5 (35 mm)	0,9	3,8	6,4	9,1	12,2	15,8	20,1
DN125	7,0 (45 mm)	0,9	3,8	6,2	9,1	12,1	15,7	20
DN160	8,1 (45 mm)	0,9	3,8	6,5	9,3	12,8	16,5	21,5

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,2	5,4	5,4	5,5	5,6	5,7
DN110	4,5 (35 mm)	0,9	3,2	5,5	8,1	9,6	10,1	10,5
DN125	7,0 (45 mm)	0,9	3,7	6	8,5	11,6	13,9	14,4
DN160	8,1 (45 mm)	0,9	3,2	5,8	8,1	9,2	10,2	11

HL-Nr.	Dimension	Weight	EAN	Pcs/Package	Type
62Safe/7	DN75	3014g		1	Standard
62.1Safe/7	DN75	3154g		1	with heating
62Safe/1	DN110	3034g		1	Standard
62.1Safe/1	DN110	3174g		1	with heating
62Safe/2	DN125	3074g		1	Standard
62.1Safe/2	DN125	3214g		1	with heating
62Safe/5	DN160	3094g		1	Standard
62.1Safe/5	DN160	3234g		1	with heating

HL62HSafe Safety roof drain with bitumen membrane and 28 - 68 mm height adjustable inlet edge HL62.1HSafe Safety roof drain like HL62HSafe with additional electrical heating

Data

Outlet

Drainage capacity please see table

Material PP, outlet unit thermally

insulated

HL62HSafe/7, HL62.1HSafe/7: DN75 Connections

> HL62HSafe/1. HL62.1HSafe/1: DN110 HL62HSafe/2, HL62.1HSafe/2: DN125 HL62HSafe/5, HL62.1HSafe/5: DN160

PP. stainless steel with factory Sealing flange

made bitumen membrane

Inlet Leaf catcher, height adjustable

from 28 - 68 mm

Standard ÖNORM B2501-2015, EN 1253

Recommended for Bitumen sheeting

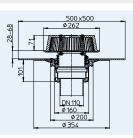
Additional Notch dimension: 255 x 380 mm information Tap hole dimension : Ø 255 mm HL62.1HSafe: heated type with

self-adjusted heat source for direct connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,6	5,9	8,7	12,1	14,8	15
DN110	4,5 (35 mm)	0,9	3,8	6,4	9,1	12,2	15,8	20,1
DN125	7,0 (45 mm)	0,9	3,8	6,2	9,1	12,1	15,7	20
DN160	8,1 (45 mm)	0,9	3,8	6,5	9,3	12,8	16,5	21,5

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm	
DN75	1,7 (35 mm)	0,8	3,2	5,4	5,4	5,5	5,6	5,7	
DN110	4,5 (35 mm)	0,9	3,2	5,5	8,1	9,6	10,1	10,5	
DN125	7,0 (45 mm)	0,9	3,7	6	8,5	11,6	13,9	14,4	
DN160	8,1 (45 mm)	0,9	3,2	5,8	8,1	9,2	10,2	11	

HL-Nr. 62HSafe/7 62.1HSafe/7 62HSafe/1 62.1HSafe/1 62HSafe/2 62.1HSafe/2 62HSafe/5	Dimension DN75 DN75 DN110 DN110 DN125 DN125 DN160	Weight 3253g 3371g 3494g 3611g 3504g 3621g 3514q	EAN	Pcs/Package 1 1 1 1 1 1 1 1	Type Standard with heating Standard with heating Standard with heating Standard Standard	
62.1HSafe/5	DN160	3631g		1	with heating	



HL62PSafe Safety roof drain with PVC sealing flange and 28 - 68 mm height adjustable inlet edge HL62.1PSafe Safety roof drain like HL62PSafe with additional electrical heating

Data

Drainage capacity please see table

Material PP, outlet unit thermally insulated Connections HL62PSafe/7, HL62.1PSafe/7: DN75

HL62PSafe/1, HL62.1PSafe/1: DN110 HL62PSafe/2, HL62.1PSafe/2: DN125 HL62PSafe/5. HL62.1PSafe/5: DN160

Outlet vertical

Sealing flange PVC, weldable with hot air
Inlet Leaf catcher, height adjustable

from 28 - 68 mm

Standard ÖNORM B2501-2015, EN 1253

Recommended for PVC sheeting

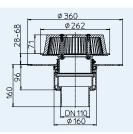
Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

HL62.1PSafe: heated type with self-adjusted heat source for direct connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,6	5,9	8,7	12,1	14,8	15
DN110	4,5 (35 mm)	0,9	3,8	6,4	9,1	12,2	15,8	20,1
DN125	7,0 (45 mm)	0,9	3,8	6,2	9,1	12,1	15,7	20
DN160	8,1 (45 mm)	0,9	3,8	6,5	9,3	12,8	16,5	21,5

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,2	5,4	5,4	5,5	5,6	5,7
DN110	4,5 (35 mm)	0,9	3,2	5,5	8,1	9,6	10,1	10,5
DN125	7,0 (45 mm)	0,9	3,7	6	8,5	11,6	13,9	14,4
DN160	8,1 (45 mm)	0,9	3,2	5,8	8,1	9,2	10,2	11

HL-Nr. 62PSafe/7 62.1PSafe/7 62PSafe/1 62.1PSafe/1 62PSafe/2 62.1PSafe/2	Dimension DN75 DN75 DN110 DN110 DN125 DN125	Weight 2834g 2951g 2874g 2991g 2814g 2931g	EAN	Pcs/Package 1 1 1 1 1 1	Type Standard with heating Standard with heating Standard with heating with heating
				1 1 1	

HL62FSafe Safety roof drain with PP sealing flange and 28 - 68 mm height adjustable inlet edge HL62.1FSafe Safety roof drain like HL62FSafe with additional electrical heating

Data

Drainage capacity please see table

Material PP, outlet unit thermally insulated Connections HL62FSafe/7, HL62.1FSafe/7: DN75

HL62FSafe/1, HL62.1FSafe/1: DN110 HL62FSafe/2, HL62.1FSafe/2: DN125

Outlet vertical

Sealing flange PP, weldable with hot air
Inlet Leaf catcher, height adjustable

from 28 - 68 mm

Standard ÖNORM B2501-2015, EN 1253

Recommended for FPO-sheeting on a PP-Basis

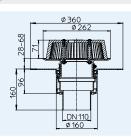
Additional Notch dimension: 255 x 380 mm information Tap hole dimension: Ø 255 mm

HL62.1FSafe: heated type with self-adjusted heat source for direct connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover





Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,6	5,9	8,7	12,1	14,8	15
DN110	4,5 (35 mm)	0,9	3,8	6,4	9,1	12,2	15,8	20,1
DN125	7,0 (45 mm)	0,9	3,8	6,2	9,1	12,1	15,7	20

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,8	3,2	5,4	5,4	5,5	5,6	5,7
DN110	4,5 (35 mm)	0,9	3,2	5,5	8,1	9,6	10,1	10,5
DN125	7,0 (45 mm)	0,9	3,7	6	8,5	11,6	13,9	14,4

HL-Nr. 62FSafe/7 62.1FSafe/7 62FSafe/1 62.1FSafe/1 62FSafe/2 62.1FSafe/2	Dimension DN75 DN75 DN110 DN110 DN125 DN125	Weight 2974g 3091g 3274g 3391g 3514g 3634g	EAN	Pcs/Package 1 1 1 1 1 1	Type Standard with heating Standard with heating Standard with heating with heating



HL64Safe Safety roof drain with 28 - 68 mm height adjustable nlet edge HL64.1Safe Safety roof drain like HL64Safe with additional electrical heating

Data

Drainage capacity please see table

Material PP, outlet unit thermally insulated

Connections DN75/110
Outlet horizontal

Sealing flange PP with stainless steel clamping

ring

Inlet Leaf catcher, height adjustable

from 28 - 68 mm

Standard ÖNORM B2501-2015, EN 1253

Recommended for polymer roof sheeting

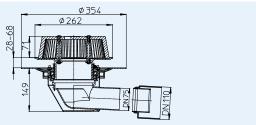
Additional Notch dimension: 260 x 380 mm information HL64.1Safe: heated type with self-adjusted heat source for direct connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover, 6 pcs. HL062N.4E Hex

nut alternative to wing nuts





Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in l/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,7	3,9	6,1	8,8	11,1	15	17,5
DN110	4.5 (35 mm)	0.9	3.7	6.4	8.9	12 1	15.9	20.1

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	1,2	3,6	5,4	5,6	5,7	5,9	6
DN110	4,5 (35 mm)	0,8	3,3	4,1	4,2	4,3	4,4	4,5

HL-Nr.	Dimension	Weight	EAN	Pcs/Package	Туре
64Safe	DN75/110	2934g		1	Standard
64.1Safe	DN75/110	3054g		1	with heating

HL64HSafe Safety roof drain with bitumen membrane and 28 - 68 mm height adjustable inlet edge HL64.1HSafe Safety roof drain like HL64HSafe with additional electrical heating

Data

Drainage capacity please see table

Material PP, outlet unit thermally insulated

Connections DN75/110
Outlet horizontal

Sealing flange PP, stainless steal with factory

made bitumen membrane

Inlet Leaf catcher, height adjustable

from 28 - 68 mm

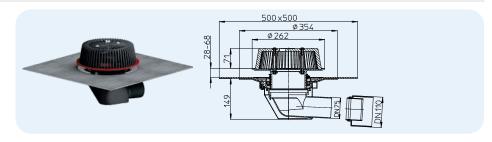
Standard ÖNORM B2501-2015, EN 1253

Recommended for bitumen sheeting

Additional Notch dimension: 260 x 380 mm information HL64.1HSafe: heated type with self-adjusted heat source for direct connection to a 230 V power grid

(10 - 30 Watt)

Including Lid cover



Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,7	3,9	6,1	8,8	11,1	15	17,5
DN110	4,5 (35 mm)	0,9	3,7	6,4	8,9	12,1	15,9	20,1

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	1,2	3,6	5,4	5,6	5,7	5,9	6
DN110	4,5 (35 mm)	0,8	3,3	4,1	4,2	4,3	4,4	4,5

HL-Nr.	Dimension	Weight	EAN	Pcs/Package	Type
64HSafe	DN75/110	3254g		1	Standard
64.1HSafe	DN75/110	3371g		1	with heating



HL64PSafe Safety roof drain with PVC sealing flange and 28 - 68 mm height adjustable inlet edge HL64.1PSafe Safety roof drain like HL64PSafe with additional electrical heating

Data

Drainage capacity please see table

Material PP, PVC, outlet unit thermally

insulated

Connections HL64PSafe/7, HL64.1PSafe/7: DN75

HL64PSafe/1, HL64.1PSafe/1: DN110

Outlet horizontal

Sealing flange PVC, weldable with hot air
Inlet Leaf catcher, height adjustable

from 28 - 68 mm

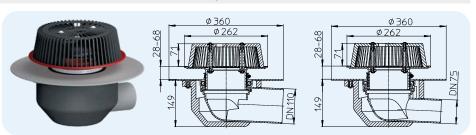
Standard ÖNORM B2501-2015, EN 1253

Recommended for PVC sheeting

Additional 260 x 380 mm HL64.1PSafe: information heated type with self-adjusted heat

source for direct connection to a 230 V power grid (10 – 30 Watt)

Including Lid cover



Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in l/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm	
DN75	1,7 (35 mm)	0,7	3,9	6,1	8,8	11,1	15	17,5	
DN110	4,5 (35 mm)	0,9	3,7	6,4	8,9	12,1	15,9	20,1	

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in l/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	1,2	3,6	5,4	5,6	5,7	5,9	6
DN110	4,5 (35 mm)	0,8	3,3	4,1	4,2	4,3	4,4	4,5

HL-Nr.	Dimension	Weight	EAN	Pcs/Package	Type
64PSafe/7	DN75	2174g		1	Standard
64.1PSafe/7	DN75	2295g		1	with heating
64PSafe/1	DN110	2231g		1	Standard
64.1PSafe/1	DN110	2348g		1	with heating

HL64FSafe Safety roof drain with PP Flange and 28 - 68 mm height adjustable inlet edge HL64.1FSafe Safety roof drain like HL64FSafe with additional electrical heating

Data

Drainage capacity please see table

Material PP, outlet unit thermally

insulated

Connections HL64FSafe/7, HL64.1FSafe/7: DN75

HL64FSafe/1, HL64.1FSafe/1: DN110

Outlet horizontal
Sealing flange FPO-sheeting

Inlet Leaf catcher, height adjustable

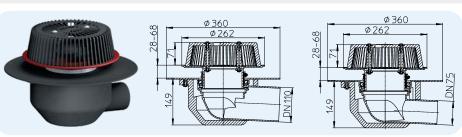
from 28 - 68 mm

Standard ÖNORM B2501-2015, EN 1253

Recommended for FPO-sheeting based on PP

Additional 260 x 380 mm HL64.1FSafe: heated type with self-adjusted heat source for direct connection to a 230 V power grid (10 – 30 Watt)

Including Lid cover



Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in l/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,7	3,9	6,1	8,8	11,1	15	17,5
DN110	4,5 (35 mm)	0,9	3,7	6,4	8,9	12,1	15,9	20,1

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	1,2	3,6	5,4	5,6	5,7	5,9	6
DN110	4,5 (35 mm)	0,8	3,3	4,1	4,2	4,3	4,4	4,5

HL-Nr. 64FSafe/7 64.1FSafe/7 64FSafe/1 64.1FSafe/1	Dimension DN75 DN75 DN110 DN110	Weight 2163g 2279g 2273g 2388g	EAN	Pcs/Package 1 1 1 1	Type Standard with heating Standard with heating
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HL64HPowerSafe Power-Safety roof drain with bitumen membrane and 28 - 58 mm height adjustable inlet edge HL64PPowerSafe Power-Safety roof drain with PVC sealing flange and 28 - 58 mm height adjustable inlet edge HL64FPowerSafe Power-Safety roof drain with PP- sealing flange and 28 - 58 mm height adjustable inlet edge

Data

Drainage capacity please see table

Material HL64H PowerSafe: PP, Bitumen

sheeting

HL64P PowerSafe: PVC HL64F PowerSafe: PP

Connections DN75
Outlet horizontal

Sealing flange HL64H PowerSafe: factory made

bitumen membrane HL64P PowerSafe: PVC, weldable with hot air

HL64F PowerSafe: PP, weldable

with hot air

Inlet Leaf catcher, height adjustable

from 28 - 58 mm

Standard ÖNORM B2501-2015, EN 1253

Recommended for HL64H PowerSafe: bitumen

sheeting

HL64P PowerSafe: PVC-sheeting HL64F PowerSafe: FPO-sheeting

based on PP

Additional Aussparungsmaß: 220 x 380 mm

information

Including Lid cover



Drainage capacity according to DIN EN 1253, with connector to a 3 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,7	3,2	7,3	12	15,6	16	16

Drainage capacity according to DIN EN 1253, with connector to a 4,2 m down pipe Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	0,7	3,8	7,5	12,1	17,7	17,9	17,9

Drainage capacity according to DIN EN 1253 with connector freely running out Drainage capacity in I/s for a water level of 5 - 65 mm

nominal width	DIN EN 1253	5 mm	15 mm	25 mm	35 mm	45 mm	55 mm	65 mm
DN75	1,7 (35 mm)	1	3,8	3,9	4,1	4,2	4,3	4,5
werSafe werSafe	Dimension DN75 DN75	4	eight 161g 284g	E	AN	Pcs/	Package 1 1	

HL062.1Safe Safety drain attachment

Data

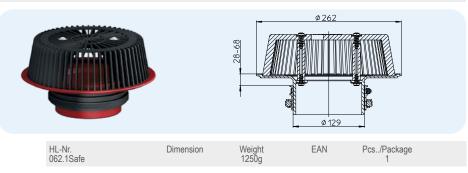
Drainage capacity please see table

Material PP

Inlet Leaf catcher, height adjustable

from 28 - 58 mm

Standard ÖNORM B2501-2015, EN 1253
Recommended for roof drains for safety drainage



Ø 200

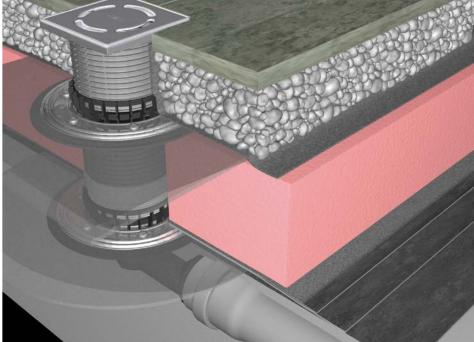


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HL Drains

12. Balcony and terrace

12











HL Balcony and terrace drains

Basic information about design and installation

In general the draining of rain water on terrace and balcony surfaces should happen with gullies. Allready during planing some important topics should be taken into consideration:

- ▲ To choose the right drain including all accessories a detailed plan of the floor construction (ceiling material, thermal insulation, waterproofing...) has to be defined. Especially with inverted roof constructions different drain positions both above the thermal insulation and on the waterproofing has to be provided.
- ▲ The area (or subarea) and the rainfall rate has to be known, when choosing the fitting gully. Therefore important is the calculated rainwater rate (I/s) and the capacity of the gully (I/s).
- ▲ To avoid leakage in the structure, it is important, to take care of the kind of waterproofing, especially the connection between drain and the local waterproofing. Please check the compatibility between the local waterproofing on the terrace and our HL prefabricated sealing kits.

- ▲ Please notice, that acc. international standards at terraces and loggias, which are surrounded by attic walls, one should care for a suitable emergency drainage. The sence of it is, to avoid overload on the terrace construction by backwater, caused by a blocked drain or by heavy rain events. Therefore we recommend to clean gullies frequently.
- ▲ According to ÖNORM roof drains should only be connected to rain water sewage. Should this not be possible, we recommend, to use gullies with integrated frost-proof flap.

▲ Maintenance

In accordance with DIN 1986-3, roof drains, balcony and terrace drains, as well as emergency drains should be inspected and, if necessary, serviced at least every 6 months. Especially in the autumn months or after extreme weather events, the maintenance should be carried out at shorter intervals. Care should be taken to remove leaves and dirt from the inlet grates or leaf catchers to ensure that rainwater can flow in and out unhindered. Missing and defective parts shall be replaced as part of this work. The HL635N drainage and inspection chamber facilitates this necessary work, especially on green roofs, and at the same time ensures safe drainage with its generous drainage openings

Relevant standards/directives

ÖNORM B2501 Drainage of buildings

DIN 1986-100 Drainage systems for buildings and estates ÖNORM EN 12056..... Gravity drainage systems inside of buildings

EN 1253......Drains for buildings ÖNORM B2209Waterproofing works

ÖNORM B2220 Roof waterproofings with bitumen and plastic sheetings

ÖNORM B7209 Waterproofings for buildings ÖNORM B7220 Roofs with waterproofings



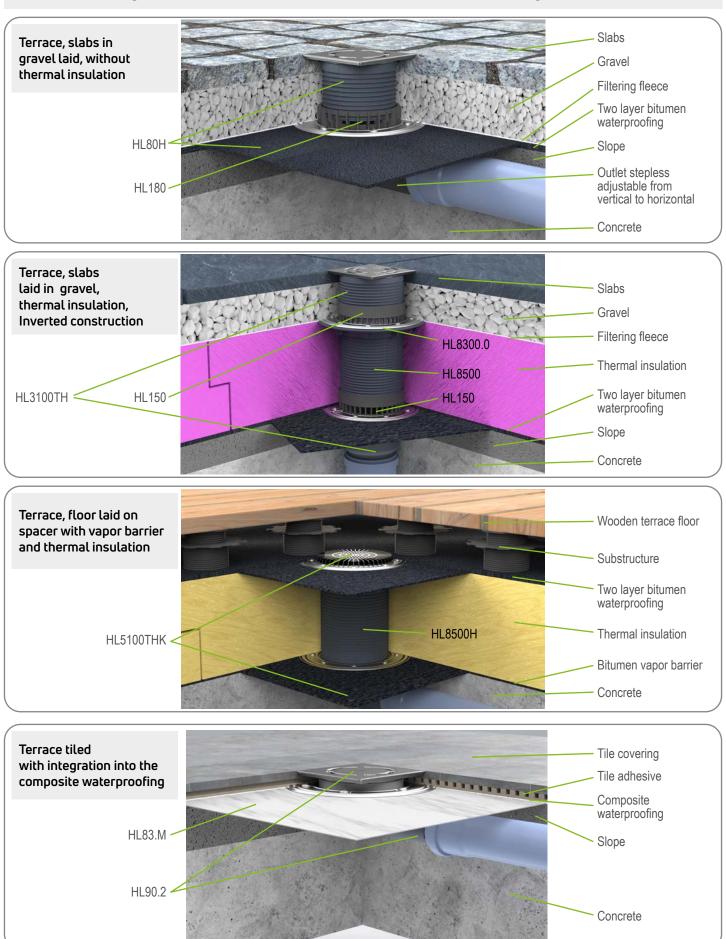
Selection of the convenient drain

Selective criteria	Requirements	Product
Drainage surface	When you calculate the quantity of occuring rain water acc. ÖNORM B2501 and DIN 1986-100, you have to use at least the standard rain yield factor of 300 l/ (s x ha). Quantity of rain water = 0,03 l/s x Drainage surface (m²) Quantity of gullies = $\frac{\text{Absolute quantity of rain water}}{\text{Capacity of the gully}}$	For the exact definition of the right drain and the quantity of gullies, please mind the capacity of the particular article.
Ceiling construction	To find out, what is the best composition of the drain, like extension (with our without flange), gravel guard, sealing kit or heating, a detailed plan of the different layers of the ceiling is neccessary.	Extension (with or without flange) Sealing kit Gravel guard eventually heating
Waterproofing	To have a save and leak-proof connection between drain and local waterproofing, the waterproofing material on the ceiling should be known. Local waterproofing (2 mm thick, flexible) Bitumen coating Bitumen waterproofing, liquid bitumen compound PVC waterproofing FPO waterproofing, based on PP Liquid sealing compounds	HL83.0, HL8300.0 HL83 (with EPDM-foil) HL83.H, HL8300H (with bitumen flange) Drain HL80H, HL3100TH, HL5100TH Extensions HL85NH, HL8500H HL83.P, HL8300.P HL83.PP, HL8300.PP (with PP flange) HL83.M, HL8300.M (with textile coated membrane)
Direction of the outlet	horizontal vertical	HL80-series, HL90, HL90.2, HL5100T-series HL80-series, HL310N.2, HL3100T-series
Sewer	Rain water sewer Mixed sewer	All types of drains applicable Gullies with frost-proof flap: HL310N.2, HL3100T-series, HL5100T-series
Additional information	Acc. DIN 1986-100 it has to be checked at all roof constructions, if emergency overflow at the construction site, the construction itself, the hydro-insulation, the statics of the roof.	s are neccessary, considering the expected incidents of r

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HL Balcony and terrace drains - Sectional drawings





HL Balcony and terrace drains – Installation Terrace, slab fit into gravel bed, thermal insulation, inverted construction



1. Set gully including lot cover into the tap hole



2. Weld the prefabricated bitumene flange with the local bitumene waterproofing



3. Set the fleece, put on the gravel guard (HL180), apply the thermal insulation



4. Shorten extension with flange (HL85N) and adjust to the height of the thermal insulation, set on the gravel guard (HL180), set the lot cover



5. Clamp fleeze between the stainless steel clamp ring (HL83.0) and the extension (HL85N), set the gravel guard (HL180), adjust the extension to the final slab



6. Coat the gravel guard and the extension with fleece, fill in gravel embankment and lay the slabs, insert grate



HL Balcony and terrace drains – Products – Overview



Product	HL80	HL80H	HL80C	HL5100T	HL5100TH
Description	Standard drain	Standard drain with bitumen flange	Drain with polymer concrete flange	Drain horizontal with high capacity	Drain horizontal with high capacity and bitumen flange
Function	Usage horizontal and vertical	Usage horizontal and vertical, especially for bitumen waterproofing	Usage horizontal and vertical, especially to connect to liquid sealing compounds	For surfaces up to 83m ²	For surfaces up to 83m², for bitumen waterproofings

Extensions









Product HL340N		HL3400	HL85N	HL8500
Description	Standard extension	Extension	Extension with flange	Extension with flange
Function	To elongate the extension	To elongate the extension, fits to drain series HL3100 and 5100	Adjustment of the drain to the waterproofing level	Adjustment of the drain to the water- proofing level. Fits to series HL3100 and HL5100

Sealing kits













Product	HL83	HL8300	HL83.0	HL8300.0	HL83.M	HL8300.M
Description	Sealing kit with EPDM-foil	Sealing kit with EPDM-foil	Sealing kit without foil	Sealing kit without foil	Sealing kit with textile coated membrane	Sealing kit with textile coated membrane
Function	For bitumen coatings	For bitumen coatings, fits to drain series HL3100 and 5100	Clamping of local waterproofings	For clamping of local waterproofings, fits to drain series HL3100 and HL5100	For liquid sealing compounds	For liquid sealing compounds, fits to drains HL3100-series and HL5100-series

Accessories











/				• •		
	Product	HL180	HL150	HL080.8E	HL157	HL82
ľ	Description	Gravel guard	Drainage element	Leaf catcher	Leaf catcher	Heating kit
.8	Function	For the drainage of rain water on the waterproofing level, e.g. inverted construction	For the drainage of rain water on the waterproofing level, e.g. inverted roofs. For drains HL3100T-series and HL5100T-series.	For not walkable surfaces like gravel embankment, green surfaces	For not walkable surfaces like gravel embankment, green surfaces, fits to the drain series HL3100T and HL5100T	To heat the gully and to avoid ice



HL Balcony and terrace drains – Products – Overview





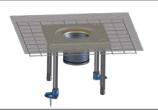




HL90.2	HL310N.2	HL3100T	HL3100TH
Drain horizontal	Drain vertical	Drain vertical, high capacity	Drain vertical, high capacity and bitumen flange
Extremly flat, for flat floor constructions	At tap holes, high capacity	For surfaces up to 67m ²	For surfaces up to 67m², especially for bitumen waterproofings







Product data see chapter Sealing kits/Extensions

Product data see

chapter Sealing kits/Extensions

HL85NH	HL8500H	HL85NC
Extension with bitumen flange	Extension with bitumen flange	Extension with polymere concrete flange
Adjustment of the drain to the bitumen waterproofing	Adjustment of the drain to the bitumen waterproofing level. Fits to series HL3100 and HL5100	Adjustment of the drain to the liquid sealing compound













HL83.H	HL8300.H	HL83.P	HL8300.P	HL83.PP	HL8300.PP
Sealing kit with bitumen flange	Sealing kit with bitumen flange	Sealing kit with PVC-flange	Sealing kit with PVC-flange	Sealing kit with PP-flange	Sealing kit with PP-flange
For bitumen waterpr. and liquid bitumen compounds	For bitumen waterproo- fings and liquid bitumen compounds. Fits to drains HL3100-series and HL5100-series	For PVC-waterproofings	For PVC-waterproofings. For drains HL3100-series and HL5100-series	For FPO-waterpr., based on PP	For FPO waterproofings, based on PP. For drains HL3100-series and HL5100-series













•				<u>'</u>	'
HL181	HL151	HL152	HL153	HL155	HL156
Gravel trap	Gravel guard	Thermal insulation - horizontal	Thermal insulation - vertical	Thermal insulation kit incl. heating, horizontal	Thermal insulation kit incl. heating, vertical
For slaps, fit into gravel embankment	Below slaps or wooden panels. For drains HL3100T-series and HL5100T-series	For upgrading HL5100T to an insulated version	For upgrading HL3100T to an insulated version	Upgrade kit, thermal insulated and with 18W/230V heating for HL5100T(H)	Upgrade kit, thermal insulated and with 18W/230V heating for HL3100T(H)



HL Balcony and terrace drains - Products - Data

HL80 Balcony and terrace drain with convertable outlet

Data

Material PP, PE

Connection DN50/75 cuttable

dimension

Outlet Convertable from horizontal to

vertical, Material PE, pluggable

and weldable

Extension 123 x 123 mm, cuttable Inlet Stainless steel grate

115 x 115 mm

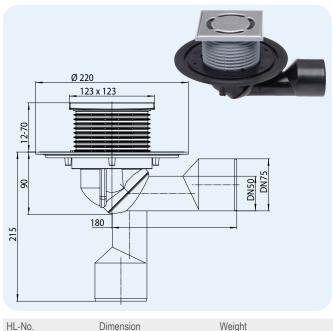
Stench trap Frost-proof flap
Standard EN 1253

Load classification K3 – max. 300 kg

Additional For surfaces up to 25 m² information Recess dimensions: 185 x 340

mm, Tap hole diameter: 185mm

Including Supporting frame, lot cover



DN50/75



+700806

HL80C Balcony and terrace drain with polymer concrete flange

Data

Material PP, PE, polymere concrete

collar

Connection dimens. DN50/75 cuttable

Outlet Convertable from horizontal to

vertical, Material PE, pluggable

and weldable

Extension 121 x 121 mm, cuttable

Inlet Stainless steel grate 115 x 115

mm

Stench trap Frost-proof flap
Standard EN 1253
Load classification K3 – max. 300 kg

Recommended for Liquid sealing compounds,

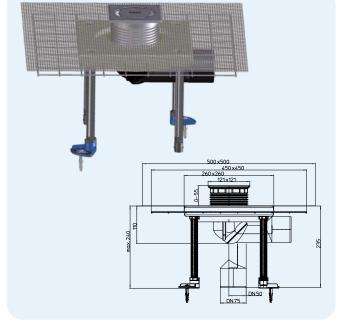
especially for tile adhesives for

thin-bed laying

Additional For surfaces up to 25 m² information Recess dimensions: 185 x 340

mm, Tap hole diameter: 185mm

Including Supporting frame, Lid cover





L-No.	Dimension	vveight	+010806	Piece/package
C	DN50/75	4380 g		1

Drainage table HL80, HL80H, HL80C Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9 ed according to EN 1253-2:2015 according to pt. 5.5.2.1 on do Nominal width **DIN EN 1253** 45 mm 65 mm 75 mm DN 50 0,9 (35 mm) 0.30 0.90 1.10 1.20 1,25 1,30 DN 75 1.7 (35 mm) 0.35 1.00 1.10 1.30 1.35 1.50 1.45 Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining Nominal width **DIN EN 1253** 65 mm 75 mm DN 50 0.8 (20 mm) 0.30 0.90 1.20 1.25 1.30 1.00 1.35 1.40

0,95

1,10

1,20

0,90

HL



HL80H Balcony and terrace drain with bitumen flange

Data

Material PP, PE, pre-welded

bitumen membrane

Connection dimension DN50/75 cuttable

Outlet Convertable from horizontal to

vertical, Material PE, pluggable and

weldable

Extension 123 x 123 mm, cuttable

Stench trap Frost-proof flap

Inlet Stainless steel grate 115 x 115 mm

Standard EN 1253

Load classification K3 – max. 300 kg

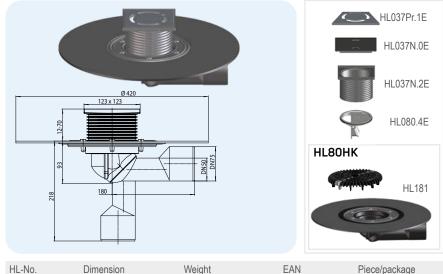
Recommended for Bitumen waterproofings

Additional information For surfaces up to 25 m²

Recess dimensions: 185 x 340 mm,

Tap hole diameter: 185mm

Including Supporting frame, Lid cover



L-No. Dimension Weight EAN Piece/package 0H DN50/75 1300 g +701803 1

HL81G Balcony and terrace drain with convertable outlet, cast iron frame and grate

Data

Material PP, PE, cast iron/PP
Connection dimension DN50/75 cuttable

Outlet Convertable from horizontal to

vertical, Material PE, pluggable and

weldable

Frame Cast iron 150 x 150 mm

Extension Plastic, cuttable

Inlet Cast iron grate 137 x 137 mm

Stench trap Frost-proof flap
Standard EN 1253

Load classification A – max. 1,5 t

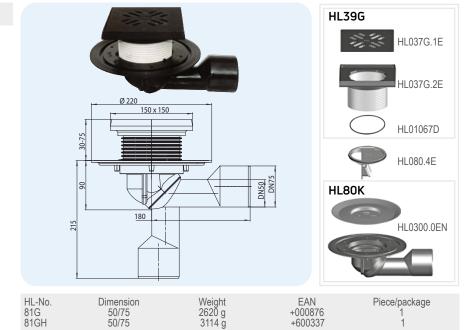
Recommended for Loads up to 1,5 t

Additional information For surfaces up to 25 m²

Recess dimensions: 185 x 340 mm,

Tap hole diameter: 185mm

Including Lid cover



Drainage table HL81G, HL81GH Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9 Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m Nominal width DIN EN 1253 5_{mm} 15mm 25 mm 35 mm 45 mm 65 mm 55 mm 75 mm DN 50 0.9 (35 mm) 0.30 0.95 1.00 1.25 1.30 1.40 1.10 1.35 DN 75 1,7 (35 mm) 0,30 0,95 1,30 1,35 1,40 1,45 1,55 1,60 Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining Nominal width DIN EN 1253 5 mm 15_{mm} 20 mm 35 mm 45 mm 55 mm 65 mm 75 mm DN 50 0,8 (20 mm) 0,35 1,05 1,25 1,35 1,40 1,45 1,50 1,55 DN 75 0,8 (20 mm) 0,35 1,05 1,15 1,25 1,30 1,35 1,40 1,45



HL90 Balcony and terrace drain, extra-flat, installation height 57 mm

Data

Material PP

Connection DN40/50 cuttable

dimension

Outlet horizontal, pluggable and weldable

Extension 123 x 123 mm, cuttable

Stainless steel grate 115 x 115 mm Inlet

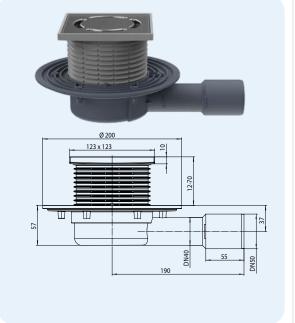
Standard EN 1253

Load classification K3 - max. 300 kg

Additional Installation height 57 mm; information For surfaces up to 18 m², Recess

dimensions: 185 x 340 mm, frost-proof

Including Supporting frame, Lot cover, Sand trap





Drainage table HL90

Drainage capie in LSV
Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9
Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width	DIN EN 1253	5mm	15mm	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 40	-	-	-	-	-	-	-	-	-
DN 50	0,9 (35 mm)	0,30	0,80	0,85	0,90	0,95	1,00	1,05	1,10
Ablaufleistung gemessen nach EN 1253-2:2015 nach Pkt. 5.5.1.2 frei auslaufend									
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 40	0,6 (20 mm)	0,30	0,65	0,75	0,80	0,85	0,90	0,95	1,00
DN 50	0,8 (20 mm)	0,30	0,70	0,75	0,90	0,95	1,00	1,10	1,15

Weight 425 g HL-No. Dimension EAN Piece/package DN40/50 +006359

HL90.2 Balcony and terrace drain like HL90, but with frost-proof stench trap

Data

Material

DN40/50 cuttable Connection

dimension Outlet

123 x 123 mm, cuttable Extension

Inlet Stainless steel grate 115 x 115 mm

Frost-proof flap Stench trap

Standard EN 1253

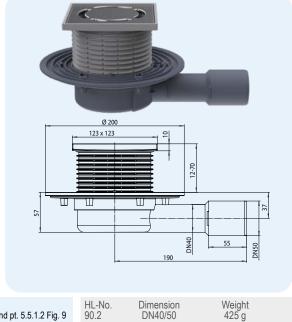
Load classification K3 - max. 300 kg

Additional Installation height 57 mm; information For surfaces up to 18 m², Recess

dimensions: 185 x 340 mm, frost-proof

horizontal, pluggable and weldable

Supporting frame, Lot cover Including



Dimension

DN40/50

HL-No.

