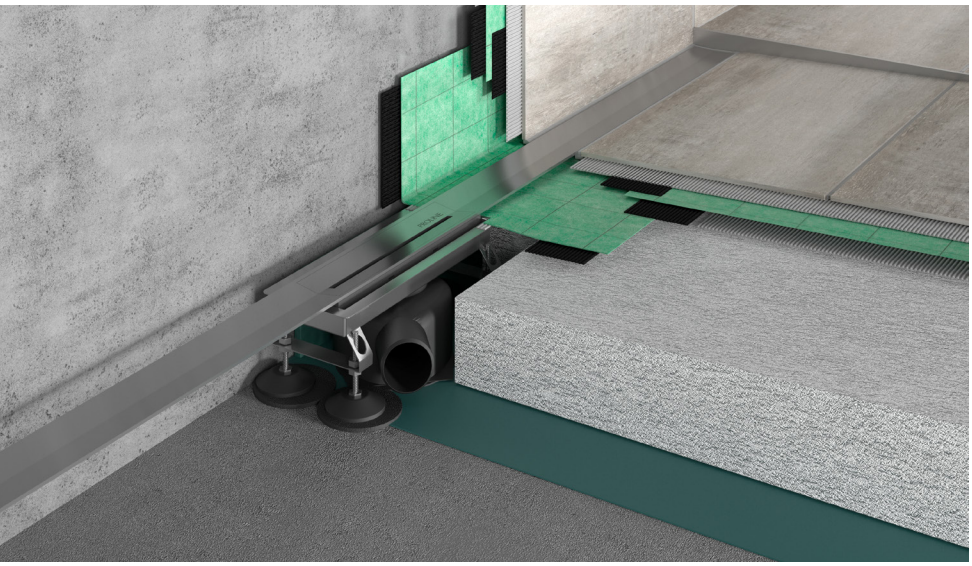
PROLINE

PROCHANNELd-line

Drainage line for primary and secondary drainage and which has an appealing design and practical use in wet rooms.



Areas of application:

PROCHANNELd-line is a drain profile for barrier-free use in private or commercial wet rooms, such as:

- Domestic showers
- Barrier-free showers or showers with disabled access
- For floor drainage in rooms with high aesthetic finish
- Showers in saunas, swimming pools, sports centres
- Commercial sanitary areas
- Additional floor drainage in toilet systems
- Other wet rooms where floor drainage is installed to channel out water
- To separate water channelling areas from otherwise dry areas

PROCHANNELd-line satisfies the high demands for aesthetics while also providing a practical, simple slope for directing water. . The linear drainage can be fitted by the wall, in the centre or at the entrance to an alcove or space.

Product advantages:

BIf using large format tiles or natural stone, a spacious look can be achieved through an uninterrupted surface area free of valley cuts. The **PROCHANNELd-line** drain profile allows drainage across the entire width of the shower area and is a design-oriented solution for modern bathrooms. The drain profile can be shortened as needed and therefore allows for flush installation in the existing shower area.

PPROCHANNELd-line captures surface water over its entire length and channels the water away.
Seep water in the screeding mortar can get into the drainage line at the bonding seal.
The installation is easy and quick.

