

SIFONE

HL

ABLÄUFE

503 x 303

380 x 180

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71,5

108

133

HL[®] System solutions

Barrier-free showers

HL® System solutions for barrier-free showers

Basic information for planning and execution

Barrier-free showers are very popular to nowadays users. The advantages are obvious: Actual 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 shower, it can be observed that the practice is greater than theory, whatsoever. There are many areas of the process of an installment can go wrong, and, therefore, failing to achieve house owners expected results. This can be inadequate consultation of end users, the lack of coordination of different installation processes, ie the screed installer, plumber and tiler. In order to prevent this failures it would be recommended to draw attention to certain aspects, such as following:

▲ Installation needed height

Especially in cases of renovation of bathrooms, the installer has to install the drain to in floor construction with very low heights and that requires very thin drainage systems. For the shower channels must be installed drop on a tile surface (min. 2%). Attention: floor drain height is not equal to a height that is needed in the floor (the drop must be calculated)!

▲ Capacity

The performance of the shower capacity should be calculated with performance of the process (Shower fitting + 20% = minimum drainage capacity). The test procedure for determining drainage capacity is in accordance with EN 1253-2:2004 and should be calculated with the water height of 20mm.

▲ Selection of the drain system:

Point drainage



▲ Advantages of point drainage:

There are many difficulties during installment of liner showers. Some of them are the gaps between tiles around the drain and in front of the wall. With point drainage this possibility to make gaps are eliminated. The lower surface of the floor allows easy cleaning. Point drainage provides better flexibility in installing smaller tiles, whether is parallel or diagonal tiles installment. Nevertheless, drain position can be set individually in order to fit in the tile size and drainage position.

Linear drainage



▲ Advantages of linear drainage:

Simple drop from open surface to the drainage point ensures quicker and simpler installment of screed. Large tiles could be laid easily (diagonal tile cut is omitted). Installation of the linear drainage next to the wall is recommended because of the overflow of water from the shower area to the rest of bathroom. With close-to-wall installment that problem is avoided.

▲ Connection to isolation

Floor showers in the bathroom are on the most moisture-dangerous areas (according to ÖNORM B 2207 danger class W4). Since joints between the tiles and cement are not sealed permanently, a moisture seal must be applied under the tiles. In most cases, it involves an alternative waterproofing (waterproofing assembly). The most danger spot is the connections between drain and isolation. High quality shower drain products are those who are equipped with appropriate sealing connections that allows water under tiles to leak out. HL-shower drain systems also have the possibility to take out the water from the sealing kit level.

▲ Stench trap

According to standard EN 12056-2 stench traps must be installed inside of the buildings. Every stench trap has to have water seal of at least 5cm height in order to prevent cases with evaporation of siphon water, or damaging trap water height with vacuum in the pipe system. In cases of lower cement level, and possible installment height, the siphon water height is also damaged. In this case, the stench trap must be provided with an additional mechanical odor barrier. HL Shower drain systems are reliable for this case with the proven Primus system. This system includes both a water trap and a mechanical odor barrier. A floating body will close siphon when water inside the trap evaporates.

HL® System solutions for barrier-free showers

Basic information for planning and execution

For proper water drainage it is important to have adequate ventilation of the pipe system. If the drain point is distant more than 4m from the down pipe, the drain line must also be ventilated in accordance with EN 12056-2. In this case, the most economical solution is to install ventilation valve HL905.

▲ Coordination of a building process
 Usually, there are 3 different working force groups during installment of barrier-free showers: plumbers, floor layers and tilers. Many gaps that lead to an insufficient result and thus to dissatisfied customers. This can be avoided by in-advance cross-discipline communication. For this purpose, it is recommended the establishment of a central planning authority (planners, architects, ...) for the coordination of the various activities.

▲ Design
 Depending on the color, size and installation method HL is offering a number of solutions. Since the additional change cannot be made in every situation, it is recommended that end user should be informed in advance about different cover variations.

Relevant standards / guidelines

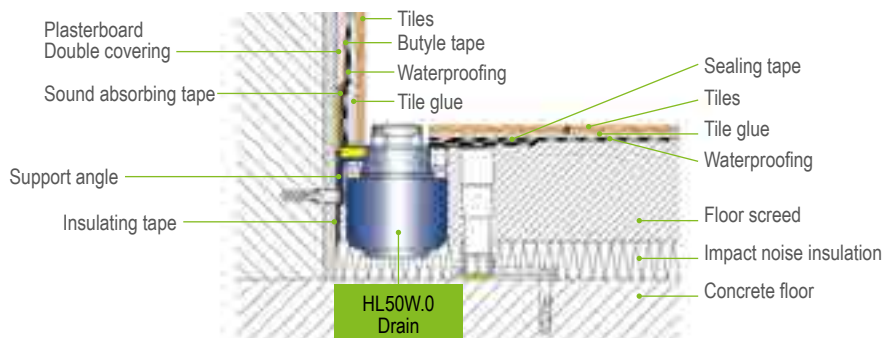
EN 12056 Gravity drainage systems for the inside of the buildings
 ÖNORM B 2501 Drainage systems for buildings
 ÖNORM B 2207 Tiles, Pavers and Mosaic-laying
 EN 1253 Gullies for buildings
 ÖNORM B 1600 Barrier-free construction - Design principles