90.2



Piece/package

+016853

Drainage table HL90.2

Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9

Nominal width	DIN EN 1253	5 mm	15mm	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN 40	-	-	-	-	-	-	-	-	-	
DN 50	0,9 (35 mm)	0,35	0,75	0,8	0,85	0,9	0,95	1,00	1,05	
Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining										
Nominal width	DIN EN 1253	5mm	15 _{mm}	20 mm	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm	
DN 40	0,6 (20 mm)	0,35	0,70	0,75	0,80	0,85	0,90	0,95	1,00	
	-,- ()	-,	-,	-,	-,	-,	-,	-,	.,	

Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m									
Nominal width	DIN EN 1253	5 mm	15mm	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 40	-	-	-	-	-	-	-	-	-
DN 50	0,9 (35 mm)	0,35	0,75	0,8	0,85	0,9	0,95	1,00	1,05
Drainage capacity me	asured according to E	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	$35\mathrm{mm}$	$45\mathrm{mm}$	55 mm	65 mm	$75\mathrm{mm}$
DN 40	0,6 (20 mm)	0,35	0,70	0,75	0,80	0,85	0,90	0,95	1,00
DN 50	0,8 (20 mm)	0,40	0,75	0,80	0,90	0,95	1,00	1,05	1,10



HL90KH Drain body with bitumen flange, installation height 61 mm

Data

PP, pre-welded bitumen flange Material

DN40/50 cuttable Connection

dimension

Outlet Horizontal, pluggable, and weldable

Cover Flat leaf catcher HL181

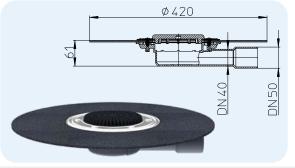
Standard EN 1253

Additional Installation height 61 mm;

information for surfaces up to 17 m² (calculated with 400

lit of rainfall (s x ha), frost resistant, recess

dimensions: 185 x 340 mm





55 mm

0.90

0,90

65 mm

0.95

0,95

HL090.4E

75 mm

1.00

1,00

HL-No.	Dimension	Weight	EAN	Piece/package
90KH	DN40/50	110Ŏ g	+036998	1

Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining

Drainage table HL90KH

Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9

Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

15mm 25mm 35mm 45mm Nominal width **DIN EN 1253** 5 mm 55 mm 65 mm 75 mm Nominal width **DIN FN 1253** 20 mm 5_{mm} 15_{mm} 35 mm 45 mm DN 40 DN 40 0.6 (20 mm) 0.50 0.65 0.70 0.80 0.85 DN 50 0,9 0,95 0,8 (20 mm) 0,30 0,65 0,70 0,80 0,85

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HL310N.2 Balcony and terrace drain with frost-proof flap, DN50/75/110

Data

Material PΡ

Connection DN50/75/110 cuttable

dimension

Outlet vertical, pluggable and weldable

Extension 123 x 123 mm, cuttable

Stainless steel grate 115 x 115 mm

Stench trap Frost-proof flap

EN 1253 Standard

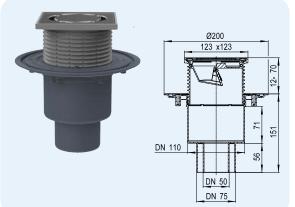
Load classification K3 - max. 300 kg

Additional For surfaces up to 21 m²,

information Recess dimensions: min. 185 x 185 mm,

Tap hole diameter: 180 mm, frost-proof

Including Supporting frame, Lot cover





L-No.	Dimension	Weight	EAN	Piece/package
10N.2	DN50/75/110	565 g	+021963	1

Drainage table HL310N.2

Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9

Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining **DIN EN 1253** $5\,\text{mm}$ 15_{mm} 25 mm 45 mm 65 mm Nominal width **DIN EN 1253** 5 mm 20 mm 15_{mm} 35 mm 45 mm 55 mm 65 mm 75 mm DN 50 0,9 (35 mm) 0.30 0,85 1,15 1,20 1,20 1,25 DN 50 0,8 (20 mm) 0,25 0,80 0,85 0,90 0,95 1,00 1,05 DN 75 1.7 (35 mm) 0.30 0.80 0.90 0.95 1.00 1.05 1,1 DN 75 0,8 (20 mm) 0,25 0,80 0,85 0,90 0,95 1,00 1,05 DN 110 4,5 (35 mm) 0,35 0,85 0,95 DN 110 8,0 0,90 1,00 1,05 1.4 (20 mm) 0.25 0.80 0.85 0.90 0.95 1.00 1.05

HL310KH Drain body with bitumen flange

Data

Material PP, werkseitig aufgeschweißte Bitumenbahn

DN50/75/110 cuttable Connection

dimension

Outlet Vertical, pluggable, and weldable

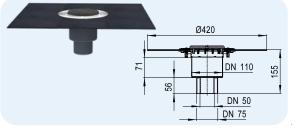
Flat leaf catcher HL181 Cover

EN 1253 Standard

for surfaces up to 32 m² (calculated with 400 Additional information lit of rainfall (s x ha), frost resistant, recess

dimensions: 185 x 185 mm

Core drilling 185mm





HL-No.	Dimension	Weight	EAN	Piece/package
310KH	DN50/75/110	105Ŏ q	+037018	1

Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining

Drainage table HL310KH

Tested according to EN 1253-2:2015 according to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9 Drainage capacity tested according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm	Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 50	0,9 (35 mm)	0,35	1,50	3,15	5,40	-	-	-	-	DN 50	0,8 (20 mm)	0,50	1,60	1,70	1,80	1,85	1,90	1,95	-
DN 75	1,7 (35 mm)	0,30	1,30	1,50	1,55	1,60	1,65	1,70	1,80	DN 75	0,8 (20 mm)	0,40	1,25	1,30	1,40	1,45	1,50	1,55	1,60
DN 110	4,5 (35 mm)	0,30	1,25	1,35	1,40	1,50	1,55	1,60	1,65	DN 110	1,4 (20 mm)	0,35	1,20	1,30	1,40	1,45	1,50	1,55	1,60



HL5100T Balcony and terrace drain, horizontal, with frost-proof flap; high capacity

Data

Material PP

Outlet horizontal, pluggable

Frame 145 x 145mm, stainless steel, cuttable in

height

Grate Stainless steel 138 x 138

Stench trap Frost-proof flap
Standard EN 1253

Load classification K 3 - max. 300 kg

Additional For surfaces up to 51 m²; Recess information dimensions: min. 220 x 340 mm

Including Supporting frame, lid cover



HL5100TH Balcony and terrace drain like HL5100T, but with bitumen flange

Data

Material PP, pre-welded bitumen flange

Outlet horizontal, pluggable

Frame 145 x 145mm, stainless steel, cuttable in

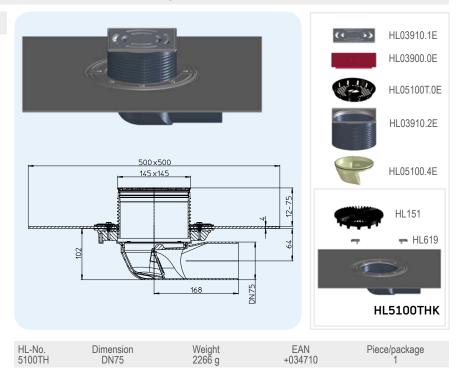
height

Grate Stainless steel 138 x 138

Stench trap Frost-proof flap
Standard EN 1253
Load classification K 3 - max. 300 kg

Additional For bitumen surfaces up to 51 m²; Recess

information dimensions: min. 220 x 340 mm Including Supporting frame, lid cover



Drainage table Tested according Drainage capacity tes	g to EN 1253-2:2	015 acc					b) and p	t. 5.5.1.2	? Fig. 9
Nominal width	DIN EN 1253	5 mm	15 _{mm}	25 mm	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm
DN 75	1,7 (35 mm)	0,45	1,50	2,85	2,90	2,95	3,40	4,40	4,45
Drainage capacity me	asured according to E	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 75	0,8 (20 mm)	0,50	1,80	2,05	2,25	2,30	2,50	2,60	2,65



HL5100TG Drain horizontal with cast iron frame and grate, with frost-proof flap

Data

Material PP/Cast iron Outlet horizontal, pluggable

Cast iron frame 190 x 190mm, cuttable in Extension

height 45-80mm

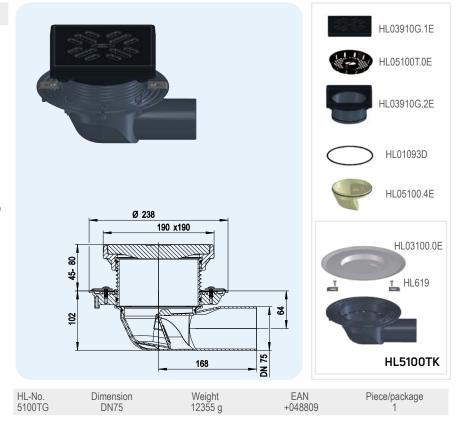
Inlet Cast iron grate 175 x 175 mm

Frost-proof flap Stench trap Standard EN 1253 B - 12,5 t Load classification

especially suitable for parking garages, Additional information storerooms, garbage rooms and floor areas

> made of mastic asphalt, for outdoor areas up to 62 m² with a rainfall rate of 400 l/ (s x ha), Recess dimensions: min. 220 x 340 mm

Including Lid cover



HL5100THG Drain like HL5100TG, but with bitumen flange

Data

Material PP/Cast iron, pre-welded bitumen flange

Outlet horizontal, pluggable

Cast iron frame 190 x 190mm, cuttable in Extension

height 45-80mm

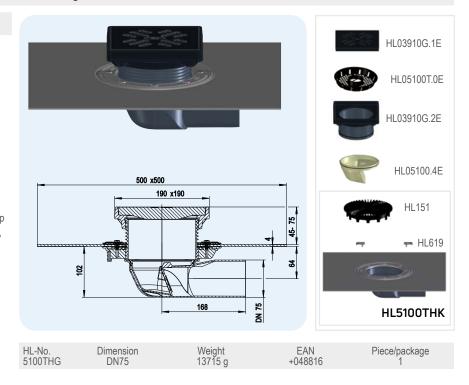
Inlet Cast iron grate 175 x 175 mm

Stench trap Frost-proof flap EN 1253 Standard B - 12,5 t Load classification

Additional especially suitable for parking garages, information storerooms, garbage rooms and floor areas

> made of mastic asphalt, for outdoor areas up to 62 m² with a rainfall rate of 400 l/ (s x ha), recess dimensions: min. 220 x 340 mm

Lid cover Including



Tested according	HL5100TG, HL5 g to EN 1253-2:2 ted according to EN 13	015 acc	ording to				b) and p	t. 5.5.1.2	? Fig. 9
Nominal width	DIN EN 1253	5mm	15 _{mm}	25 mm	35 mm	$45\mathrm{mm}$	55 mm	65 mm	75 mm
DN 75	1,7 (35 mm)	0,55	1,90	3,00	3,30	3,70	3,80	3,90	4,00
Drainage capacity me	asured according to E	N 1253-2:2	015 accord	ing to claus	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	$45\mathrm{mm}$	55 mm	65 mm	75 mm
DN 75	0,8 (20 mm)	0,75	1,85	2,50	2,85	2,95	3,10	3,20	3,25



HL3100T Balcony and terrace drain, vertical, with frost-proof flap; high capacity

Data

Material PP

Connection vertical, pluggable

dimension

Frame 145 x 145mm, stainless steel, cuttable in

height

Grate Stainless steel 138 x 138

Stench trap Frost-proof flap
Standard EN 1253

Load classification K 3 - max. 300 kg

 $\begin{array}{ll} \mbox{Additional} & \mbox{for outdoor areas up to 45 m}^2 \mbox{ (DN110) or} \\ \mbox{information} & \mbox{up to 55 m}^2 \mbox{ (DN75) at a rainfall rate of} \end{array}$

of 400 l/(s x ha),

Recess dimensions: min. 220 x 220 mm, Core hole dimension: Ø 220 mm

Including Supporting frame, lid cover



HL3100TH Balcony and terrace drain like HL3100T, but with bitumen flange

Data

Material PP, pre-welded bitumen flange

Connection vertical, pluggable

dimension

Frame 145 x 145mm, stainless steel, cuttable in

height

Grate Stainless steel 138 x 138

Stench trap Frost-proof flap
Standard EN 1253
Load classification K 3 - max. 300 kg

Additional for outdoor areas up to 45 m² (DN110) or information up to 55 m² (DN75) at a rainfall rate of

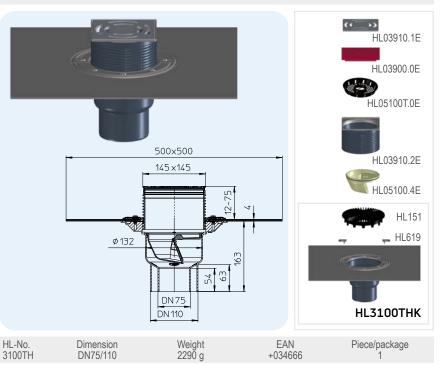
of 400 l/(s x ha), for bituminous

waterproofing,

Recess dimensions: min. 220 x 220 mm, Core hole dimension: Ø 220 mm

Core note dimension. Ø 220 mi

Including Supporting frame, lid cover



Tested according	HL3100T, HL310 to EN 1253-2:2 ted according to EN 12	015 acc					b) and p	t. 5.5.1.2	! Fig. 9	
Nominal width	DIN EN 1253	5 mm	15mm	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN 75	1,7 (35 mm)	0,45	1,80	2,70	2,75	2,8	2,85	2,90	2,95	
DN110	4,5 (35 mm)	0,40	1,40	1,75	1,80	1,90	1,95	2,00	2,05	
Drainage capacity me	asured according to E	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining				
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm	
DN 75	0,8 (20 mm)	0,70	1,65	2,20	2,30	2,35	2,40	2,45	2,50	
DN110	1.4.(20 mm)	0.70	1.65	1.80	1.05	2.00	2.05	2 10	2 20	



HL3100TG Drain vertical with cast iron frame and grate, with frost-proof flap

Data

Material PP/Cast iron Outlet vertical, pluggable

Cast iron frame 190 x 190mm, cuttable in Extension

height 45-80mm

Cast iron grate 175 x 175 mm Inlet

Frost-proof flap Stench trap EN 1253 Standard B - 12,5 t Load classification

Additional especially suitable for parking garages, information storage or garbage rooms and floor areas

> made of mastic asphalt, for outdoor areas up to 48 m² (DN110) or up to 61 m² (DN75) with a rainfall rate of rainfall rate of 400 l/(s x ha), Recess dimensions: min. 220 x 220 mm, Core hole dimension: Ø 220 mm

Including Lid cover



HL3100THG Drain like HL3100TG, but with bitumen flange

Data

Material PP/Cast iron, pre-welded bitumen flange

Outlet vertical, pluggable

Cast iron frame 190 x 190mm, cuttable in Extension

height 45-80mm

Inlet Cast iron grate 175 x 175 mm

Stench trap Frost-proof flap EN 1253 Standard B - 12,5 t Load classification

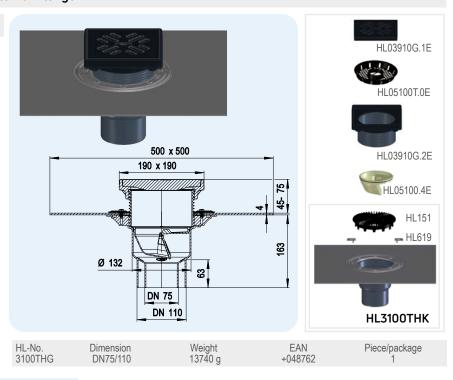
Additional especially suitable for parking garages, information storage or garbage rooms and floor areas

made of mastic asphalt, for outdoor areas up

to 48 m² (DN110) or up to 61 m² (DN75) with a rainfall rate of 400 l/(s x ha),

Recess dimensions: min. 220 x 220 mm, Core hole dimension: Ø 220 mm

Lid cover Including



Tested according	HL3100TG, HL3 g to EN 1253-2:2 ted according to EN 12	015 acc	ording to				b) and p	t. 5.5.1.2	? Fig. 9
Nominal width	DIN EN 1253	5mm	15 _{mm}	25 mm	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm
DN 75	1,7 (35 mm)	0,45	1,35	2,90	3,00	3,10	3,15	3,20	3,30
DN110	4,5 (35 mm)	0,55	1,90	2,10	2,20	2,30	2,35	2,40	2,50
Drainage capacity me	asured according to El	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 75	0,8 (20 mm)	0,55	1,65	2,45	2,80	2,85	2,90	2,95	3,00
DN110	1,4 (20 mm)	0,40	1,30	1,95	2,15	2,20	2,25	2,30	2,40



HL Balcony and terrace drains - Accessories - Data

HL080.8E Leaf catcher

Data

Material PI

Additional For non-walkable roofs. Fits to drains HL80-

information series, HL90 and HL310N.2



HL157 Leaf catcher suitable for HL3100T and HL5100T series drains

Data

Material PI

Additional For non-walkable roofs. Fits to drains

information HL5100T and HL3100T



HL150 Drainage element for drains HL3100T-series and HL5100T-series

Data

Material P

Additional For drainage of rain water on the

information waterproofing level, e.g. inverted construction



HL151 Gravel guard for drains HL3100T-series and HL5100T-series

Data

Material PI

Additional Flat gravel guard below slaps or wooden

information panels on terraces



HL152 Thermal insulation suitable for HL5100T drain series

Data

Material EPS

Additional To be set on the drain body of HL5100T and

information to be fixed with 2 screws



 HL-No.
 Dimension
 Weight 152
 EAN Piece/package 220 g +034574
 Piece/package 1

HL153 Thermal insulation suitable for HL3100T drain series

Data

Material EPS

Additional To be set on the drain body of HL3100T and

information to be fixed with 2 screws



HL-No. Dimension Weight EAN Piece/package 153 162 g +034581 1

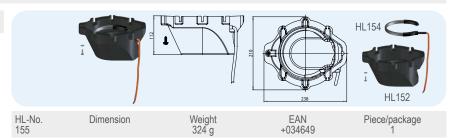


HL155 Thermal insulation with integrated heating suitable for HL5100T drain series

Data

Material

Additional information The thermo-insulation is fixed on the drain body 5100T by screws. The heating cable is self-regulating with 40W/M, 230V (appr. 12 - 14W cable). Overheating is impossible due to the characteristic of the cable.

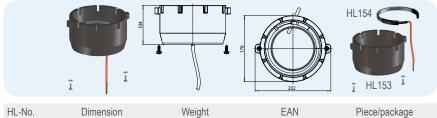


HL156 Thermal insulation with integrated heating suitable for HL3100T drain series

Data

EPS Material

Additional information The thermo-insulation is fixed on the drain body 3100T by screws. The heating cable is self-regulating with 40W/M, 230V (appr. 12 - 14W cable). Overheating is impossible due to the characteristic of the cable.



+035656

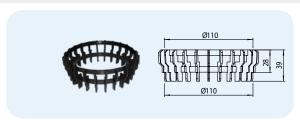
HL180 Drainage element for drains HL80-series, HL90 and HL310N.2

Data

PP Material

Additional For drainage of rain water on the

information waterproofing level, e.g. inverted construction



HL-No.

Dimension Ø 110 mm Weight 19 g

EAN +003938 Piece/package

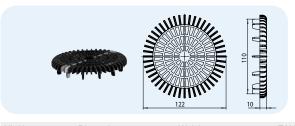
HL181 Gravel guard for drains HL80-series, HL90 and HL310N.2

Data

Material

Additional flat gravel trap for the installation below slaps

information or duckboards on terraces



HL-No. 181

Dimension DN110

Weight

EAN +028993 Piece/package

HL82 Heating kit

Data

Additional information Self-adjusting heating set 18W / 230V. The set is equiped with a tripolar heat conductive ribbon, 1m long, insulation tape and lace. Overheating is impossible, because of the self-adjusting character of the heating. For HL80-series and HL310N.2



HL-No.

Dimension

Weight 430 g

EAN +010820

Piece/package

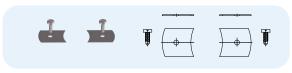
HL619 Fixing brackets "FixIt"

Data

Material Stainless steel

Additional For a tight connection between drain and information extension. Fits for all balcony- and terrace

drains of HL



HL-No.

Dimension

EAN +013197 Piece/package



HL Attica drains

Basic information about design and installation

Ist die Ableitung des Regenwassers durch das Flachdach mit herkömmlichen Dachabläufen nicht möglich oder sinnvoll, so bieten sich Attikaabläufe vor allem für kleine Dachflächen, wie Balkone, Terrassen und Loggien an.

Durch die Ableitung des Regenwassers außerhalb der Gebäudehülle ergeben sich vor allem im Wohnbau gewisse Vorteile:

- Keine Schwächung der Wärmedämmung, keine Kältebrücke
- Keine Geräuschbelästigung innerhalb des Gebäudes (Regenfallrohr befindet sich außerhalb des Gebäudes).
- Platzsparend: Keine Rohrführung innerhalb des Gebäudes oder unterhalb der Decke
- Keine Deckendurchdringung, daher keine statische Schwächung der Decke
- Kostengünstige Variante, weniger Material, weniger Arbeitszeit

Ablaufleistung

Im Vergleich zu herkömmlichen Dachabläufen haben Attikaabläufe eine wesentlich geringere Ablaufleistung, da hier nicht die volle Wassereinlauffläche genutzt werden kann.

Bei Warmdachkonstruktionen kann eine um mehr als die 3-fache Ablaufleistung als üblich mit Attikaabläufen, durch Situierung des Ablaufgehäuses auf Ebene der Dampfsperre, einfach erreicht werden. Dabei wird der Attikaablauf in die Dampfsperre eingebunden und mit den dafür vorgesehenen Zubehörteilen wie Einlaufelement HL164 und Aufstockelement HL85N(H) auf Abdichtebene verlängert und angeschlossen werden. Die daraus resultierende Wasserstauhöhe (Druckhöhe) ermöglicht hohe Ablaufleistungen auch mit Attikaabläufen. Ein weiterer Vorteil bei dieser Art von Planung und Montage ist die temporäre Entwässerungsmöglichkeit der Dampfsperre während der Bauphase, um die den Eintrag von Nässe und Feuchte ins Gebäude zu verhindern.

Die hydraulische Ablauftabelle mit verschiedenen Einbausituationen finden Sie unter www.hl.at

Die HL Attikaablauf-Serie HL68 besteht aus 3 verschiedenen Grundelementen (Tabletts) und einer Vielzahl an Zubehörteilen, mit denen jede Art des Dachaufbaus bis hin zum Umkehrdach verwirklicht werden kann. Im Folgenden finden Sie eine Auswahl der häufigsten Konstruktionsbeispiele.

Relevant standards/directives

ÖNORM B2501......Drainage of buildings

DIN 1986-100......Drainage systems of buildings and estates

EN 12056.....Gravity drainage systems inside of buildings

ÖNORM B2209......Waterproofing works

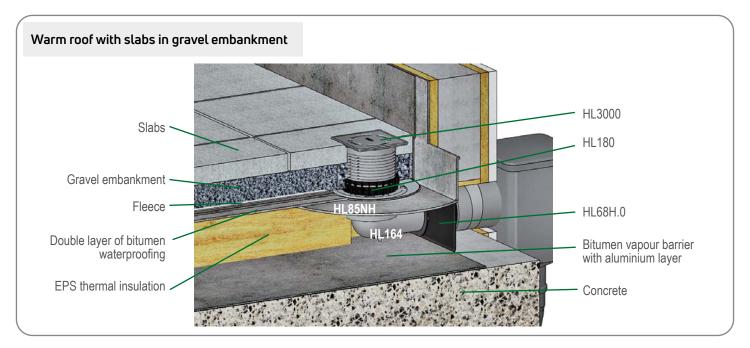
ÖNORM B2220......Roof waterproofings with bitumen and plastic sheetings

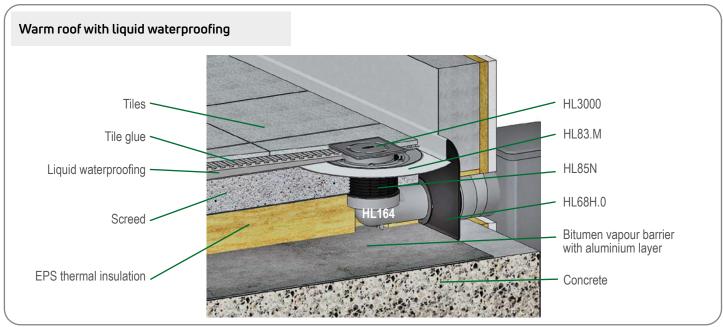
ÖNORM B7209......Waterproofings for buildings

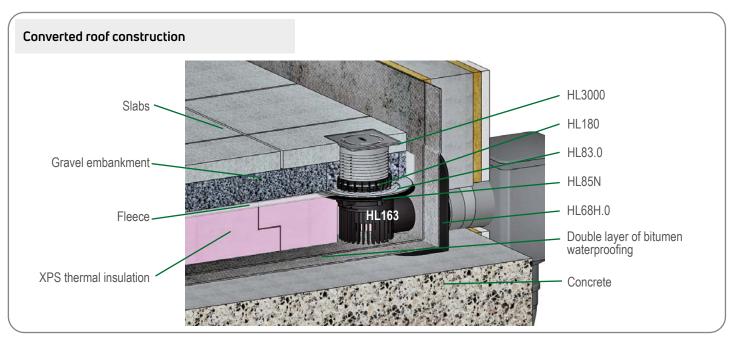
ÖNORM B7220......Roofs with waterproofings

Terrace with slabs in gravel embankment, without thermal insulation Slabs Gravel embankment Double layer of bitumen waterproofing Concrete



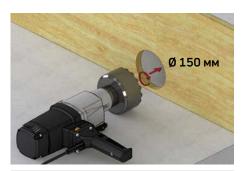




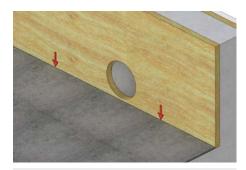




HL attica drains - Installation HL68H.0



1. Produce tap hole diameter 150 mm



2. Set first horizontal bitumen layer



3. Set first vertical bitumen layer acc. picture



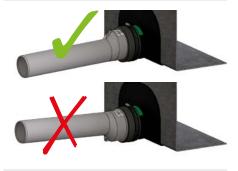
4. Cut out hole



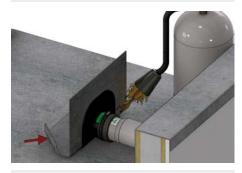
5. Connect pipe and angle and fix it by screwing



6. Red bar should not be visible



7. Take care of right position of the pipe



8. Insert attica drain and weld to the first bitumen layer



9. Set second horizontal bitumen layer



10. Set second vertical bitumen layer



11. Insert leaf catcher HL068.1E or HL068.1Safe



12. Fill up with PU foam



HL Attica drains - Products - Data

HL68H.0 Attica drain with bitumen membrane and PP-wastepipe

Data

Capacity HL68H.0/50: 0,48 l/s

HL68H.0/75: 0,61 l/s HL68H.0/110: 0,71 l/s

free outlet pipe and 35mm backwater height;

for further information please see www.hl.at

PP, bitumen Material

HL68H.0/50: DN50 Connection

> HL68H.0/75: DN75 HL68H.0/110: DN110

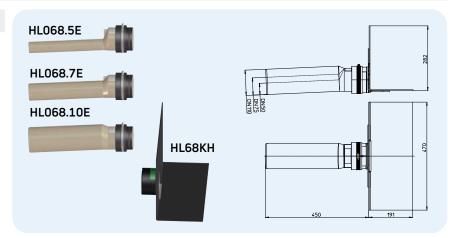
Outlet horizontal with 2,5° incline

Waterproofing with pre-welded bitumen membrane

Recommended for bitumen waterproofings

Additional Notch dimension

150 x 150 mm / Ø 150 mm information



HL-No.	Dimension	Weight	EAN	Piece/package
68H.0/50	DN50	1662 g	+047529	
68H.0/75	DN75	1748 g	+047536	1
68H.0/110	DN110	1882 g	+047512	

HL68F.0 Attica drain with PP-flange and PP-wastepipe

Data

Capacity HL68F.0/50: 0,48 l/s

> HL68F.0/75: 0,61 l/s HL68F.0/110: 0,71 l/s

free outlet pipe and 35mm backwater height; for further information please see www.hl.at

Material

HL68F.0/50: DN50 Connection

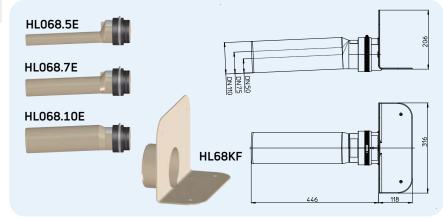
> HL68F.0/75: DN75 HL68F.0/110: DN110

Outlet horizontal with 2,5° incline Waterproofing PP, weldable with hot air

Recommended for FPO waterproofings, based on PP

Additional Notch dimension

information 150 x 150 mm / Ø 150 mm



HL-No. 68F.0/50 68F.0/75 68F.0/110	Dimension DN50 DN75 DN110	Weight 830 g 916 g 1050 a	EAN +047499 +047505 +047482	Piece/package 1 1
081.0/110	DNTIU	1050 g	+047482	I

HL68P.0 Attica drain with PVC flange and PP-wastepipe

Data

information

HL68P.0/50: 0,48 l/s Capacity

HL68P.0/75: 0,61 l/s HL68P.0/110: 0,71 l/s

free outlet pipe and 35mm backwater height; for further information please see www.hl.at

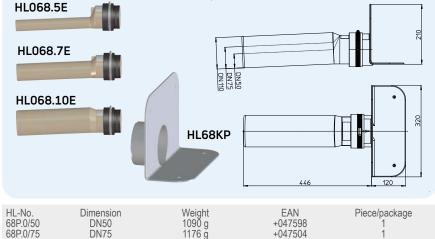
Material PVC, PP

Connection HL68P.0/50: DN50

> HL68P.0/75: DN75 HL68P.0/110: DN110 horizontal with 2,5° incline

150 x 150 mm / Ø 150 mm

Outlet PVC, weldable with hot air Waterproofing PVC waterproofings Recommended for Additional Notch dimension



HL-No. 88P.0/50	Dimension DN50	Weight 1090 g	EAN +047598	Piece/package
8P.0/75	DN75	1176 g	+047504	1
8P.0/110	DN110	1320 g	+047581	1



catcher for emergency drainage HL068.1Safe Attica drain HL68H.0/DN, HL68P.0/DN, HL68F.0/DN with leaf catcher HL068.1E or leaf

with sealing flange HL85N(H) and leaf catcher Attica drain HL68H.0/DN, HL68P.0/DN, HL68F.0/DN with inlet element HL164, extension element

HL080.8E

with leaf catcher, measured over flange with energency drainage leaf catcher, measured X = 110 mm with thermal insulation 110mm height Fig. 2 X = 150 mm with thermal insulation 150mm height X = 200 mm with thermal insulation, 20mm height X = 200 mm with thermal flast lation, 20mm height X = 200 mm to the state of th

m over flange

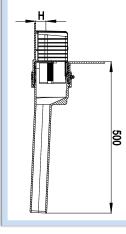
Tablet with connection pipe DN 50

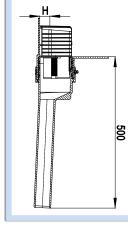
H Height I/s from flange

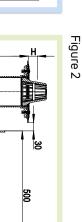
x = 110 mm with thermal insulation 150mm height
.3 x = 150 mm with thermal insulation 150mm height
x = 200 mm with thermal insulation 200mm height
x = 210 mm with thermal insulation 150mm height
x = 110 mm with thermal insulation 150mm height
4 x = 150 mm with thermal insulation 150mm height
x = 200 mm with thermal insulation 200mm height

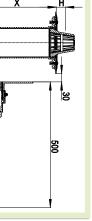
Tested according to EN1253-2: 2015 according to 5.5.3.1 Fig. 11a) Drainage capacities of HL Attica drains in combination with different attachments

