

SIFONE

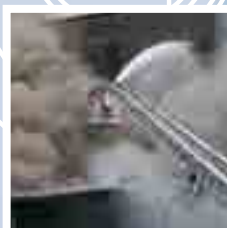
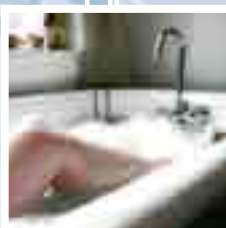
HL

ABLÄUFE



HL® Products

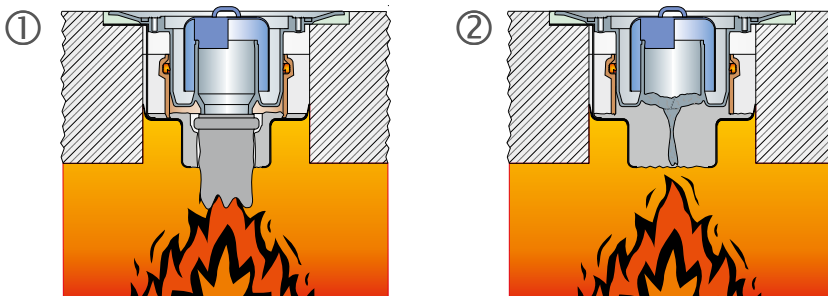
Accessories



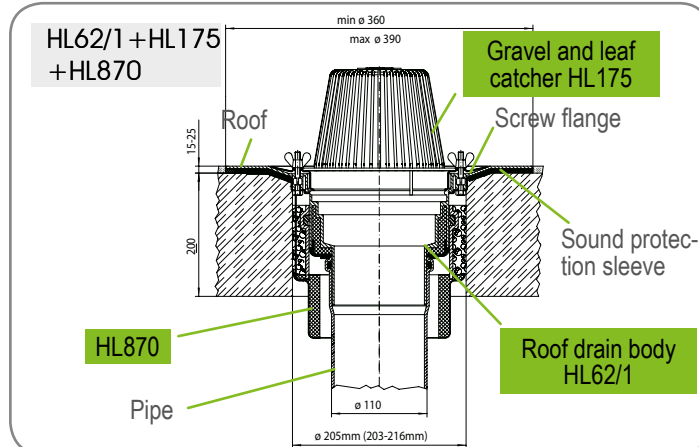
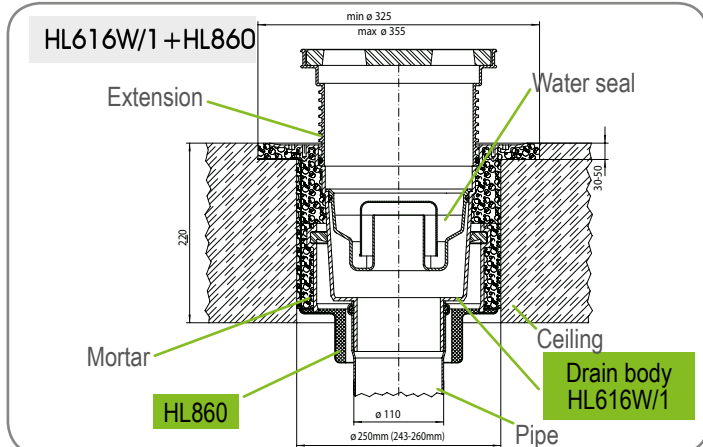
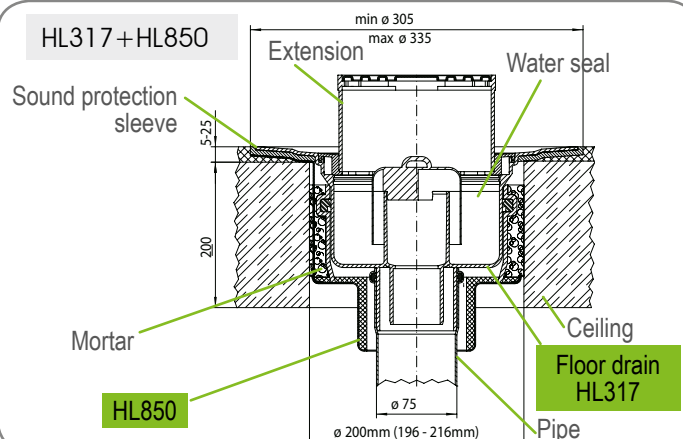
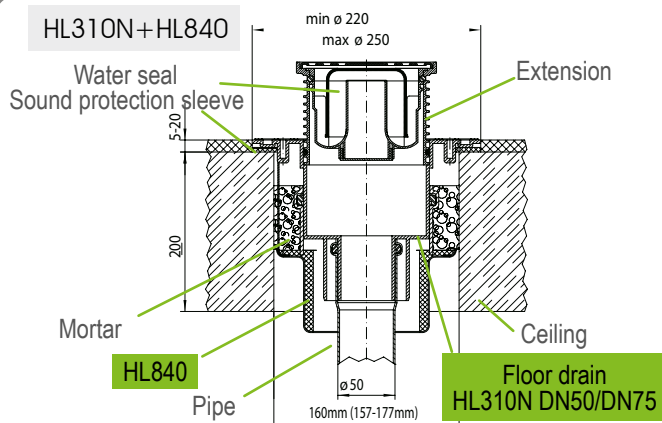
HL® Fire protection – Function