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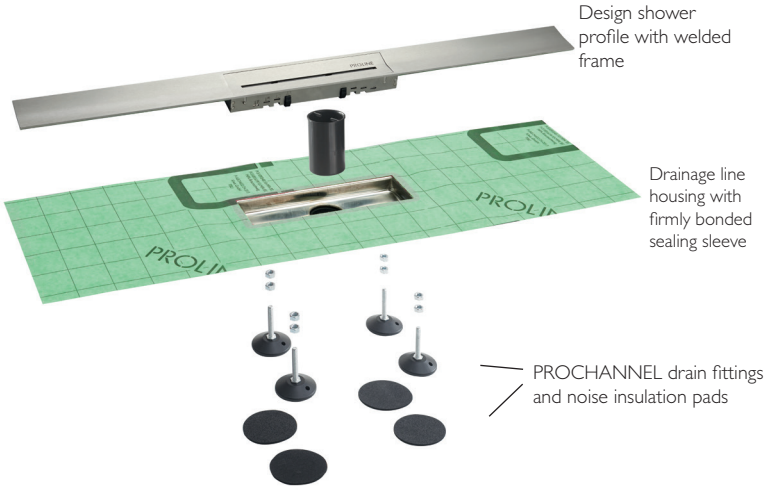
The type of installation makes it necessary to consider the needs of heat insulation and walking/impact noise.
Different drain pans can be used to implement low installation heights in the washing area and to accommodate even larger amounts of water (e.g. high volume shower heads).
Thanks to the floor level shower installation, there is more space available and freedom to move.

The height-adjustable frame enables the installation of coverings from 10 to 17 mm thick.

- Water channelling with the highest level of creative and aesthetic appeal
- Numerous creative opportunities
- Lengths of 90 and 120 cm, can be shortened as needed
- High drainage performance (Drain fitting not included in delivery)
- Easy to install
- Low fitting height
- Decoupled from noise and cold
- Provides more space and freedom of movement
- Hygenic, lightweight and easy to clean - cover easy to remove via push function
- Drainage line can be used for floor covering heights from 10-17 mm - drainage line housing with firmly bonded sealing sleeve
- Protection from seep water inlet line
- Installation without any barriers

Product and accessories:



Materials:

Type of material Drainage line housing	Stainless steel, Material code 1.4301,V2A
Design shower profile with welded frame	Stainless steel, brushed Material code 1.4301,V2A
Type of material for sealing sleeve:	Fleece-backed PE
Material type for drainage fittings:	Plastic

Dimensions and sizes:

Available drainage line lengths:

Available in lengths of 900 and 1200 mm with firmly bonded sealing sleeve.

Nominal length	Total length (L)	Visible dimension after installation
900 mm	900 mm	900 x 61,5 mm
1200 mm	1200 mm	1200 x 61,5 mm

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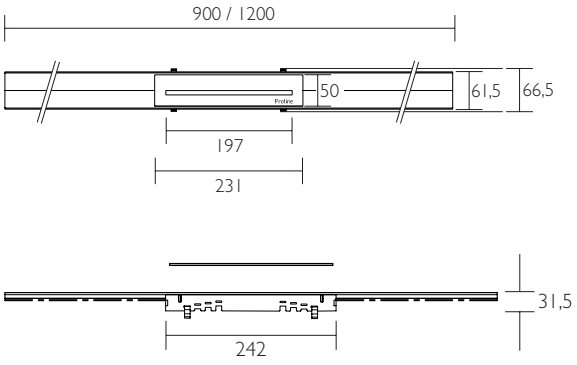
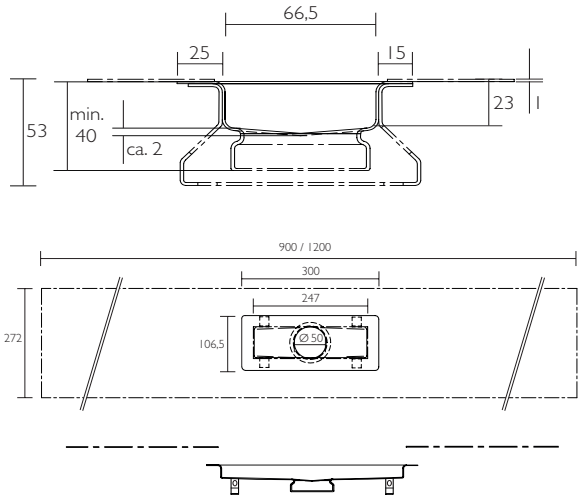
Design shower profile:

Type of material	Stainless steel, Material code 1.4301, V2A brushed, with welded frame for height adjustment
Available frame lengths	900 mm / 1200 mm
Profile width	61,5 mm
Profile height (incl. welded frame)	31 mm
Adjusts to covering heights of (mm)	10 / 13 / 15 / 17
Bottom side of profile with glued-on sealing sleeve for better bonding with the grout. Profile cover with push function for removal without tools. Delivery includes the installation feet.	