HL® Barrier-free showers – Sectional drawings

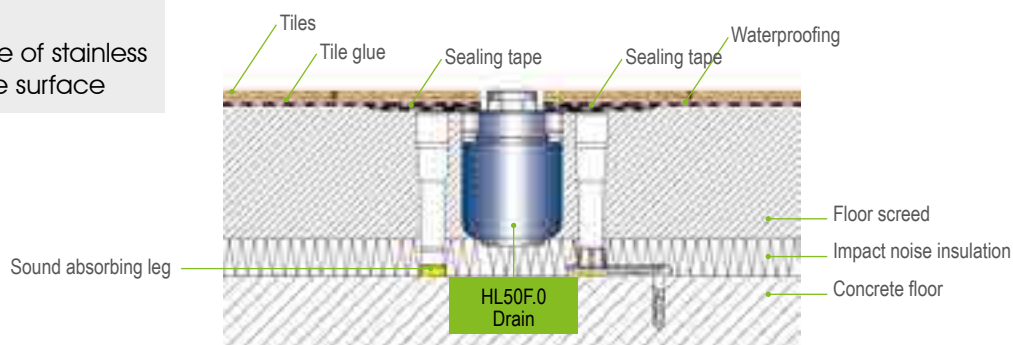
HL50W

Shower channel made of stainless steel, wall-side installation

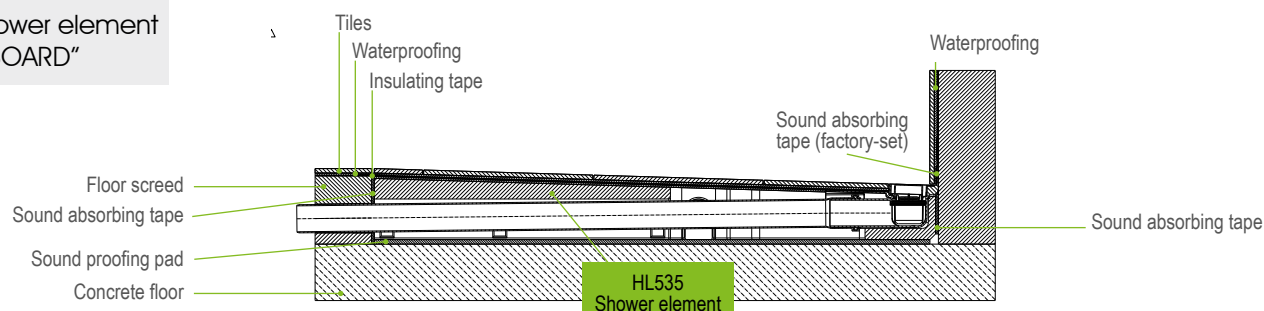


HL50F

shower channel made of stainless steel, installation in the surface

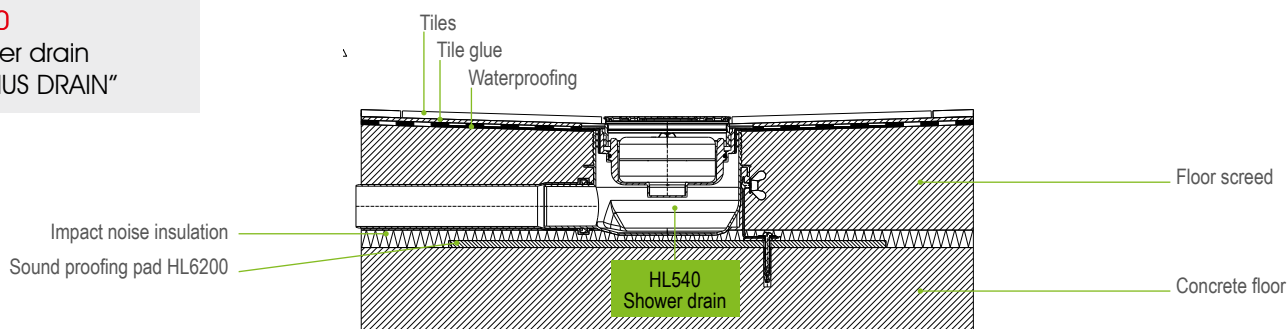


HL535 shower element „PRIMUS BOARD“

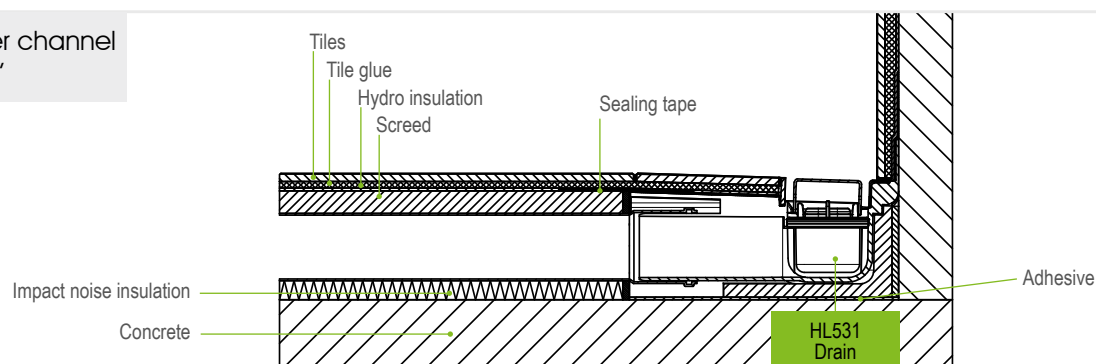


HL540

Shower drain „PRIMUS DRAIN“



HL531 shower channel „PRIMUS-LINE“



HL® Barrier-free showers – Installation manual HL531



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 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 HL535



1. HL535 Complete Primus-board



2. Turn shower board, define direction of the outlet pipe, remove EPS-supporting elements and insert pipe and fittings.



3. Turn again and set the shower board on e.g. tile glue, level it and connect to the pipe.



4. Take care, that the marks on the shower board are at the same level, than the floor screed will be.



5. Floor screed level is proper with the marks „OK-Estrich“ on the board.



6. After the floor screed is dry, the white EPS-plate may be removed by breaking out. After that a 3% slope to the wall remains.



7. Apply the waterproofing and seal all edges with sealing tapes.



8. Set tiles, remove red protection cover.



9. Ready

HL® Barrier-free showers - Installation manual HL540



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.



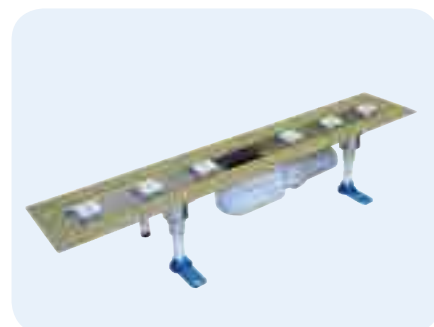
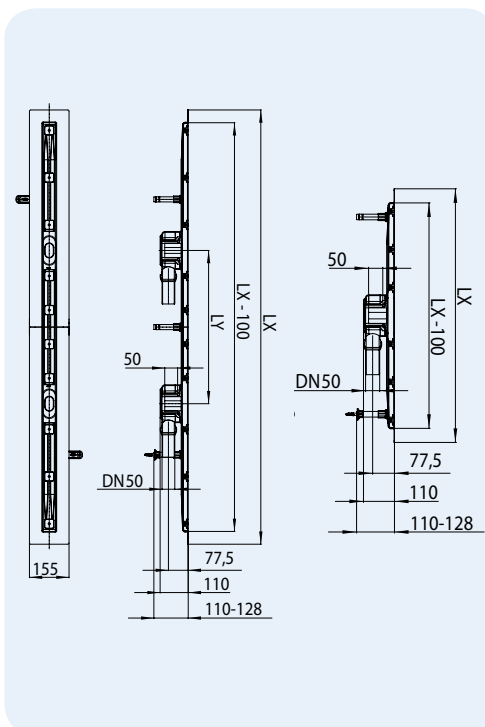
12. Ready

HL® Barrier-free showers – Products – Data

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

Data

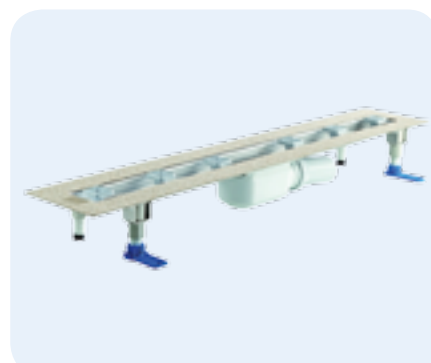
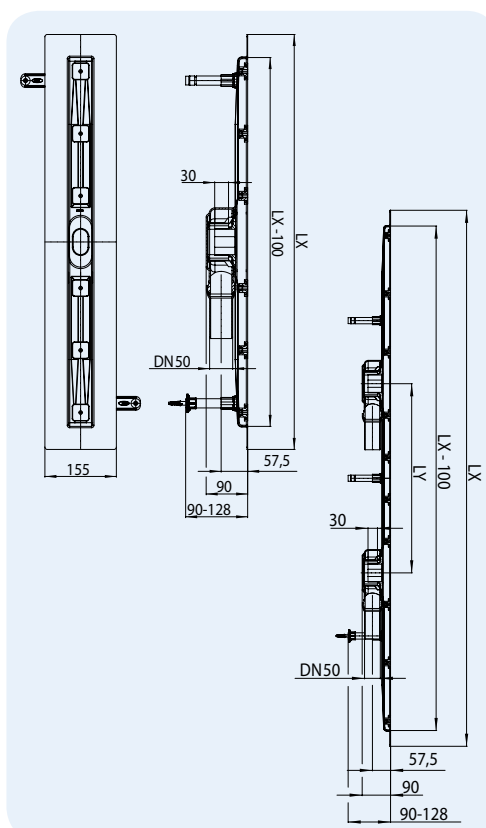
Capacity	600 – 1300 mm length = 0,8 l/s 1400 – 2100 mm length = 1,4 l/s
Material	Stainless steel 1.4301/PP
Outlet dimension	DN50 with ball-joint
Height	110 mm
Standard	EN 1253
Height of seal water	50 mm
Additional information	removable stretch trap, with 5cm surrounding sand-coated flange for a save 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



HL-No.	Material	Dimension	length LX	length LY	Capacity	Weight	EAN	Piece/package
50F.0/60	Stainless steel	DN50	600 mm		0,8 l/s	2261 g	+024599	1
50F.0/70	Stainless steel	DN50	700 mm		0,8 l/s	2488 g	+024612	1
50F.0/80	Stainless steel	DN50	800 mm		0,8 l/s	2729 g	+024636	1
50F.0/90	Stainless steel	DN50	900 mm		0,8 l/s	2937 g	+024650	1
50F.0/100	Stainless steel	DN50	1000 mm		0,8 l/s	3224 g	+024674	1
50F.0/110	Stainless steel	DN50	1100 mm		0,8 l/s	3525 g	+024698	1
50F.0/120	Stainless steel	DN50	1200 mm		0,8 l/s	3760 g	+024711	1
50F.0/130	Stainless steel	DN50	1300 mm		0,8 l/s	3966 g	+024735	1
50F.0/140	Stainless steel	DN50	1400 mm	500 mm	1,4 l/s	5840 g	+030545	1
50F.0/150	Stainless steel	DN50	1500 mm	500 mm	1,4 l/s	6120 g	+030569	1
50F.0/160	Stainless steel	DN50	1600 mm	600 mm	1,4 l/s	6260 g	+030583	1
50F.0/170	Stainless steel	DN50	1700 mm	600 mm	1,4 l/s	6600 g	+030606	1
50F.0/180	Stainless steel	DN50	1800 mm	700 mm	1,4 l/s	6820 g	+030620	1
50F.0/190	Stainless steel	DN50	1900 mm	700 mm	1,4 l/s	7060 g	+030644	1
50F.0/200	Stainless steel	DN50	2000 mm	800 mm	1,4 l/s	7240 g	+030668	1
50F.0/210	Stainless steel	DN50	2100 mm	800 mm	1,4 l/s	7560 g	+030682	1