Function in case of fire

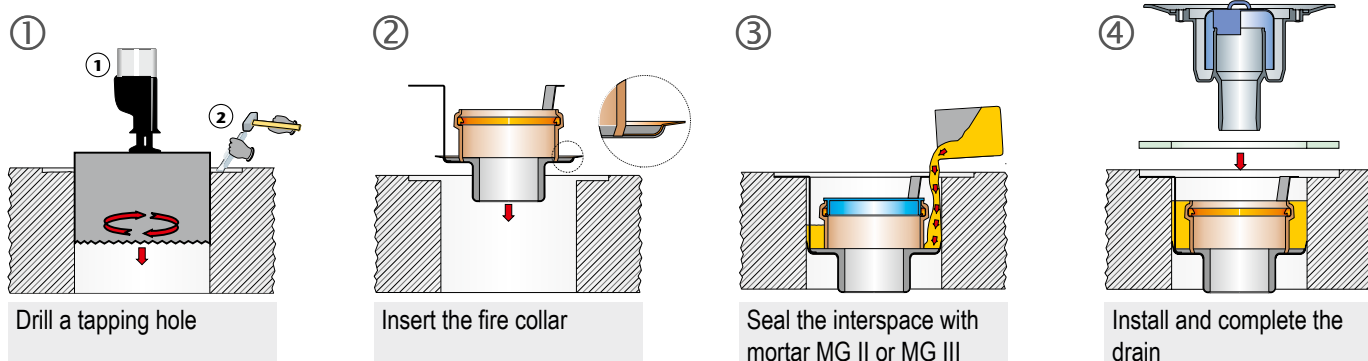
This assembly prevents the spread of fire to another floor. Intumescent material in the metal housing starts to expand at a temperature of 150°C and completely seals the hole in the ceiling. Heat, fire and smoke cannot pass into the next fire section.



HL® Fire protection – Sectional drawings



HL® Fire protection – Installation steps

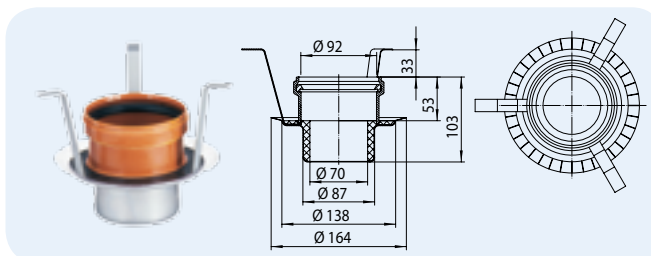


HL® Accessories – Products – Data

HL830 Fire protection collar

Data

Fire protection class	R90/120
Tapping hole diameter	HL830: Ø 140/150 mm (139 mm – 158 mm)
Fits to	HL511KE