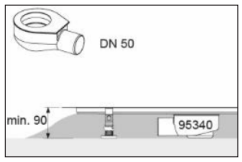
Drainage line housing:

Type of material	Stainless steel, Material code 1.4301, V2A
Length x width incl. flange	300 x 106,5 mm
Height of the drainage line housing (without mounting bracket with firmly bonded sealing sleeve made of PE film on both sides fleece-laminated flange widths lengthwise: 15 / 25 mm for installation close to the wall)	40 mm

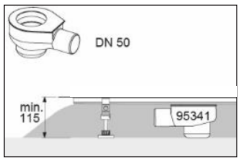


Drain fitting:	Drain fitting 1	Drain fitting 2	Drain fitting 3	"MAX" drain fitting	Superflat drain fitting
Drainage rate (acc. to DIN EN 1253)	0.70 ltr/sec	0.80 ltr/sec	1.30 ltr/sec	1.20 ltr/sec	0.50 ltr/sec
Outlet	Horizontal, DN 50	Horizontal, DN 50	Vertical, DN 50	Horizontal, DN 70	Horizontal, DN 40
Minimum installation height	90 mm	115 mm	possible from 25 / 53 mm**	143 mm	63 mm
Art. No.	95340	95341	95342	95344	95343
Sealing water height	25 mm	50 mm	50 mm	60 mm	30 mm
Acc. to standard	No	Yes	Yes	Yes	No
Specific use	Renovation	Standard	For free choice of ceiling opening/pipe feed	Increased volume of water	Renovation
Rotatable by 360 degrees	Yes	Yes	Yes	Yes	No

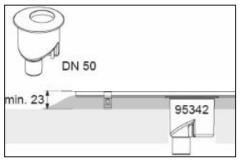
(*) smallest installation height = messured up to fixed flange
(**) 25/53 mm without / with foot bracket



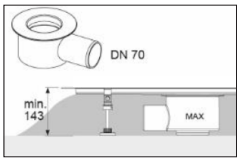
Drain fitting 1



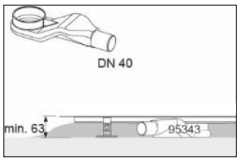
Drain fitting 2



Drain fitting 3



"MAX" drain fitting



Superflat drain fitting

Supply rating, hand shower head(*)
Approx. 0.10-0.30 ltr/sec
Supply rating, ceiling shower head(*)
Approx. 0.33-1.33 ltr/sec
Supply rating, high volume shower head(*)
Approx. 0.33-1.50 ltr/sec

(*) The supply rating depends on the type and number of shower heads, the available water pressure, size of supply lines as well as upstream fittings (e.g. thermostat or the like). The total supply rating should be requested from the construction engineer, planner or fitter if several shower heads, ceiling shower heads (also called RainSky) or high volume shower heads are to be installed in the same shower area.

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Sealing sleeve dimensions:

Longitudinal protrusion	Approx. 100 mm passed flange
Total width	Approx. 272 mm
Total length	= Length of design shower profile (1200 / 900 mm)

Storage and transportation:

Store and transport dry in an enclosed container protected against sunlight, UV rays, dirt, impact, abrasion and other foreign matter. Storage and transportation over longer distances should be in an laying position. To avoid any risk of deformation, do not place any load on the container.

Environmental protection and disposal:

Dispose of the packaging material as stipulated by law and regional ordinances.