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

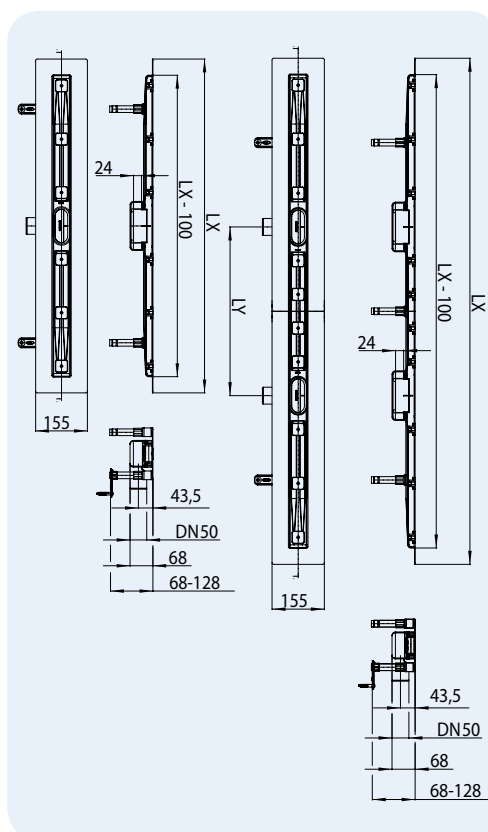
Capacity	600 – 1300 mm length = 0,7 l/s 1400 – 2100 mm length = 1,2 l/s
Material	Stainless steel 1.4301/PP
Outlet dimension	DN50 with ball-joint
Height	90 mm
Height of seal water	30 mm
Additional information	removable stench trap, with 5cm surrounding sand-coated flange for a save connection to the under-tile 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



HL-No.	Material	Dimension	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50FF.0/60	Stainless steel	DN50	600 mm		0,7 l/s	2261 g	+029761	1
HL50FF.0/70	Stainless steel	DN50	700 mm		0,7 l/s	2488 g	+029778	1
HL50FF.0/80	Stainless steel	DN50	800 mm		0,7 l/s	2729 g	+029785	1
HL50FF.0/90	Stainless steel	DN50	900 mm		0,7 l/s	2937 g	+029792	1
HL50FF.0/100	Stainless steel	DN50	1000 mm		0,7 l/s	3224 g	+029808	1
HL50FF.0/110	Stainless steel	DN50	1100 mm		0,7 l/s	3525 g	+029815	1
HL50FF.0/120	Stainless steel	DN50	1200 mm		0,7 l/s	3760 g	+029822	1
HL50FF.0/130	Stainless steel	DN50	1300 mm		0,7 l/s	3966 g	+3966 g	1
HL50FF.0/140	Stainless steel	DN50	1400 mm	500 mm	1,2 l/s	5840 g	+033362	1
HL50FF.0/150	Stainless steel	DN50	1500 mm	500 mm	1,2 l/s	6120 g	+033379	1
HL50FF.0/160	Stainless steel	DN50	1600 mm	600 mm	1,2 l/s	6260 g	+033386	1
HL50FF.0/170	Stainless steel	DN50	1700 mm	600 mm	1,2 l/s	6600 g	+033393	1
HL50FF.0/180	Stainless steel	DN50	1800 mm	700 mm	1,2 l/s	6820 g	+033409	1
HL50FF.0/190	Stainless steel	DN50	1900 mm	700 mm	1,2 l/s	7060 g	+033416	1
HL50FF.0/200	Stainless steel	DN50	2000 mm	800 mm	1,2 l/s	7240 g	+033423	1
HL50FF.0/210	Stainless steel	DN50	2100 mm	800 mm	1,2 l/s	7560 g	+033430	1

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

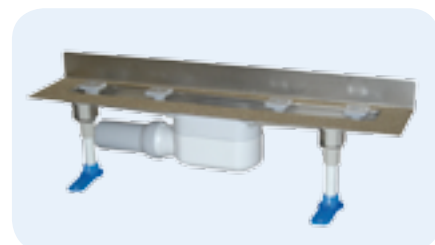
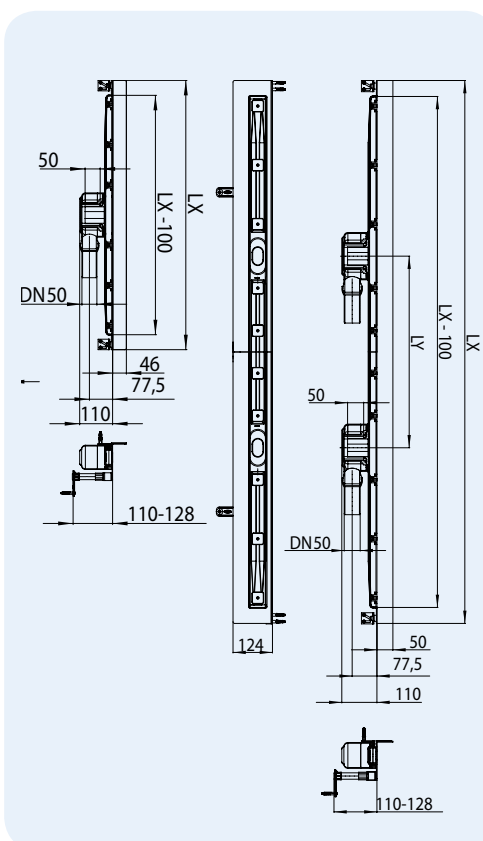
Capacity	600 - 1300 mm length = 0,46 l/s 1400 - 2100 mm length = 0,82 l/s
Material	Stainless steel 1.4301/PP
Outlet dimension	DN50
Height	68 mm
Standard	EN 1253
Height of seal water	24 mm
Additional information	Removable stench trap, with 5 cm surrounding sand coated flange for a save connection to the unter-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.



HL-No.	Material	Dimension	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50FU.0/60	Stainless steel	DN50	600 mm		0,46 l/s	2261 g		1
HL50FU.0/70	Stainless steel	DN50	700 mm		0,46 l/s	2488 g		1
HL50FU.0/80	Stainless steel	DN50	800 mm		0,46 l/s	2729 g		1
HL50FU.0/90	Stainless steel	DN50	900 mm		0,46 l/s	2937 g		1
HL50FU.0/100	Stainless steel	DN50	1000 mm		0,46 l/s	3224 g		1
HL50FU.0/110	Stainless steel	DN50	1100 mm		0,46 l/s	3525 g		1
HL50FU.0/120	Stainless steel	DN50	1200 mm		0,46 l/s	3760 g		1
HL50FU.0/130	Stainless steel	DN50	1300 mm		0,46 l/s	3966 g		1
HL50FU.0/140	Stainless steel	DN50	1400 mm	500 mm	0,82 l/s	5840 g		1
HL50FU.0/150	Stainless steel	DN50	1500 mm	500 mm	0,82 l/s	6120 g		1
HL50FU.0/160	Stainless steel	DN50	1600 mm	600 mm	0,82 l/s	6260 g		1
HL50FU.0/170	Stainless steel	DN50	1700 mm	600 mm	0,82 l/s	6600 g		1
HL50FU.0/180	Stainless steel	DN50	1800 mm	700 mm	0,82 l/s	6820 g		1
HL50FU.0/190	Stainless steel	DN50	1900 mm	700 mm	0,82 l/s	7060 g		1
HL50FU.0/200	Stainless steel	DN50	2000 mm	800 mm	0,82 l/s	7240 g		1
HL50FU.0/210	Stainless steel	DN50	2100 mm	800 mm	0,82 l/s	7560 g		1

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

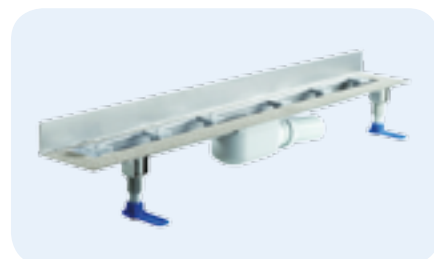
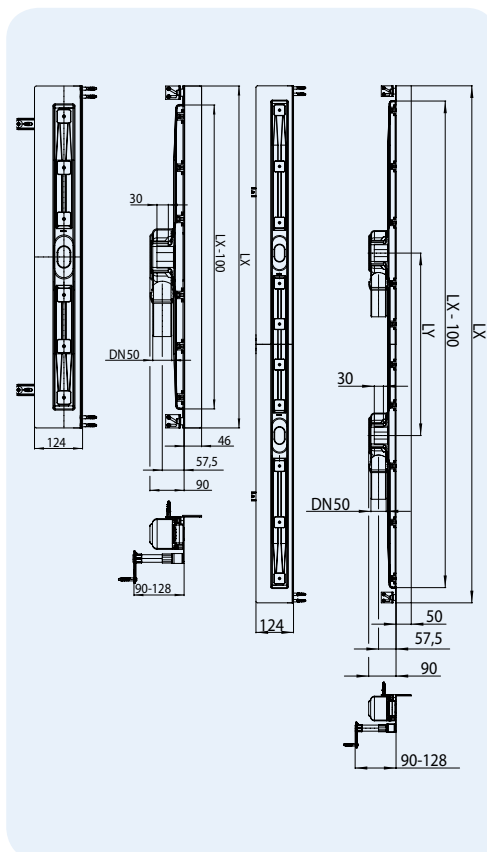
Capacity	600 – 1300 mm length = 0,8 l/s 1400 – 2100 mm length = 1,4 l/s
Material	Stainless steel 1.4301/PP
Outlet dimension	DN50 with ball-joint
Height	110 mm
Standard	EN 1253
Height of seal water	50 mm
Additional information	removable stench trap, with 5cm surrounding sand-coated flange for a save connection 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