Figure 1 500

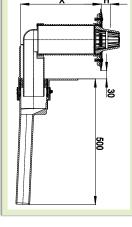


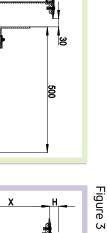












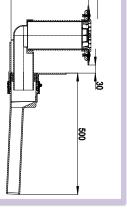
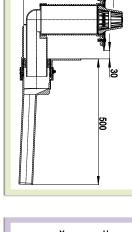
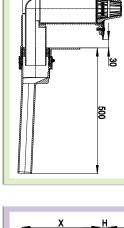


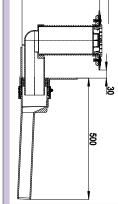
Figure 4

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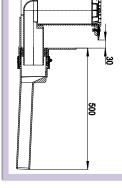
500













with sealing flange HL85N(H) and gravel catcher HL181 with inlet element HL164, extension element Attica drain HL68H.0/DN, HL68P.0/DN, HL68F.0/DN

Attica drain HL68H.0/DN, HL68P.0/DN, HL68F.0/DN

with sealing flange HL85N(H) and grating with inlet element HL164, extension element

X= 200 m	Fig. 4 X = 150 n	X = 110 n	X = 200 n	Fig. 3 X = 150 n	X = 110 n	X = 200 n	Fig. 2 X = 150 n	X = 110 n	with eme			Idble	7)51)
X= 200 mm with thermal insulation 200mm height	X = 150 mm with thermal insulation 150mm height	X = 110 mm with thermal insulation 110mm height	X = 200 mm with thermal insulation 200mm height	Fig. 3 X = 150 mm with thermal insulation 150mm height	X = 110 mm with thermal insulation 110mm height	X = 200 mm with thermal insulation200mm height	Fig. 2 X = 150 mm with thermal insulation 150mm height	X = 110 mm with thermal insulation 110mm height	with emergency drainage leaf catcher, measured 35mm over flange	with leaf catcher, measured over flange		lablet with connection pipe DN TTO	+ :::!th
	ı	ı	ı	ı	ı	ı	ı	ı	_	_	l/s	5 mm	,
	ı	ı	ı	ı	ı	ı	ı	ı	0,32	0,22	l/s	15 mm 25 mm 35 mm 45 mm 55 mm 65 mm	,
ı	ı	ı	ı	ı	ı	ı	ı	ı	0,55	0,42	l/s	25 mm	
2,39	1,56	1,41	2,96	2,65	2,3	3,11	2,72	2,4	0,83	0,71	-/s	35 mm	9
ı	ı	ı	ı	ı	ı	ı	ı	ı	1,1	1,05	V's	45 mm	
ı	ı	ı	ı	ı	ı	ı	ı	ı	1,30	1,38	l/s	55 mm	
ı	ı	ı	ı	ı	ı	ı	ı	ı	1,48	1,8	l/s	65 mm	
ı	ı	ı	ı	ı	1	ı	ı	ı	1,59	1,98	/s	70mm 75mm 80 mm 90 mm 100 mm	
2,7	1,56	2,02	3,4	2,65	2,7	3,55	2,72	2,72	1,65	2,2	l/s	75mm	
ı	ı	1	I	ı	1	1	1	1	1,76	2,48	l/s	80 mm	
ı	ı	1	I	I	1	ı	1	1	1,92	2,9	l/s	90 mm	
	2	2,23	3,53	2,96	2,96	3,66	3,03	3,03	2,03	3,28	-	100	

	Fig. 4			Fig. 3			Fig. 2		ō.	ā [;]			
X= 200 mm with thermal insulation 200mm height	X = 150 mm with thermal insulation 150mm height	X = 110 mm with thermal insulation 110mm height	X = 200 mm with thermal insulation 200mm height	X = 150 mm with thermal insulation 150mm height	X = 110 mm with thermal insulation 110mm height	X = 200 mm with thermal insulation 200mm height	X = 150 mm with thermal insulation 150mm height	X = 110 mm with thermal insulation 110mm height	with emergency drainage leaf catcher, measured 35mm over flange	with leaf catcher, measured over flange		lablet with connection pipe DN 75	1
ı	ı	ı	ı	ı	ı	ı	ı	ı	_	_	l/s	5 mm	,
ı	ı	ı	ı	ı	ı	ı	ı	ı	0,33	_	l/s		nyai aanaa ya mani nange
ı	ı	ı	ı	ı	ı	ı	ı	ı	0,57	0,34	l/s	15 mm 25 mm 35 mm	9
2,39	1,77	1,41	2,96	2,61	2,32	3,13	2,66	2,43	0,88	0,61	-/s		9
ı	ı	ı	ı	ı	ı	ı	ı	ı	1,2	0,88	V/s	45 mm 55 mm	
ı	ı	ı	ı	ı	ı	ı	ı	ı	1,38	1,16	l/s		
1	ı	1	ı	ı	ı	ı	ı	1	1,46	1,61	V's	65 mm 70 mm	
1	1	ı	ı	ı	ı	1	ı	1	1,61	1,78	l/s	70 mm	
2,39	1,77	1,41	2,96	2,61	2,32	3,13	2,66	2,43	1,72		l/s	75 mm 8	
1	1	ı	ı	ı	ı	1	ı	1	1,81	2,31	l/s	80 mm 9	
1	1	1	ı	ı	I	1	ı	1	1,93	2,81	l/s	90 mm 1	
2,	2,26	2,26	3,47	3,02	3,02	3,67	3,11	3,11	2,1	3,12	/s	100 mm	

1,52 2,3 2,3 2,58 2,18 2,18 2,18 2,18 2,89 1,89 2,26



HL Attica drains - Accessories - Data

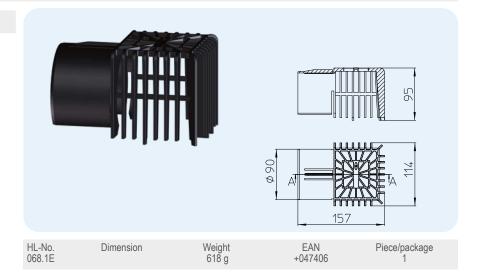
HL068.1E Leaf catcher for attica drains series HL68

Data

PP Material

Additional Fits to all attica drains 68-series

information

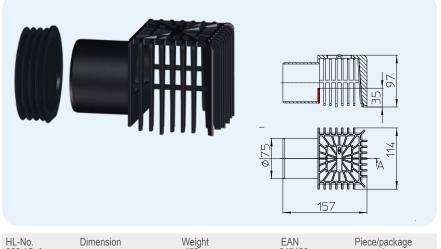


HL068.1Safe Leaf catcher "emergency drainage" for attica drains series HL68

Data

Material PP

Additional With 35mm overflow edge for emergency information drainage; Fits to all attica drains 68-series



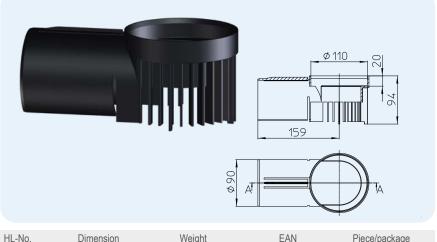
HL-No. 068.1Safe Weight 170 g EAN +047420 Piece/package

HL163 Drain element for attica drains series HL68

Data

PP Material

Additional Fits to all attica drains 68-series; for drainage information of converted roof constructions



HL-No. 163 EAN +047376 Weight 152 g Dimension Piece/package



HL163Safe Drain element "emergency drainage" for attica drains series HL68

Data

Material

PP

Additional information Fits to all attica drains 68-series; for emergency drainage of converted roofs constructions (with 35mm overflow edge)



HL-No. 163Safe EAN +047383 Weight 221 g Dimension Piece/package

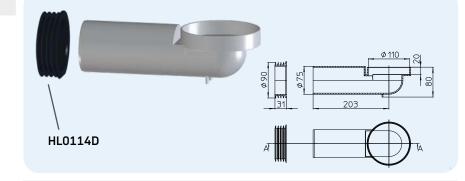
HL164 Inlet element for attica drains series HL68

Data

Material

PP

Additional information For warm roof constructions



HL-No. 164 Weight 226 g EAN +047390 Dimension Piece/package

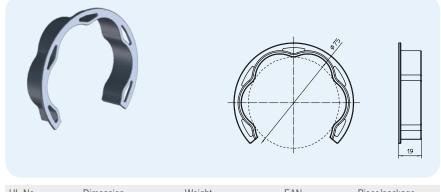
HL163.1 Drainage ring for HL164

Data

Material

PP

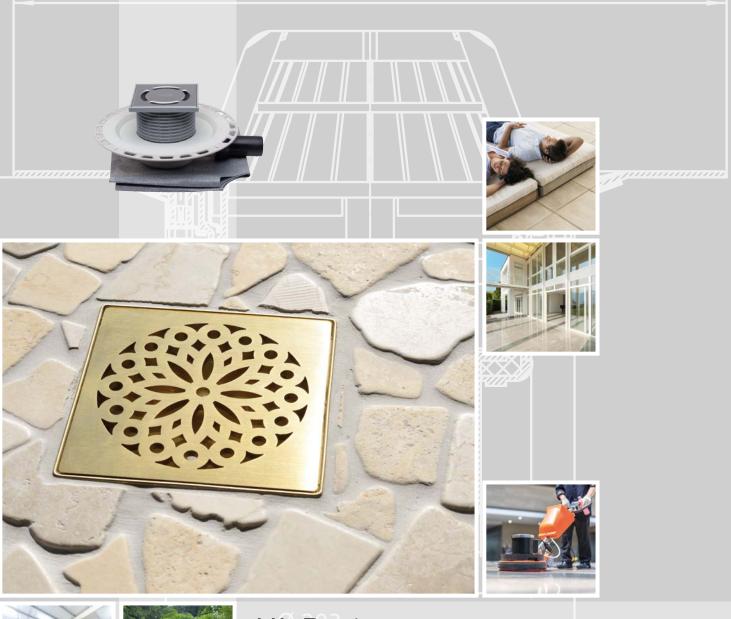
Additional information Drainage ring for HL164



HL-No. 163.1 Dimension DN 75 EAN +605031 Piece/package Weight



Ø 354

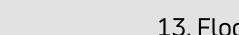








13. Floor 13













HL Floor drains

Basic information about design and installation

Floor drains serve as central drainage of floor surfaces. To reach a satisfying result, aesthetical and functional, the plumber has to care for some important topics. The coordination of the different craftsmen (designer, construction company, plumber, tiler...) is the biggest challange for the plumber. Therefore please notice allready during planning and design, some topics:

▲ Function:

The question, how the drain is finally used, decides allready during design of the drainage system the choise of the gully. Generally one differs between permanent use (places, where splashing water occures, e.g. shower) and irregular use (e.g. as savety drain in laundry rooms).

▲ Stench trap:

Especially at rarely used drain spots one has to avoid, that stench rises from the sewage system. A classic solution is to use a drain with additional side inlet (HL300, HL304). A regularely used drain spot (e.g. washing basin) makes sure, that the trap cannot become dry. In this case the drain should be constructed backwater save, so that the wastewater from the basin cannot overflow on the floor. Also the inlet should be siphoned in the drain itself. Another solution for this problem is the wellknown drain-series "Primus" of HL. These drains have a normal water siphon and a mechanical trap. A floating body is part of a normal water trap. When the water evaporates in the trap (or is sucked out by vacuum in the sewage system), the floating body sinks on the mouth of the drain and closes it.

Primusblue system

The Primusblue is a combined odor trap with sealing water and mechanical odor barrier, which provides absolute odor-tightness and even more protection against unpleasant odors from the sewer. With a tightness at positive pressure up to +800 pascal and negative pressure up to 400 Pascal Primusblue offers greater safety compared to conventional water odor seals with 50 mm barrier water. Another benefit is the function of backflow tightness up to a pressure of 0.5 mWs. The backflow of wastewater in the case of unfavorably laid pipes (e.g. from the bathtub or during backwashing in the swimming pool) is effectively prevented. (ÖNORM B2501)

▲ Capacity:

The test procedure for evaluating the drain capacity for floor drains is made according EN 1253-1: 2015 with 20 mm impounded water above the grate. If floor drains are used for barriere-free showers, the plumber should take care, that the flow rate is higher than the water inlet from the shower, to avoid water running into the dry area of the bathroom.

▲ Waterproofing:

To avoid leakage water to get into the floor construction, the floor drain has to be connected to the on-site waterproofing. Attention: Gaps between tiles are not waterproof! In most cases the waterproofing (mostly liquid compounds) is located directly under the tiles. HL floor drains are equiped with flanges, on which the plumber may install the right sealing kit. The installer, together with the tiler, should decide, which. To apply the waterproofing material directly on the flange, is not waterproof.

▲ Sound protection:

Please see chapter "accessories" on page 266

▲ Installation:

When the floor drain is mounted, the level of the flange should be below the level of the screed, so that a sufficiant incline to the drain is possible. Attention: The height of the drain body is not the minimum height of the screed.

▲ Design:

Depending on taste and function, you may chose different types of grates and extensions. The plumber should first talk to the enduser, which one he prefers, as a subsequent change is not allways possible.

Relevant standards/directives

ÖNORM B2501 Drainage of buildings

DIN 1986-100 Drainage systems for buildings and estates EN 12056...... Gravity drainage systems inside of buildings

ÖNORM B2207 Tiling works
EN1253...... Drains for buildings

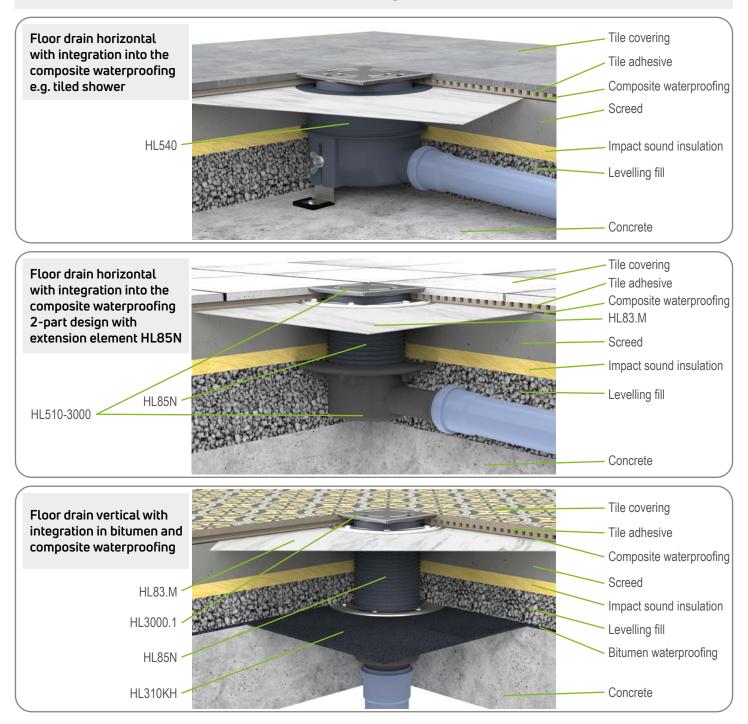


Selection of the convenient drain

Selective criteria	Requirements	Pro	duct
		horizontal outlet	vertical outlet
Capacity	To find the right choise, one has to know, which maximum wastewater quantity should be drained off.	up to 0,4 l/s \rightarrow HL90PrblueD up to 0,45 l/s \rightarrow HL90Prblue (-3000) up to 0,55 l/s \rightarrow Series HL510, Series HL80.1, HL541(I) Series HL300, HL304 up to 0,8 l/s \rightarrow HL540(I), HL5100Pr up to 1 l/s \rightarrow HL5100 up to 1,12 l/s \rightarrow Series HL70 up to 1,5 l/s \rightarrow HL72.1(N)	up to 0,5 l/s \rightarrow Series HL80, Series HL310Prblue up to 0,67 l/s \rightarrow Series HL310 up to 0,8 l/s \rightarrow HL3100Pr from 1,25 l/s up to 1,4 l/s \rightarrow HL3100 up to 1,8 l/s \rightarrow Series HL317
Existing floor height	At drains with horizontal outlet the floor height is an important criteria. Floor construction concrete floor - top edge of the screed ≥ 70 mm ≤ 90 mm ≥ 90 mm ≤ 110 mm ≥ 90 mm ≤ 250 mm ≥ 110 mm ≤ 160 mm ≥ 160 mm ≤ 180 mm ≥ 180 mm At drains with vertical outlet the drain body lies on the concrete floor and therefore mostly needs an extension element with flange, to reach the top edge of the screed.	Height of the drain body: Series HL90, HL541(i) = 62 mm Series HL510 = 79 mm, Series HL540 = 80 mm Series HL5100 = 97 mm Series HL72.1 = 150 mm Series HL70 = 173 mm	Series HL80, HL310 \rightarrow HL85N Series HL3100 \rightarrow HL8500 Series HL317 \rightarrow HL350.1
Waterproofing	The use of a sealing kit, which fits to the on-site waterproofing, is absolutely neccessary for a watertight connection. Kind and material of the waterproofing: For under-tile waterproofings, e.g. 2-component-epoxy resins For EPDM-sheetings, based on bitumen, for bitumen coatings and for welding of bitumen sheetings Welding of bitumen sheetings	Series HL70, HL80, HL90, HL300, HI Series HL72.1 and HL317 → HL84.N HL540 and HL541 series → Waterpr Series HL3100 and HL5100 → HL83 Series HL70, HL80, HL90, HL300, HI Series HL72.1 and HL317 → HL84 Series HL3100 and HL5100 → HL83 HL83H, HL8300.H Series HL70 → HL83H Instead of series HL72.1 or HL317 — Series HL3100 and HL5100 → HL83	Moofing included! 00.M L310, HL510 → HL83 000



HL Floor drains - Sectional drawings





HL Floor drains - Installation



1. Fill in concrete and level to the height of the lid cover



2. Wait, until the concrete is set



3. Remove lid cover, clean flange and insert the gasket



4. Apply the waterproofing membrane



5. Fix the stainless steel ring by screwing



6. The sealing kit is below the concrete level



7. Apply the liquid waterproofing



8. Smooth the membrane



9. Apply the liquid waterproofing on the whole wet area.



10. The sealing kit is completely below the concrete level



11. Cut the extension



12. Insert the extension without O-ring. Lay the tiles.



HL Floor drains - Products - Overview



Product	HL90Prblue	HL90PrblueD	HL510(N)(Prblue)	HL80.1	HL80.1C	HL90Prblue-3020	HL300
Description	Drain horizontal DN40/50	Drain horizontal DN40, with fleece flange	Drain horizontal DN40/50	Drain 50/75 with conver- table ball-joint outlet	Drain 50/75 with polymere concrete collar and convertable outlet	Drain horizontal DN40/50	Drain horizontal DN50 with side inlet
Function	Extremly flat, for flat floor constructions with Pnimus blue trap	Especially for under- tile waterproofings, with Primus blue trap	Standard drain, flat, also available with Primus blue trap	For horizontal and vertical connection	Especially for epoxy resin floor surfaces	Extreme flat with tilable grate and Primus blue trap	With side inlet, which cares for a full water trap. The integrated backwater protector prefents foam to leak through the grate.



Product	HL340N	HL3400	HL350	HL85N	HL8500
Description	Extension	Extension	Extension	Extension with flange	Extension with flange
Function	For elongating the extension, fits to drains of series HL90, HL510, HL80, HL300, HL70, HL310, HL304	For elongating the extension, fits to drains of series HL3100 and HL5100	For elongating the extension, fits to drains of series HL72.1 and HL317	For the adjustment of the drain to the waterproofing level, fits to drains of series HL90, HL510, HL80, HL300, HL70, HL310, HL304	For the adjustment of the drain to the waterproofing level, fits to drains of series HL3100 and HL5100



HL Floor drains – Products – Overview



HL510(N)(Prblue)-3020	HL5100(Pr)	HL310(N)(Prblue)-3020	HL72.1N	HL310(N)(Prblue)	HL3100(Pr)	HL317
Drain horizontal DN40/50	Floor drain hori- zontal DN50/75, high capacity	Drain vertikal DN50/75/110	Floor drain hori- zontal DN75/110, high capacity	Floor drain vertical DN50/75/110	Ablauf senkrecht DN50/75/110	Floor drain vertical DN50/75/110
Standard drain with tilable ex- tension and optional Primus blue trap	For high capacity reasons, also available with Primus trap	With tilable grate and optional Primus blue trap	For high capacity reasons	For outlet pipes below the concrete floor, also available with Primus blue trap	For outlet pipes below the concrete floor, with high capacity, also available with Primus blue trap	For outlet pipes below the con- crete floor, with high capacity.



HL350.1(.0)	HL350.1H	HL85NC	HL3200
Extension with Sealing flange	Extension with bitumen flange	Extension with polymere concrete collar	Extension with stainless steel frame and grate
To adjust the drain to the waterproofing level, fitting to floor drain series HL72.1 and HL317	To adjust the drain to the level of under-tile waterproofings, fitting to floor drain series HL72.1 and HL317	For height adjustment of the drain to liquid waterproofings, fits to drain series HL90,HL510,HL80, HL300, HL70, HL310 and HL304	To change from standard extension to extension with stainless steel frame, e.g. when you use "design"-grates. Fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304



HL Floor drains – Products – Overview



Product	HL3020	HL37N	HL3000	HL37NP	HL38N	HL39G	HL3910	HL3911
Description	Tilable extension	Standard extension	Extension "Klick- Klack"	Extension with PVC-collar	Round extension	Cast iron extension	Extension "Klick- Klack"	Extension "Klick-Klack" with screwable grate
Function	Extension fits to drain bodies HL70K-3020, HL80K-3020, HL90K-3020, HL300K-3020, HL304K-3020, HL310K-3020 and HL510K-3020	Standard extension, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL304	Standard extension with stainless steel frame, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	To connect PVC floor coverings, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Extension with round cover plate, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Usage with high load or to con- nect hot bitumen floor coverings, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Standard extension, fitting to floor drain series HL3100 and HL5100	Standard extension, fitting to floor drain series HL3100 and HL5100

Sealing kits







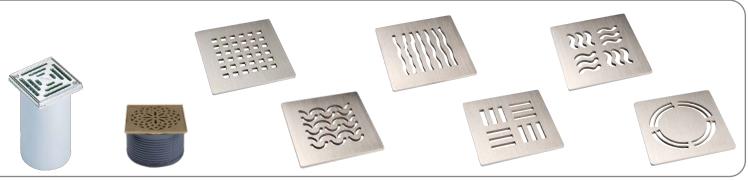




Product	HL83.0	HL83	HL83.M	HL83.H	HL8300.0
Description	Sealing kit without sheeting	Sealing kit with EPDM sheeting	Sealing kit with textile coated membrane	Sealing kit with bitumen collar	Sealing kit without sheeting
Function	For clamping of on-site sheetings, fitting to floor drain series HL70, HL80, HL90, HL300, HL304, HL310, HL510	For bitumen coatings and EPDM sheetings, fitting to floor drain series HL70, HL80, HL90, HL300, HL304, HL310, HL510	For under-tile waterproofings, fitting to floor drain series HL70, HL80, HL90, HL300, HL304, HL310, HL510	For bitumen based water- proofings or coatings, fitting to floor drain series HL70, HL80, HL90, HL300, HL304, HL310, HL510	For clamping of on-site sheetings, fitting to floor drain series HL3100 and HL5100



HL Floor drains – Products – Overview



HL66(Q)	HL3928	HL3120	HL3121	HL3123	HL3124	HL3125	HL3127
Extension	Extension with design-grate "Hamam"	Design-grate "Quadra"	Design-grate "Seine"	Design-grate "Orinoco"	Design-grate "Nil"	Design-grate "Yukon"	Design-grate "Primus Design"
Stainless steel grate with high request on design and stability, fitting to floor drain series HL72.1 and HL317	Extension for floor drain with golden frame and grate, design "Hamam". Fits to floor drain series HL5100 and HL3100.	Stainless steel grate with high request on design and stability, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Stainless steel grate with high request on design and stability, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Stainless steel grate with high request on design and stability, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Stainless steel grate with high request on design and stability, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Stainless steel grate with high request on design and stability, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304	Stainless steel grate with high request on design and stability, fitting to floor drain series HL90, HL510, HL80, HL300, HL70, HL310, HL304













HL8300	HL8300.M	HL8300.H	HL84.0	HL84	HL84.M
Sealing kit with EPDM sheeting	Sealing kit with textile coated membrane	Sealing kit with bitumen collar	Sealing kit without sheeting	Sealing kit with EPDM sheeting	Sealing kit with textile coated membrane
For bitumen coatings and EPDM sheetings, fitting to floor drain series HL3100 and HL5100	For under-tile waterproo- fings, fitting to floor drain series HL3100 and HL5100	For bitumen based water- proofings or coatings, fitting to floor drain series HL3100 and HL5100	For clamping of on-site sheetings, fitting to floor drain series HL317 and HL72.1	For bitumen coatings and EPDM sheetings, fitting to floor drain series HL317 and HL72.1	For under-tile waterproo- fings, fitting to floor drain series HL317 and HL72.1



HL Floor drains - Products - Data

HL80.1 Floor drain with convertable outlet

Data

Capacity 0,5 l/s

Material PP,PE, stainless steel V2A
Outlet DN50/75 cuttable, stepless convertable from horizontal to

vertical, outlet pluggable and

weldable

Extension 123 x 123 mm, cuttable in height

Grate Stainless steel grate 115 x 115 mm

Stench trap Height of water trap 50 mm

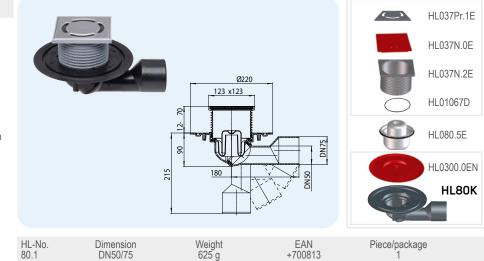
Standard EN 1253

Load classification K 3 – max. 300 kg

Recommended for Floor drainage inside the building Additional temperature-resistant up to 85 °C

information

Including Supporting frame, lot cover



HL80.1C Floor drain with polymere concrete collar

Data

Capacity 0,5 l/s

Material PP,PE, polymere concrete collar,

stainless steel V2A

Outlet DN50/75 adjustable in length,

convertable from horizontal to vertical, connector pluggable and

weldable

Extension 123 x 123 mm, adjustable in length

Grate Stainless steel grate 115 x 115 mm

Stench trap Height of seal water 50 mm

Standard EN 1253

Load classification $\,$ K 3- max. 300 kg

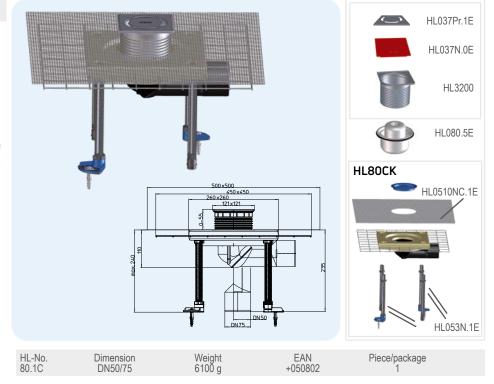
Recommended for Under-tile waterproofings and

epoxy resin coatings

Additional temperature-resistant up to 85 °C

information

Including Supporting frame, lot cover





HL80.1H Floor drain with bitumen collar

Data

Capacity 0,5 l/s

Material PP,PE, premounted bitumene

membrane, stainless steel V2A

Outlet DN50/75 adjustable in length,

convertable from horizontal to vertical, connector pluggable and

weldable

Extension 123 x 123 mm, cuttable in height

Grate Stainless steel grate 115 x 115 mm

Stench trap Height of seal water 50 mm

Standard EN 1253

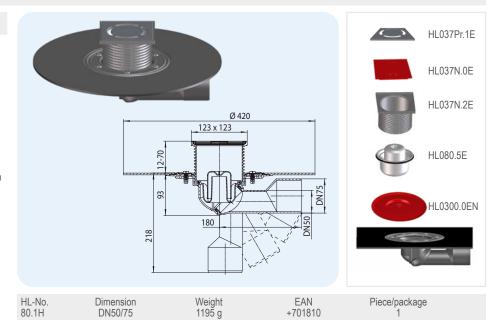
Load classification K 3 – max. 300 kg

Recommended for Bitumen waterproofings

Additional temperature-resistant up to 85 °C

information

Including Supporting frame, lot cover



HL80.1R Floor drain with round cover plate

Data

Capacity 0,5 l/s

Material PP,PE, stainless steel V2A
Outlet DN50/75 adjustable in length,

convertable from horizontal to

vertical, connector pluggable and

weldable

Extension Stainless steel frame Ø 133 mm,

cuttable in height

Grate Stainless steel cover plate

Ø 112 mm

Stench trap Height of seal water 50 mm

Standard EN 1253

Load classification K 3 – max. 300 kg

Recommended for Barrier-free showers with round

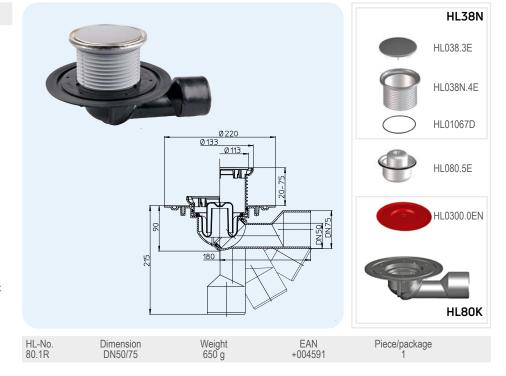
cover plate

Additional

temperature-resistant up to 85 °C

information

Including Supporting frame, lot cover





HL80.2 Floor drain with standpipe

Data

Capacity 0,5 l/s
Material PP, PE

Outlet DN50/75 adjustable in length,

convertable from horizontal to vertical, connector pluggable and

weldable

Extension 100 x 100 mm, cuttable in height

Grate 94 x 94 mm cover

Stench trap Height of seal water 30 mm

Standard EN 1253

Load classification K 3 – max. 300 kg

Recommended for Brick-built bathtubs, longer

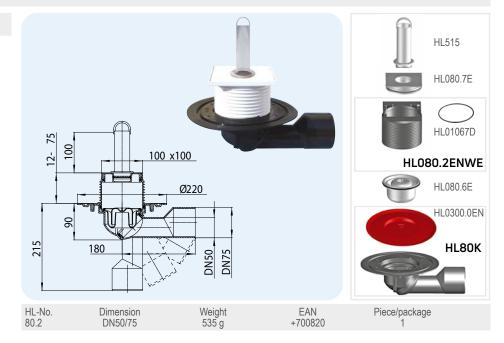
standpipe on request!