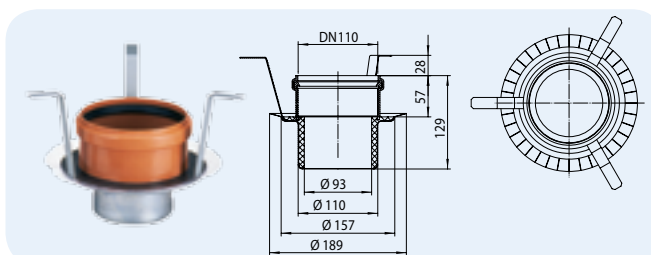


HL-No. 830	Dimension Ø 92 / 70 mm	Weight 500 g	EAN +014989	Piece/package 1
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HL840 Fire protection collar

Data

Fire protection class	R90/120
Tapping hole diameter	HL840: Ø 160 mm (157 – 177 mm)
Fits to	HL310N-series DN50/75

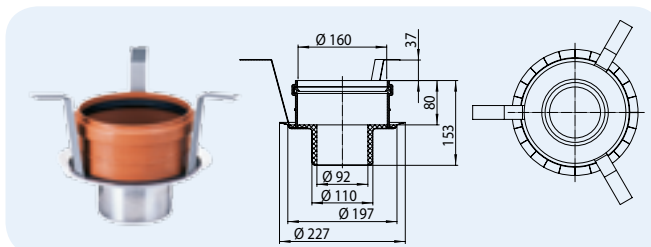


HL-No. 840	Dimension Ø 110 / 93 mm	Weight 830 g	EAN +015184	Piece/package 1
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HL850 Fire protection collar

Data

Fire protection class	R90/120
Tapping hole diameter	HL850: Ø 200 mm (198 – 216 mm)
Fits to	HL317 DN50/75, HL62 series DN75

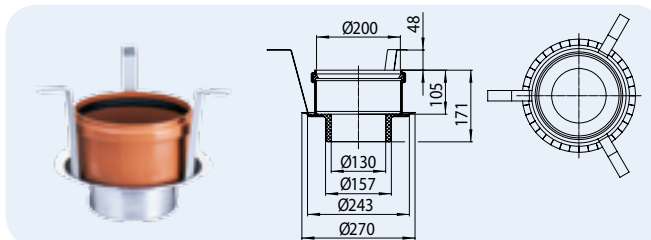


HL-No. 850	Dimension Ø 160 / 92 mm	Weight 1360 g	EAN +015016	Piece/package 1
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HL860 Fire protection collar

Data

Fire protection class	R90/120
Tapping hole diameter	HL860: Ø 250 mm (243 – 260 mm)
Fits to	HL606- u. HL616-series DN110

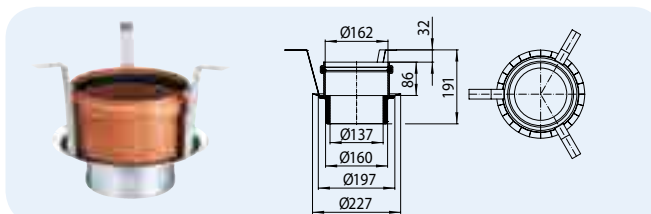


HL-No. 860	Dimension Ø 200 / 130 mm	Weight 2390 g	EAN +015030	Piece/package 1
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HL870 Fire protection collar

Data

Fire protection class	R90/120
Tapping hole diameter	HL870: Ø 200 mm (196 – 216 mm)
Fits to	HL317 DN110, HL62 DN110



HL-No. 870	Dimension Ø 162 / 137 mm	Weight 1700 g	EAN +030729	Piece/package 1
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HL9 Socket connector

Data

Material	PP
Standard	DIN 19531, 19538, 19560, 19561, 4060
Function	Connection between plastic and cast iron or lead pipes in flow direction