HL-No.	Material	Dimension	length LX	length LY	Capacity	Weight	EAN	Piece/ package
50W.0/60	Stainless steel	DN50	600 mm		0,8 l/s	2409 g	+024759	1
50W.0/70	Stainless steel	DN50	700 mm		0,8 l/s	2655 g	+024773	1
50W.0/80	Stainless steel	DN50	800 mm		0,8 l/s	2965 g	+024797	1
50W.0/90	Stainless steel	DN50	900 mm		0,8 l/s	3248 g	+024810	1
50W.0/100	Stainless steel	DN50	1000 mm		0,8 l/s	3462 g	+024834	1
50W.0/110	Stainless steel	DN50	1100 mm		0,8 l/s	3769 g	+024858	1
50W.0/120	Stainless steel	DN50	1200 mm		0,8 l/s	4082 g	+024872	1
50W.0/130	Stainless steel	DN50	1300 mm		0,8 l/s	4283 g	+024896	1
50W.0/140	Stainless steel	DN50	1400 mm	500 mm	1,4 l/s	6200 g	+030385	1
50W.0/150	Stainless steel	DN50	1500 mm	500 mm	1,4 l/s	6480 g	+030408	1
50W.0/160	Stainless steel	DN50	1600 mm	600 mm	1,4 l/s	6780 g	+030422	1
50W.0/170	Stainless steel	DN50	1700 mm	600 mm	1,4 l/s	6960 g	+030446	1
50W.0/180	Stainless steel	DN50	1800 mm	700 mm	1,4 l/s	7200 g	+030460	1
50W.0/190	Stainless steel	DN50	1900 mm	700 mm	1,4 l/s	7450 g	+030484	1
50W.0/200	Stainless steel	DN50	2000 mm	800 mm	1,4 l/s	7920 g	+030507	1
50W.0/210	Stainless steel	DN50	2100 mm	800 mm	1,4 l/s	8020 g	+030521	1

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

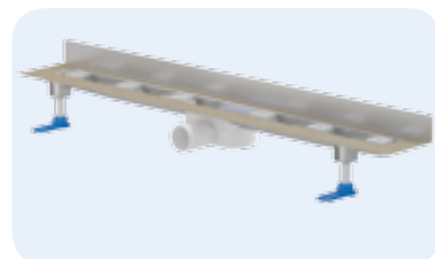
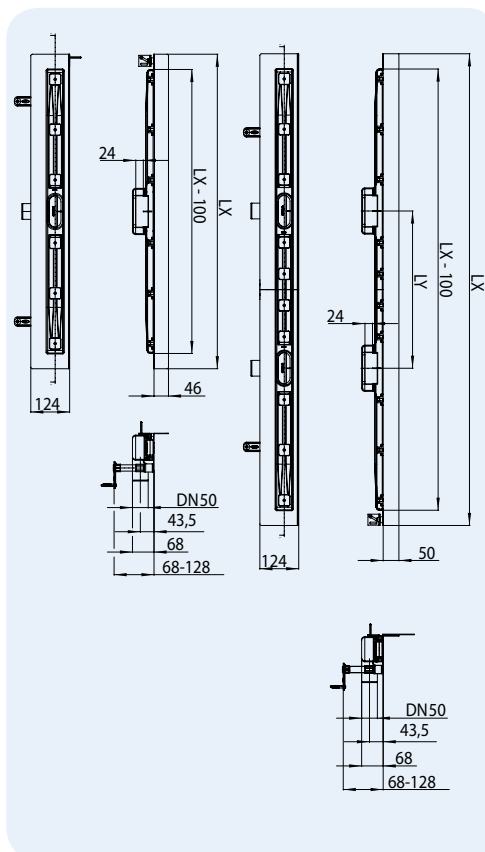
Capacity	600 – 1300 mm length = 0,7 l/s 1400 – 2100 mm length = 1,2 l/s
Material	Stainless steel 1.4301/PP
Outlet dimension	DN50 with ball-joint
Height	90 mm
Height of seal water	30 mm
Additional information	removable stench trap, with angled bar at the back, 5cm surrounding sand-coated flange for a 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, butyle tape for a waterproof connection to the wall, tape for sound disconnection, 2 pieces of edge trim jigs, 2 pieces of tiling gauges



HL-No.	Material	Dimension	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.0/100	Stainless steel	DN50	1000 mm		0,7 l/s	3462 g	+029730	1
HL50WF.0/110	Stainless steel	DN50	1100 mm		0,7 l/s	3769 g	+029747	1
HL50WF.0/120	Stainless steel	DN50	1200 mm		0,7 l/s	4082 g	+029754	1
HL50WF.0/130	Stainless steel	DN50	1300 mm		0,7 l/s	4283 g	+029709	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!**
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 information	Removable stretch trap, with 5cm surrounding sand coated flange and angled bar at the back for a save connection to the unter-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, butyle tape for a waterproof connection to the wall, tape for sound disconnection, 2 pieces of edge trim jigs, 2 pieces of tiling gauges.

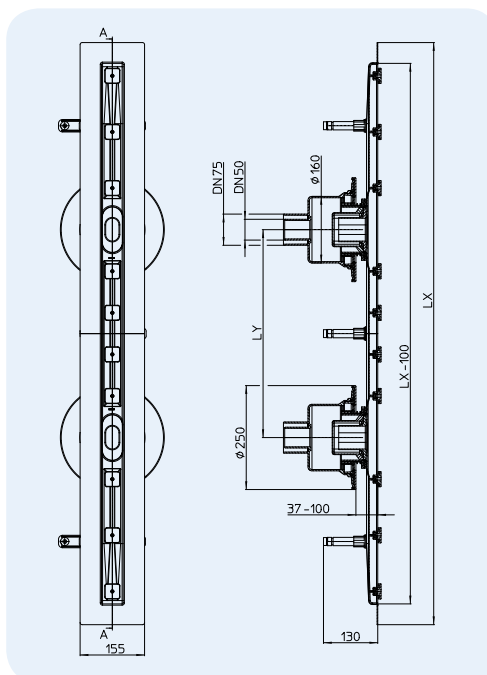
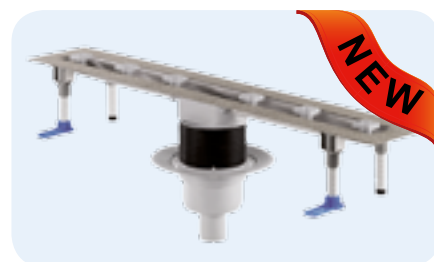
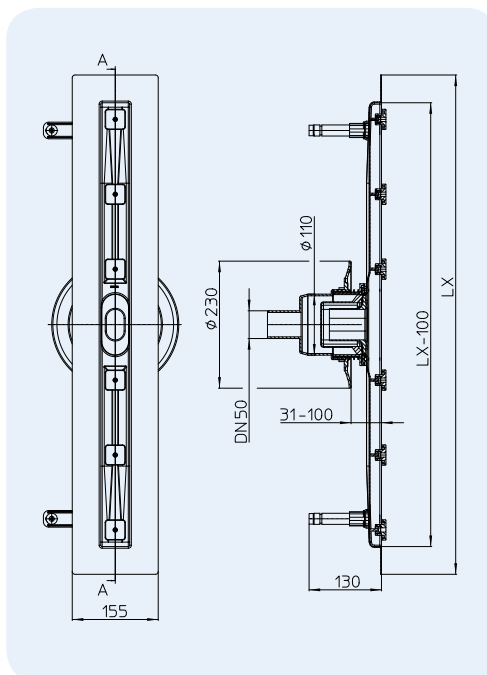