Additional information

Including

temperature-resistant up to 85 °C

Lot cover, standpipe HL515 with 10 cm



HL300 Floor drain with side inlet and backwater protector

Data

Capacity 0,5 l/s

Material PE, stainless steel V2A

Outlet horizontal DN50,

side inlet DN40/50, Connections

pluggable and weldable

Extension 123 x 123 mm,

cuttable in height

Grate Stainless steel grate 115 x 115 mm

Stench trap Height of seal water 50 mm

Standard EN 1253

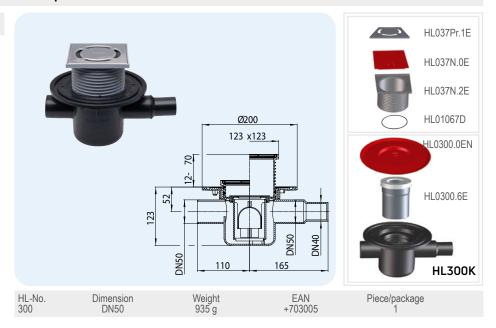
Load classification $\,$ K 3 - max. 300 kg

Recommended for Central siphoning with side inlet,

which cares for water in the trap

Additional with backwater protector, information temperature-resistant up to 85 °C

Including Supporting frame, lot cover



HL303K Floor drain body with 3 side inlets

Data

Capacity 0,5 l/s
Material PE

Outlet horizontal DN50,

3 side inlets, connections pluggable and weldable

Grate with Accessories:

Plug HL306 or with Trap seal

no connection to the waterproofing

assembly HL307

Stench trap Height of seal water 35 mm

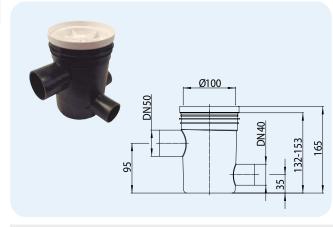
Recommended for Central drainage and siphoning for

the whole bathroom

information

Additional

Including Lot cover



HL-No. Dimension Weight EAN Piece/package 303K DN50 230 q +703036 1



HL304 Floor drain with 3 side inlets

Data

Capacity 0,5 l/s

Material PE, stainless steel V2A

horizontal DN50, Outlet

3 side inlets DN40, connections

pluggable and weldable

Extension 123 x 123 mm,

cuttable in height

Stainless steel grate 115 x 115 mm Grate

Stench trap Height of seal water 50 mm

EN 1253 Standard

Load classification K 3 - max. 300 kg

Recommended for Central drainage and siphoning of

the whole bathroom, the inlets care for enough water in the trap

Additional with backwater protector, information temperature-resistant up to 85 °C

Including Supporting frame, lot cover



HL310N Floor drain

HL310N-3000 Floor drain like HL310N, but with stainless steel frame

Data

0,75 l/s with 20 mm stowage height Capacity

0,55 l/s with 10 mm stowage height

Material PP, stainless steel V2A Outlet DN50/75/110, vertical HL310N: 123 x 123 mm, Extension cuttable in height HL310N-3000: 121 x 121 mm,

"Klick-Klack-fixing system", cuttable in height

Grate Stainless steel grate 115 x 115 mm

Height of seal water 50 mm Stench trap

Standard EN 1253

Load classification K 3 - max. 300 kg

Recommended for Floor drainage with vertical

connection

Additional temperature-resistant up to 85 °C

information

Supporting frame, lot cover Including



HL310N-3000

HL0510.7EKK

HL3200

HL310K

HL037Pr.1E

HL037N.0E

HL01067D

HL0300.0EN

Piece/package

HL0510.7E

HL037N.2E



HL310N-3020 Floor drain with tilable extension HL310Prblue-3020 like HL310N-3020, but with Primus blue trap

Data

Capacity HL310N-3020

> 0,75 l/s with 20 mm stowage height 0,70 l/s with 10 mm stowage height

HL310Prblue-3020

0,60 l/s with 20 mm stowage height 0,50 l/s with 10 mm stowage height

PP,ABS, stainless steel V4A Material

Outlet DN50/75/110, vertical

132 x 132 mm with stainless steel Extension

frame V4A, cuttable in height

Stainless steel frame and special Grate

grate, to be filled with tiles Size of grate: 104 x 104 x 12 mm

HL310N-3020: Height of seal Stench trap

water 50mm

HL310Prblue-3020: Primus

blue trap with 50mm seal water

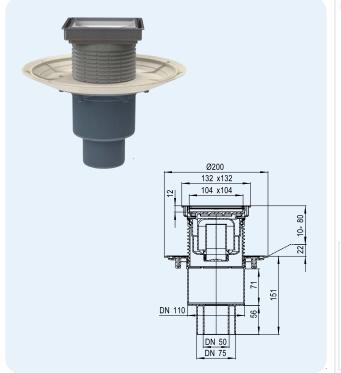
EN 1253, ÖNORM B2501 Standard

Load classification K 3 - max. 300 kg

Recommended for e.g. tiled showers, SPA-area Additional Temperature-resistant up to 85°C

information

Including Lot cover



Weight

670 g 727 g

EAN +034383 +052011

+006038

HL310N- HL310Prblue-3020 3020 HL03020.1E HL0510.7EKK HL0510.12EKK HL03020.2E HL01067D HL03020.0E HL310K-3020

Piece/package

HL310NR

HL310NG

HL310NG Floor drain with cast iron frame and grate HL310NR Floor drain like HL310NG, but with round cover plate

HL-No. 310N-3020

Dimension

DN50/75/110

DN50/75/110

310Prblue-3020 DN50/75/110

Data

Outlet

Capacity HL310NG

DN50: 0,85 l/s with 20 mm stowage

height

DN75 + DN110 0,75 /s with 20 mm

stowage height

HL310NR

0,75 l/s with 20 mm stowage height

0,55 l/s with 10 mm stowage height

Material cast iron/PP. stainless steel V2A

DN50/75/110, vertical

HL310NG: 150 x 150 mm, Extension

> cuttable in height HL310NR: Ø 133 mm, cuttable in height

HL310NG: 137 x 137 mm, Cast iron Grate

HL310NR: Ø 112 mm, Stainless

Stench trap Height of seal water 50 mm

Standard EN 1253

Load classification HL310NG: L15 - max. 1,5 t

HL310NR: K 3 - max. 300 kg

HL310NG: e.g. carparks, mastic Recommended for

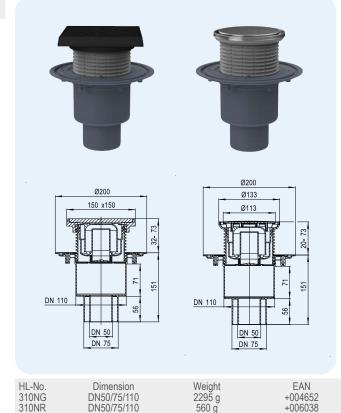
asphalt

HL310NR: barrier-free showers temperature-resistant up to 85 °C

information

Additional

Including Lot cover



560 g





HL310Prblue Floor drain with Primus blue trap HL310Prblue-3000 like HL310Prblue, but with stainless steel frame

Data

Standard

Capacity 0,60 l/s with 20 mm stowage height

0,50 l/s with 10 mm stowage height

PP Material

Outlet DN50/75/110, vertical

HL310Prblue: 123 x 123 mm, Extension

cuttable in height

HL310Prblue-3000: 121 x 121 mm, "Klick-Klack-fixing system",

cuttable in height

Grate Stainless steel grate 115 x 115 mm

Stench trap Height of seal water 50 mm and

Primus blue (No stench, with or without water)

EN 1253. ÖNORM B2501

Load classification K 3 - max. 300 kg

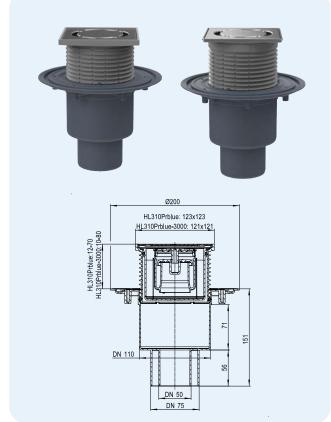
Recommended for Floor drainage with vertical

connection

Additional Floor drainage especially at information unfrequent use, no stench with or

without water, refilling of water into the trap is no longer neccessary! Temperature resistant up to 85 °C

Supporting frame, lot cover Including





IL-No. Dimension Weight EAN 10Prblue DN50/75/110 659 g +051991 10Prblue-3000 DN50/75/110 722 g +052004	
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HL310PrblueG Floor drain like HL310NG, but with Primus blue trap HL310PrblueR Floor drain like HL310NR, but with Primus blue trap

HI 31 31

310PrblueG

310PrblueR

DN50/75/110

DN50/75/110

Data

Material

Capacity

HL310PrblueG 0,55 l/s with 20 mm stowage height

HL310PrblueR 0,60 l/s with 20 mm stowage height

0,50 l/s with 10 mm stowage height cast iron/PP, stainless steel V2A

Outlet DN50/75/110, vertical

Extension HL310PrblueG: 150 x 150 mm,

cuttable in height HL310PrblueR: Ø 133 mm. cuttable in height

HL310PrblueG: 137 x 137 mm, Grate Cast iron

HL310PrblueR: Ø 112 mm,

Stainless steel

Stench trap Height of seal water 50 mm u.

Primus blue (No stench, with

or without water)

Standard EN 1253, ÖNORM B2501

HL310PrblueG: L15 - max. 1,5 t Load classification HL310PrblueR: K3 - max. 300 kg

HL310PrblueG: e.g. carparks, mastic

asphalt

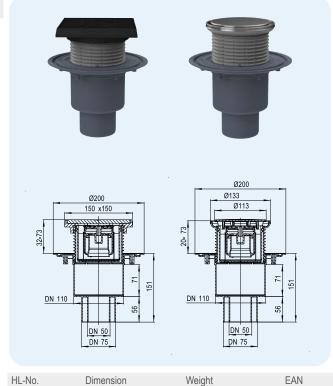
HL310PrblueR: barrier-free showers

Additional Floor drainage especially at unfrequent use, no stench with or information without water, refilling of water into

the trap is no longer neccessary! Temperature resistant up to 85° C

Including Lot cover

Recommended for



2324 g

549 g

+052073

+052080



HL310PrblueG



HL3100 Floor drain with high capacity

Data

Capacity DN50: 1,25 l/s, DN75/110: 1,4 l/s

Material PE, stainless steel
Outlet DN50/75/110,

vertical, pluggable and weldable

Extension Stainless steel V4A, 145 x 145

mm, "Klick-Klack"-locking system,

cuttable in height

Grate Stainless steel V2A, 138 x 138 mm

Stench trap Height of seal water 50 mm

Standard EN 1253

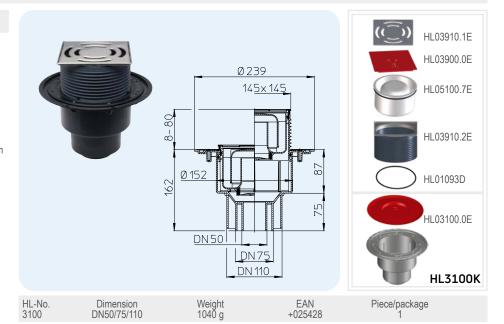
Load classification K 3 – max. 300 kg

Recommended for Floor drain with high capacity, e.g.

"Raindance"

Additional with "Klick-Klack-fixing system", information temperature-resistant up to 85 °C

Including Supporting frame, lot cover



HL3100Pr Floor drain with high capacity and Primus trap

Data

Capacity 0,8 l/s

Material PE, stainless steel
Outlet DN50/75/110,

vertical, pluggable and weldable

Extension Stainless steel V4A, 145 x 145

Stainless steel V4A, 145 x 145 mm, "Klick-Klack"-locking system,

cuttable in height

Grate Stainless steel V2A, 138 x 138 mm

Stench trap Height of seal water 50 mm and

Primus (No stench, with or without

water)

Standard EN 1253, ÖNORM B2501

Load classification K 3 – max. 300 kg

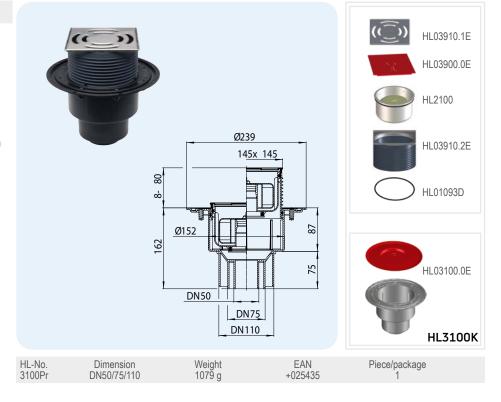
Recommended for Floor drain with high capacity, e.g.

"Raindance"

Additional Floor drainage especially at information unfrequent use, no stench with or

without water, refilling of water into the trap is no longer neccessary! Temperature resistant up to 85 °C

Including Supporting frame, lot cover





HL317 Floor drain vertical

Data

Capacity 1,8 l/s

Material PP, stainless steel V2A
Outlet DN50/75/110, vertical

Extension 150 x 150 mm, cuttable in height
Grate Stainless steel grate 138 x 138 mm

Stench trap Height of seal water 50 mm

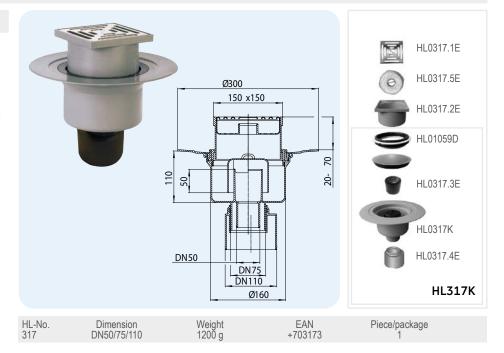
Standard EN 1253

Recommended for Floor drain with high capacity

Additional temperature-resistant up to 95 °C

information

Including Lot cover



HL317H Floor drain vertical with bitumen collar

Data

Capacity 1,8 l/s

Material PP, stainless steel V2A
Outlet DN50/75/110 vertical

Extension 150 x 150 mm, cuttable in height

Grate Stainless steel grate 138 x 138 mm

Stench trap Height of seal water 50 mm

Standard EN 1253

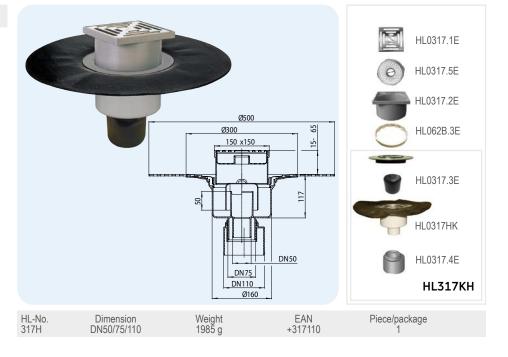
Load classification $\,$ K 3 - max. 300 kg

Recommended for Floor drain with high capacity

Additional Bitumen waterproofings,

information temperature-resistant up to 95 °C

Including Lot cover





HL510N Floor drain HL510N-3000 Floor drain like HL510N, but with stainless steel frame

Data

Capacity 0,55 l/s with 20 mm stowage height

0,45 l/s with 10 mm stowage height

Material PP, stainless steel
Outlet DN40/50, horizontal
Extension HL510N: 123 x 123 mm,
cuttable in height

HL510N-3000: 121 x 121 mm, "Klick-Klack-fixing system", cuttable in height, stainless

steel V4A

Grate Stainless steel grate 115 x 115 mm,

stainless steel V2A

Stench trap Height of seal water 50 mm

Standard EN 1253

Load classification K 3 – max. 300 kg

Recommended for Floor drainage with horizontal

connection

Additional Sound protection acc. ÖNORM information B8115-2 is reached together with

HL6200 sound insulation pad (see chapter accessories). Temperature-

resistant up to 85 °C

Including Supporting frame, lot cover





HL510N-3000

HL037Pr.1E

HL-No.	Dimension	Weight	EAN
510N 510N-3000	DN40/50 DN40/50	546 g 681 g	+051007 +016686

HL510N-3020 Floor drain with frame for tiles HL510Prblue-3020 Like HL510N-3020, but with Primus blue trap

Data

Capacity HL510N-3020:

0,55 l/s with 20 mm stowage height 0,45 l/s with 10 mm stowage height

HL510Prblue-3020:

0,55 l/s with 20 mm stowage height 0,45 l/s with 10 mm stowage height

Material PP, ABS, stainless steel V4A

Outlet DN40/50 horizontal

Extension 132 x 132 mm with stainless steel

frame V4A, cuttable in height

Grate Stainless steel frame and special grate, to be filled with tiles

Size of grate: 104 x 104 x 12 mm

Stench trap HL510N-3020: Height of seal water

50 mm

HL510Prblue-3020: Primus **blue** trap with 50mm seal water

Standard EN 1253, ÖNORM B2501

Load classification K 3 - max. 300 kg

Recommended for e.g. tiled showers, SPA-area

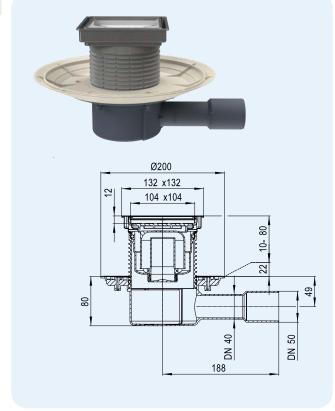
Additional Sound protection acc. ÖNORM

information B8115-2 is reached together with

HL6200 sound insulation pad (see chapter accessories) Temperature-

resistant up to 85 °C

Including Lot cover





HL510N-3020

510N-3020 DN40/50 686 g +034406 1						
	HL-No. 510N-3020 510Prblue-3020	DN40/50	686 g	+034406	Piece/package 1 1	



HL510NG Floor drain with cast iron frame and grate HL510NR like HL510NG, but with round stainless steel cover plate

Data

HL510NG Capacity

0,60 l/s with 20 mm stowage height

HL510NR

0,55 l/s with 20 mm stowage height 0,45 l/s with 10 mm stowage height

Material cast iron/PP, stainless steel V2A

DN40/50, horizontal Outlet HL510NG: 150 x 150 mm, Extension cuttable in height HL510NR: Ø 133 mm,

cuttable in height

HL510NG: 137 x 137 mm, Grate

Cast ironrost

HL510NR: Ø 112 mm Edelstahl

Stench trap Height of seal water 50 mm

Standard EN 1253

Load classification HL510NG: L15 - max. 1,5 t

HL510NR: K 3 - max. 300 kg

Recommended for HL510NG: e.g. carparks, mastic

asphalt

HL510NR: barrier-free showers

Additional Temperature-resistant up to 85 °C

information

Including Lot cover



IL-No.	Dimension	Weight	EAN	Piece/package
10NG	DN40/50	2221 g	+001965	1
10NR	DN40/50	546 g	+006076	1

HL510Prblue Floor drain with Primus blue trap HL510Prblue-3000 like HL510Prblue, but with stainless steel frame

51 51

510Prblue

510Prblue-3000

DN40/50

DN40/50

Data

Material

0,50 l/s with 20 mm stowage height Capacity

0,40 l/s with 10 mm stowage height

PP, stainless steel Outlet DN40/50, horizontal

Extension HL510Prblue: 123 x 123 mm,

cuttable in height

HL510Prblue-3000: 121 x 121 mm. "Klick-Klack-fixing system",

cuttable in height, stainless

steel V4A

Stainless steel grate 115 x 115 mm, Grate

stainless steel V2A

Height of seal water 50 mm and Stench tran

Primus blue (No stench,

with or without water)

EN 1253, ÖNORM B2501 Standard

Load classification K 3 - max. 300 kg

Recommended for Floor drainage with horizontal

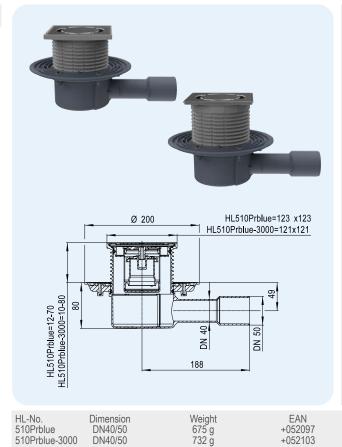
connection

Additional Floor drainage especially at information unfrequent use, no stench with or without water, refilling of water into

the trap is no longer neccessary! Sound protection acc. ÖNORM B8115-2 is reached together with HL6200 sound insulation pad (see chapter accessories). Temperature-

resistant up to 85 °C

Supporting frame, lot cover Including





Piece/package

+052097

+052103

HL510NR

HL038N.3E

HL038N.4E

HL037G.1E

HL037G.2E

HI 0510 7F

HL01067D

HL0300.0EN

HL510K



HL510PrblueG Floor drain with Primus blue odor barrier, cast frame and grate HL510PrblueR like HL510PrblueG, but with round stainless steel cover

Data

Material

Outlet

Capacity HL510PrblueG

0,55 l/s with 20 mm stowage height HL510PrblueR

0,50 l/s with 20 mm stowage height 0,40 l/s with 10 mm stowage height

cast iron/PP, stainless steel V2A DN40/50, horizontal, pluggable and

weldable

HL510PrblueG: 150 x 150 mm, Extension

cuttable in height HL510PrblueR: Ø 133 mm,

cuttable in height

HL510PrblueG: 137 x 137 mm, Grate cuttable in height

HL510PrblueR: Ø 112 mm, cuttable

in height

Height of seal water 50 mm and Stench trap Primus blue (No stench, with

or without water

EN 1253, ÖNORM B2501 Standard

Load classification HL510PrblueG: L15 - max. 1,5 t HL510PrblueR: K3 - max. 300 kg

HL510PrblueG: e.g. carparks, mastic Recommended for

asphalt

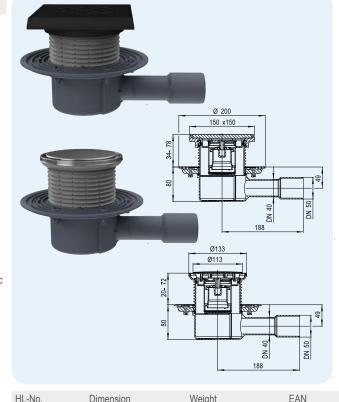
HL510PrblueR: barrier-free showers

Additional Floor drainage especially at information unfrequent use, no stench with or

without water, refilling of water into the trap is no longer necessary! Sound protection acc. ÖNORM B8115-2 is reached together with HL6200 sound insulation pad (see chapter accessories). Temperature-

resistant up to 85 °C

Including Lot cover



HL510PrblueR HL037G.1E HL038N.3E HL0510.12E HL037G.2E HL038N.4E HL01067D HL0300.0EN **HL510K**

HL90Prblue

HI 090 5F

HL037N.2E

HL90Prblue-3000

HL037Pr.1E

HL037N.0E

HL01067D

HL0300.0EN

HI 090 5FKK

HL3200

HL90K

HL510PrblueG

Weight 2425 g Dimension Piece/package 510PrblueG DN40/50 +052172 510PrblueR DN40/50

HL90Prblue Floor drain flat with Primus blue trap HL90Prblue-3000 like HL90Prblue, but with stainless steel frame

Data

Material

0,45 l/s with 20 mm stowage height Capacity 0,4 l/s with 10 mm stowage height

PP, stainless steel V2A

Outlet DN40/50, horizontal, pluggable

and weldable

HL90Prblue: 123 x 123 mm, Extension

cuttable in height

HL90Prblue-3000: 121 x 121 mm, "Klick-Klack-fixing system", cuttable in height, stainless steel V4A

Stainless steel grate 115 x 115 Grate

mm, stainless steel V2A

New Primus blue, Odor trap

combined odor trap with sealing water and mechanical odor barrier (absolutely odor-tight even without water). Backflow-proof up to 50 cm

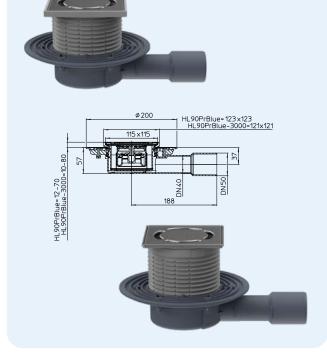
accumulation height

EN 1253, ÖNORM B2501 Standard K 3 - max. 300 kg Load classification

Recommended for Floor constructions < 100 mm Additional Floor drainage especially at information unfrequent use, no stench with or

without water, refilling of water into the trap is no longer neccessary! Sound protection acc. ÖNORM B8115-2 is reached together with HL6200 sound insulation pad (see chapter accessories). Hair catcher HL0541.6E available as accessories! Temperature-resistant

up to 85 °C



HL-No. 90Prblue 90Prblue-3000	Dimension DN40/50 DN40/50	Weight 510 g 564 g	EAN +050505 +050512	1

186 Including Supporting frame, lot cover



HL90Prblue-3020 Floor drain with tilable extension and PRIMUS trap

Data

Capacity 0,5 l/s with 20 mm stowage height

0,45 l/s with 10 mm stowage height

Material PP, ABS, stainless steel V4A

Outlet DN40/50

Extension 132 x 132 mm with stainless steel

frame V4A, cuttable in height

Grate Stainless steel frame and special

grate, to be filled with tiles Size of grate: 104 x 104 x 12 mm

Odor trap New Primus blue,

combined odor trap with sealing water and mechanical odor barrier (absolutely odor-tight even without water). Backflow-proof up to 50 cm

accumulation height

Standard EN 1253, ÖNORM B2501

Load classification K 3 - max. 300 kg

Recommended for e.g. tiled showers, SPA-area, with

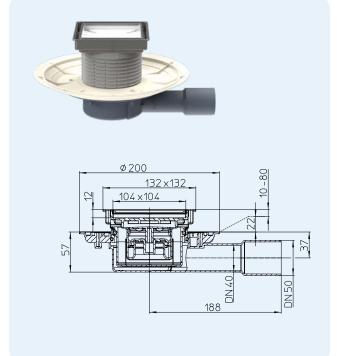
floor levels < 100mm

Additional Sound protection acc. ÖNORM information B8115-2 is reached together with

HL6200 sound insulation pad (see chapter accessories) Hair catcher HL0541.6E available as accessories! Temperature-resistant

up to 85 °C

Including Lot cover





 HL-No.
 Dimension
 Weight
 EAN

 90Prblue-3020
 DN40/50
 570 g
 +05052

HL90PrblueD Floor drain with integrated fleece flange HL90PrblueD-3000 like HL90PrblueD, but with stainless steel frame

Data

Capacity 0,45 l/s with 20 mm stowage height

0,40 l/s with 10 mm stowage height

Material PP/PE, stainless steel

Outlet DN40, horizontal, pluggable and

weldable

Extension HL90PrblueD: 123 x 123 mm,

cuttable in height

HL90PrblueD-3000: 121 x 121 mm, "Klick-Klack-fixing system", cuttable in height, stainless

steel V4A

Grate Stainless steel grate 115 x 115

mm, stainless steel V2A

Odor trap

New Primus blue,
combined odor trap with sealing

water and mechanical odor barrier (absolutely odor-tight even without water). Backflow-proof up to 50 cm

accumulation height

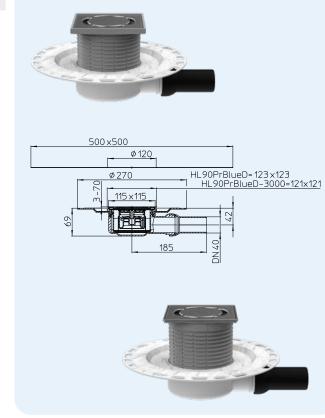
Standard EN 1253, ÖNORM B2501 Load classification K 3 – max. 300 kg

Recommended for Floor constructions < 100 mm

Additional Floor drainage especially at information unfrequent use, no stench with or without water, refilling of water into

without water, refilling of water into the trap is no longer neccessary! Sound protection acc. ÖNORM B8115-2 is reached together with HL6200 sound insulation pad (see chapter accessories). Hair catcher HL0541.6E available as accessories! Temperature-resistant

up to 85 °C



Weight

812 g

855 g



+050543

+050550

90PrblueD

90PrblueD-3000

DN40

DN40



HL540 "Primus Drain" Shower drain, MIN. HEIGHT 80 MM! HL540I "Primus Drain" Shower drain with individual tile hollow, MIN. HEIGHT 80 MM!

Data

Capacity 20 mm above drain level:

HL540=0,8l/s; HL540i=0,6/s 10 mm above drain level: HL540=0,55l/s; HL540i=0,45l/s

Material PP/stainless steel, Frame: V4A

Grate HL540=V2A Grate HL540i=V4A

Outlet DN50 horizontal Height from 8 - 20 cm adjustable

Standard EN 1253

Stench trap 5cm seal water, incl. Primus-trap,

no stench without seal water incl. removable trap inlet, sealing

Additional information

kit with textile coated membrane, sound disconnected adjusting angles, protection cover and lot

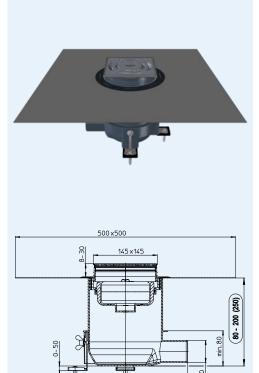
cover

Soundproofing tested Test certificate: www.hl.at

Installation

The drain body might be fixed on the floor with 3 metal angles and can be adjusted in height afterwards. Advantage: maximum sceed covering of the outlet pipe. New: It is no longer necessary to set the drain exactly on the right height of the screed. After filling in the screed, the salient nozzle is cut by a saw. The sealing kit may be inserted without any tools and takes care of a safe connection to the waterproofing. At the end the extension is adjusted and set into the drain. Please take care, that the edges of the frame are underlaid with tile glue to take maximum load.

Please also see installation movie at www. hl.at





HL-No.	Material	Dimension	Weight	EAN	Piece/package
540	PP/Stainless steel	DN50	1533 g	+039029	1
5401	PP/Stainless steel	DN50	1898 g	+039098	1
540-Quadra	PP/Stainless steel	DN50	1898 g	+041817	1
540-Cut	PP/Stainless steel	DN50	1898 g	+041800	1
540-Hamam	PVD-coated	DN50	1898 g	+041824	1

HL066Q.1E, HL066C.1E, HL0540I, HL3928, HL3128E Design grates

Data

Material Stainless steel

Grate HL540I: 138x138mm massive,

Tile hollow: 74x74 mm, depth 13mm

Load classification L - max. 1,5t, HL0540I - K3

Recommended for Shower drain HL540 or floor drain

series HL5100, HL3100, HL72.1

and HL317



HL-No. 066Q.1E 066C.1E	Material Stainless steel V2A Stainless steel V2A	Dimension 138 x 138 x 5 mm 138 x 138 x 5 mm	Weight 607 g	EAN +013623 +031283	Piece/package 1
000C.IE	Stainless steel VZA	130 X 130 X 3 IIIII	608 g	+031203	I
05401	Stainless steel V4A	138 x 138 x 5 mm	638 g	+039104	1
3928	Stainless steel V4A/V2A/PVD-coated	138 x 138 x 5 mm	608 g	+031283	1
3128E	Stainless steel V2A	138 x 138 x 5 mm	595 g	+037094	1



HL541 Primus blue Flat shower drain, MIN. HEIGHT 62MM! HL5411 Primus blue Flat shower drain with individual tile hollow, MIN. HEIGHT 62MM!

Data

20 mm above drain level: Capacity

HL541=0,5l/s; HL541i=0,45/s 10 mm above drain level: HL541=0,4l/s; HL541i=0,4l/s

PP/stainless steel, Frame: V4A Material

Grate HL541=V2A Grate HL541i=V4A

Outlet DN40/DN50 horizontal Height from 62 - 200 (230) mm

EN 1253 Standard K3 - max. 300 kg Load classification

New Primus **blue**, Odor trap

combined odor trap with sealing water and mechanical odor barrier (absolutely odor-tight even without water). Backflow-proof up to 50 cm

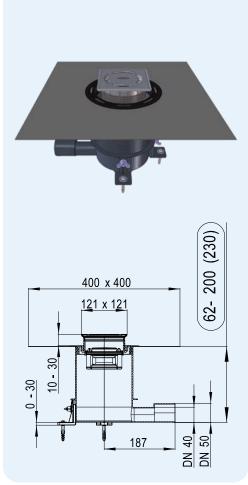
accumulation height

Additional information Incl. removable trap inlet, sealing kit with fleece laminated membrane, adjustable fixing angles, hair catcher, lot cover and protection

Installation

on the floor with 3 metal angles and can be adjusted in height set the drain exactly on the right height of the screed. After filling takes care of a safe connection to the waterproofing. At the end into the drain. Please take care, that the edges of the frame are

The drain body might be fixed afterwards. Advantage: maximum sceed covering of the outlet pipe. New: It is no longer necessary to in the screed, the salient nozzle is cut by a saw. The sealing kit may be inserted without any tools and the extension is adjusted and set underlaid with tile glue to take maximum load.