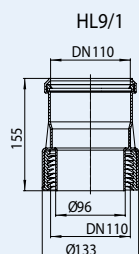
HL9/7/1

HL9/50/1

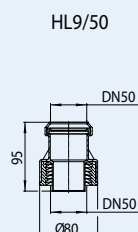
HL9/1

HL9/7

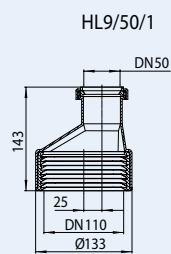
HL9/50



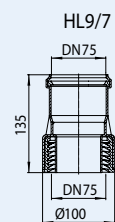
HL9/1



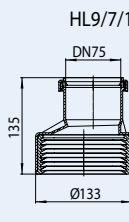
HL9/50



HL9/50/1



HL9/7



HL9/7/1



HL9/1: HL01064D
 HL9/50
 HL9/50/1: HL01062D
 HL9/7
 HL9/7/1: HL01063D



HL9/1
 HL9/50/1: HL01029D
 HL9/50: HL01027D
 HL9/7
 HL9/7/1: HL01028D



HL-No.	Dimension	Weight	EAN	Piece/package
9/50	DN50	130 g	+900954	1
9/7	DN75	230 g	+900978	1
9/1	DN110	380 g	+909100	1
9/50/1	DN50/110	145 g	+929511	1
9/7/1	DN75/110	150 g	+926719	1

HL9ET Socket connector

Data

Material	PP
Standard	DIN 19531, 19538, 19560, 19561, 4060
Function	Connection between plastic and eternit pipes in flow direction



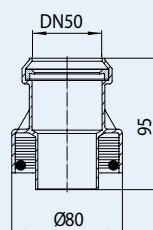
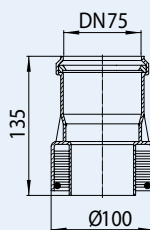
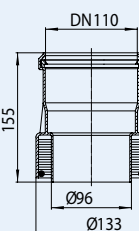
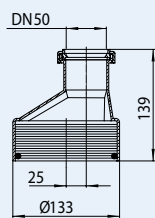
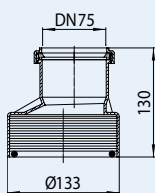
HL9/7/1ET