HL-No.	Material	Dimen- sion	length LX	length LY	Capacity	Weight	EAN	Piece/ package
HL50WU.0/60	Stainless steel	DN50	600 mm		0,46 l/s	2409 g	+034086	1
HL50WU.0/70	Stainless steel	DN50	700 mm		0,46 l/s	2655 g	+034093	1
HL50WU.0/80	Stainless steel	DN50	800 mm		0,46 l/s	2965 g	+034109	1
HL50WU.0/90	Stainless steel	DN50	900 mm		0,46 l/s	3248 g	+034116	1
HL50WU.0/100	Stainless steel	DN50	1000 mm		0,46 l/s	3462 g	+034123	1
HL50WU.0/110	Stainless steel	DN50	1100 mm		0,46 l/s	3769 g	+034130	1
HL50WU.0/120	Stainless steel	DN50	1200 mm		0,46 l/s	4082 g	+034147	1
HL50WU.0/130	Stainless steel	DN50	1300 mm		0,46 l/s	4283 g	+034154	1
HL50WU.0/140	Stainless steel	DN50	1400 mm	500 mm	0,82 l/s	6200 g	+034161	1
HL50WU.0/150	Stainless steel	DN50	1500 mm	500 mm	0,82 l/s	6480 g	+034178	1
HL50WU.0/160	Stainless steel	DN50	1600 mm	600 mm	0,82 l/s	6780 g	+034185	1
HL50WU.0/170	Stainless steel	DN50	1700 mm	600 mm	0,82 l/s	6960 g	+034192	1
HL50WU.0/180	Stainless steel	DN50	1800 mm	700 mm	0,82 l/s	7200 g	+034208	1
HL50WU.0/190	Stainless steel	DN50	1900 mm	700 mm	0,82 l/s	7450 g	+034215	1
HL50WU.0/200	Stainless steel	DN50	2000 mm	800 mm	0,82 l/s	7920 g	+034222	1
HL50WU.0/210	Stainless steel	DN50	2100 mm	800 mm	0,82 l/s	8020 g	+034239	1

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

Data

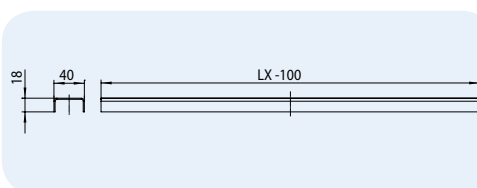
Capacity	600 - 1300 mm length = 0,8 l/s 1400 - 2100 mm length = 1,4 l/s
Material	Stainless steel 1.4301/PP
Outlet dimension	DN50 vertical
Height	See techn. drawing
Standard	EN 1253
Height of seal water	50 mm
Additional information	Removable stench trap, with 5cm surrounding sand-coated flange for a save 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



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**

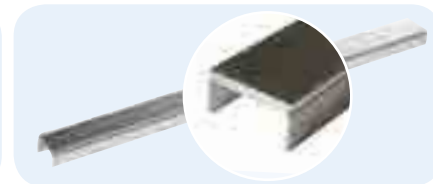
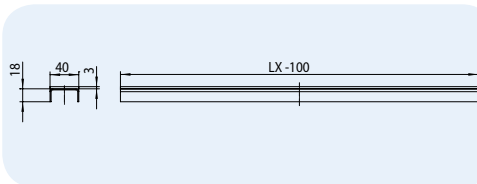
Material	Stainless steel 1.4301
Height	Usage for floorings from 2 – 16 mm including tile glue
Load classification	K3 (300 kg)



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**

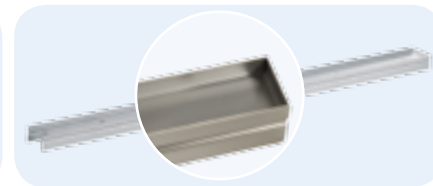
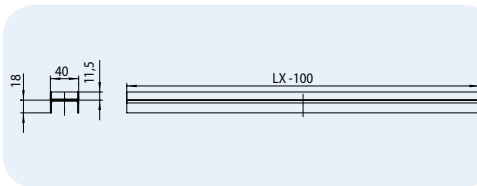
Material	Stainless steel 1.4301 brushed finish
Height	Usage for floorings from 5 – 19 mm including tile glue
Load classification	K3 (300 kg)



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)
Additional information	with recess for customers individual floor finish



HL-No.	Material	length LX -100	Weight	EAN	Piece/package	HL-No.	Material	length LX -100	Weight	EAN	Piece/package
050I/60	Stainless steel	500 mm	766 g	+025237	1	050I/140	Stainless steel	1300 mm	2003 g	+030224	1
050I/70	Stainless steel	600 mm	914 g	+025251	1	050I/150	Stainless steel	1400 mm	2151 g	+030248	1
050I/80	Stainless steel	700 mm	1060 g	+025275	1	050I/160	Stainless steel	1500 mm	2299 g	+030262	1
050I/90	Stainless steel	800 mm	1213 g	+025299	1	050I/170	Stainless steel	1600 mm	2447 g	+030286	1
050I/100	Stainless steel	900 mm	1412 g	+025312	1	050I/180	Stainless steel	1700 mm	2595 g	+030309	1
050I/110	Stainless steel	1000 mm	1488 g	+025336	1	050I/190	Stainless steel	1800 mm	2743 g	+030323	1
050I/120	Stainless steel	1100 mm	1723 g	+025350	1	050I/200	Stainless steel	1900 mm	2891 g	+030347	1
050I/130	Stainless steel	1200 mm	1855 g	+025374	1	050I/210	Stainless steel	2000 mm	3039 g	+030361	1

HL050.3EN Adjustment screws for the precise cover height**Data**

Material	PP
Recommended for	For the adapting of the cover plates to higher floorings, like natural stones



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

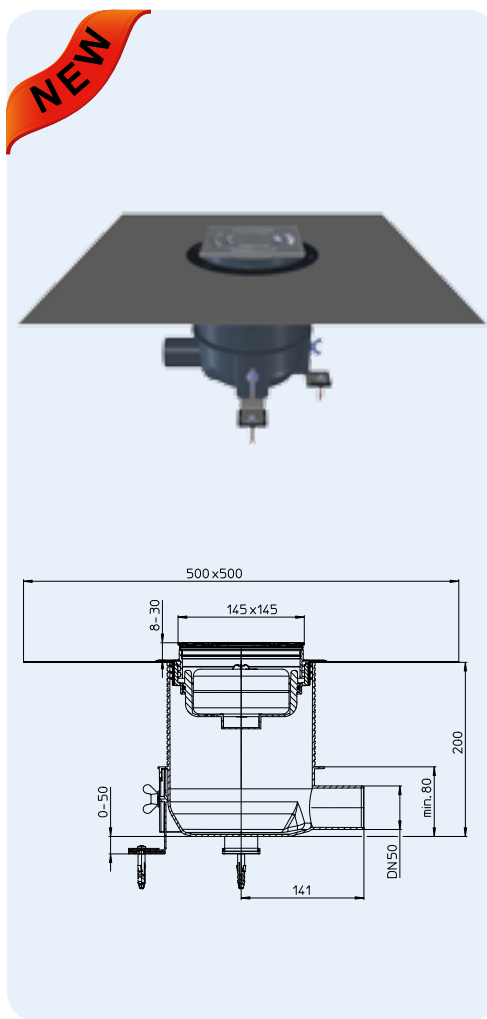
HL-No.	Material	Weight	EAN	Piece/package
050.3EN	PP	296 g	+025862	1

HL540 Shower drain "Primus-Drain"

Data

Capacity	0,8 l/s
Material	PP/Stainless steel
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
Installation	The drain body might be fixed on the floor with 3 metal angles and can be adjusted in height afterwards. Advantage: maximum screed 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 also see installation movie at www.hutterer-lechner.com

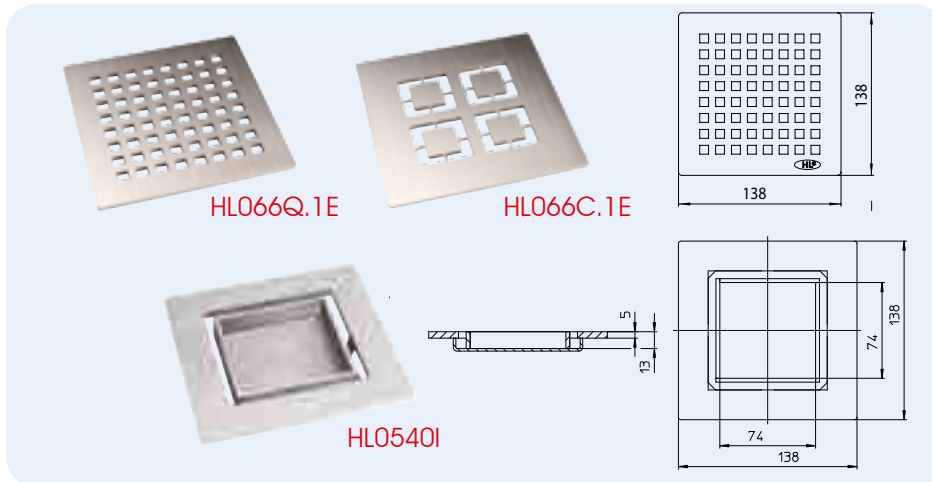


HL-No.	Material	Dimension	Weight	EAN	Piece/package
540	PP/Stainless steel	DN50			1