HL-No.	Material	Dimension	Weight	EAN	Piece/package
541	PP/Stainless steel	DN40/50	-	+047642	1
5411	PP/Stainless steel	DN40/50	-	+047659	1
541-Quadra	PP/Stainless steel	DN40/50	-	-	1

HL0541I, HL3120, HL3121, HL3122, HL3123, HL3124, HL3125, HL3127 Design grates

Daten

Please also see

installation movie and

movie "function of

Primus blue at www.hl.at

Material Stainless steel V4A

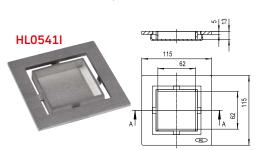
Grate Stainless steel grate 115 x 115 mm

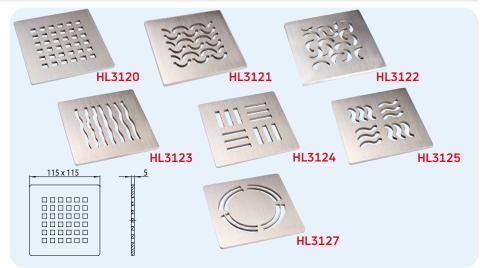
Load classification L - max. 1,5 t

Recommended for Floor drain series HL70, HL80,

HL300, HL304, HL310, HL510, HL90 combined with extensions

HL3200 or HL3210 HL0541I: HL541





HL-No.	Dimension	Weight	EAN	Piece/package
3120	115 x 115 mm	425 g	+015412	1
3121	115 x 115 mm	425 g	+015429	1
3122	115 x 115 mm	425 g	+015443	1
3123	115 x 115 mm	425 g	+015443	1
3124	115 x 115 mm	425 g	+015450	1
3125	115 x 115 mm	425 g	+015467	1
3127	115 x 115 mm	430 g	+029037	1
05411	115 x 115 mm	800 g	+048304	1



HL5100 Floor drain with high capacity

Data

Capacity 1,0 l/s

Material PE, stainless steel

DN50/75. Outlet

horizontal, pluggable and weldable

Extension Stainless steel V4A, 145 x 145

mm, "Klick-Klack"-locking system,

cuttable in height

Grate Stainless steel V2A, 138 x 138 mm

Stench trap Height of seal water 50 mm

EN 1253 Standard

Load classification K 3 - max. 300 kg

Recommended for e.g. barrier-free showers with high

volume (Raindance)

Additional with stainless steel frame, Sound information

protection acc. ÖNORM B8115-2 is reached together with HL6200

sound insulation pad (see chapter accessories). Temperature-

resistant up to 85 °C

Including Supporting frame, lot cover



HL5100Pr Floor drain with high capacity, with PRIMUS trap

Data

Capacity 0.8 l/s

Load classification

Material PE, stainless steel

Outlet

horizontal, pluggable and weldable

Extension Stainless steel V4A, 145 x 145

mm, "Klick-Klack"-locking system,

cuttable in height

Grate Stainless steel V2A, 138 x 138 mm

Stench trap Height of seal water 50 mm and

PRIMUS (No stench, with or

without water)

EN 1253, ÖNORM B2501 Standard

K 3 - max. 300 kg Recommended for e.g. barrier-free showers

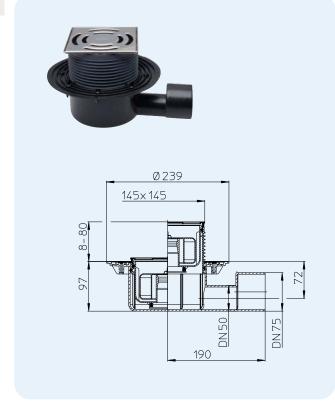
with high volume (Raindance)

Additional with stainless steel frame, Floor information

drainage especially at unfrequent use, no stench with or without water, refilling of water into the trap is no longer neccessary! Sound protection acc. ÖNORM B8115-2 is reached together with HL6200

sound insulation pad (see chapter accessories). Temperatureresistant up to 85 °C

Including Supporting frame, lot cover





HL03910.1E

HL03900.0E

HL2100

EAN Piece/package Dimension



HL72.1N Floor drain HL72.1 like HL72.1, but with plastic grate

Data

Grate

Capacity 1,5 l/s

Material PP, stainless steel V2A

Outlet DN75/110

Extension 150 x 150 mm, cuttable in height

HL72.1: Plastic grate

138 x 138 mm,

HL72.1N: Stainless steel grate

138 x 138 mm

Stench trap Height of seal water 60 mm

Standard EN 1253

Load classification K 3 – max. 300 kg

Recommended for e.g. barrier-free showers with with

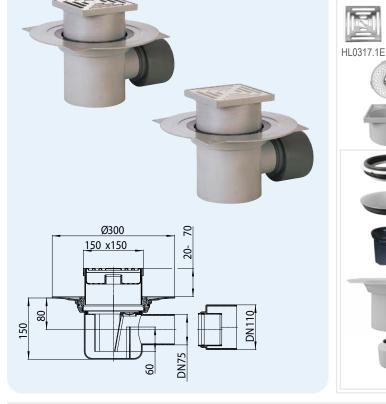
high volume (Raindance)

temperature-resistant up to 95 °C

Additional information

Including

Lot cover and Sand trap



HL72.1N

HL72.1

HL072.1E

HL0317.5E

HL0317.2E

HL01059D

HL072.3E

HL0317.4E

HL72.1K

HL-No.	Dimension	Weight	EAN	Piece/package
72.1N	DN75/100	133Ŏ g	+107216	1
72.1	DN75/100	1330 g	+710720	1

HL72.1HN Floor drain with bitumen collar HL72.1H Floor drain with bitumen collar and plastic grate

Data

Capacity 1,5 l/s

Material PP, stainless steel V2A

Outlet DN75/110

Extension 150 x 150 mm, cuttable in height

Grate HL72.1H: Plastic grate

138 x 138 mm,

HL72.1HN: Stainless steel grate

138 x 138 mm

Stench trap Height of seal water 60 mm

Standard EN 1253

Load classification K 3 – max. 300 kg

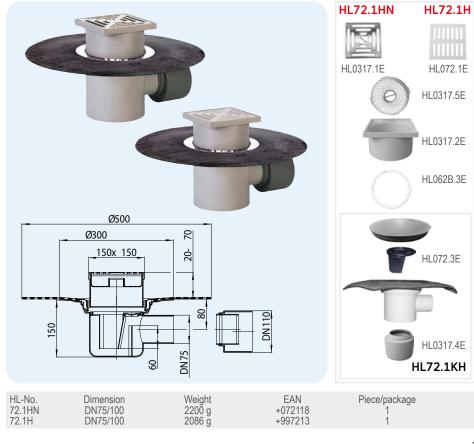
Recommended for e.g. barrier-free showers with high

volume (Raindance)

Additional temperature-resistant up to 95 °C

information

Including Lot cover and Sand trap





HL Floor drains - Accessories - Data

HL37N Standard extension

Data

Material PP, stainless steel V2A
Extension PP-Frame 123 x 123 mm,

extension cuttable in height

Grate Stainless steel grate 115 x 115 mm

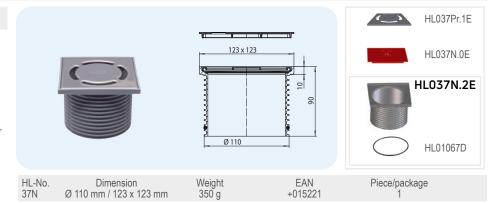
Load classification K 3 – max. 300 kg

Recommended for Drain bodies of series HL70, HL80,

HL300, HL304, HL310, HL510,

HL90

Including Supporting frame



HL37N.1 HL37Prblue HL37FPrblue Extension with water trap

Extension with Primus blue trap
Extension with flat Primus blue trap

Data

Grate

Material PP, stainless steel V2A Extension PP-Frame 123 x 123 mm,

extension cuttable in height
Stainless steel grate 115 x 115 mm

Stench trap HL37N.1: Water trap

HL37Prblue: Primus **blue**

trap HL37FPrblue:

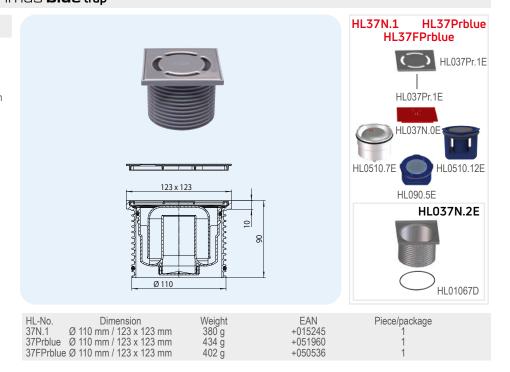
Primus **blue** trap "flat"

Load classification $\,$ K 3 - max. 300 kg

Recommended for Drain bodies of series HL310 and

HL510

Including Supporting frame



HL3000 Extension system "Klick-Klack" with stainless steel frame HL3011 Extension system "Klick-Klack" with stainless steel frame, screwed

Data

Material PE, stainless steel

Extension Stainless steel frame 121 x 121

mm, extension cuttable in height,

stainless steel V4A

Grate Stainless steel grate 115 x 115 mm,

stainless steel V2A

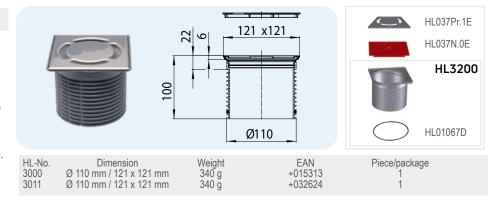
Load classification K 3 – max. 300 kg

Recommended for Drain bodies of series HL70, HL80,

HL300. HL304. HL310. HL510.

HL90

Including Supporting frame





HL3000.1 Extension "Klick-Klack", including water trap

HL3000Prblue Extension "Klick-Klack", including Primus blue trap

HL3000FPrblue Extension, including Primus blue trap - flat

Data

Material PE. stainless steel

Extension Stainless steel frame 121 x 121

mm, extension cuttable in height,

stainless steel V4A

Grate Stainless steel grate 115 x 115 mm,

stainless steel V2A

Stench trap HL3000.1: Water trap

HL3000Prblue: Primus

blue trap HL3000FPrblue:

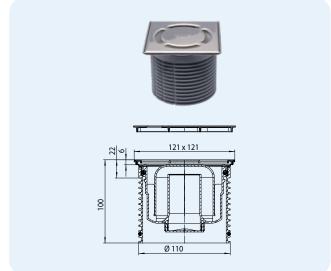
Primus **blue** trap "flat"

Load classification K 3 - max. 300 kg

Recommended for Drain bodies of series HL310 and

HL510

Supporting frame Including



Dimension Ø 110 mm / 121 x 121 mm Ø 110 mm / 121 x 121 mm Ø 110 mm / 121 x 121 mm

HL-No. 3000.1

3000Prblue 3000FPrblue

	HL01067D	
EAN +015337 +051977	Piece/package 1 1	

HL0510.7EKK

HL3200

+050574

HL3000.1 HL3000Prblue

HL3000FPrblue

HL037Pr.1E

HL037N.0E

HI 090 5FKK

HL0510.12EKK

HL03020.1E

HL03020.2E

HL037Pr.1E

HL037NP.2E

HL01067D

HL340N

HL3020 Tilable extension

Data

Material PP, stainless steel V4A

Extension 132 x 132 mm with stainless steel

frame, cuttable in height

Grate Stainless steel frame and special

grate, to be filled with tiles; Size of

grate: 104 x 104 x 12 mm

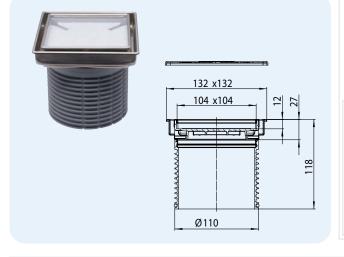
Load classification K 3 - max. 300 kg

Recommended for e.g. tiled showers, SPA-area

Including Lot cover

> Fits for all drain bodies with higher lot cover HL70K-3020, HL80K-3020. HL90K-3020. HL300K-3020. HL304K-3020, HL310K-3020,

HL510K-3020



Dimension Ø 110 mm / 132 x 132 mm Weight 350 g HL-No. EAN Piece/package

425 g 482 g

HL37NP Extension with PVC frame and collar

Data

Material PP/PVC, stainless steel V2A

PVC frame and collar Extension

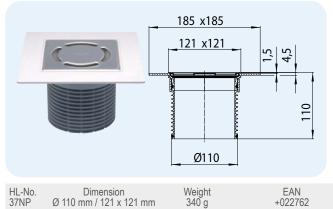
> 185 x 185 mm / 121 x 121 mm, Extension cuttable in height

Grate Stainless steel grate 115 x 115 mm

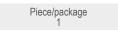
K 3 – max. 300 kg Load classification

Recommended for PVC floor coverings, for gluing

PVC coverings directly on the collar, fits to all floor drains of series HL70, HL80, HL300, HL304, HL310, HL510, HL90



Ø 110 mm / 121 x 121 mm



+022762



HL37NP.1 Extension with PVC collar and frame, including water trap HL37PPrblue Extension with PVC collar and frame, including Primus blue trap

Data

Material PP/PVC, stainless steel V2A

Extension PVC frame and collar

185 x 185 mm / 121 x 121 mm, Extension cuttable in height

Grate Stainless steel grate 115 x 115 mm

HL37NP.1: Water trap Stench trap

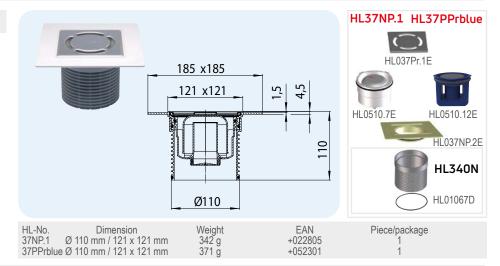
HL37PPrblue: Primus blue

trap

Load classification K 3 - max. 300 kg

Recommended for PVC floor coverings, for gluing

> PVC coverings directly on the collar, fits to all floor drains of series HL310 and HL510



HL38P Extension for connection to PVC- and rubber floor coverings

38P

Data

Material PP/ABS, stainless steel V2A Extension Plastic frame 138,5mm

Grate Stainless steel grate V2A 115mm Trap Water trap with 50mm water height

Load classification K 3 - max. 300 kg

Recommended for clamping of PVC- or rubber floor

coverings from 1-4 mm, fits for drain series HL70. HL80. HL300.

HL304 HL310 and HL510



Weight 650 g Dimension EAN Ø 110 mm / Ø 115 mm +036097

HL038P.1E HL038P.3E HL038P.2E HI 038P4F Piece/package

HL038.3E

HL01067D

HL38Prblue

HL038N.3E

HL0510.12E

HL01067D

HL38N.1

HL0510.7E

HL038N.4E

HL38N Round extension

Data

PP, stainless steel V2A Material

Extension Stainless steel frame Ø 133 mm,

extension cuttable in height

Stainless steel cover plate Grate

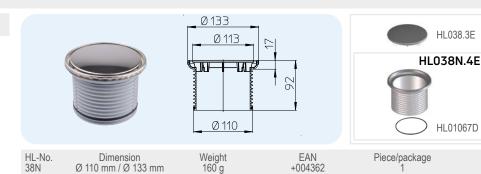
Ø 112 mm

K 3 – max. 300 kg Load classification

tiled showers, fitting to floor drain Recommended for

series HL70, HL80, HL90, HL300,

HI 304



HL38N.1 Round extension with water trap HL38Prblue Round extension with Primus blue trap

Data

Extension

Material PP, stainless steel V2A

extension cuttable in height

Stainless steel frame Ø 133 mm,

Grate Stainless steel cover plate

Ø 112 mm

Stench trap HL38N.1: Water trap

HL38Prblue: Primus blue

Load classification K 3 - max. 300 kg

Recommended for tiled showers, fitting to floor drain

series HL310 and HL510





HL39G Extension with cast iron frame and grate

Data

Material PP, cast iron

Extension Cast iron 150 x 150 mm, extension

cuttable in height

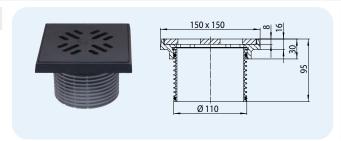
Grate Cast iron 137 x 137 mm Load classification L15 bzw. A15 - max. 1,5 t

Recommended for Mastic asphalt, carparks; Drain

bodies of series HL70, HL80, HL300, HL304, HL310, HL510,

39G

HI 90





HL-No. Dimension Weight FAN Piece/package Ø 110 mm / 150 x 150 mm +000647 2025 g

HL3910 Extension for HL3100 and 5100 series

Data

Material PP, stainless steel V2A Extension Stainless steel frame V4A

145 x 145 mm, extension cuttable

in height

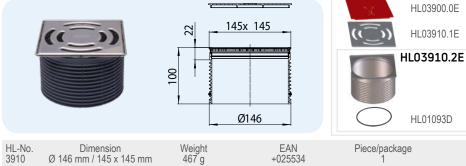
Stainless steel grate V2A Grate

138 x 138 mm K 3 - max. 300 kg

Load classification

Recommended for Drain bodies of series HL3100 and

Including Supporting frame



Ø 146 mm / 145 x 145 mm

HL3910.1 Extension for series 60 Plus, including water trap HL3910Pr Extension for series 60 Plus, including Primus trap

Data

Material PP, stainless steel

Extension Stainless steel frame V4A

145 x 145 mm, extension cuttable

in height

Grate Stainless steel grate V2A 138 x

138 mm

HL3910.1: Water trap Stench trap

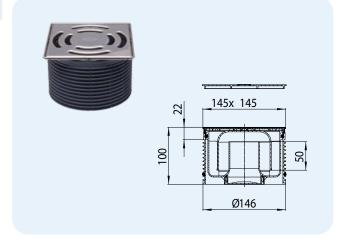
HL3910Pr: Primus trap

Load classification K 3 - max. 300 kg

Drain bodies of series HL3100 and Recommended for

HL5100

Including Supporting frame





HL3910Pr

HL3910.1

HL-No Dimension Weight 592 g 630 g EAN 3910.1 Ø 146 mm / 145 x 145 mm +025541 Ø 146 mm / 145 x 145 mm +025558 Piece/package

HL3911 Extension for series 60 Plus with screwable grate

Data

Material PP, stainless steel

Extension Stainless steel frame V4A

145 x 145 mm, extension cuttable

HL-No.

in height

Grate Stainless steel grate V2A 138 x

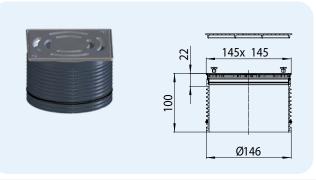
138 mm

Load classification K 3 - max. 300 kg

Drain bodies of series HL3100 and Recommended for

HL5100

Including Supporting frame





HL03911.3E

Dimension Ø 146 mm / 145 x 145 mm FAN Weight 470 g Piece/package +028252



HL3928 Extension "HAMAM" for floor drain series HL3100 and HL5100

Data

Material PP, stainless steel

Extension Brass plated stainless steel V4A

frame 145 x 145mm

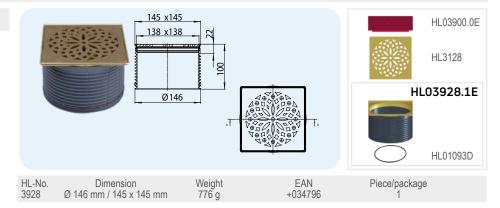
Grate Brass plated stainless steel V2A

138 x 138 mm

Load classification L 15 - max. 1,5 t

Recommended for Floor drain series HL3100 and

HL5100



HL3910G Extension cast iron for floor drain series HL3100 and HL5100

Data

Material PP, Cast iron

Extension Cast iron frame 190 x 190mm,

height 45 - 80 mm

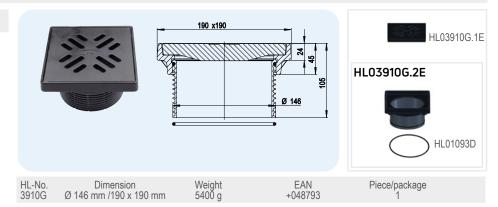
Grate Cast iron grate 175 x 175mm

Load classification B - 12,5 t

Recommended for Car parks, warehouses, garbage

rooms, mastic asphalt; fits for drain bodies of series HL3100(T)

and HL5100(T)



HL66, HL66Q, HL66.1 Extensions with screwable grate

Data

Material PP, Stainless steel

Extension Stainless steel frame V2A,

150 x 150 mm, extension cuttable

in height

Grate HL66 Screwable stainless steel

grate V4A 138 x 138 mm HL66Q Design grate V4A 138 x 138 mm "Quadra" HL66.1 Anti-slip grate V4A 138 x 138 mm, stainless steel, screwable

Load classification L 15 - max. 1,5 t

Recommended for Drain bodies of series HL72.1 and

HL317



HL-No.	Dimension	Weight	EAN	Piece/package	
66	Ø 145 mm / 150 x 150 mm	915 q	+700660	1	
66Q	Ø 145 mm / 150 x 150 mm	1070 g	+013609	1	
66.1	Ø 145 mm / 150 x 150 mm	1000 g	+702664	1	



HL66.3 Extension with stainless steel grate HL66.4 Extension with plastic grate

Data

Material HL66.3: PP, Stainless steel V2A

HL66.4: PP

Extension PP-Frame 150 x 150 mm,

Extension cuttable in height

Grate HL66.3: Stainless steel grate

138 x 138 mm

HL66.4: Plastic grate 138 x 138 mm

Load classification K 3 - max. 300 kg

Recommended for Drain bodies of series HL72.1 and

HI 317



HL-No. 66.3	Dimension Ø 145 mm / 150 x 150 mm	Weight 352 g	EAN +014545	Piece/package	
66.4	Ø 145 mm / 150 x 150 mm	238 g	+014569	1	

HL3110, HL03910.3E Stainless steel grate V4A

Data

Material Stainless steel V4A

Grate HL3110:

Stainless steel grate 115 x 115 mm

HL03910.3E:

Stainless steel grate 138 x 138 mm

Load classification K 3 – max. 300 kg

Recommended for chlorinated sewer, e.g. in

swimming pools





HL66.4

HL072.1E

HL0317.2E

3110 115)	nension Weight	EAN	Piece/package
	x 115 mm 162 g	+015634	1
	x 138 mm 255 g	+025916	1



HL3120, HL3121, HL3122, HL3123, HL3124, HL3125, HL3127 Design grates

Data

Material Stainless steel V2A

Grate Stainless steel grate 115 x 115 mm

Load classification L – max. 1,5 t

Recommended for Floor drain series HL70, HL80,

HL300, HL304, HL310, HL510, HL90 combined with extensions

HL3200 or HL3210



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Ø 300















HL Products

Ø 145

14. Sealing kits Extensions

14











HL Sealing kits – Products – Overview

More details to the chapter "Sealing kits" please see chapters floor drains, barrier free showers, balcony/terraces and waterproofing

For drain types	Kind of water proofing		
	For 2-component water proofings like epoxy resins or flexible sealing compounds	For EPDM sheetings, bitumen coatings; weldable with bitumen sheetings	For welding of bitumen sheetings
HL83.M = HL70, HL80, HL90, HL92, HL300, HL304, HL310-series, HL510-series Extension: HL85N	HL83.M	HL83	HL83.H*
HL3100(T) and HL5100(T) Extension: HL8500	HL8300.M	HL8300	HL8300.H*
HL72.1 and HL317 Extension: HL350.1			
	HL84.M	HL84	**
HL615 and HL616			
Extension: HL618			
	HL86.M	HL86	HL86.H
Roof drain types HL62, HL63, HL64 and HL69			
Extension: HL65			
	_	_	HL84.H

^{*} also available as drain with prefabricated bitumen flange at drain series HL80, HL615, HL616, roof drain series HL62, HL64, HL63, HL69 and extensions HL85, HL618, HL65.

^{**} available as drain with prefabricated insulation flange!

^{***} Sealing kit connectable (without sheeting) with on-site sheetings



PVC-sheetings	FPO-sheetings	For clamping of elastic onsite sheetings	Roofs with copper sheeting	Zinc-plated steel roofs
HL83.P	HL83.PP	HL83.0	_	_
TT	HL8300.PP	HL8300.0	_	_
***	***	HL84.0		_
***	***	HL86.0	_	_
**	**	**	HL84.CU	HL84.E



HL Extensions – Products – Overview

For drain types	For the height adjustment; Connection to 2-component water proofings	For the height adjustment of the flange	For the height adjustment; Connection to bitumen sheetings
HL70, HL80, HL90, HL300, HL304, HL310- series, HL510-series			
	HL85NC / HL85N + HL83.M	HL85N	HL85NH
HL3100 and HL5100	HL8500 + HL8300.M	HL8500	HL8500H
HL72.1 and HL317			
TIETZ. T AND TIEGTT	HL350.0	HL350.0	HL350.1H
HL615 and HL616	HL618 + HL86.M	HL618	HL618H
Roof drain types HL62 and HL64	_	HL65	HL65H
Balcony and terrace drain HL92			
	_	_	-



For the height adjustment; Connecto PVC sheetings	tion For the height adjustment; Connection to FPO sheetings	For the elongation of the extension
HL85N + HL83.P	HL85N + HL83.PP	HL340N
HL8500 + HL8300.P	HL8500 + HL8300.PP	HL3400
HL350.0	HL350.0	HL350
HL618 + HL86.0	HL618 + HL86.0	HL620
HL65P	HL65F (HL65PE)	HL350
_	_	HL320



HL Sealing kits - Products - Data

HL83.0, HL8300.0, HL84.0, HL86.0 Sealing kit without water proofing

Data

Material Stainless steel V2A

Dimension **HL83.0**: Ø 196 x 114 mm

HL8300.0: Ø 238 x 148 mm **HL84.0**: Ø 220 x 155 mm

HL86.0: Ø 278 x 198 mm

Recommended for Connection of on-site sheetings to

the flange

Fits to **HL83.0**: HL70, HL80, HL90,

HL92, HL300, HL304, HL310series, HL510-series and extension element HL85N **HL8300.0**: HL3100(Pr) and HL5100(Pr) and extension

HL8500

HL84.0: HL72.1 and HL317 **HL86.0**: HL615 and HL616 and

extension HL618





HL83.M, HL8300.M, HL84.M, HL86.M Sealing kit with textile coated membrane

Data Material Stainless steel V2A/ Textile coated membrane Dimension HL83.M: Flange Ø 196 x 114 mm Textile coated membrane 400 x 500 mm HL8300.M:

Flange Ø 238 x 148 mm
Textile coated membrane
500 x 500 mm

HL84.M: Flange Ø 220 x 155 mm

Textile coated membrane

500 x 500 mm

HL86.M: Flange Ø 278 x 198 mm Textile coated membrane

500 x 500 mm

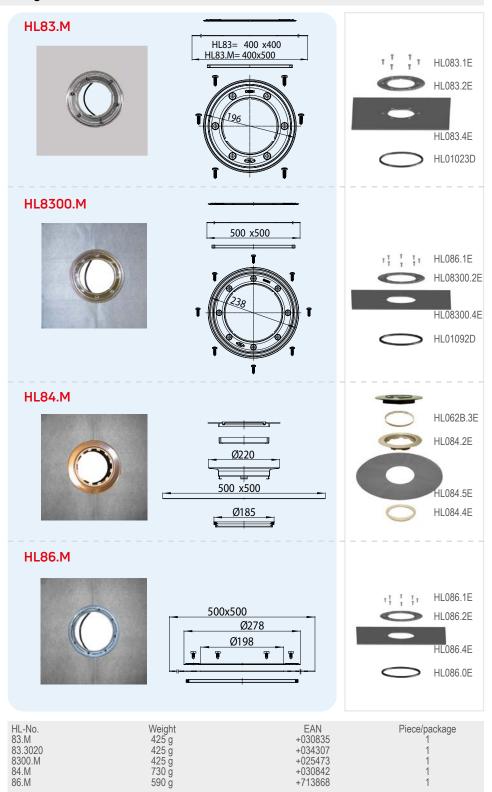
Recommended for 2-component water proofings

like epoxy resins or flexible sealing compounds

Fits to **HL83.M**: HL70, HL80, HL90,

HL92, HL300, HL304, HL310series, HL510-series and extension element HL85N HL8300.M: HL3100(Pr) und HL5100(Pr) and Extension HL8500 HL84.M: HL72.1 und HL317 HL86.M: HL615 und HL616 and

Extension HL618





HL83, HL8300, HL84, HL86 Sealing kit with EPDM-sheet

Data **HL83** Material Stainless steel V2A/ EPDM HL83= 400 x400 HL83.M= 400x500 HL083.1E Dimension **HL83**: Flange Ø 196 x 114 mm HL083.2E EPDM-sheet 400 x 400 mm **HL8300**: Flange Ø 238 x 148 mm EPDM-sheet 500 x 500 mm **HL84**: Flange Ø 220 x 155 mm HL083.3E EPDM-sheet 500 x 500 mm **HL86**: Flange Ø 278 x 198 mm HL01023D EPDM-sheet 500 x 500 mm Recommended for EPDM sheetings, bitumen coatings; weldable with bitumen HL8300 sheetings HL83: HL70, HL80, HL90, HL92, 500 x500 Fits to HL086.1E HL300, HL304, HL310-series, HL08300.2E HL510-series and extension element HL85N HL8300: HL3100(Pr) HL08300.3E and HL5100(Pr) and HL01092D Extension HL8500 HL84: HL72.1 and HL317 HL86: HL615 and HL616 and Extension HL618 **HL84** HL062B.3E HL084.2E 500 x500 HL084.3E Ø185 HL084.4E **HL86** HL086.1E HL086.2E Ø278 Ø198 Ţ HL086.3E HL086.0E Weight 425 g 601 g 730 g EAN +710836 +025466 +710843 HL-No. Piece/package 83 8300 84

+710867

86



HL83.H, HL8300.H, HL84.H, HL86.H Sealing kit with bitumen sheet

Data **HL83.H** TT TT Material Stainless steel V2A/ bitumen Dimension **HL83.H**: Flange Ø 196 x 114 mm T HL083.H1E Bitumen collar 500 x 500 mm **HL8300.H**: Flange Ø 238 x 148 mm 500 Bitumen collar 500 x 500 mm **HL84.H**: Flange Ø 220 x 155 mm HL01023D Bitumen collar 500 x 500 mm **HL86.H**: Flange Ø 278 x 198 mm 500 Bitumen collar 500 x 500 mm Recommended for Welding of bitumen water proofings HL8300.H Fits to **HL83.H**: HL70, HL80, HL90, HL92, HL300, HL304, HL310series, HL510-series as well as TT T HL086H.1E extension element HL85N HL8300.H: HL3100(Pr) und 500 HL5100(Pr) and Extension HL8500 HL01092D HL84.H: Roof drain types: HL62, HL64, HL63, Extension: HL65 500 HL86.H: HL615 und HL616 and Extension HL618 **HL84.H** 500 x500 HL084.7E **HL86.H** " T HL086H.1E 200 > HL086.0E 500 EAN +008315 +025480 +011841 HL-No. 83.H 8300.H Weight 1560 g 1560 g 1707 g Piece/package

1590 g

+008612



HL83.P, HL83.PP Sealing kit with PVC or PP flange

Data

Material **HL83.P**: PVC

HL83.PP: PP

Dimension **HL83.P**: Flange Ø 290 mm

HL83.PP: Flange Ø 290 mm

Recommended for HL83.P: PVC sheetings

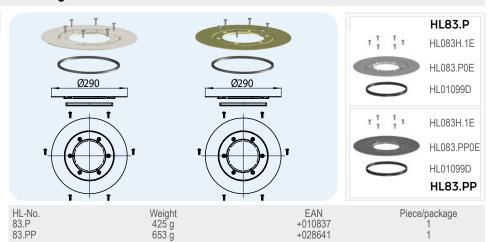
HL83.PP: FPO sheetings, based

on PP

Fits to HL70, HL80, HL90, HL92, HL300,

HL304, HL310-series, HL510-series as well as extension

element HL85N



HL8300.P, HL8300.PP Sealing kit with PVC- respectively PP flange

Data

Material **HL8300.P**: PVC

HL8300.PP: PP

Dimension **HL8300.P**: Flange Ø 350 mm

HL8300.PP: Flange Ø 350 mm

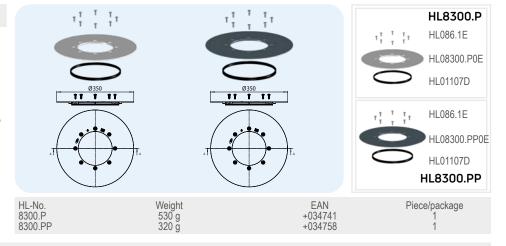
Recommended for HL8300.P: PVC waterproofings

HL8300.PP: FPO waterproofings,

based on PP

Fits to Drain series HL3100 and HL5100,

extension HL8500



HL84.CU, HL84.E Sealing kit with copper collar or zinc-plated collar

Data

Material **HL84.CU**: Copper

HL84.E: Zinc-plated steel

Dimension **HL84.CU**: 500 x 500 mm

HL84.E: 500 x 500 mm

Recommended for HL84.CU: Copper roof sheetings

HL84.E: Zinc-plated roof

sheetings

Fits to Roof drain series HL62, HL63,

HL64, HL65 and HL69





HL Extensions - Products - Data

HL320, HL340N, HL3400, HL350, HL620 Extension

HL62, HL63, HL64, HL65, HL69 **HL620**: HL615 und HL616

Material **HL320**: Ø 90 mm, h: 35 mm Dimension **HL340N**: Ø 110 mm, h: 100 mm **HL3400**: Ø 146 mm, h: 200 mm **HL350**: Ø 145 mm, h: 130 mm **HL620**: Ø 195 mm, h: 100 mm Recommended for Height adjustment of the drain HL320: HL92 Fits to HL340N: HL70, HL80, HL90, HL300, HL304, HL310series, HL510-series and extension element HL85N HL3400: Series HL3100 and HL5100 HL350: HL72.1, HL317,

Data





HL85N, HL8500, HL350.1, HL350.0, HL618, HL65 Extension with flange Ø220 Data HL85N Ø 110 Material Dimension **HL85N**: Ø 110 x 220 mm, h: 204 mm **HL8500**: Ø 146 x 239 mm, h: 202 mm HL350.1 (HL350.0): HL01067D Ø 145 x 300 mm, h: 180 mm ø 110 **HL618**: Ø 195 x 315 mm, h: 95 mm Ø246 HL8500 Ø 146 **HL65:** Ø 125 x 354 mm, HL03100.0E h: 260 mm Recommended for Height adjustment of the drain to the water proofing level HL85N: HL70, HL80, HL90(Pr), Fits to HL01093D HL300, HL304, HL310-series, HL510-series Ø 146 HL8500: HL3100(Pr) and HL5100(Pr) HL350.1 (HL350.0) HL350.1 (HL350.0) HL062B.3E HL72.1, HL317, HL62, HL63, HL64, HL65 and HL69 HL084.2E HL618: HL615, HL616 Ø300 HL65: HL62, HL64 HL084.3E 220 HL084.4E 8 Ø145 HL01059D HL01058D **HL618** Ø315 Ø195 155 95 HL01056D Ø195 HL062.4E HL65 Ø354 Ø203 HL170 HL062.3E 345 8 DN 125 HL01020D Weight 395 g 320 g 680 g 1440 g EAN +006120 +025572 +032358 HL-No. 85N 8500 Piece/package 350.0 350.1 618

500 g

1440 g

65

+703517

+013159

+800650



HL85NC "CeraDrain" extension with polymer concrete collar

Data

Material PP / polymer concrete
Dimension Ø 110 mm, h: 130 mm,

Flange: 260 x 260 mm, Steel mesh:

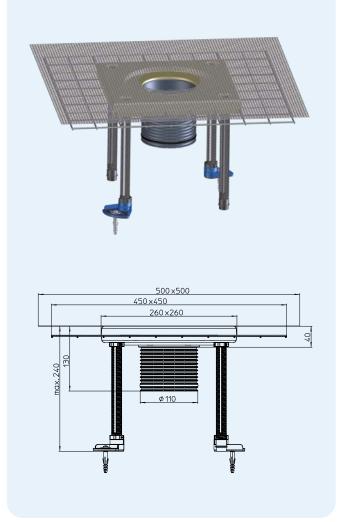
450 x 450 mm

Recommended for Especially for 2-component

liquid waterproofings; with polymer concrete collar and steel mesh, adjustment screws and glassfibre mat for crack bridging

Fits to drain types

HL85NC: HL70, HL80, HL90,HL300, HL304, HL310series,HL510-series







HL85NH, HL8500H, HL350.1H, HL618H, HL65H Extension with bitumen welded flange

Data

Fits to

Material PP / stainless steel / bitumen

Dimension HL85NH: Ø 110 mm, h: 204 mm,

> Bitumen collar: Ø 420 mm **HL8500H:** Ø 146, h: 202 mm, Bitumen collar: 500 x 500 mm HL350.1H: Ø 145. h: 180 mm, Bitumen collar: Ø 500 mm **HL618H**: Ø 195 mm. h: 95 mm. Bitumen collar: 500 x 500 mm **HL65H:** Ø 125 mm, h: 260 mm,

Bitumen collar: Ø 500 mm

Recommended for Bitumen waterproofings

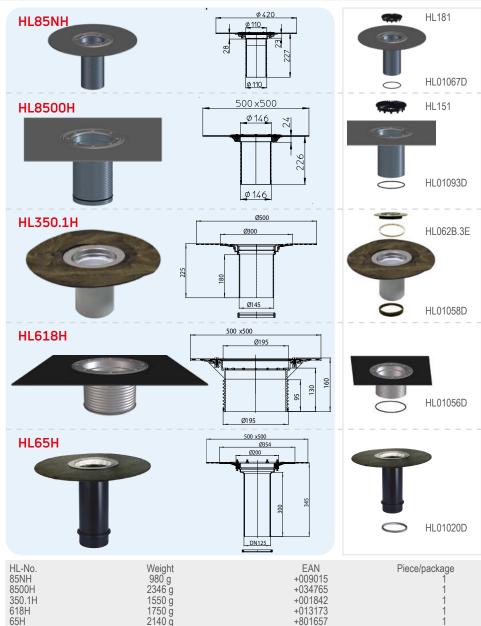
> HL85NH: HL70, HL80, HL90, HL300, HL304, HL310-series,

> > HL510-series

HL8500H: HL3100(Pr)(T),

HL5100 (Pr)(T)

HL350.1H: HL72.1, HL317, HL62, HL63, HL64, HL65, HL69 HL618H: HL615 and HL616 HL65H: HL62, HL64



L-No.	Weight	EAN
5NH	980 g	+009015
500H	2346 g	+034765
50.1H	1550 g	+001842
18H	1750 g	+013173
5H	2140 g	+801657

HL65P, HL65F, HL65PE Extension with PVC flange or PP flange

Data

Material HL65P: PVC

HL65F: PP HL65PE: PE

HL65P: Ø 125 mm, h: 350 mm, Dimension

Flange: Ø 354 mm

HL65F, HL65PE: Ø 125 mm, h: 345 mm, Flange: Ø 355 mm

HL65P: PVC roof sheetings Recommended for

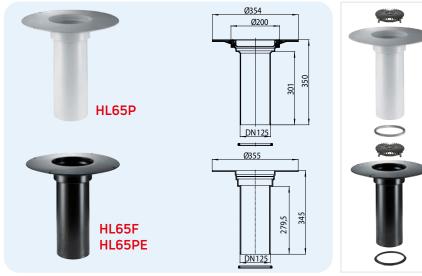
HL65F: FPO roof sheetings,

based on PP

HL65PE: FPO roof sheetings,

based on PE

Fits to roof drains HL62 and HL64





HL170

HL-No.	Weight	EAN	Piece/package
65P	1370 g	+022588	1
65F	830 g	+031900	1
65PE	850 g	+035915	1



Ø 315



















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HL Major drains

15. Terraces, patios, car parks a.s.o.











PERFECT SERIES



HL Major drains PERFECT SERIES

Basic information about design and installation

When designing big open spaces, car parkings or roof terraces, the drainage of rain water becomes more and more important due to the increasing rainfall. For this reason we would like to bring closer to you the different combination possibilities of our drain series "Perfect".