HL9/50/1ET

HL9/1ET

HL9/7ET

HL9/50ET



HL9/1ET: HL01064D
 HL9/50ET
 HL9/50/1ET: HL01062D
 HL9/7ET
 HL9/7/1ET: HL01063D

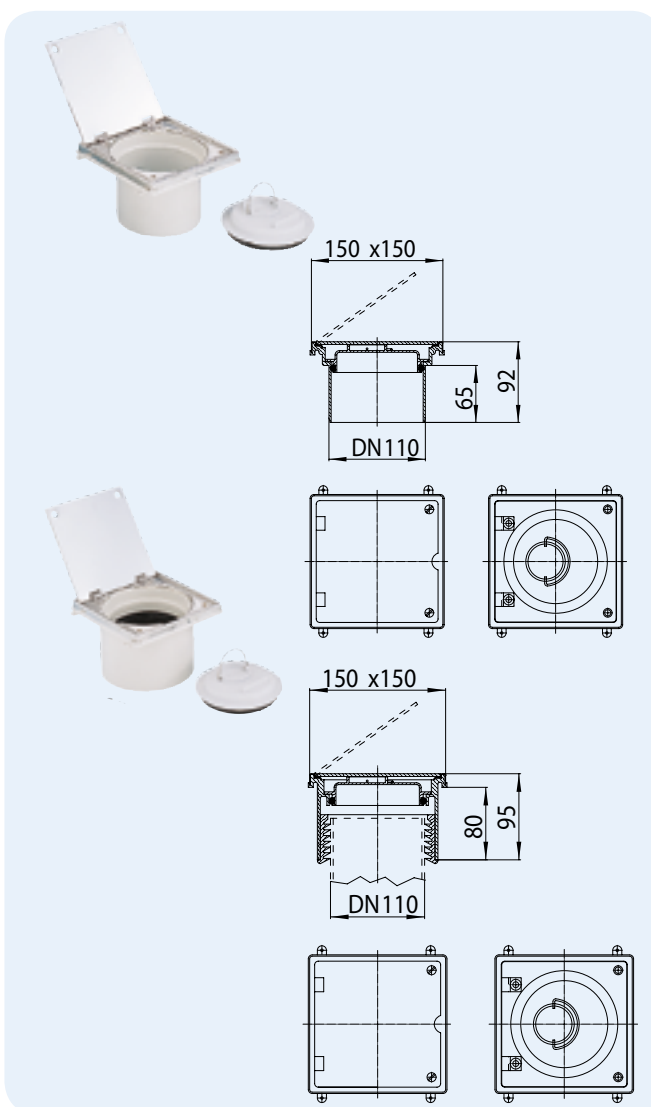
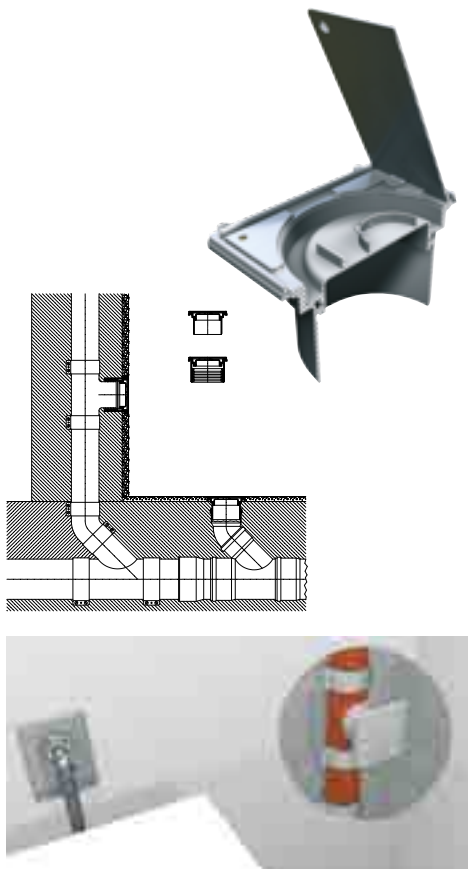


HL9/1ET: HL01083D
 HL9/50ET: HL01085D
 HL9/50/1ET: HL01085D
 HL9/7ET
 HL9/7/1ET: HL01084D

HL-No.	Dimension	Weight	EAN	Piece/package
9/50ET	DN50	130 g	+910953	1
9/7ET	DN75	230 g	+910977	1
9/1ET	DN110	380 g	+919109	1
9/50/1ET	DN50/110	145 g	+939954	1
9/7/1ET	DN75/110	150 g	+939978	1

HL98, HL98SML Rodding eye**Data**

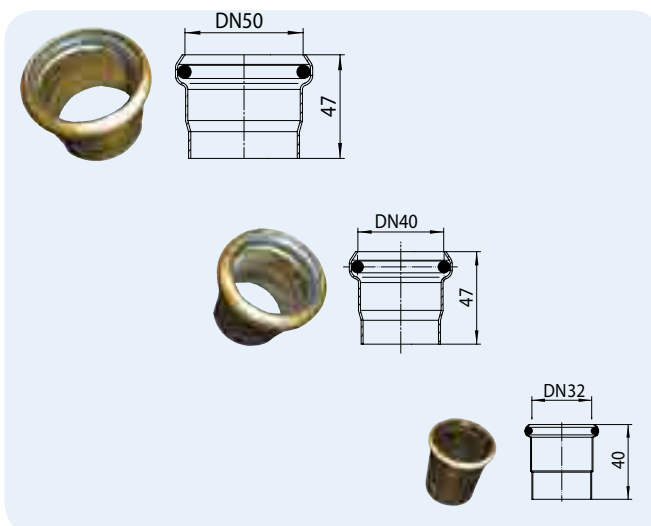
Material	PP / Stainless steel
Load classification	K3 – max. 300 kg
Function	For installation in the floor or in the wall, connection to plastic pipe sockets or SML-pipes.