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

Data

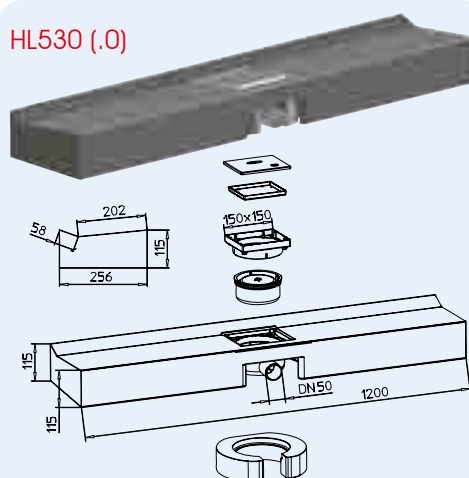
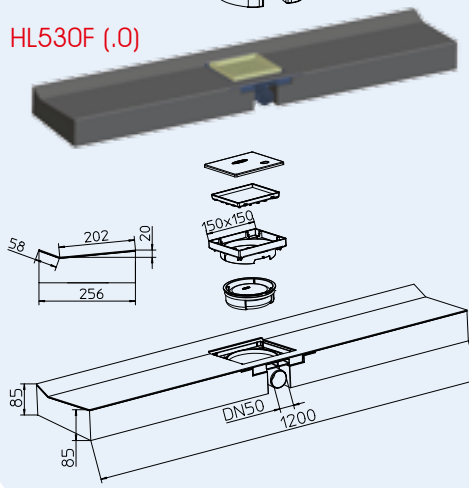
Material	Stainless steel V4A
Grate	HL540I: 138x138mm massive, Tile hollow: 74x74 mm, depth 13mm
Load classification	L - max. 1,5t, HL0540I - K3
Recommended for	Shower drain HL540 or floor drain series HL5100, HL3100, HL72.1 and HL317



HL-No.	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
0540I	Stainless steel V4A	138 x 138 x 5 mm			1

HL530 (.0) Shower block complete, installation wall-side, **HEIGHT 115 MM !**
HL530F (.0) Shower block complete, installation wall-side (flat version), **HEIGHT 85 MM!**
Data

Capacity	HL530(.0): 0,8 l/s HL530F(.0): 0,6 l/s
Material	PP/ABS/EPS-40
Grate	Frame 150 x 150 mm, adjustable in height from 7 to 17 mm, tile frame
Outlet dimension	HL530(.0) DN50 horizontal, 360° rotatable HL530F(.0) DN50 horizontal
Norm	EN 1253
Height of seal water	HL530(.0): 50mm HL530F(.0): 30mm with Primus trap, no stench without water!
Additional information	The exact adjustment to the right length is made on the construction site by simply cutting with a saw
Including	EPS-ring and lot cover

HL530 (.0)

HL530F (.0)


HL-No.	Material	Dimension	Frame	Weight	EAN	Piece/package
530	PP/ABS/EPS-40	DN50/1200 mm	grey	3060 g	+029310	1
530.0	PP/EPS-40	DN50/1200 mm		2780 g	+029297	1
530F	PP/ABS/EPS-40	DN50/1200 mm	grey	1817 g	+033652	1
530F.0	PP/EPS-40	DN50/1200 mm		1607 g	+033676	1

HL0530.G, (.B), (.C), (.S), (.W) Visible parts fitting to HL530.0 and HL530F.0

HL0530.GG, (.BG), (.SG), (.WG) Frames with glass insert for HL530.0 and HL530F.0

Data

Material	ABS/Glass
Grate	Cover frame 150 x 150 mm, dimensions of the tile should be cutted, or the insert glass cover: max. 124 x 124 x 7 mm

HL0530.G
HL0530.B
HL0530.C
HL0530.S
HL0530.W

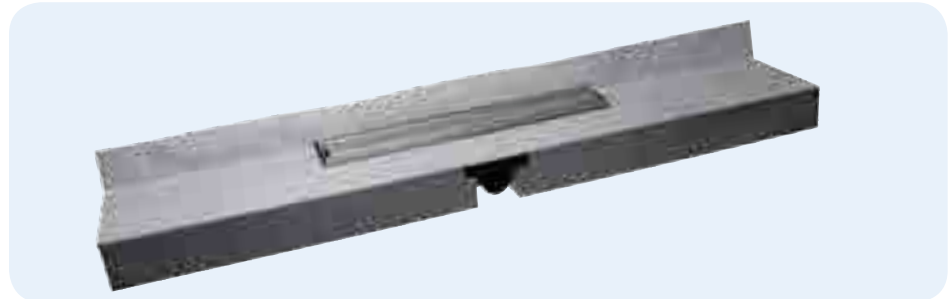
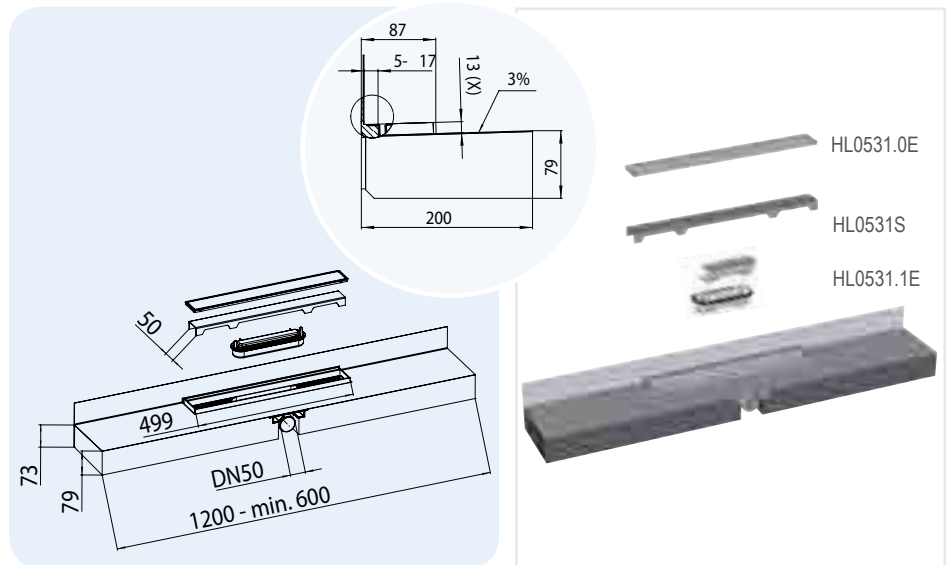
HL0530.GG
HL0530.BG
HL0530.SG
HL0530.WG


HL-No.	Material	Frame	Weight	EAN	Piece/package
0530.G	ABS	grey	200 g	+029198	1
0530.B	ABS	brown	200 g	+029211	1
0530.C	ABS verchromt	chrome-plated	200 g	+029235	1
0530.S	ABS	black	200 g	+029259	1
0530.W	ABS	white	200 g	+029273	1
0530.GG	ABS/Glass	grey	449 g	+029648	1
0530.BG	ABS/Glass	brown	449 g	+029624	1
0530.SG	ABS/Glass	black	449 g	+029662	1
0530.WG	ABS/Glass	white	449 g	+029686	1

HL531 Shower channel „Primus-Line“ with EPS installation block, stainless steel frame and cover

Data

Description	Shower channel, integrated in an EPS-installation block with stainless steel frame and cover. Surface fleece laminated. For installation close to the wall.
Capacity	0,6 l/s
Material	PP/ABS/EPS-40/stainless steel
Inlet	Stainless steel frame 492 x 62 x 13 mm, cover 480 x 50 mm
Outlet	DN50
Trap	PRIMUS-trap, no stenches without water!
Installation	The exact adjustment of the shower drain is made by simply cutting of the EPS element locally. It has a length from 600 mm to 1200 mm, or it can be extended with HL531V, width 200 mm, height 79 mm including 3% slope to the wall. It was designed for wall tiles up to 17 mm and floor tiles 13 mm (incl. adhesive). Also available as custom made with high stainless steel frame, for example, for natural stone.

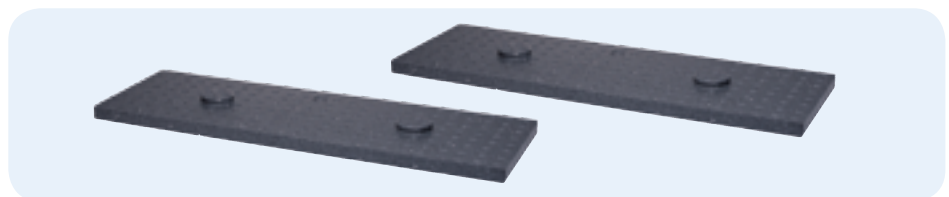


HL-No.	Material	Dimension	Frame height	Visible part	Weight	EAN	Piece/Package
531	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	13	Polished stainless steel	2590 g	+036158	1
531.0	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	13	without cover	2178 g	+036172	1
531/18	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	18	Polished stainless steel	2690 g	+037605	1
531.0/18	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	18	without cover	2280 g	+037636	1
531/23	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	23	Polished stainless steel	2790 g	+037612	1
531.0/23	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	23	without cover	2380 g	+037643	1
531/28	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	28	Polished stainless steel	2890 g	+037629	1
531.0/28	PP/ABS/EPS-40/stainless steel V2A	1200 x 200 x 79 mm	28	without cover	2480 g	+037650	1

HL531U Additional element for HL531, two pieces

Data

Material	EPS-40
Additional information	Additional element for HL531 with 120 x 18.5 x 2 cm for easy and simple increase of the shower drain „PRIMUS LINE“ at higher floorlevel. It should be installed on tiles adhesive.