- ▲ Calculation of the quantity of drains: For the calculation of the quantity of the fitting drains we recommend to use as a basis the standard rain yield factor of 400 l/ (s x ha), according EN12056. Please find examples in chapter "Flat roof drains".
- ▲ Adjustment of the grate level to the level of the pavement:

When connecting the drain to the sewage pipe, one has often the problem, that the final height level is not yet fixed or known. That means, that in advance it is nearly impossible to reach the right final level of the pavement.

Therefore we recommend the usage of twopart drains: First you connect the drain body to the sewage pipe; in this phase the drain body works as a temporary drainage. When the further pavement (asphalt, concrete, cobblestone..) is known, the extension is set on the drain body and may be adjusted in height simply by cutting. That eases the creation of the slope to the drain.

▲ Load classifications

When selecting the drain please take care to use the right load classification according EN1253. With our "Perfect"-series you may reach load classifications A015, B125, H1,5, K3, L15 and M125, depending on the material of the grate or the frame. At the installation you have to care for a stable relining of the frame to reach a smooth force distribution to the subsoil.

▲ May plastic drains be used also for mastic asphalt?

The advantages of plastic drains, namely low weight and therefore easy handling, are wellknown. By using combinations of plastic drain bodies and massive cast iron frames and grates the direct seting into mastic asphalt with high temperatures is possible.

▲ Stench trap

In principle rainwater should be connected to a special rainwater duct or should be oozed away (acc. DIN1986-100). Should this not be possible, one should avoid the rise of stench from the sewage system to the drain by using traps. For inside HL provides normal water traps, for outside we recommend the usage of frost-proof flaps.

Relevant standards/directives

ÖNORM B 2501 Drainage of buildings

DIN 1986-100 Drainage systems for buildings and estates

EN 1253..... Drains for buildings

ÖNORM B2209 Waterproofing works

ÖNORM B2220 Roof waterproofings with bitumen

and plastic sheetings

ÖNORM B7209 Waterproofings for buildings

ÖNORM B7220 Roofs with waterproofings

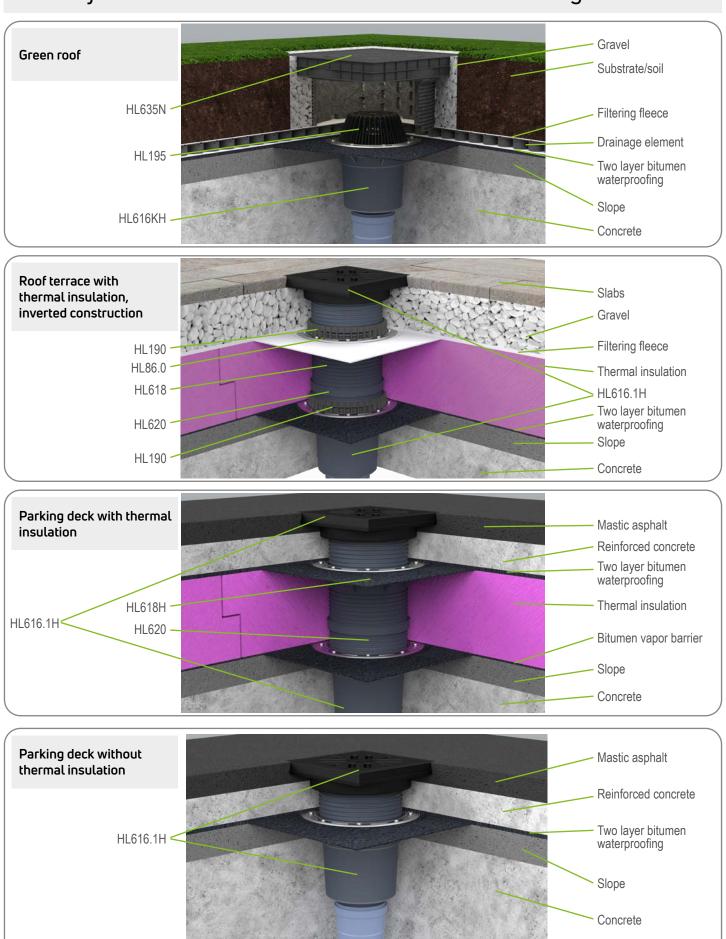


Selection of the convenient drain

Selective criteria	Requirements	Product
Drainage surface	When you calculate the quantity of occuring rain water acc. ÖNORM B2501 and DIN 1986-100, you have to use at least the standard rain yield factor of 300 l/ (s x ha). Quantity of rain water = 0,03 l/s x Drainage surface (m²) Quantity of drains = Absolute quantity of rain water Capacity of the gully	For calculating the right drain and the requested quantity of drains please note the capacity of the particular product.
Floor construction	To find out, what is the best composition of the drain, like extension (with our without flange), gravel guard or heating, a detailed plan of the different layers is neccessary.	Extension (with or without flange) Sealing kit Gravel guard Eventually heating
Waterproofing	Please prefer drains with prefabricated bitumen flanges, when the floor is sheeted with bitumen. For all other waterproofing materials you can use the sealing set, which fits to the used waterproofing material.	
	Bitumen waterproofings, liquid bitumen sheetings or compounds	Drain vertical HL616(.1)H Drain horizontal HL615(.1)H
	Polymer sheetings like PVC	Drain vertical HL616(.1) + Sealing kit HL86.0 Drain horizontal HL615(.1) + Sealing kit HL86.0
	Liquid compouds	Drain vertical HL616(.1) + Sealing kit HL86.M Drain horizontal HL615(.1) + Sealing kit HL86.M
Load classifications	The load classifications of the different drains are depending on the material of the frame or the grate. Load classifications according EN 1253:	
	Classification A up to max. 1,5 t for cast iron, plastic(L) and stainless steel(S) frame	Drain horizontal: HL605(L)(S), HL615(L)(S) Drain vertical: HL606(L)(S),HL616(L)(S)
	Classification B up to max. 12,5 t for cast iron frame and grate	Drain horizontal: HL605.1, HL615.1 Drain vertical: HL606.1, HL616.1



HL Major drains PERFECT SERIES – Sectional drawings





HL Major drains PERFECT SERIES – Installation Installation example HL616H



1. Create taphole with Ø 300 mm, apply prime coat, apply first bitumen layer



2. Insert major drain HL616H



3. Weld on the bitumen flange on the first bitumen layer



4. Connect second bitumen layer with the bitumen flange



5. Ready connection of the drain to the two-layer waterproofing



6. Remove lid cover, adjust the extension in height by



7. Cover the extension with the fleece, lay on the construction steel



8. Pour out with concrete



9. Remove the grate and insert the gravel catcher



10. Ready



HL Major drains PERFECT SERIES – Products – Overview

Drains













Product	HL605(L)(S)	HL605.1	HL615(L)(S)	HL615.1	HL615H(L)(S)	HL615.1H
Description	Major drain horizontal with plastic frame, one-piece	Major drain horizontal with cast iron frame, one-piece	Major drain horizontal with flange and plastic frame, two-piece	Major drain horizontal with flange and cast iron frame and grate, two-piece	Major drain horizontal with bitumen flange and plastic frame, two-piece	Major drain horizontal with bitumen flange and cast iron frame and grate, two-piece
Function	HL605 with cast iron grate, HL605L with plastic grate, HL605S with stainless steel grate	Load classification B – max. 12,5 t	HL615 with cast iron grate, HL615L with plastic grate, HL615S with stainless steel grate	Load classification B – max. 12,5 t	HL615H with cast iron grate, HL615HL with plastic grate, HL615HS with stain- less steel grate	Load classification B – max. 12,5 t

Extensions









Product	HL620	HL618	HL618H
Description	Standard extension	Extension with flange	Extension with bitumen flange
Function	Elongation of the extension	Adjustment of the drain in height to the sealing level	Adjustment of the drain in height to the bitumen waterproofing level

Extensions











Product	HL621	HL622	HL622/S	HL623	HL624 / HL624V
Description	Extension with plastic frame and cast iron grate	Extension with plastic frame and screwable stainless steel grate	Extension with plastic frame and screwable V4A stainless steel grate	Extension with plastic frame and screwable plastic grate	Extension with cast iron frame and cast iron grate, HL624V: srewable
Function	fits to all major drains	fits to all major drains	fits to all major drains	fits to all major drains	fits to all major drains



HL Major drains PERFECT SERIES – Products – Overview

Drains













HL606(L)(S)	HL606.1	HL616(L)(S)	HL616.1	HL616H(L)(S)	HL616.1H
Major drain vertical with plastic frame, one-piece	Major drain vertical with cast iron frame and cast iron grate, one-piece	Major drain vertical with flange and plastic frame, two-piece	Major drain vertical with flange, cast iron frame and cast iron grate, two- piece	Major drain vertical with bitumen flange and plastic frame, two-piece	Major drain with bitumen flange, cast iron frame and cast iron grate, two-piece
HL606 with cast iron grate, HL606L with plastic grate, HL606S with stainless steel grate	Load classification B – max. 12,5 t	HL616 with cast iron grate, HL616L with plastic grate, HL616S with stainless steel grate	Load classification B – max. 12,5 t	HL616H with cast iron grate, HL616HL with plastic grate, HL616HS with stainless steel grate	Load classification B – max. 12,5 t

Accessories













Product	HL190	HL195	HL191	HL609	HL619
Description	Gravel guard	Leaf catcher	Gravel trap	Heating kit	Fixing lugs
Function	Drainage of rainwater on the sealing level, e.g. with inverted constructions	For non-walkable surfaces like gravel, grass	For flaged floors, set into gravel embankment, below the slab	For the heating of the drain, to avoid ice	For fixing the drain and the extension

Sealing kits

Product data see chapter "Sealing kits / Extensions"









Product	HL86.0	HL86	HL86.M	HL86.H
Description	Sealing kit without foil	Sealing kit with EPDM-foil	Sealing kit with textile coated membrane	Sealing kit with bitumen membrane
Function	For clamping of local waterproofings	For bitumen coatings and EPDM-foils	For liquid sealing compounds	For bitumen waterproofings and liquid bitumen compounds



HL Major drains PERFECT SERIES - Products - Data

Dimension

DN110

DN110

DN110

DN110

DN110

DN110

Weight

7025 g

1495 g

2790 g

6980 g

1495 g

2790 g

HL-No.

605

605L

605S

605W

605LW

605SW

HL605 Major drain PERFECT with plastic frame

Data

Material

Grate 226 x 226 mm

> HL605, HL605W: Cast iron HL605L, HL605LW: Plastic HL605S, HL605SW: Stainless steel

Stench trap HL605, HL605L, HL605S:

Frost-proof flap

HL605W, HL605LW, HL605SW:

Water trap

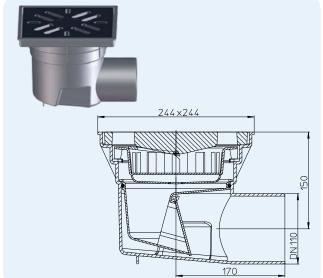
Standard EN 1253 A - max. 1,5 t Load classification

> L - max. 1,5 t Recess dimension

Additional min. 300 x 360 mm information

Heating set HL609 for heating of the

drain body available



Water trap

170	Z Z	HL605K	
Stench trap	Grate	EAN	Piece/ package
Frost-proof flap	Cast iron	+006687	1
Frost-proof flap	Plastic	+009336	1
Frost-proof flap	Stainless steel	+010882	1
Water trap	Cast iron	+011070	1
Water trap	Plastic	+009350	1

Stainless steel

HL0606.3E

HL0605.3E

HL0605.1E

HL0606.1E

HL0605.2E

Stainless

steel

Plastic

HL0606.2E

HL605.1 Major drain PERFECT with cast iron frame and cast iron grate

Data

Standard

Material

Grate Cast iron 226 x 226 mm,

Cast iron frame 260 x 260 mm

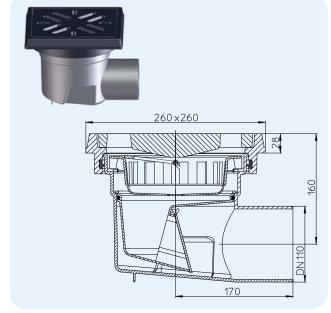
Stench trap HL605.1:

> Frost-proof flap HL605.1W: Water trap EN 1253 B - max. 12.5 t

Load classification Additional Recess dimension min. 300 x 360 mm information

Heating set HL609 for heating of the

drain body available





+011117

	HL605, HL605.1 N 1253-2:2015 a asured according to E				, ,			g. 9	
Nominal width	DIN EN 1253	5mm	15mm	25 mm	$35\mathrm{mm}$	45 mm	55 mm	65 mm	75 mm
DN 110 horizontal	4,5 (35 mm)	0,80	2,15	4,30	6,10	6,20	6,30	6,65	6,70
Drainage capacity me	asured according to E	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 110 horizontal	1,4 (20 mm)	1,05	3,20	3,90	4,65	4,80	4,90	5,05	5,20

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
605.1	DN110	11815 g	Frost-proof flap	Cast iron	+006700	1
605.1W	DN110	11810 g	Water trap	Cast iron	+011094	1



HL606 Major drain PERFEKT with plastic frame

Data

Material PP

Grate 226 x 226 mm

HL606/1, HL606/5, HL606W/1,

HL606W/5: Cast iron

HL606L/1, HL606L/5, HL606LW/1,

HL606LW/5: Plastic

HL606S/1, HL606S/5, HL606SW/1,

HL606SW/5: Stainless steel

Stench trap HL606/1, HL606L/1, HL606S/1,

HL606/5, HL606L/5, HL606S/5:

Frost-proof flap HL606W/1, HL606LW/1, HL606SW/1, HL606W/5, HL606LW/5, HL606SW/5:

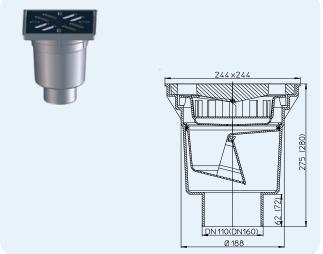
Water trap

Standard EN 1253 Load classification A – max. 1,5 t

L – max. 1,5 t

Additional Heating set HL609 for heating of the

information drain body available





HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
606/1	DN110	7280 g	Frost-proof flap	Cast iron	+906062	1
606/5	DN160	7375 g	Frost-proof flap	Cast iron	+976065	1
606L/1	DN110	1460 g	Frost-proof flap	Plastic	+009374	1
606L/5	DN160	1465 g	Frost-proof flap	Plastic	+009398	1
606S/1	DN110	2755 g	Frost-proof flap	Stainless steel	+010905	1
606S/5	DN160	2760 g	Frost-proof flap	Stainless steel	+010929	1
606W/1	DN110	6980 g	Water trap	Cast iron	+011131	1
606W/5	DN160	6990 g	Water trap	Cast iron	+011155	1
606LW/1	DN110	1460 g	Water trap	Plastic	+009411	1
606LW/5	DN160	1465 g	Water trap	Plastic	+009435	1
606SW/1	DN110	2755 g	Water trap	Stainless steel	+011216	1
606SW/5	DN160	2760 g	Water trap	Stainless steel	+011230	1

HL606.1 Major drain PERFECT with cast iron frame and cast iron grate

Data

Material PI

Grate Cast iron 226 x 226 mm,

Cast iron frame 260 x 260 mm

Stench trap HL606.1/1, HL606.1/5:

Frost-proof flap

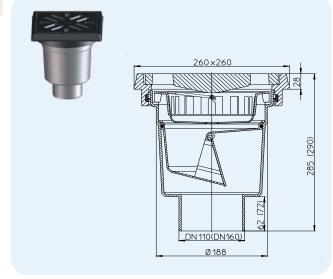
HL606.1W/1, HL606.1W/5:

Water trap

Standard EN 1253 Load classification B – max. 12,5 t

Additional Heating set HL609 for heating of the

information drain body available



75 mm



Capacity table	HL606, HL606.1 N 1253-2:2015 a		5521	Fig. 10a	\ ± 10h\	and nt F	512 Fi	a 0
Drainage capacity me					, ,			g. 3
Nominal width	DIN EN 1253	5mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 r
DNI 110 vertical	4 E (2E mm)	0.00	2.50	E 00	6.00	C OF	6.30	6.3

DN 110 vertical 4,5 (35 mm) 0,90 2,50 5,80 6,20 6,25 6,30 6,35 6,50 DN 160 vertical 8,1 (35 mm) 1,15 3,00 5,20 5,40 5,60 5,65 5,80 6,00 Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining

Nominal width **DIN EN 1253** 20 mm 55 mm 65 mm 75 mm DN 110 vertical 1.4 (20 mm) 0.75 2.50 5.70 5.90 5.95 6.15 3.45 6.00 4 (20 mm) 0,75 2,95 3,55 4,85 5,00 5,15 5,35

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
606.1/1	DN110	12400 g	Frost-proof flap	Cast iron	+960613	1
606.1/5	DN160	12775 g	Frost-proof flap	Cast iron	+970612	1
606.1W/1	DN110	11860 g	Water trap	Cast iron	+011193	1
606.1W/5	DN160	11870 g	Water trap	Cast iron	+011179	1



HL615 Major drain PERFECT with flange and plastic frame, two piece

Data

Material PP

Grate 226 x 226 mm

HL615, HL615W: Cast iron HL615L, HL615LW: Plastic HL615S, HL615SW: Stainless steel

Stench trap HL615, HL615L, HL615S:

Frost-proof flap

HL615W, HL615LW, HL615SW:

Water trap

Standard EN 1253 Load classification A – max. 1,5 t

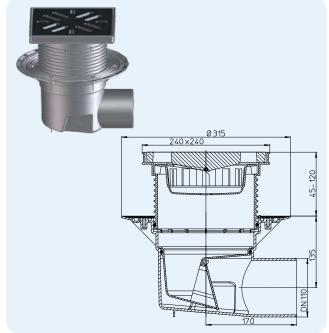
L – max. 1,5 t

Additional Recess dimension information min. 290 x 380 mm

Heating set HL609 for heating of the

drain body available

Including Lid cover



	HL0605.3E Stainless steel HL0605.1E Plastic
17. N	HL0606.1E Cast iron
HL060	06.2E
HL6	808
	\bigcirc
HL0606.3E	HL0605.2E
HL6	15K

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
615	DN110	7440 g	Frost-proof flap	Cast iron	+006748	1
615L	DN110	1920 g	Frost-proof flap	Plastic	+009459	1
615S	DN110	3215 g	Frost-proof flap	Stainless steel	+010943	1
615W	DN110	7440 g	Water trap	Cast iron	+011254	1
615LW	DN110	1920 g	Water trap	Plastic	+009473	1
615SW	DN110	3215 g	Water trap	Stainless steel	+011292	1

HL615.1 Major drain PERFECT with flange, cast iron frame and cast iron grate, two-piece

Data

Material PP

Grate Cast iron 226 x 226 mm

Cast iron frame 260 x 260 mm

Stench trap HL615.1:

Frost-proof flap HL615.1W: Water trap EN 1253

Standard EN 1253

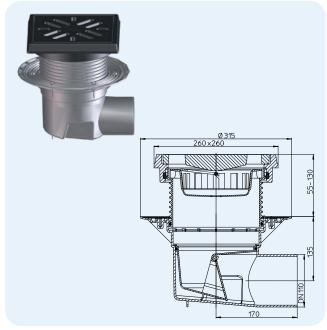
Load classification B - max. 12,5 t

Additional Recess dimension information min. 290 x 380 mm

Heating set HL609 for heating of the

drain body available

Including Lid cover





Capacity table HL615, HL615.1, HL615H, HL615.1H
Tested acc. to EN 1253-2:2015 acc. to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9
Drainage capacity measured according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width	DIN EN 1253	5mm	15mm	25 mm	$35\mathrm{mm}$	$45\mathrm{mm}$	55 mm	65 mm	75 mm
DN 110 horizontal	4,5 (35 mm)	0,80	2,35	4,40	6,70	6,90	6,95	7,10	7,20
Drainage capacity measured according to EN 1253-2:2015 according to clause 5.5.1.2 free draining									
	DIN 51 4050	_	4-	00	0-	4-		0-	

Drainage capacity me	oralinage capacity measured according to EN 1235-2.2015 according to datase 3.5.1.2 free draining											
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm			
DN 110 horizontal	1,4 (20 mm)	0,85	2,70	3,45	5,35	5,55	5,65	5,80	5,90			

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
615.1	DN110	12400 g	Frost-proof flap	Cast iron	+006762	1
615.1W	DN110	12330 g	Water trap	Cast iron	+011278	1



HL615H Major drain PERFECT with bitumen flange and plasitc frame, two-piece

Data

Material PP

Grate 226 x 226 mm

HL615H, HL615HW: Cast iron HL615HL, HL615HLW: Plastic HL615HS, HL615HSW: Stainless

steel

Stench trap HL615H, HL615HL, HL615HS:

Frost-proof flap

HL615HW, HL615HLW, HL615HSW:

Water trap

Standard EN 1253

Recommended for Bitumen waterproofings

 $Load\ classification \qquad A-max.\ 1,5\ t$

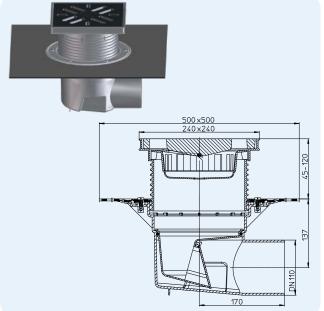
L – max. 1,5 t

Additional Recess dimension information min. 290 x 380 mm

Heating set HL609 for heating of the

drain body available

Including Lid cover





HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
615H	DN110	8345 g	Frost-proof flap	Cast iron	+006786	1
615HL	DN110	3175 g	Frost-proof flap	Plastic	+009497	1
615HS	DN110	4470 g	Frost-proof flap	Stainless steel	+011018	1
615HW	DN110	8700 g	Water trap	Cast iron	+011445	1
615HLW	DN110	3175 g	Water trap	Plastic	+009510	1
615HSW	DN110	4470 g	Water trap	Stainless steel	+011490	1

HL615.1H Major drain PERFECT with bitumen flange, cast iron frame and cast iron grate, two-piece

Data

Material P

Grate Cast ironrost 226 x 226 mm

Cast iron frame 260 x 260 mm

Stench trap HL615.1H:

Frost-proof flap HL615.1HW: Water trap

Standard EN 1253

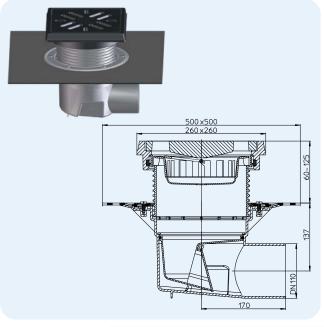
Recommended for Bitumen waterproofings Load classification B – max. 12,5 t

Additional Recess dimension min. 290 x 380 mm

Heating set HL609 for heating of the

drain body available

Including Lid cover



Capacity table HL615, HL615.1, HL615.1, HL615.1H Tested acc. to EN 1253-2:2015 acc. to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9 Drainage capacity measured according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m											
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$											
DN 110 horizontal	4,5 (35 mm)	4,5 (35 mm) 0,80 2,35 4,40 6,70 6,90 6,95 7,10									
Drainage capacity me	asured according to El	N 1253-2:2	015 accordi	ing to clause	e 5.5.1.2 fre	e draining					
Nominal width DIN EN 1253 5 mm 15 mm 20 mm 35 mm 45 mm 55 mm 65 mm 75 mm											
DN 110 horizontal	1,4 (20 mm)	0,85	2,70	3,45	5,35	5,55	5,65	5,80	5,90		

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
615.1H	DN110	13600 g	Frost-proof flap	Cast iron	+006809	1
615.1HW	DN110	13575 g	Water trap	Cast iron	+011476	1

Cast iron

HL0605.2E

HL0606.1E

ILLI

HL0606.2E

HL608.1

HL615KH

HL0606.3E



HL616 Major drain PERFECT with flange and plastic frame, two piece

Data

Material PP

Grate 226 x 226 mm

HL616/1, HL616/5, HL616W/1,

HL616W/5: Cast iron

HL616L/1, HL616L/5, HL616LW/1,

HL616LW/5: Plastic

HL616S/1, HL616S/5, HL616SW/1,

HL616SW/5: Stainless steel HL616/1, HL616L/1, HL616S/1,

Stench trap HL616/1, HL616L/1, HL616S/1, HL616/5, HL616L/5, HL616L/5, HL616S/5:

Frost-proof flap HL616W/1, HL606LW/1,

HL616SW/1, HL616W/5, HL616LW/5, HL616SW/5:

Water trap

Standard EN 1253 Load classification A – max. 1,5 t

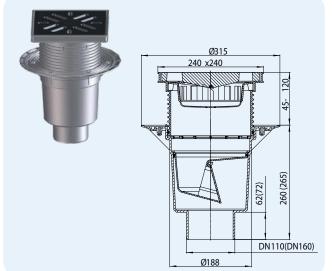
L – max. 1,5 t

Additional Recess dimension min. 290 x 290 information mm. Tap hole diameter: 250 mm.

drain body available

Heating set HL609 for heating of the

Including Lid cover





Cast iron

HL0606.1E

HL0606.2E

HL608

HL0605.2E

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
616/1	DN110	8345 g	Frost-proof flap	Cast iron	+906161	1
616/5	DN160	8400 g	Frost-proof flap	Cast iron	+976164	1
616L/1	DN110	1860 g	Frost-proof flap	Plastic	+009534	1
616L/5	DN160	1865 g	Frost-proof flap	Plastic	+009558	1
616S/1	DN110	3155 g	Frost-proof flap	Stainless steel	+010967	1
616S/5	DN160	3160 g	Frost-proof flap	Stainless steel	+010981	1
616W/1	DN110	7380 g	Water trap	Cast iron	+011315	1
616W/5	DN160	7390 g	Water trap	Cast iron	+011339	1
616LW/1	DN110	1860 g	Water trap	Plastic	+009596	1
616LW/5	DN160	1870 g	Water trap	Plastic	+009572	1
616SW/1	DN110	3155 g	Water trap	Stainless steel	+011407	1
616SW/5	DN160	3165 g	Water trap	Stainless steel	+011421	1

HL616.1 Major drain PERFECT with flange, cast iron frame and cast iron grate, two-piece

Data

Material P

Grate Cast iron 226 x 226 mm Cast iron frame 260 x 260 mm

Stench trap HL616.1/1, HL616.1/5: Frost-proof flap

HL616.1W/1, HL616.1W/5: **Water trap**

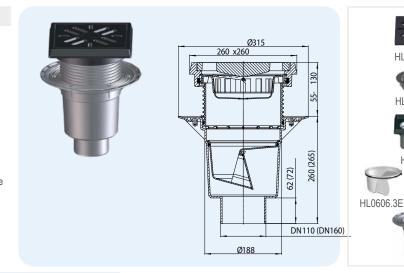
Standard EN 1253 Load classification B – max. 12,5 t

Additional Recess dimension min. 290 x 290 information mm. Tap hole diameter: 250 mm.

Heating set HL609 for heating of the

drain body available

Including Lid cover



Capacity table HL616, HL616.1, HL 616H, HL616.1H Tested acc. to EN 1253-2:2015 acc. to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9 Drainage capacity measured according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m												
Nominal width DIN EN 1253 5 mm 15 mm 25 mm 35 mm 45 mm 55 mm 65 mm 75												
DN 110 vertical	4,5 (35 mm)	0,70	2,15	4,55	5,90	6,05	6,15	6,20	6,25			
DN 160 vertical	8,1 (35 mm) 0,95 2,65 5,30 7,65 7,75 8,00 8,10											
Drainage capacity me	asured according to E	N 1253-2:2	015 accord	ing to clause	e 5.5.1.2 fre	e draining						
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm			
DN 110 vertical	1,4 (20 mm)	0,45	2,40	3,40	6,10	6,20	6,30	6,35	6,40			
DN 160 vertical	4 (20 mm)	0,45	2,05	3,10	5,35	5,55	5,70	5,80	5,90			

HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
616.1/1	DN110	12910 g	Frost-proof flap	Cast iron	+961610	1
616.1/5	DN160	13190 g	Frost-proof flap	Cast iron	+971619	1
616.1W/1	DN110	13430 g	Water trap	Cast iron	+011360	1
616.1W/5	DN160	13440 g	Water trap	Cast iron	+011384	1



HL616H Major drain PERFECT with bitumen flange and plasitc frame, two-piece

Data

Material PP

Grate 226 x 226 mm

HL616H/1, HL616H/5, HL616HW/1,

HL616HW/5: Cast iron

HL616HL/1, HL616HL/5, HL616HLW/1,

HL616HLW/5: Plastic

 $HL616HS/1,\,HL616HS/5,\,HL616HSW/1,\,$

HL616HSW/5: Stainless steel

Stench trap HL616H/1, HL616HL/1, HL616HS/1,

HL616H/5, HL616HL/5, HL616HS/5:

Frost-proof flap

HL616HW/1, HL606HLW/1, HL616HSW/1, HL616HW/5, HL616HLW/5, HL616HSW/5:

Water trap

Standard EN 1253 Load classification A – max. 1,5 t

L – max. 1,5 t

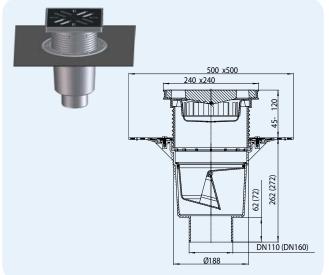
Additional Recommended for Bitumen information waterproofings; Recess dimension

min. 290 x 290 mm. Tap hole diameter: 250 mm.

Heating set HL609 for heating of the

drain body available

Including Lid cover





HL-No.	Dimension	Weight	Stench trap	Grate	EAN	Piece/ package
616H/1	DN110	8900 g	Frost-proof flap	Cast iron	+916160	1
616H/5	DN160	9635 g	Frost-proof flap	Cast iron	+917167	1
616HL/1	DN110	3115 g	Frost-proof flap	Plastic	+009619	1
616HL/5	DN160	3120 g	Frost-proof flap	Plastic	+009633	1
616HS/1	DN110	4410 g	Frost-proof flap	Stainless steel	+011032	1
616HS/5	DN160	4415 g	Frost-proof flap	Stainless steel	+011056	1
616HW/1	DN110	8635 g	Water trap	Cast iron	+011513	1
616HW/5	DN160	8645 g	Water trap	Cast iron	+011537	1
616HLW/1	DN110	3115 g	Water trap	Plastic	+009671	1
616HLW/5	DN160	3125 g	Water trap	Plastic	+009657	1
616HSW/1	DN110	4410 g	Water trap	Stainless steel	+011599	1
616HSW/5	DN160	4420 g	Water trap	Stainless steel	+011629	1

HL616.1H Major drain PERFECT with bitumen flange and cast iron frame and grate

Data

Material PI

Stench trap HL616.1H/1, HL616.1H/5:

Frost-proof flap

HL616.1HW/1, HL616.1HW/5:

Water trap

Standard EN 1253

Load classification B – max. 12,5 t

Recommended for Additional information EN 1253

B – max. 12,5 t

Bitumen waterproofings

Recess dimension min. 290 x 290 mm. Tap hole diameter: 250 mm.