HL-No.	Dimension	Weight	EAN	Piece/package
98	DN110	840 g	+701988	1
98SML	DN110	1040 g	+012688	1

HL5 Brass-soldering connector with O-ring**Data**

Material	Brass
Function	Connection between plastic and lead in flow direction

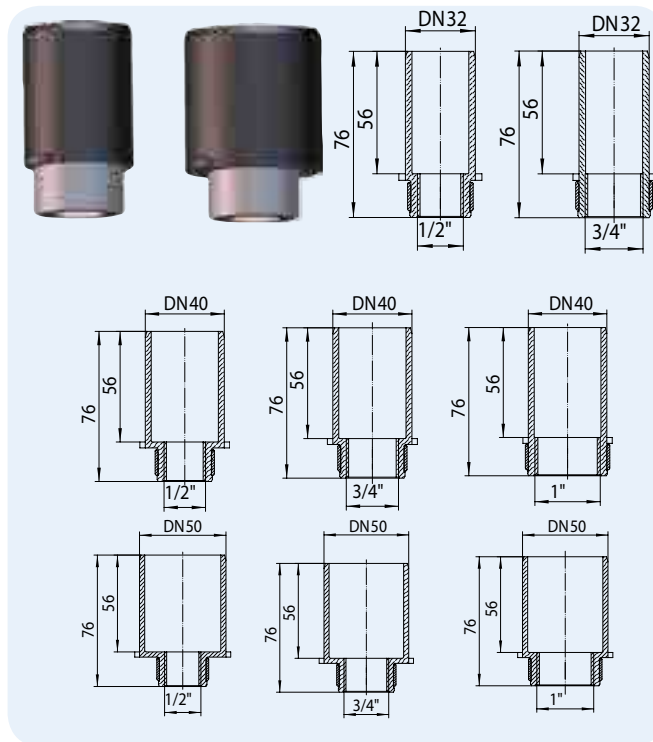


HL-No.	Dimension	Weight	EAN	Piece/package
5/30	DN32	20 g	+100538	10
5/40	DN40	60 g	+100057	10
5/50	DN50	80 g	+100552	10

HL30, HL40, HL41 Universal connector

Data

Material	PE, pluggable and weldable
Function	Connector for not-pressure pipe works; with stainless steel banding

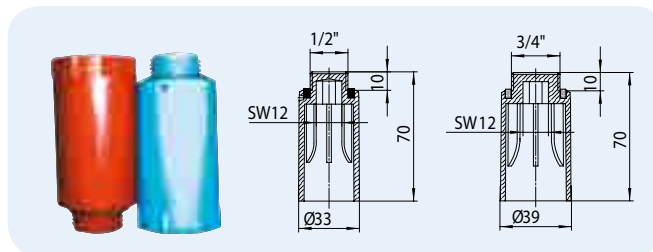


HL-No.	Dimension	Weight	EAN	Piece/package
30.2	DN32 x R1/2"	30 g	+004461	10
30.3	DN32 x R3/4"	38 g	+004485	10
40.2	DN40 x R1/2"	36 g	+000692	10
40.3	DN40 x R3/4"	44 g	+000470	10
40.4	DN40 x R1"	54 g	+000487	10
41.2	DN50 x R1/2"	42 g	+000517	10
41.3	DN50 x R3/4"	50 g	+000746	10
41.4	DN50 x R1"	60 g	+000432	10

HL42, HL43 Test plug with vent hole

Data

Material	PP
Function	Usage only for pressure test! Acc. DIN1988/2 not allowed for permanent pressure!
Additional information	Pressure-resistant up to 15 bar, with flat gasket, massive hexagon socket SW12, blue or red



HL043.1D 3/4"
HL042.1D 1/2"