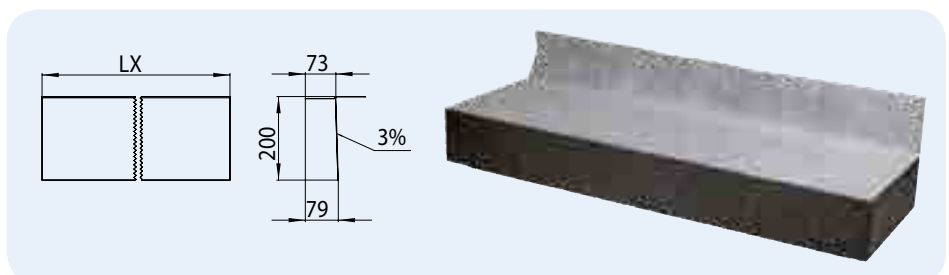


HL-No.	Material	Dimension	Weight	EAN	Piece/package
531U	EPS-40	2 pieces 600 x 200 x 20 mm	196 g	+037308	1

HL531V Elongation element for HL531

Data

Material	EPS-40
Additional information	To elongate shower channel HL531, e.g. for multiple shower facilities. May be cut to any length, with fleece-laminated surface.

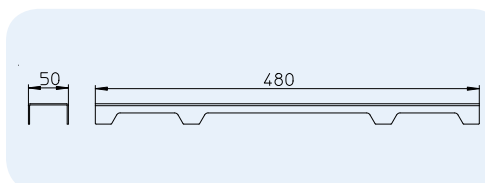


HL-No.	Material	Dimension	Weight	EAN	Piece/package
531V-60	EPS-40	600 x 200 x 79 mm	557 g	+036196	1

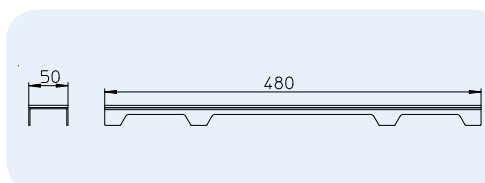
- HL0531S** Standard cover for HL531 + HL535
HL0531D Design cover for HL531 + HL535
HL0531I Individual cover for HL531 + HL535
HL0531WG (GG) (SG) Cover with glass insert for HL531 + HL535

Daten

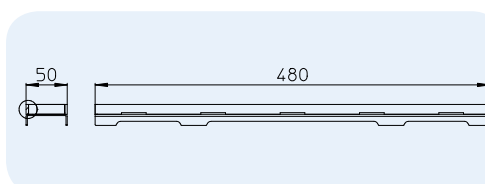
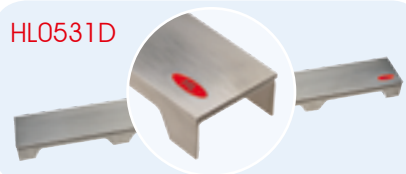
Material	Stainless steel V2A
Dimensions	HL0531I : Tile hollow: 474 x 44 mm, height 12 mm
	HL0531I/18 : Tile hollow: 474 x 44 mm, height 17 mm
	HL0531I/23 : Tile hollow: 474 x 44 mm, height 22 mm
	HL0531I/28 : Tile hollow: 474 x 44 mm, height 27 mm
Load classification	K3 - max. 300 kg



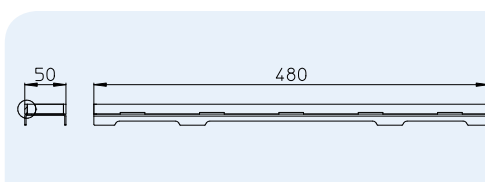
HL0531S



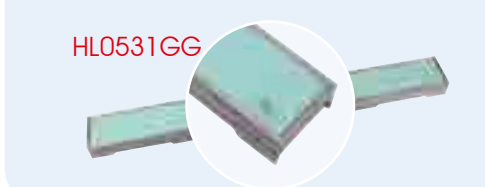
HL0531D



HL0531I



HL0531WG



HL0531GG



HL0531SG



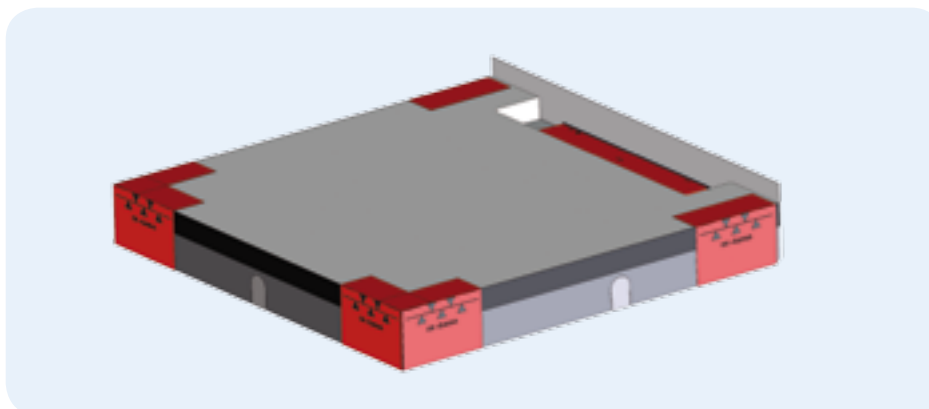
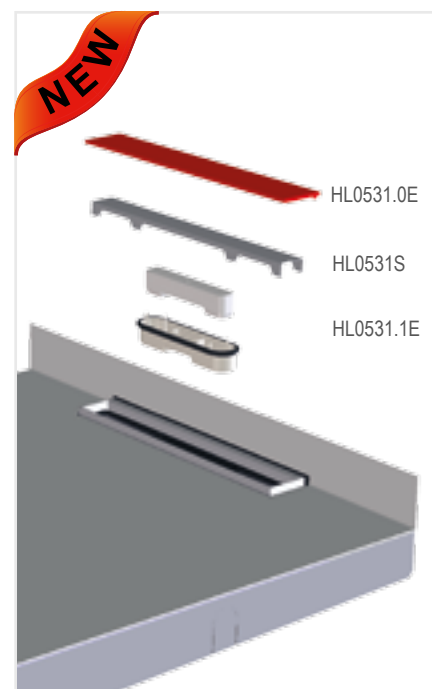
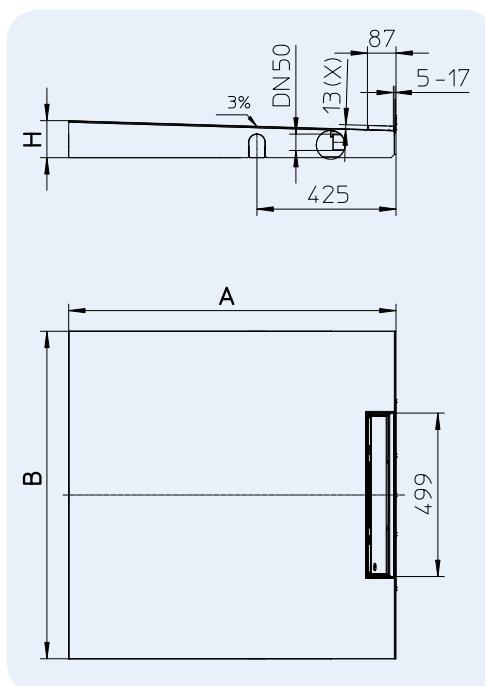
HL-Nr.	Material	Dimension	Cover/colour	Weight	EAN	Piece/Package
0531S	Stainless steel V2A	480 x 50 x 25,5 mm	Stainless steel brushed	413 g	+036257	1
0531D	Stainless steel V2A	480 x 50 x 25,5 mm	Stainless steel brushed	946 g	+036233	1
0531I	Stainless steel V2A	480 x 50 x 25,5 mm	Stainless steel brushed			1
0531WG	Stainless steel V2A/glass	480 x 50 x 25,5 mm	White glass			1
0531GG	Stainless steel V2A/glass	480 x 50 x 25,5 mm	Green glass			1
0531SG	Stainless steel V2A/glass	480 x 50 x 25,5 mm	Black glass			1
0531S/18	Stainless steel V2A	480 x 50 x 30,5 mm	Stainless steel brushed	490 g	+037575	1
0531D/18	Stainless steel V2A	480 x 50 x 30,5 mm	Stainless steel brushed	1030 g	+037544	1
0531I/18	Stainless steel V2A	480 x 50 x 30,5 mm	Stainless steel brushed			1
0531WG/18	Stainless steel V2A/glass	480 x 50 x 30,5 mm	White glass			1
0531GG/18	Stainless steel V2A/glass	480 x 50 x 30,5 mm	Green glass			1
0531SG/18	Stainless steel V2A/glass	480 x 50 x 30,5 mm	Black glass			1
0531S/23	Stainless steel V2A	480 x 50 x 35,5 mm	Stainless steel brushed	570 g	+037582	1
0531D/23	Stainless steel V2A	480 x 50 x 35,5 mm	Stainless steel brushed	1110 g	+037551	1
0531I/23	Stainless steel V2A	480 x 50 x 35,5 mm	Stainless steel brushed			1
0531WG/23	Stainless steel V2A/glass	480 x 50 x 35,5 mm	White glass			1
0531GG/23	Stainless steel V2A/glass	480 x 50 x 35,5 mm	Green glass			1
0531SG/23	Stainless steel V2A/glass	480 x 50 x 35,5 mm	Black glass			1
0531S/28	Stainless steel V2A	480 x 50 x 40,5 mm	Stainless steel brushed	650 g	+037599	1
0531D/28	Stainless steel V2A	480 x 50 x 40,5 mm	Stainless steel brushed	1190 g	+ 037568	1
0531I/28	Stainless steel V2A	480 x 50 x 40,5 mm	Stainless steel brushed			1
0531WG/28	Stainless steel V2A/glass	480 x 50 x 40,5 mm	White glass			1
0531GG/28	Stainless steel V2A/glass	480 x 50 x 40,5 mm	Green glass			1
0531SG/28	Stainless steel V2A/glass	480 x 50 x 40,5 mm	Black glass			1