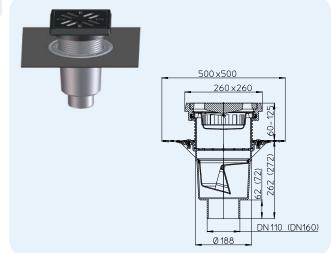
Heating set HL609 for heating of the

drain body available

0,45

Including Lid cover

4 (20 mm)





Capacity table HL616, HL616.1, HL 616H, HL616.1H
Tested acc. to EN 1253-2:2015 acc. to pt. 5.5.2.1 Fig. 10a) + 10b) and pt. 5.5.1.2 Fig. 9
Drainage capacity measured according to EN 1253-2:2015 according to pt. 5.5.2.1 on downpipe 3 m

Nominal width	DIN EN 1253	5mm	15 _{mm}	25 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 110 vertical	4,5 (35 mm)	0,70	2,15	4,55	5,90	6,05	6,15	6,20	6,25
DN 160 vertical	8,1 (35 mm)	0,95	2,65	5,30	7,65	7,75	8,00	8,10	-
Drainage capacity me	asured according to E	N 1253-2:2	015 accord	ing to clause	e 5.5.1.2 fre	e draining			
Nominal width	DIN EN 1253	5 mm	15 _{mm}	20 mm	35 mm	45 mm	55 mm	65 mm	75 mm
DN 110 vertical	1,4 (20 mm)	0,45	2,40	3,40	6,10	6,20	6,30	6,35	6,40

3,10

5,35

5,55

HL-No.	Dimen- sion	Weight	Stench trap	Grate	EAN	Piece/ package
616.1H/1	DN110	14240 g	Frost-proof flap	Cast iron	+962617	1
616.1H/5	DN160	14630 g	Frost-proof flap	Cast iron	+951611	1
616.1HW/1	DN110	13520 g	Water trap	Cast iron	+011551	1
616.1HW/5	DN160	13530 g	Water trap	Cast iron	+011575	1



HL Major drains - Accessories - Data

HL621 Extension with plastic frame and cast iron grate

Data

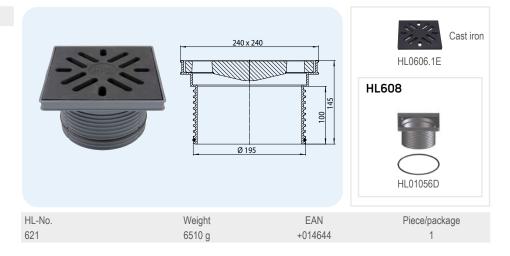
Material PF

Frame Plastic 240 x 240 mm
Grate Cast iron 226 x 226 mm

Load classification A – max. 1,5 t L – max. 1,5 t

Additional fits to all major drains

information



HL622, (HL622/S) Extension with plastic frame and screwable stainless steel grate (V4A)

Data

Material PP, Stainless steel Frame Plastic 240 x 240 mm

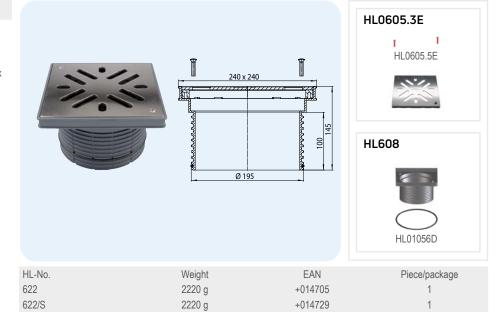
Grate HL622: Stainless steel 226 x 226

mm HL622/S: Stainless steel 226 x

226 mm V4A

Load classification A – max. 1,5 t
Additional fits to all major drains

information

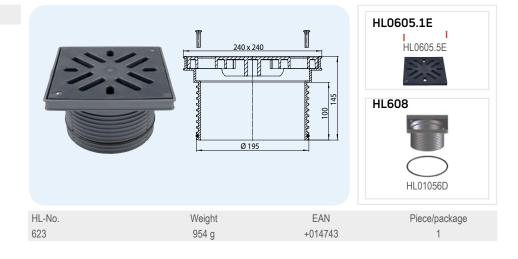


HL623 Extension with plastic frame and screwable plastic grate

Data

Material PP, Plastic
Frame Plastic 240 x 240 mm
Grate Plastic 226 x 226 mm
Load classification A – max. 1,5 t
Additional fits to all major drains

information





HL624, (HL624V) Extension with cast iron frame and cast iron grate (screwable)

Data

Material PP, Cast iron

 Frame
 Cast iron 260 x 260 mm

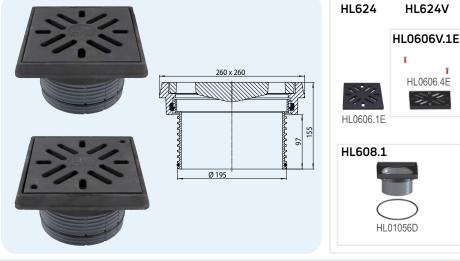
 Grate
 HL624: Cast iron 226 x 226 mm

HL624V: Cast iron 226 x 226 mm

screwable

Load classification B - max. 12,5 t Additional fits to all major drains

information



 HL-No.
 Weight
 EAN
 Piece/package

 624
 11370 g
 +014767
 1

 624/V
 11370 g
 +028597
 1

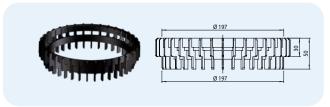
HL190 Gravel guard

Data

Material PI

Additional for the installation between flange of information the body and extension, to garantee

enough drainage on the sealing level, e.g. with inverted constructions, fits to all major drains



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

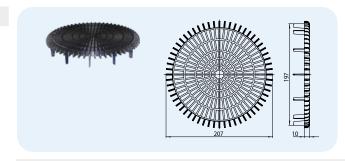
 190
 Ø 197 mm
 95 g
 +011858
 1

HL191 Gravel trap

Data

Material P

Additional flat gravel trap for usage below information flaged floors or duckboards



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 191
 Ø 197 mm
 120 g
 +029006
 1

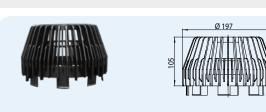
HL195 Leaf catcher

Data

Material P

Additional for non-walkable surfaces, fits to all

information major drains



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 195
 Ø 197 mm
 250 g
 +018093
 1



HL609 Heating Set

Data

Additional information

self-regulating heating tape (2m lenght) with 18W/m, equal to 36W/230V. Including a 3-pole kable (lenght 1 m), self-adhesive thermal conducting tape and insulation tape. Overheating is, due to the self-regulating construction, impossible. Fits to all major drains.



 HL-No.
 Weight
 EAN
 Piece/package

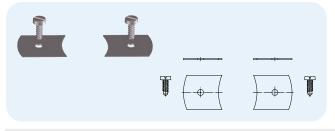
 609
 704 g
 +006090
 1

HL619 Fixing brackets "FixIt"

Data

Material Stainless steel

Additional For a tensile-save connection betinformation ween drain body and extension



 HL-No.
 Weight
 EAN
 Piece/package

 619
 54 g
 +013197
 1





DN40 = 80-315

 $\frac{1}{2}$ $\frac{1}$











DN3



DN40 = 95 DN32 = 9(





HL Anti-flooding valves

16. Basement and backflooding

16







HL Anti-flooding valves

Basic information about design and installation

Allready during the design of drainage systems in buildings one should consider the issue "backflooding". To simplify the professional installation of anti-flooding valves, we would like to point out the following topics.

▲ What does the term "flood level" mean?

Flood level means the highest level, up to which backwater from the sewer could rise inside the building, according to the standard. In fact, this is (if not regulated by the authority) 15 cm above the street level or the pavement. Up to this level, it is possible to be save against backwater by using anti-flooding valves. Outlets and traps, which are above this level, are anyway secure against backflowing water from the sewer.

▲ Which drains have to be save against backwater?

Only drains, which are situated below the flood level, may be leaded through standardized anti-flooding valves. The reason is, that in case of backwater from the sewer, drains above the flood level still can be used. Please notice, that floors above the flood level should not be lead throught the anti-flooding valve. There is danger, that the basement is flooded by the sewage from the rest of the building (see picture below).

- ▲ When is it possible, to install an antiflooding valve?
- When there is a natural incline to the canalization
- When the rooms are used of subordinated use, which means, that no persons or material assets may be injured.
- When there is little usage and an additional toilet above the backflow level.
- When there is an access for inspection/maintainence

▲ Maintainance

According to the standard maintainance and function test have to be made every half year.

- ▲ Classification acc. standard, see selection criteria
- ▲ Mechanical or electronic anti-flooding valve for waste water, containing faeces?
- Electronic anti-flooding valve:

Advantage: Faeces are not blocked by a closed flap, as the valve stays open during normal waste water flow. According to standard ÖNORM B2501, ÖNORM EN 13546 and EN12056-4

Disadvantage: High price of electronic valves due to an elaborated design, expensive installation (electrician!) and complicated maintenance.

Double mechanical anti-flooding valve:

Advantage: Simple installation, low costs, resilient design, little maintenance (made by the house owner itself). Beside of that the stainless steel flap provides a perfect protection against rats.

Only according to standard ÖNORM B2501, ÖNORM EN13564 and EN12056-4

Image of a drainage system





Relevant standards/directives

ÖNORM B2501 Drainage of buildings

ÖNORM EN12056-1 ...Gravity drainage systems inside of buildings

ÖNORM EN752Gravity drainage systems outside of buildings

DIN EN1986-100 Drainage systems for buildings and estates

DIN EN1986-3 Drainage of buildings ... (function)

DIN EN1986-30 Drainage of buildings ... (maintainence)

ÖNORM EN13564 Anti-flooding valves for buildings



Selection of the convenient valve acc. ÖNORM EN13564-1



Typ 0: Anti-flooding valve with one self-acting closure. **HL710**, **HL712**, **HL715**, **HL720**



Typ 1: Anti-flooding valve for horizontal pipes with one self-acting closure and one emergency closure. The emergency closure may be combined with the self-acting closure. **HL710.1**, **HL712.1**, **HL715.1**, **HL720.1**



Typ 2: Anti-flooding valve with two self-acting closures and emergency closure. The emergency closure may be combined with the self-acting closure. **HL710.2**, **HL712.2**, **HL715.2**, **HL720.2**



Typ 3: Anti-flooding valve with a self-acting closure, which is operated by external power (electric, pneumatic or others) and emergency closure, which is independent from the self-acting closure.

HL710.2EPC, HL712.2EPC, HL715.2EPC



Typ 5: Anti-flooding valve, which is included in drainage sets or floor drains, with two self-acting closures and emergency closure. The emergency closure may be combined with the self-acting closure.

HL77, HL77.1



The prevention from backwater is one of the most sophisticated challanges of plumbing. HL cares for this task with it's series of mature products. HL anti-flooding valves are designed according to all standards of drainage technology. Beside of that they are equiped with components made of stainless steel. This measure protects from the invasion of uninvited guests like rats, proved by a lab test of the medical university of Vienna.

During the lab test, the rats were not able to pass the stainless steel valve. HL anti-flooding valves are seen as a suitable instument, to protect buildings from the invasion of rodents.





HL Anti-flooding valves – Products – Overview

Anti-flooding valves







Product	HL710.1V	HL710 - HL720	HL710.1 - HL720.1
Description	Vertical anti-flooding valve with manual closure	Anti-flooding valve without manual closure	Anti-flooding valve with manual closure
Function	Only for vertical installation!	acc. EN 13564 type 0	acc. EN 13564 type 1

Drains







Product	HL70	HL71	HL72(N)	HL73(Pr)(.0)(.2)
Description	Floor drain horizontal with 3 side inlets	Basement drain with mud bucket	Basement drain with gravel catcher	Plug-in drain
Function	Backflow protected, with 3 inlet possibilities	For the drainage of floor surfaces, high capacity	For the drainage of floor surfaces	Fits for pipes DN110 (straight end, non socket)



HL Anti-flooding valves – Products – Overview







HL710.2 - HL720.2	HL710.2EPC - HL715.2EPC	HL710.0 - HL720.0
Double anti-flooding valve with manual closure	Anti-flooding valve with electronic valve and manual closure	Single anti-flooding valves
Corresponds to type 2 (acc. EN 13564); for upgrade to type 3 use upgrade kit HL0710E.X or HL0715E.X	acc. EN 13564 type 3	At the end of drainage pipes (e.g. in shafts), according EN 13564 - type 0





HL77, HL77.1	HL4	
Basement drain with triple backwater valve	Backwater protector	
Usage below the flood level, according EN13546 - type 5	Usage above the flood level!	



HL Anti-flooding valves - Products - Data

HL710 - 720 Anti-flooding valve with stainless steel flap and cleaning access

Data

Material ABS

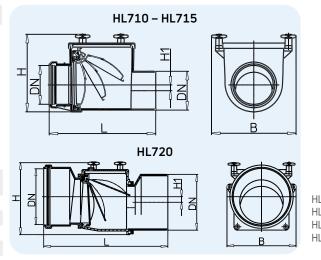
DN110, DN125, DN160, DN200 Inlet

Outlet horizontal

Standard According EN 13564 type 0 Recommended for Plastic pipes with socket Self-acting stainless steel flap and Additional

cleaning access information Spare parts see www.hl.at

HL-No.	Dimension	Weight	EAN	Piece/ package
710	DN110	2020 g	+907106	1
712	DN125	2090 g	+907120	1
715	DN160	3760 g	+907151	1
720	DN200	4060 g	+907205	1





	DN	Н	В	L	H1
L710	110	222	240	302	16,5
L712	125	222	240	315	16,5
L715	160	246	274	376	11,5
L720	200	260		445	
			Dimer	nsions	in mm

HL710.1 - 720.1 Anti-flooding valve with stainless steel flap, manual closure and cleaning access

Data Material

DN110, DN125, DN160, DN200 Inlet

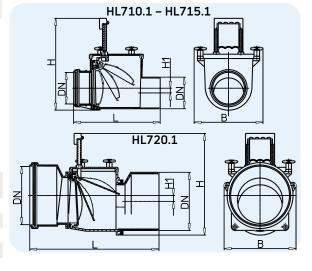
horizontal Outlet

Standard According EN 13564 type 1 Recommended for Plastic pipes with socket Additional Self-acting stainless steel flap and cleaning access, additional manual information

closure and cleaning access

see www.hl.at Spare parts

HL-No.	Dimension	Weight	EAN	Piece/ package
710.1	DN110	2180 g	+971015	1
712.1	DN125	2235 g	+971213	1
715.1	DN160	3380 g	+971510	1
720.1	DN200	3680 g	+972012	1





	DN	Н	В	L	H1
HL710.1	110	220-320	240	302	16,5
HL712.1	125	220-320	240	315	16,5
HL715.1	160	266-356	274	376	11,5
HL720.1	200	248-348			
			Dimor	naiana	in mm

HL710.0 - 720.0 Single anti-flooding valve with stainless steel flap

Data

ABS Material

DN110, DN125, DN160, DN200 Inlet

Outlet horizontal

Standard According EN 13564 type 0 Recommended for Plastic pipes with socket Additional Self-acting stainless steel flap and

cleaning access information Spare parts see www.hl.at

HL-No.	Dimension	Weight	EAN	Piece/ package
710.0	DN110	720 g	+971008	1
712.0	DN125	730 g	+971206	1
715.0	DN160	1325 g	+971503	1
720.0	DN200	1340 g	+172009	1

HL710.0 - 715.0 HL720.0



HL710.0 110 HL712.0 125 222 240 128 HL715.0 160 246 274 164 HL720.0 200 260 258 Dimensions in mm



HL710.2 - 720.2 Anti-flooding valve with 2 stainless steel flaps, manual closure and cleaning access

Data

Material ABS

DN110, DN125, DN160, DN200 Inlet

Outlet horizontal

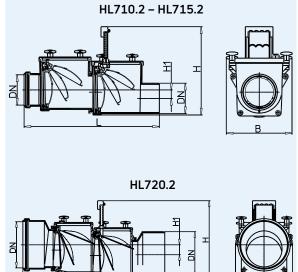
Standard According EN 13564 type 2 Recommended for Plastic pipes with socket Additional 2 self-acting stainless steel flaps, manual closure, cleaning access, information

> mechanical parts made of stainless steel, connection to test-pipe, body made of impact-resistant ABS with tommy screws for easy opening For upgrade to type 3 use upgrade

kit HL0710E.X or HL0715E.X

see www.hl.at Spare parts

HL-No.	Dimension	Weight	EAN	Piece/ package
710.2	DN110	3230 g	+971022	1
712.2	DN125	3320 g	+971220	1
715.2	DN160	5870 g	+971527	1
720.2	DN200	6170 g	+972029	1





	DN	Н	В	L	H1
HL710.2	110	220-320	240	490	31
HL712.2	125	220-320	240	503	31
HL715.2	160	266-356	274	590	23
HL720.2	200	248-348	258	615	40
Dimensions in mm					

HL0710E.X Upgrade kit; for upgrading to electronic valve (type 3); DN110 + DN125 HL0715E.X Upgrade kit; for upgrading to electronic valve (type 3); DN150

Data

Material ABS

Standard Acc. EN 13564 type 3 Recommended for upgrade from type 2 to type 3 Optical display, optical and accoustic Additional information fault display in the control unit:

additional PC interface

230 V/0,5 A Power supply

Power supply line 6 m, PUR, 5 x 0,75 mm² 12 V low voltage Motor Emergency supply 12 V Accu Sensor Coaxial electrode 500 N Tight power

Closure time Spare parts /

Manual

appr. 11 seconds see www.hl.at



HL-No.	Fits to	Weight	EAN	Piece/package
0710E.X	HL710.2 + HL712.2	430Ŏ g	+013364	1
0715E.X	HL715.2	4882 g	+013371	1



HL710.2EPC - 715.2EPC Anti-flooding valve with electronic operated flap

Data

Material ABS

Inlet DN110, DN125, DN160

Outlet horizontal

Standard According EN 13564 type 3
Recommended for Plastic pipes with socket

Additional Optical display, optical and accoustic information fault display in the control unit;

additional PC interface

Anti-flooding valves Stainless steel 1.4404/HDPE

Power supply 230 V/0,5 A

Power supply line 6 m, PUR, 5 x 0,75 mm²

from control unit

to flap

Motor 12 V low voltage
Emergency supply 12 V Accu
Sensor Coaxial electrode
Tight power 500 Newton

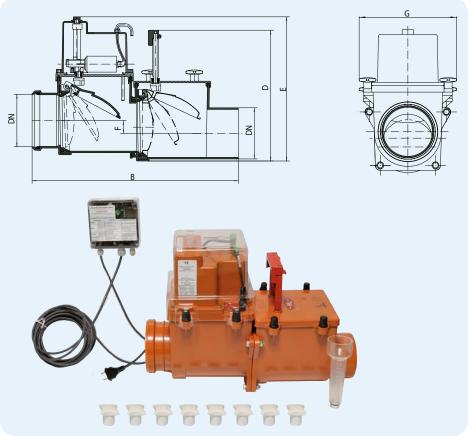
Closure time appr. 11 seconds
Spare parts / Manual see www.hl.at

Dimension

DN110

DN125

DN160



					0								
		D: /						DN	-	Б.	_	_	
Weight	EAN	Piece/ package				H	IL710.2EPC		B 490	_	0	_	
6600 g	+008469	1				H	1L712.2EPC	125	503	220-320	240	352	3
6189 g	+008483	1				H	IL715.2EPC	160	590	266–356	274	371	2
7973 g	+011643	1									Dime	nsions i	n n

HL710.1V Vertical anti-flooding valve with manual closure

Data

HL-No.

710.1V

HL-No.

710.2EPC

712.2EPC

715.2EPC

Material ABS Inlet DN110 Outlet vertical

Recommended for Plastic pipes with socket; for vertical

installation

Additional Automatically working stainless steel information flap with integrated floating body,

Weight

1970 g

additional manual closure and cleaning

EAN

+826216

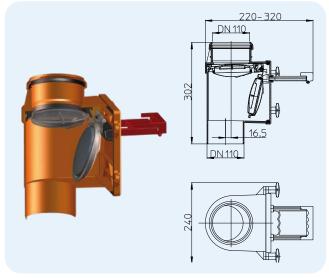
access

Spare parts / Manual see www.hl.at

Dimension

DN110







HL70 Floor drain with backwater protector and 3 side inlets

Data

 Capacity
 1,12 l/s

 Material
 PE

 Inlet
 DN75/110

Water supply 3 side inlets DN50/40

Outlet horizontal, pluggable and weldable

Extension 123 x 123 mm Stench trap Water trap

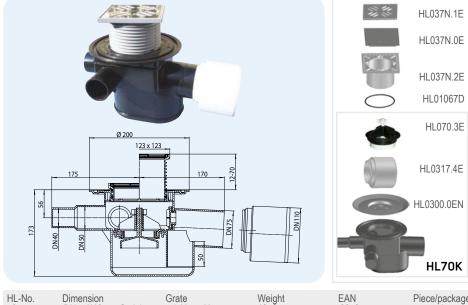
Grate Stainless steel 115 x 115 mm
Standard According EN 13564 type 4
Load classification K3 – max. 300 kg

Recommended for Integration into a waterproofing is

possible

Additional Self-acting backwater protector, may

information also be fixed manually



 HL-No.
 Dimension 70
 Grate DN75/110
 Grate Stainless steel 115 x 115 mm 70G
 Weight 1350 g https://dx.com/representations/representati

HL71 Basement drain with plasic grate HL71G like HL71, but with cast iron grate

Data

Capacity 2,30 l/s Material HL71: ABS

HL71G: ABS/Cast iron

Outlet DN110

Extension 170 x 240 mm

Stench trap Water trap with 60 mm height of seal water

Grate HL71: ABS

HL71: ABS HL71G: Cast iron

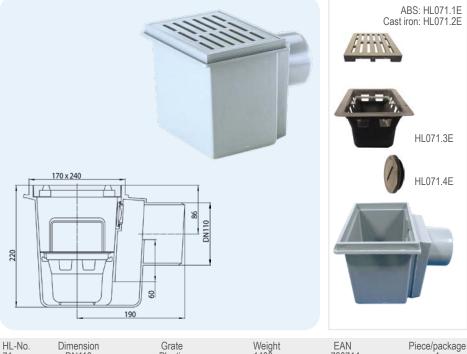
Standard ÖNORM B2511, EN 1253 Load classification HL71: K3 – max. 300 kg

HL71G: L15 - max. 1,5 t

Recommended for Basement area

Additional Installation, where you don't have information requirements for waterproofing. With

mud bucket





HL71.1 Basement drain with side inlet DN50 or DN75

Data

Capacity 2,30 l/s Material ABS

Inlet HL71.1/50: DN50

HL71.1/7: DN75

Outlet DN110
Extension 170 x 240 mm
Stench trap Water trap

with 60 mm height of seal water

Grate ABS

Standard ÖNORM B2511, EN 1253
Load classification K3 – max. 300 kg
Recommended for Basement area

Additional Installation, where you don't have information requirements for waterproofing. With

mud bucket





HL72

HL072.1E

HL062B.2E

HL071.4E

Plastic

830 g 830 g 800 g

HL72 Basement drain with plastic grate HL72N like HL72 but with stainless steel grate

Data

Grate

Capacity HL72: 1,67 l/s

HL72N: 1,67 l/s HL72N/7: 1,47 l/s

Material PP / Stainless steel
Outlet HL72 u. HL72N: DN110

HL72N/7: DN75

Extension 147 x 147 mm Stench trap Water trap

with 60 mm height of seal water

HL72: Plastic grate 138 x138 mm HL72N u. HL72N/7: Stainless steel

> 72 72N 72N/7

DN110 DN110

DN75

grate 138 x 138 mm

Standard ÖNORM B2511, EN 1253 Load classification K3 – max. 300 kg

Recommended for Inside the building
Additional Installation, where you don't have information requirements for waterproofing. With

gravel catcher



Plastic Stainless steel

Stainless steel





HL73(Pr)(.0)(.2) Plug-in drain DN110

Data

Capacity HL73Pr: 0,46 l/s

HL73.0: 1,1 l/s HL73.2: 0,8 l/s

Material PP, stainless steel

Outlet Fit into straight on of DN110 plastic

oipe

Extension 121 x 121 mm

Stench trap HL73Pr: PRIMUS trap (no stench,

when it gets dry) HL73.0: Without trap

HL73.2: With frostproof flap (use outside) stainless steel V4A

Grate Stainless steel grate 115 x 115 mm

stainless steel V2A

Load classification K3 – max. 300 kg

Recommended for HL73Pr: For not frequently used

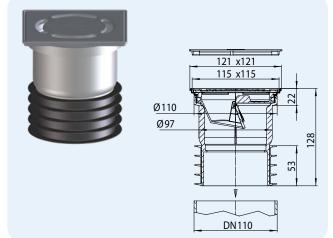
drains inside

HL73.0: For rain water pipes HL73.2: For mixed sewer pipes

outside

Additional To be used, when there is no

information waterproofing





HL-No.	Dimension	Grate	Weight	EAN	Piece/package
73Pr	DN110	Stainless steel V2A	457 g	+032327	1
73.0	DN110	Stainless steel V2A	397 g	+034420	1
73.2	DN110	Stainless steel V2A	447 g	+034437	1

HL77 Basement drain with triple backwater protection

Data

Capacity 1,58 l/s
Material ABS
Inlet DN110
Outlet horizontal
Stench trap Water trap

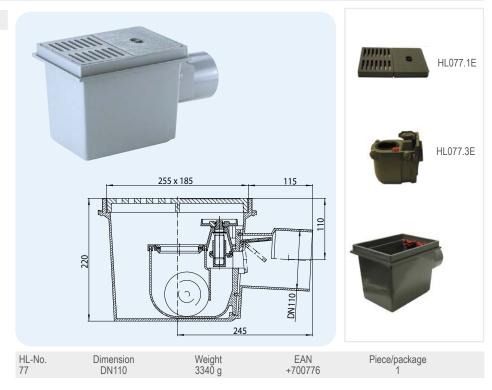
Grate ABS, two parts, 180 x 125 mm
Standard According EN 13564 type 5
Load classification K3 – max. 300 kg

Recommended for Only for installation

in frost-proof area!

Additional 2 self-acting anti-flooding valves, information manual closure, removable trap,

connection to test pipe





HL77.1 Basement drain like HL77, with side inlet DN50

Data

Capacity 1,58 l/s Material ABS

Inlet DN110, Water supply DN50

Outlet horizontal Stench trap Water trap

Grate ABS, two parts, 180 x 125 mm
Standard According EN 13564 type 5
Load classification K3 – max. 300 kg
Recommended for Only for installation

in frost-proof area!

Additional 2 self-acting anti-flooding valves, information manual closure, removable trap,

connection to test pipe



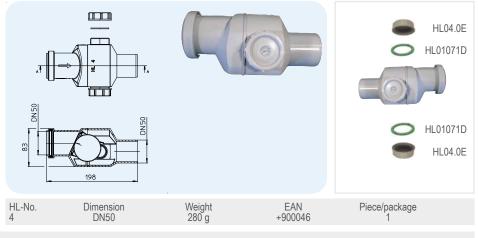
HL4 Backwater protector with cleaning screw DN50

Data

Capacity 1,36 l/s
Material PP
Inlet DN50

Recommended for usage horizontal and vertical, only

above flood level



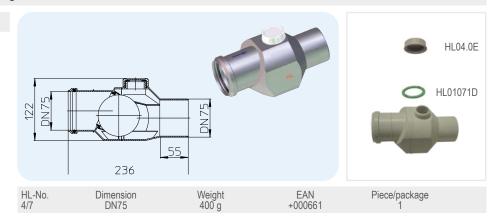
HL4/7 Backwater protector with cleaning screw DN75

Data

Capacity 2,30 l/s Material PP Inlet DN75

Recommended for usage horizontal and vertical, only

above flood level



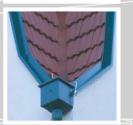
















HL Rain hoppers

17. Rainwater drainage













HL Rain hoppers

Basic information about design and installation

The drainage of roof rainwater into the sewer or a soakaway belongs to todays normal standard of modern buildings. In the best case the connection between the downpipe and the sewage pipe is a rain hopper.

We have assembled some suggestions for you for perfect design and realization:

▲ Rainwater downpipes should have a possibility for cleaning, maintainence and inspection at the junction to the horizontal pipe.

▲ If rainwater downpipes are connected to the sewer, they have to be secured by a stench trap (in cold regions frostproof), when stench may be espected.

▲ The maximum roof surface, which may be drained, is calculated on the basis of the capacity of the downpipes acc. EN12056-3 and a mimimum rainfall quantity of 300 l / (s x ha).

▲ Extract of ÖNORM B2501
Rainwater downpipes, which are installed on the outer side of the building, must be

connected to rain hoppers. The rain hoppers may be seen as the best cleaning access.

Relevant standards/directives

ÖNorm B2501.....Drainage of buildings DIN 1986-100.....Drainage systems for buildings and estates EN 12056.......Gravity drainage systems inside of buildings

Drain capacity: 11 l/s: more than 50% higher capacity!



Cover and flap: with pre-formed gaskets - to reduce uprising of smell from the sewer



Connection of downpipe: possible up to diameter 120mm



Leaf catcher: Bigger and with overflow-function; if the basket is full of leaves, the middle pipe cares for a minimum drainage



Outlet: Connection DN110 and DN125 in one piece



New handle: for easy opening



Pipe cover: excentric and horizontal stepless adjustment; height 50mm, to cover dilatations of the downpipe





HL Rain hopper - HL600NH0

With curtain walls the downpipe very often is hidden between the brick wall and the curtain facade. In this case a normal rain hopper may not be used, as the opening of the lid no longer is possible. Beside of that there has to be a watertight connection between downpipe and rain hopper. We have got the solution: HL600NHO! With all advantages of the new rain hopper HL600N, but with a watertight socket connection DN110!



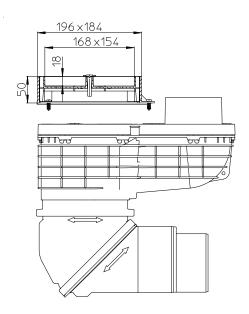




HL rain hoppers - HL601i The perfect extension for every kind of surface

The accessory HL601i (like individual) creates your individual pavement design around the house









HL rain hoppers – HL600N Installation instructions



1. Place rain hopper



2. Chose and insert the right pipe cover



3. Connect to the down pipe



4. Adjust angle to the sewer



5. Connect to sewer DN110 - directly DN125 - Cut with a saw



6. Ready

HL Rain hoppers - HL600N - Maintenance / cleaning



1. Contamination by e.g. leafs



2. Open lid



3. Emty leaf catcher



HL Rain hoppers - Products - Data

HL600N High capacity rain hopper with flexible ball joint HL600NG Rain hopper like HL600N, but with visible parts made of cast iron

Data

Trap

Including

Capacity DN100: 10l/s

DN125: 11l/s

Material HL600N: PP

HL600NG: PP/Guss

Inlet Pipe joints DN80, DN100, DN120
Outlet DN110 or DN125, horizontally and

vertically adjustable from 0° to 90° Frost proofed flap with rubber gasket

Standard DIN 12056, Önorm B 2501

Recommended for Connection downpipe to sewer with

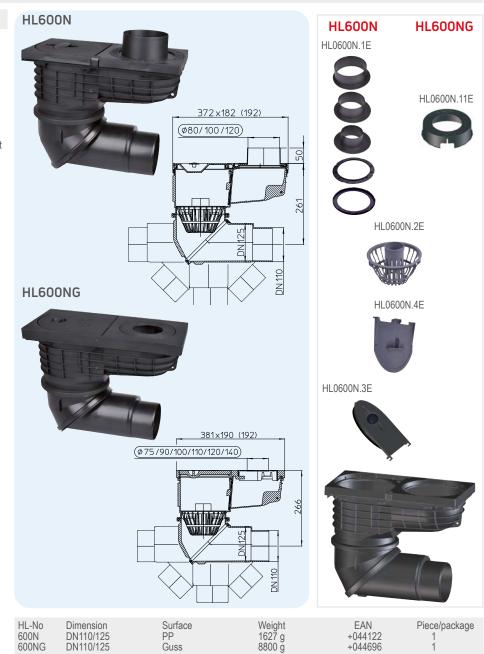
inspection possibility

Leaf catcher with overflow, with pipe

joints for downpipes Ø 80, 100, 120

and lid with rubber gasket

Add. information Suitable for outdoor



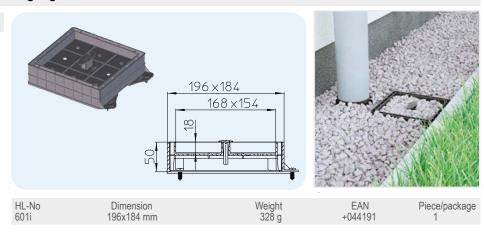
HL601i Extension for individual pavement styling

Data

Material PP Height 5 cm

 $\label{eq:Recomm.} \textit{Recomm. for} \qquad \qquad \textit{Filling of gravel, tiles stones...} \textit{to style}$

your individual pavement around the house. Equipped with lid for easy cleaning and maintainence





HL600NHO Rain hopper with horizontal inlet for curtain walls HL600NGHO Rain hopper like HL600NHO, but with visible parts made of cast iron

Data

Capacity DN100: 10l/s

DN125: 11l/s

Material HL600NHO: PP

HL600NGHO: PP/Guss

Inlet DN110 socket

Outlet DN110 or DN125, horizontally and

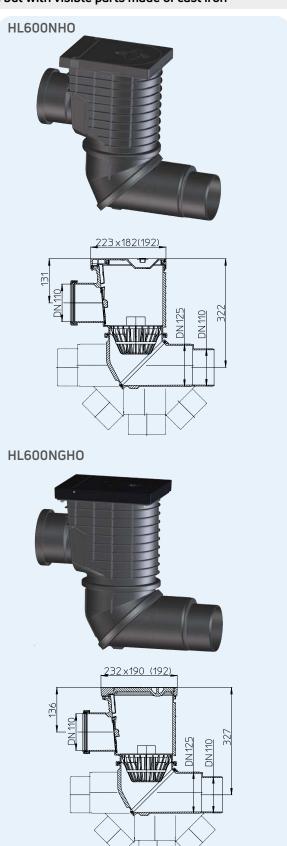
vertically adjustable from 0° to 90° Frost proofed flap with rubber gasket

Trap Standard DIN 12056, Önorm B 2501 Recommended for

Connection of downpipe to sewer behind a curtain wall

Leaf catcher with overflow Including

Add. information Suitable for outdoor





HL-No	Dimension	Surface	Weight	EAN	Piece/package
600NHO	DN110/125	PP	1556 g		1
600NGHO	DN110/125	Guss	6400 g		1



HL660/2, HL660/2-80 Rain hopper HL660E Rain hopper

Data

Capacity 6,6 l/s

Material PP (Polipropilen)
Connection DN110/125

dimension

Outlet Vertical
Stench trap Frostproof flap
Standard DIN 19560

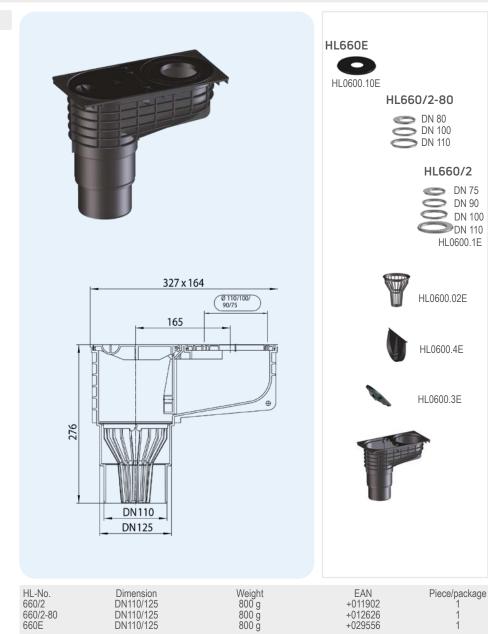
Recommended for Connection between rainwater

downpipe and sewage pipe

Including Leaf catcher, cleaning flap, adapter

rings for downpipes HL660/2: Ø 75, 90, 100, 110 mm HL660/2-80: Ø 80, 100, 110 mm HL660E adapter insert,

Ø 75 - 120 mm (to be cut out)











HL Pipe sleeves

18. Waterproofings for buildings

18









HL Waterproofings for buildings

Basic information about design and installation

In most cases these parts of buildings, which are in contact with earth moisture or with non-pressure water are sealed with bitumen waterproofings or liquid bitumen compounds. For pressure water only 2-layer bitumen waterproofings are alowed. It is obvious, that it comes to leakage very seldom in the surface, but very often at sensitive spots like wall break-throughs. Standard pipe inflow channels are installed in the shuttering and are poured out with concrete. This garantees a tight connection between pipe and concrete. Afterwards the basement wall is sealed with bitumen. In the past the connection between bitumen and pipe inflow channel was the problem. But especially here one has to care for a perfect sealing, to protect from water or moisture getting behind the waterproofing. HL has solved this problem with its series HL800 and 801 pipe sleeves.