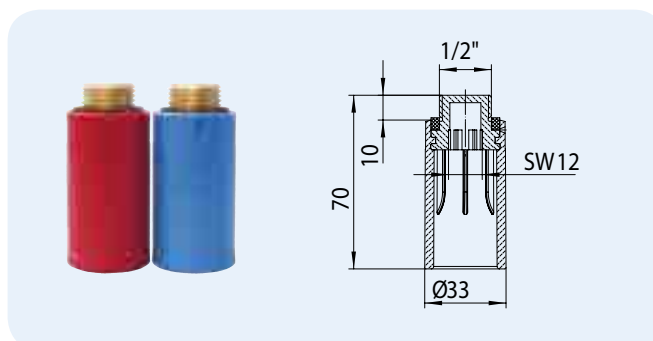


HL-No.	Colour	Dimension	Weight	EAN	Piece/package
42.B	blue	1/2" x Ø 33 mm	23 g	+901425	10
42.R	red	1/2" x Ø 33 mm	23 g	+902422	10
43.B	blue	3/4" x Ø 39 mm	28 g	+901432	10
43.R	red	3/4" x Ø 39 mm	28 g	+902439	10

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 information	Pressure-resistant up to 15 bar, with flat gasket, massive hexagon socket SW12, blue or red



HL042.1D

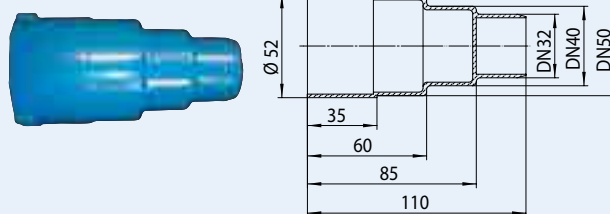


HL-No.	Colour	Dimension	Weight	EAN	Piece/package
42B.MS	blue	1/2" x Ø 33 mm	75 g	+017140	10
42R.MS	red	1/2" x Ø 33 mm	75 g	+017188	10

HL45 Protection plug for drain pipes

Data

Material	PP
Function	To close drainage pipes during construction

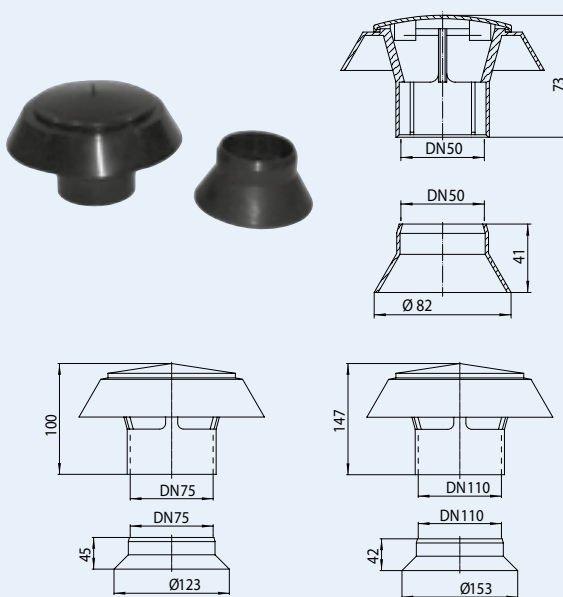
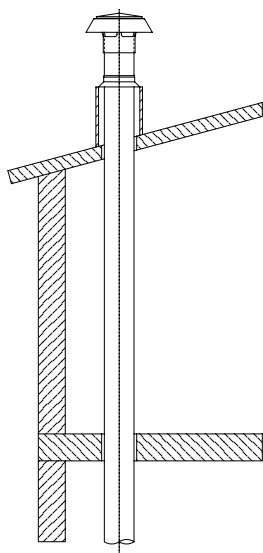


HL-No.	Dimension	Weight	EAN	Piece/package
45	DN32/40/50	27 g	+903450	10

HL805, HL807, HL810 Roof ventpipe fitting

Data

Material	PP
Function	For usage on the roof at the end of downpipes; UV-stabilised



HL805.0: DN50
HL807.0: DN75
HL810.0: DN110



HL805.1: DN50
HL807.1: DN75
HL810.1: DN110

HL-No.	Dimension	Weight	EAN	Piece/package
805	DN50	65 g	+908059	1
807	DN75	140 g	+908073	1
810	DN110	265 g	+908103	1

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	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 series HL52, HL90, HL510N and 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	Piece/package
6300	2 Stk. 900 x 450 x 8/4 mm	4540 g	+033812	1