HL535 Shower element "Primus board", EPS-board with integrated shower channel

Data

Description	Shower channel, integrated in a EPS-board with stainless steel frame and cover. Coated with a waterproof textile membrane. With prefabricated linear slope to the drain.
Capacity	0,6 l/s
Material	PP/ABS/EPS-40/Stainless steel V2A
Inlet	Stainless steel frame 492x62x13mm, cover 480x50mm, frames also available in height 18mm, 23mm and 28mm
Outlet	DN50 horizontal
Standard	EN 1253
Stench trap	With PRIMUS stench trap, no stench without water!
Installation	The slope to the drain is already prefabricated. It is no longer necessary, to construct expensive formworks, before filling in the screed.

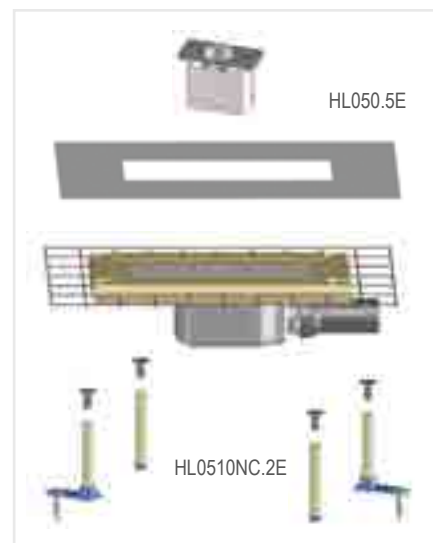
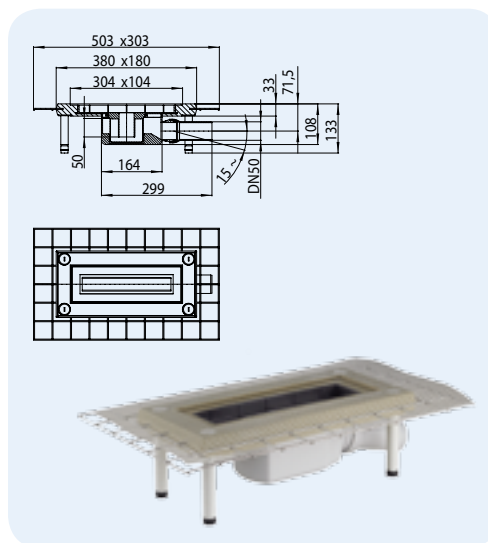
Please also see installation movie at www.hutterer-lechner.com



HL-No	B (mm)	A (mm)	H (mm)	Cover	Material	Dimension	EAN	Piece/package
535-100 x 100	1000	1000	113	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 100 x 100 cm	-	1
535.0-100 x 100	1000	1000	113	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 100 x 100 cm	-	1
535-100 x 90	1000	900	110	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 100 x 90 cm	-	1
535.0-100 x 90	1000	900	110	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 100 x 90 cm	-	1
535-100 x 80	1000	800	97	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 100 x 80 cm	-	1
535.0-100 x 80	1000	800	97	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 100 x 80 cm	-	1
535-90 x 100	900	1000	113	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 90 x 100 cm	-	1
535.0-90 x 100	900	1000	113	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 90 x 100 cm	-	1
535-90 x 90	900	900	110	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 90 x 90 cm	-	1
535.0-90 x 90	900	900	110	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 90 x 90 cm	-	1
535-90 x 80	900	800	97	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 90 x 80 cm	-	1
535.0-90 x 80	900	800	97	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 90 x 80 cm	-	1
535-80 x 100	800	1000	113	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 80 x 100 cm	-	1
535.0-80 x 100	800	1000	113	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 80 x 100 cm	-	1
535-80 x 90	800	900	110	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 80 x 90 cm	-	1
535.0-80 x 90	800	900	110	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 80 x 90 cm	-	1
535-80 x 80	800	800	97	Standard	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 80 x 80 cm	-	1
535.0-80 x 80	800	800	97	without	PP/ABS/EPS-40/Stainless steel V2A	DN50 / 80 x 80 cm	-	1

HL52K Floor drain body with polymere concrete collar**Data**

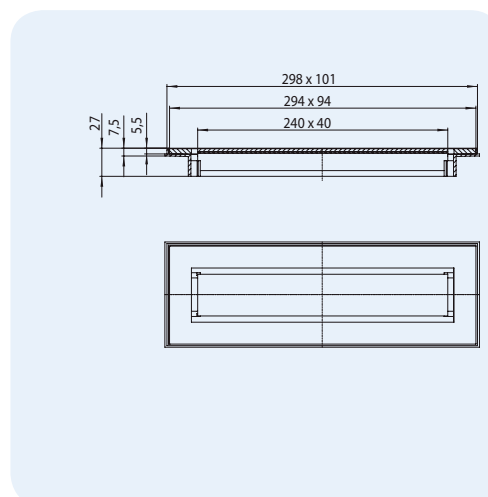
Capacity	0,8 l/s
Material	Polymere concrete/steel mesh/PP
Outlet dimension	DN50 with ball-joint
Height	min. 108 mm
Standard	EN 1253
Height of seal water	50 mm
Additional information	removable trap, polymere concrete collar with steel mesh reinforcement for a save connection to the under-tile waterproofing and glassfiber pad.
Including	sound-absorbing levelling legs for adjustment in height and lot cover



HL-No.	Material	Dimension	Weight	EAN	Piece/package
52K	Polymere concrete/ steel mesh/PP	503 x 303 mm	3970 g	+028290	1

HL052... Cover frames for HL52K**Data**

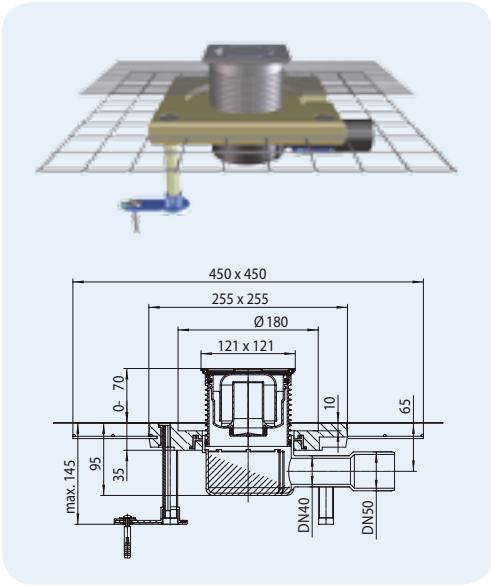
Material	ABS/Stainless steel
Height	Stepless height adjustable, frame ABS

**HL052.1-300 x 100****HL052.2-300 x 100****HL052.3-300 x 100****HL052.4-300 x 100**

HL-No.	Material	Dimension	Weight	EAN	Piece/package
052.1-300 x 100	Stainless steel brushed	294 x 94 mm	1480 g	+028306	1
052.2-300 x 100	Stainless steel polished	294 x 94 mm	1480 g	+028313	1
052.3-300 x 100	Stainless steel matt black	294 x 94 mm	1480 g	+028320	1
052.4-300 x 100	Antique bronze	294 x 94 mm	1480 g	+028337	1

HL510NC Floor drain with polymere concrete collar

Data	
Capacity	0,55 l/s
Material	Polymere concrete/steel mesh/PP
Outlet dimension	DN40/50 horizontal
Height	95 mm
Standard	EN 1253
Height of seal water	50 mm
Additional information	removable trap, polymere concrete collar with steel mesh reinforcement 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	Polymere concrete/ steel mesh/PP	DN40/50	4350 g	+021338	1