Advantages of these series:

- ▲ HL800/801 may be installed also after the finishing of the wall by a taphole or by chiseling out.
- ▲ The connection to the waterproofing is harmless, namely without burning the pipe, because of the pre-fixed bitumen sleeve.
- ▲ Also liquid bitumen compounds may be welded to the bitumen sleeve.
- ▲ Possible deviations of the pipe because of the weight of soil are compensated by the use of a special gasket (± 10 %).
- ▲ The sealing between pipe and pipe sleeve works by multiple lip gaskets, combined with a conical thread and a squeeze connection.
- ▲ Due to the flexible construction the usage near edges and corners of walls is possible.
- ▲ In combination of HL800 and HL801 up to 4 pipes of different smaller diameters may be lead through the wall.

Following we would like to give you information to avoid mistakes:

- ▲ Please take care, that the installation is made latest during the laying of the pipes, as an installation afterwards is not possible.
- ▲ We recommend to imbed the sleeve on both sides.
- ▲ Please avoid an overlap of the sleeves. Minimum distance from pipe middle to next pipe middle: 50cm!
- ▲ Waterproofed up to 6m (certified by OFI).
- ▲ Concerning the installation of the pipes please notice all relevant standards.

Relevant standards/directives

ÖNorm B7209 Waterproofing of buildings, following ÖNorm B3692

ÖNorm B2209-1 Waterproofing of buildings

Directive for the calculation, installation and controll of waterproofings for buildings; available at: IFB-Institut für Flachdachbau und Bauwerksabdichtung (www.ifb.co.at)

A long lasting waterproofing for buildings may only be guaranteed, if a specific planing of the sealing and all detailed solutions and their combinations are secured. Especially for highly recurrend problems a lot of standardized solutions have been developed and may be downloaded unter www.ifb.co.at

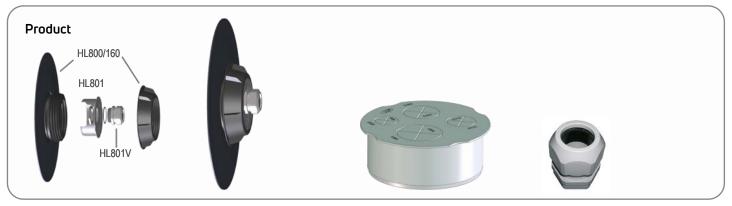




HL Waterproofings for buildings - Product Overview



Product	HL800 (P) (/110), (/125), (/160)	HL800(P)/63-75	HL800(P)/40-50	HL800.2(P)/40-50 HL800.2(P)/63-75
Description	Bitumene (PVC) pipe sleeve DN110, DN125 or DN160	Bitumene (PVC) pipe sleeve 63-75 mm	Bitumene (PVC) pipe sleeve 40-50 mm	Double bitumene (PVC) pipe sleeve 40-50 mm or 63-75 mm
Function	For a tight connection between pipe and bitumen waterprofing	For a tight connection between pipe or cable and bitumen waterprofing	For a tight connection between pipe or cable and bitumen waterprofing	For two smooth medium size pipes or cables with outer diameter 40-50 mm or 63-75 mm, e.g. heating pumps



Product	HL800(P)/160	HL801	HL801V
Description	Bitumene (PVC) pipe sleeve DN160	Multiple pipe fairlead	Screw
Function		To lead 4 pipes with diameter 8 - 52 mm through the wall. Usage only in	To lead one pipe with diameter 8 - 52 mm through the wall.
		combination with HL800/160 and HL801V!	Usage only in combination with HL800/160 and HL801!

Product	HL801R	HL801B
Description	Reduction screw	Plug
Function	To reduce the opening for smaller pipes or cables	To close erroneously opened wholes in HL801



HL HL800 Pipe sleeve - Installation



1. Pipe with socket, wall with liquid bitumen compound



2. Set on bitumen sleeve



3. ... And push close to the wall



4. Screw on the nut



5. Weld the bitumen waterproofing



6. Fix the nut

HL HL801 Multiple pipe fairlead – Installation



1. Fix HL800/160 on the building and connect to the waterproofing $% \left(1\right) =\left(1\right) \left(1\right) \left$



2. Select the fitting screws, depending on the quantity and the diameter of pipes/cables and open the predetermined breaking points.



3. Connect the screws with the pipe fairlead and fix the screws



4. Insert the ready prepared pipe fairlead HL801 into the pipe sleeve HL800/160 and fix the nut of HL800



5.Pull the pipes/cables through and fix them with the nuts



6. Ready!



HL Waterproofing for buildings - Products details

HL800 Pipe sleeve with pre-welded bitumen flange for pipes HL800P Pipe sleeve with PVC flange for pipes

Data

 Material
 Rubber/bitumen/PP

 Connection
 HL800/110: Ø 110 - 115 mm

 dimension
 HL800/125: Ø 125 - 130 mm

 HL800/160: Ø 160 - 165 mm
 HL800/63-75: Ø 63 - 75 mm

HL800/63-75: Ø 63 - 75 mm HL800/40-50: Ø 40 - 50 mm

Waterproof up to 6 m of water column

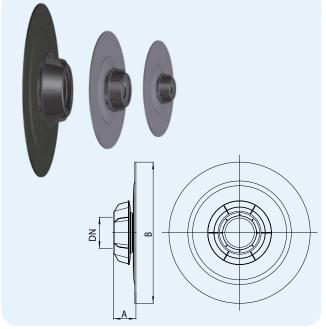
Recommended for Bitumene (PVC)waterproofings or

liquid bitumene compounds

Additional The smooth connection between information pipe and waterprofing is 100% tight

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC

	DN	Α	В
HL800(P)/40-50	40/50	57 mm	380 mm
HL800(P)/63-75	63/75	57 mm	380 mm
HL800(P)/110	110	80 mm	500 mm
HL800(P)/125	125	80 mm	500 mm
HL800(P)/160	160	80 mm	560 mm



HL-No.	Dimension	Material	Weight	EAN	Piece/package
800/40-50	DN40/50	Bitumen	810 g	+038305	1
800/63-75	DN63/75	Bitumen	920 g	+038275	1
800/110	DN110	Bitumen	1800 g	+021598	1
800/125	DN125	Bitumen	1900 g	+028276	1
800/160	DN160	Bitumen	2200 g	+021611	1
800P/40-50	DN40/50	PVC	600 g	+038312	1
800P/63-75	DN63/75	PVC	700 g	+038329	1
800P/110	DN110	PVC	1405 g	+038084	1
800P/125	DN125	PVC	1505 g	+038091	1
800P/160	DN160	PVC	1802 g	+038107	1

HL800.2/40-50 Double pipe sleeve with pre-welded bitumene flange HL800P.2/40-50 Double pipe sleeve with pre-glued PVC flange

Data

Material Rubber/Bitumene(PVC)
Connection Ø 40 -50 mm
Waterproof up to 6 m water column

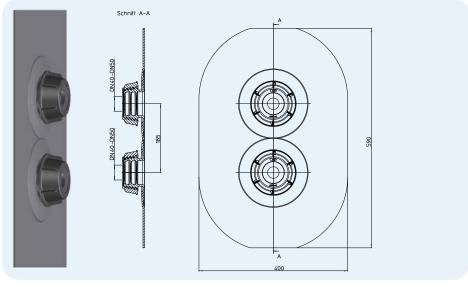
Recommended for Liquid bitumene compounds,

bitumene (PVC) waterproofings

Additional The smooth connection between information pipe and waterproofing is 100% tight;

for e.g. heating pumps

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC



HL-No.	Dimension	Weight	EAN	Piece/package
800.2/40-50	DN40/50	1538 g	+03828	1
800P.2/40-50	DN40/50	1487 g	+03833	1

HL800/110:

HL0800.1E

HL800/125: HL0800.3E

HL800/160:

HL0800.2E



HL800.2/63-75 Double pipe sleeve with pre-welded bitumene flange HL800P.2/63-75 Double pipe sleeve with pre-glued PVC flange

Data

Rubber/Bitumene(PVC) Material Ø 63 - 75 mm Connection

6 m water column Waterproof up to

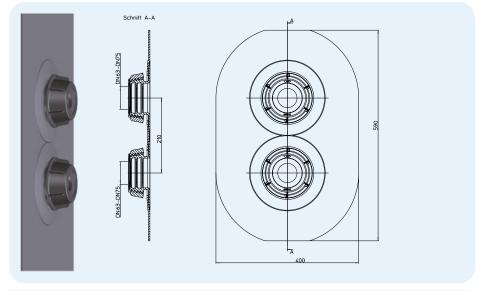
Recommended for Liquid bitumene compounds,

bitumene (PVC) waterproofings

Additional The smooth connection between information pipe and waterproofing is 100% tight;

for e.g. heating pumps

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC



HL-No.	Dimension	Weight	EAN	Piece/package
800.2/63-75	DN63-75	1693 g	+03829	1
800P.2/63-75	DN63-75	1325 g	+03834	1

HL801 Multiple pipe fairlead for pipes or cables 8 - 52 mm

Data

Material

Predetermined Ø 32/40/50/63 mm

breaking points

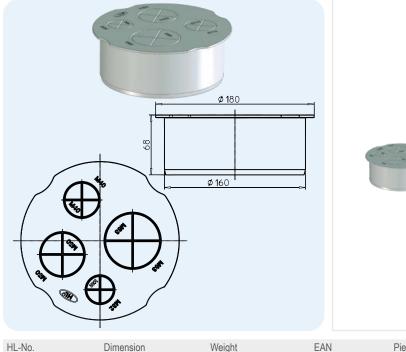
Waterproof up to 6 m water column Recommended for Attention: Usage only in

combination with HL 800/160 pipe

Additional Up to 4 pipes or cables may be lead

through the wall, see "quick search". information

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC







HL801V Screw, fits to HL801

Data

Material PA
Connection HL801V/8-14
dimension HL801V/10-17

HL801V/10-17 HL801V/17-25 HL801V/22-33 HL801V/28-38 HL801V/32-44

HL801V/40-52 Waterproof up to 6 m water column

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC



HL-No.	Dimension Ø	Weight	EAN	Piece/package
801V/8-14	8 – 14 mm	30 g	+028795	1
801V/10-17	10 – 17 mm	30 g	+039240	1
801V/17-25	17 – 25 mm	50 g	+028818	1
801V/22-33	22 – 33 mm	90 g	+028825	1
801V/28-38	28 – 38 mm	130 g	+028832	1
801V/32-44	32 – 44 mm	180 g	+028849	1
801\//40-52	40 – 52 mm	230 a	+028856	1

HL801R Screw reduction, fits to HL801

Data

Material P.

Connection Reductions from M63 – 25

dimension

Waterproof up to 6 m water column



HL-No.	Reduction from/to	Weight	EAN	Piece/package
801R/M32-25	M32 - 25	15 g	+028863	1
801R/M40-25	M40 - 25	20 g	+028870	1
801R/M40-32	M40 - 32	20 g	+028887	1
801R/M50-25	M50 - 25	50 g	+028894	1
801R/M50-32	M50 - 32	50 g	+028900	1
801R/M50-40	M50 - 40	50 g	+028917	1
801R/M63-32	M63 - 32	90 g	+028924	1
801R/M63-40	M63 - 40	90 g	+028931	1
801R/M63-50	M63 - 50	90 a	+028948	1

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC

HL801B Plug, fits to HL801

Data

Material PA

Connection M32, M40, M50, M63

dimension

Waterproof up to 6 m water column

Additional To close erroneously opened wholes

information in HL801

For additional information for combining different pipe dimensions, please use our website www.hl.at under section installation ABC



HL-No.	Reduction from/to	Weight	EAN	Piece/package
801B/M32	M32	15 g	+028955	1
801B/M40	M40	20 g	+028962	1
801B/M50	M50	50 g	+028979	1
801B/M63	M63	80 a	+028986	1

Quick search for HL801V/R/B

M63		HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-M25	HL801R/M32-M25	I	I	I	ı	1	ı	1	1	ı	1	-	1	-	-	1	-	1	1	-	ı	1	ı	I	I	1	ı	1	1	-	ı	ı	I	I	I	ı	I
(0)		HL801R/M63-32 +	HL801R/M63-32 +			HL801R/M63-32 +	HL801R/M63-32 +	HL801R/M63-32 +	HL801R/M63-M32+	HL801R/M63-M32+	HL801R/M63-32	HL801R/M63-40	HL801R/M63-40	HL801R/M63-40	HL801R/M63-40	HL801R/M63-40	HL801R/M63-40	_	_	-	_	_	_	1	I	I	_	ı	1	_	-	ı	ı	ı	I	I	1	1								
	0	HL801V/8-14 +				HL801V/8-14 +	HL801V/8-14 +	HL801V/8-14 +	HL801V10-17 +	_	HL801V/17-25 +	HL801V/22-33 +	HL801V/32-44	HL801V/40-52																																
M50	0	HL801R/M50-25	HL801R/M50-25	HL801R/M50-25	HL801R/M50-25	HL801R/M50-25	HL801R/M50-25	HL801R/M50-25	HL801R/M50-M25	HL801R/M50-M25	HL801R/M50-32	HL801R/M50-40	HL801R/M50-40	1	ı	1	1	-	1	ı	1	1	ı	ı				1	1	-	_	ı														
	0	HL801V/8-14 +	HL801V/8-14 +	HL801V/8-14 +		HL801V/8-14 +	HL801V/8-14 +	HL801V/8-14 +	HL801V10-17 +	HL801V10-17 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/22-33 +	HL801V/22-33 +	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	HL801V/28-38	•	1		'	•	I	•		'	'	•			•
ФМ40	0							HL801R/M40-25	HL801R/M40-M25	HL801R/M40-M25	HL801R/M40-32	HL801R/M40-32		HL801R/M40-32	HL801R/M40-32	ı	_	_	ı	1	_	1	-	_	1	_	_																			
	0	HL801V/8-14 +				HL801V/8-14 +	HL801V/8-14 +	HL801V/8-14 +	HL801V10-17 +	HL801V10-17 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/17-25 +	HL801V/22-33	HL801V/22-33	HL801V/22-33				Fc	or a									for			inir	ng										
M32	0	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-25	HL801R/M32-M25	HL801R/M32-M25	ı	ı	1	1	1	ı	-	1	ı													-	ea:	se	us	e o	ur	we	bsi	te		/w.	hl.a			
	0	HL801V/8-14 +				HL801V/8-14 +	HL801V/8-14 +	HL801V/8-14 +	HL801V10-17 +		HL801V/17-25	1	1	1	1	1	1		1	1	1	I	1	1	I	I	1	ı	ı	ı	1	I	1	1	ı	I	1	I								
	Ø	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	52



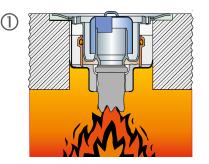


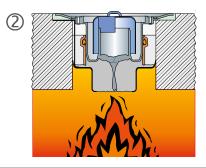


HL Fire protection - Function

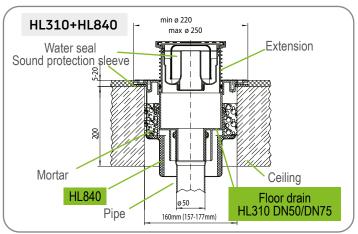
Function in case of fire

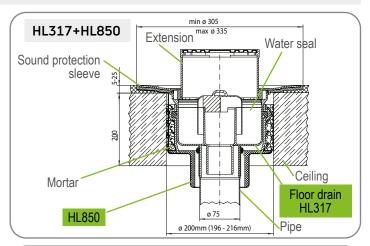
This assembly prevents the spread of fire to another floor. Intumescent material in the metal housing starts to expand at a temperature of 150°C and completely seals the hole in the ceiling. Heat, fire and smoke cannot pass into the next fire section.

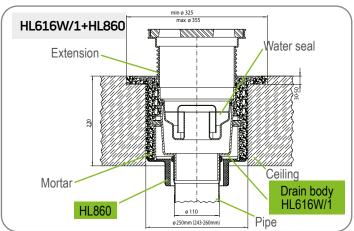


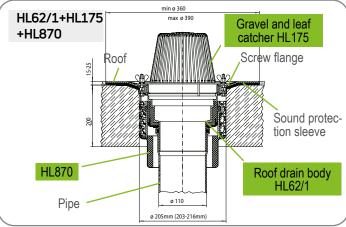


HL Fire protection – Sectional drawings

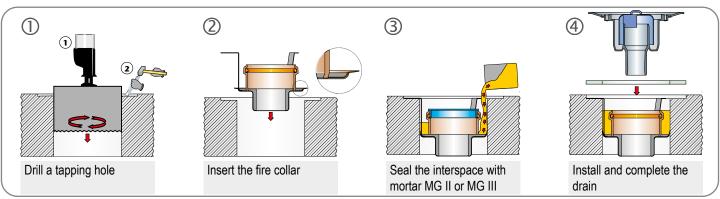








HL Fire protection – Installation steps





HL Accessories - Products - Data

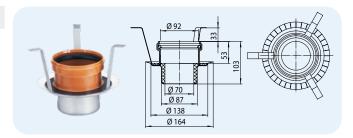
HL830 Fire protection collar

Data

Fire protection class R90/120

Tapping hole HL830: Ø 140/150 mm diameter (139 mm − 158 mm)

Fits to HL511KE



 HL-No.
 Dimension
 Weight
 EAN + 014989
 Piece/package + 014989

 830
 Ø 92 / 70 mm
 500 g
 +014989
 1

HL840 Fire protection collar

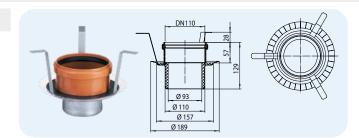
Data

Fire protection class R90/120

 Tapping hole
 HL840: Ø 160 mm

 diameter
 (157 – 177 mm)

Fits to HL310-series DN50/75



 HL-No.
 Dimension
 Weight
 EAN Piece/package

 840
 Ø 110 / 93 mm
 830 g
 +015184
 1

HL850 Fire protection collar

Data

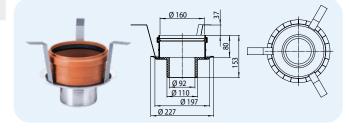
Fire protection class R90/120

 Tapping hole
 HL850: Ø 200 mm

 diameter
 (198 − 216 mm)

 Fits to
 HL317 DN50/75,

HL62 series DN75



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 850
 Ø 160 / 92 mm
 1360 g
 +015016
 1

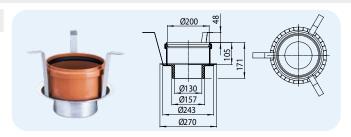
HL860 Fire protection collar

Data

Fire protection class R90/120

Tapping hole HL860: \emptyset 250 mm diameter (243 – 260 mm)

Fits to HL606- u. HL616-series DN110



 HL-No.
 Dimension
 Weight
 EAN Piece/package

 860
 Ø 200 / 130 mm
 2390 g
 +015030
 1

HL870 Fire protection collar

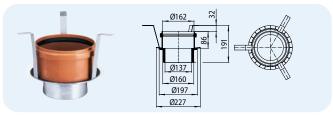
Data

Fire protection class R90/120

 Tapping hole diameter
 HL870: Ø 200 mm

 fits to
 HL317 DN110,

HL62 DN110



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 870
 Ø 162 / 137 mm
 1700 g
 +030729
 1



HL9 Socket connector

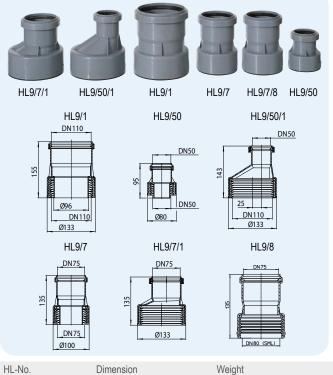
Data

Material PF

Function Connection between plastic and

cast iron or lead pipes in flow

direction









HL9/50/1: HL01029D HL9/50/1: HL01027D HL9/50: HL01027D HL9/7: HL01028D HL9/7/8: HL01112D HL9/7/1: HL01029D

HL9/1: HL01029D



	<u>Ø100</u>	BN00 (ShE/		
HL-No.	Dimension	Weight	EAN	Piece/package
9/50		130 g	+900954	1
9/7		230 g	+900978	1
9/1		380 g	+909100	1
9/50/1		145 g	+929511	1
9/7/1		150 g	+926719	1

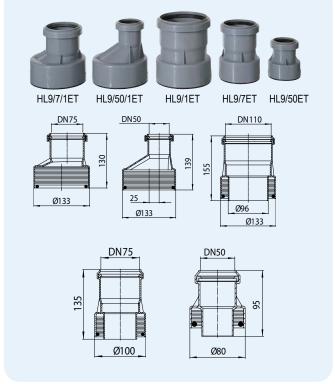
HL9ET Socket connector

Data

Material PP

Function Connection between plastic and

eternit pipes in flow direction







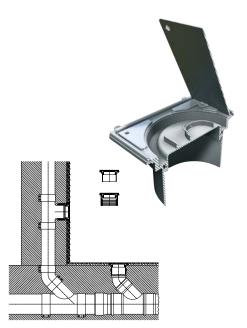
HL98, HL98SML Rodding eye

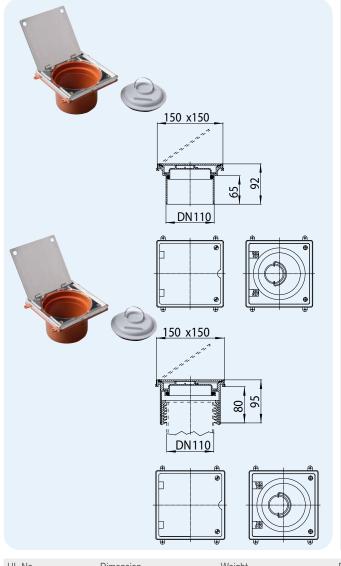
Data

 $\begin{array}{ll} \mbox{Material} & \mbox{PP / Stainless steel} \\ \mbox{Load classification} & \mbox{L15 - max. 1,5 t} \end{array}$

Function For installation in the floor or in the wall, connection to plastic pipe

sockets or SML-pipes.







HL098.2E

HL-No. 98 98SML

Dimension DN110 DN110

Weight 840 g 1040 g

EAN +701988 +012688

Piece/package

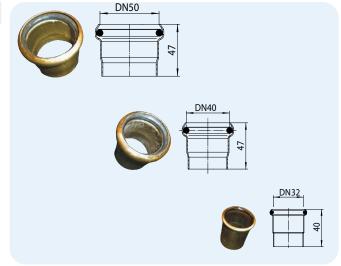
HL5 Brass-soldering connector with O-ring

Data

Material Bra

Function Connection between plastic and

lead in flow direction





HL-No.	Dimension	Weight	EAN	Piece/package
5/30	DN32	20 g	+100538	10
5/40	DN40	60 g	+100057	10
5/50	DN50	80 g	+100552	10



HL30, HL40, HL41 Universal connector

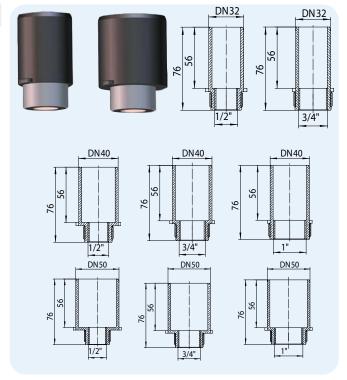
Data

Material PE, pluggable and weldable

Function Connector for not-pressure

pipe works; with stainless steel

banding



HL-No.	Dimension	Weight	EAN	Piece/package
30.2	DN32 x R1/2"	30 g	+004461	10
30.3	DN32 x R3/4"	38 g	+004485	10
40.2	DN40 x R1/2"	36 g	+000692	10
40.3	DN40 x R3/4"	44 g	+000470	10
40.4	DN40 x R1"	54 g	+000487	10
41.2	DN50 x R1/2"	42 g	+000517	10
41.3	DN50 x R3/4"	50 g	+000746	10
41.4	DN50 x R1"	60 g	+000432	10

HL42, HL43 Test plug with vent hole

Data

Material P

Function Usage only for pressure test!

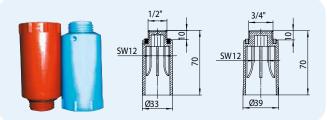
Acc. DIN1988/2 not allowed for

permanent pressure!

Additional Pressure-resistant up to 15 bar, information with flat gasket, massive hexagon

socket SW12, blue or red

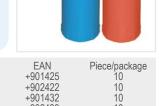
HL-No. 42.B 42.R 43.B 43.R



Dimension 1/2" x Ø 33 mm 1/2" x Ø 33 mm 3/4" x Ø 39 mm 3/4" x Ø 39 mm

Colour

blue red blue red



HL043.1D 3/4" HL042.1D 1/2"

HL42.MS Test plug with brass thread

Data

Material Brass/PP

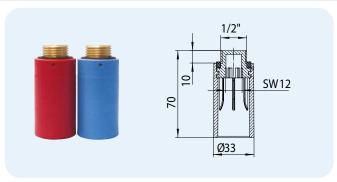
Function Usage for pressure test. Acc.
DIN1988/2 a test plug is defined

as "permanent tight" (also after construction time), when it has a

metal thread.

Additional Pressureinformation with flat ga

Pressure-resistant up to 15 bar, with flat gasket, massive hexagon socket SW12, blue or red





HL-No.	Colour	Dimension	Weight	EAN	Piece/package
42B.MS	blue	1/2" x Ø 33 mm	75 g	+017140	10
42R.MS	red	1/2" x Ø 33 mm	75 g	+017188	10

Weight 23 g 23 g 28 g 28 g



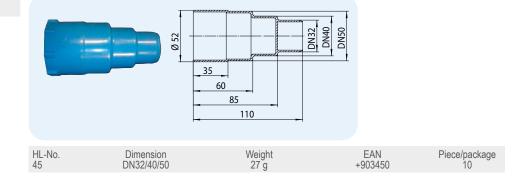
HL45 Protection plug for drain pipes

Data

Material P

Function To close drainage pipes during

costruction



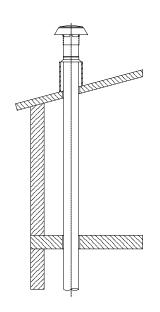
HL805, HL807, HL810 Roof ventpipe fitting

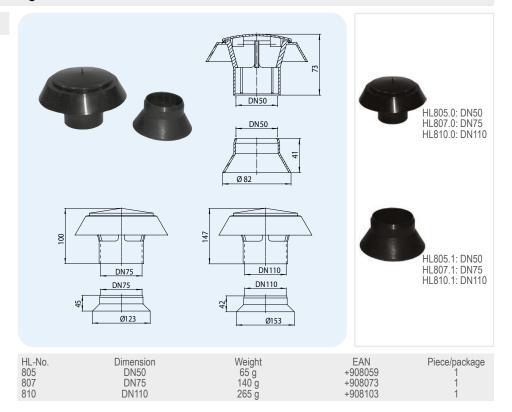
Data

Material PP

Function For usage on the roof at the end

of downpipes; UV-stabilised







HL6100 Sound insulation pad

Data

Material Rubber pad, based on recycled

rubber and PU-elastomer

Dimension 500 x 250 x 8 mm

Fits to shower channels of series HL50



 HL-Nr.
 Dimension
 Weight
 EAN being the piece/package
 Piece/package

 6100
 500 x 250 x 8 mm
 820 g
 +033799
 1

HL6200 Sound insulation pad

Data

Material Rubber pad, based on recycled

rubber and PU-elastomer

Dimension 500 x 500 x 8 mm

Fits to shower channels of HL90, HL300

drains, HL510-series, HL5100



 HL-Nr.
 Dimension
 Weight
 EAN
 Piece/package

 6200
 500 x 500 x 8 mm
 1640 g
 +033805
 1

HL6300 Sound insulation pad

Data

Material Rubber pad, based on recycled

rubber and PU-elastomer

Dimension 900 x 450 x 8/4 mm (2 pieces)

Fits to shower pannel HL523N-90x90



 HL-Nr.
 Dimension
 Weight
 EAN https://dx.mm
 Piece/package

 6300
 2 Stk. 900 x 450 x 8/4 mm
 4540 g
 +033812
 1

HL6600 Sound insulation pad for HL53K HL6700 Sound insulation pad for HL53KF

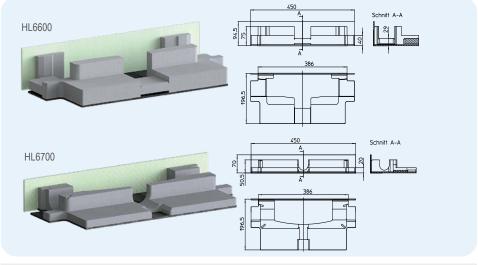
Data

Material EPS/cork

Dimensions see techn. drawing

Fits for HL53K/HL53KF - drain body

InFloor



 HL-Nr.
 Dimension
 Weight
 EAN
 Piece/package

 6600
 450 x 386 x 196,5 mm
 1336 g
 +041244
 1

 6700
 450 x 386 x 196,5 mm
 1250 g
 +041251
 1



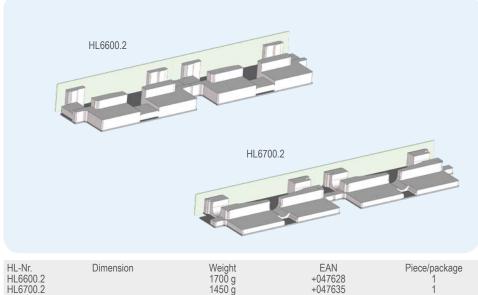
HL6600.2 Sound insulation pad for HL53K.2 HL6700.2 Sound insulation pad for HL53KF.2

Data

EPS/cork Material Dimensions see www.hl.at

Fits for Drain body HL53K.2 and

HL53KF.2



IL-Nr.	Dimension	Weight	EAN	Piece/package
IL6600.2		170Ŏ g	+047628	1
11 6700 2		1450 a	+047635	1

HL6800 Sound insulation pad for HL531

Data

Material Rubber, based on recycled rubber

and PU-elastomer

Dimensions 1200 x 185 x 4/8 mm Fits for HL531 Primus drain



HL-Nr.	Dimension	Weight	EAN	Piece/package
6800	1200 x 185 x 4/8 mm	-	+044672	1



Barriere-free shower systems of HL - with sound protection

Peace and quiet within one's own four walls is a basic need and has a significant impact on our health and quality of life. People who are exposed to constant noise suffer from health problems, according to the World Health Organization (WHO). In addition to an increased risk of heart attack, long-term damage caused by constant exposure to noise include sleep disturbances, depression and hearing damage. Whether a noise is perceived as annoying or not essentially depends on the subjective perception of each individual.

What does the standard say about sound insulation?

The ÖNORM B8115:2021 "Sound insulation and room acoustics in building construction" is to be applied for the standard-compliant planning of sound insulation, in particular noise from building services (which also includes the barrier-free shower). The prerequisite for the application of this standard is the definition of

the use of individual rooms and their quietness expectation or the sound insulation target. This means that the level of sound insulation must be agreed with the client in advance. With the help of ÖNORM B8115-2:2021 and its methodology, the sound insulation level of the used units is determined. On this basis, the classification of sound insulation for building services can be carried out in accordance with ÖNORM B8115-5:2021 Section 5.8 Table 4. Here, a distinction is made between four sound insulation classes from A (high protection) to sound insulation class E (low sound insulation) and thus the sound insulation quality of a building can be declared. In contrast to the predecessor standard, the current edition of the standard omits the "general requirements" for sound insulation".

HL soundproof shower solutions at the highest level!

All barrier-free shower solutions listed in the

table have been tested by the renowned Frauenhofer Institute and can be assigned to the (strictest) highest sound insulation class A according to ÖNORM B8115 2:2021 can be assigned. The highest level of safety is thus guaranteed.

Do you need more details about sound insulation or are you looking for the soundproofing reports for the shower solutions then visit www.hl.at , www.siphoniker.at or contact our service

Tel.: +432235 8629144 or write us an email: support@hl.

Measured value according to ÖNorm B 8115-2

	2000.09 to 0110 2 0220 2
Shower channel HL50 serie	17 dB(A)
Shower channel HL53 "Infloor"	12 dB(A)
Shower drains/floor drains HL5100, HL90, HL510	< 10 dB(A)
Shower drain/floor drain HL540[I] HL541[I]	12 dB(A), [11] dB(A) <10 dB(A), [<10 dB(A)]
Shower tray drain HL570 Flexbox	12 dB(A)