HL6400 Sound insulation pad**Data**

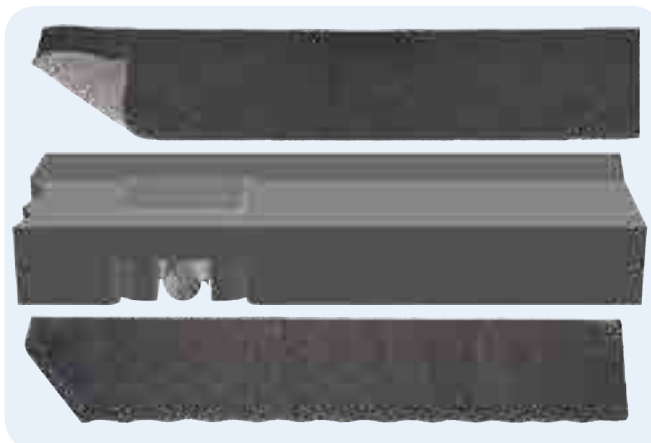
Material	Rubber pad, based on recycled rubber and PU-elastomer
Dimension	1200 x 600 x 8/4 mm (2 pieces)
Fits to	shower pannel HL523N-120x120



HL-Nr.	Dimension	Weight	EAN	Piece/package
6400	2 Stk. 1200 x 600 x 8/4 mm	8060 g	+033829	1

HL6500 Sound insulation pad**Data**

Material	Rubber pad, based on recycled rubber and PU-elastomer
Dimension	1200 x 256 x 8 mm (for bottom side) 1200 x 260 x 5 mm (for up side)
Fits to	shower block HL530 series



HL-Nr.	Dimension	Weight	EAN	Piece/package
6500	1200 x 256 x 8 mm 1200 x 260 x 5 mm	3030 g	+033836	1

Sound level L_{in} in dB(A) – DIN 4109

Sound level $L_{Aeq,nT}$ in dB(A) ÖNORM B 8115-2

Requests of standards DIN 4109 / ÖNORM 8115-2:

Minimum request: 30 dB(A)

Increased request: 25 dB(A)

Barriere-free shower systems of HL - with sound protection

Transmission of sound from other living and working areas or from outside is not welcome, because of different reasons:

- Sound may reduce your concentration during work.
- It may be unhealthy.
- Private conversations should stay private.
- Sound may be felt as disturbing during reading, television...

Barrier-free shower systems like shower channels, shower boards or floor drains transfer drainage sound and impact noises in surrounding rooms, because they are integrated in the screed. Therefore a sound bridge may emerge between screed and the raw concrete.

Sound protection is handled in German standard DIN 4109 and Austrian standard

ÖNorm 8115-2.

Constructional requests may be from minimal to increased sound protection.

DIN 4109 - regulations

- Regulates the allowed sound level of service plants in protectable rooms.
- Denominations are approved stand of the art.
- They are valid, if there are no further agreements concerning sound protection.

Protectable rooms acc. DIN 4109 are:

- Living- and bedrooms
- Nurseries
- Offices and working rooms
- Seminary rooms, class rooms

The use of DIN4109 is independent from the type of the building, but always valid, if there are protectable rooms in the building, e.g.

hotels, retirement homes, offices, seminary rooms...

In your own living area the DIN 4109 has no validity, only in surrounding protectable rooms.

Barrier-free shower systems of HL Hutterer & Lechner may now be equipped with special sound protection pads (HL6100, HL6200, HL6300, HL6400, HL6500).

These systems have now been inspected by the German „Fraunhofer Institut“ acc. DIN 4109 and Ö-Norm 8115-2. Result: All systems match with increased requests to sound protection in accordance with the recommended installation circumstances. Results as follows:

	Shower channel HL50 Serie	Shower block HL530	Short channel HL52	Floor drains HL5100, HL90 HL510N
				
DIN 4109	20 dB(A)	25 dB(A)	20 dB(A)	12 dB(A)
ÖNORM 8115-2	–	21 dB(A)	–	<10 dB(A)

Comment: Determined results correlate to the room below (basement), acc. DIN4109.
 The sound simulates a mechanical vibration at the top level of customary shower heads.