Supplementary products:

PROCHANNEL		
sound insulation mat	Underlay mat for reducing installation noise and impact sounds according to DIN 4109/A1 and VDI 4100	
Material	rubber granulate bonded with PU	
Size	1250 x 1250 mm	
Thickness	approx. 6 mm	
Delivery form	per piece	
		Art. No. 95351

PROFOLIO		
sealing and decoupling foil	Polyethylene film laminated with thermal PP fleece layer on both sides	
Colour	Green	
Width	approx. 1.0 m / approx. 0.4 mm thick	
Rolls with	5 m	Art. No. 93501
Rolls with	30 m	Art. No. 93502
For more information, please refer to the system data sheet.		

PROFOLIO		
sealing tape	Highly flexible, transverse-elastic tri-laminate fleece-backed on both sides	
Colour	Green	
Thickness	approx. 0.7 mm	
Total width	approx. 120 mm (+/- 2 mm)	
Rolls with	50 m (with scaling)	Art. No. 93131
Rolls with	10 m	Art. No. 93141

PROFOLIO		
Sealing tape corners	Highly flexible, transverse-elastic tri-laminate fleece-backed on both sides	
Colour	Green	
Thickness	approx. 0.7 mm	
Total width	approx. 60 + 60 mm	
Leg length, inner corner	approx. 120 mm	
Leg length, outer corner	approx. 110 mm	
Each carton has	25 pieces	
Internal corner		Art. No. 93518
External corner		Art. No. 93519

PROFOLIO		
sealing sleeves	Highly flexible, transverse-elastic tri-laminate, fleece-backed on both sides	
Colour	Green	
Thickness	approx. 0.7 mm	
Wall collar with 15 mm hole punch		
Size	120 x 120 mm	
Carton has	25 pieces	Art. No. 93512
Floor collar		
Size	425 x 425 mm	
Carton has	10 pieces	Art. No. 93510

PROFOLIO		
pipe collars with expansion zone	with polypropylene nonwoven on both sides, with a polyurethane coating	
External dimensions	140 x 140 mm	160 x 160 mm
Expansion zone diameter	40 mm	60 mm
Hole diameter	15 mm	21 mm
For pipe diameter	22 - 37 mm	31 - 50 mm
Art. Nr.:	93533	93534

PROFOLIO		
butt-joining tape	Polyethylene film laminated with thermal PP fleece layer on both sides	
Colour	Green	
Width	approx. 15 cm / approx. 0.4 mm thick	
Rolls	25 m	
		Art. No. 93513

Ottocoll M500		
hybrid adhesive and sealants	1-component hybrid polymer-based adhesive and sealant (STPU)	
Colour	White	
Delivery form	310 ml cartridge	
		Art. No. 93514

The technical bulletins of the manufacturer, Hermann Otto GmbH, must be observed.

Installation options:

<u>Installing PROCHANNELs-line – by entrance:</u>

If the shower area is an alcove separated from the remaining area, an expansion joint should be made along the stainless steel flange for usual technical reasons.

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Connecting with HT socket pipes:
Drain pans 1 to 3 and the "MAX" drain pan can be rotated 360° and connected from all sides. The outlets (DN 40/50/70) of the PROCHANNEL drain pans must be connected using suitable HT socket pipes, matching bends and lubricant to the drain/soil pipe. To allow a sufficient slope in the connected path, the drain on the building side should be located directly between the floor and wall or recessed in the floor.

Reducing the installation height:
The channels can be fitted with and without installation feet. The drainage line housing can be installed with or without installation feet. The installation feet with noise insulation pads are included in the scope of delivery. The welded on foot brackets can be cut off if required using a suitable metal saw.
The requisite installation height is defined by the height of the drain pan and is at least 63 mm from the contact surface to the upper edge of the flange. If the supporting substrate in the area below the drain pan and along the pipe connections can be chiselled out or removed, the installation height is reduced to 53 mm (with foot bracket) or 25 mm (with detached foot bracket).

Required slope:
Depending on the covering material used, with coarse even surface or fine even surface, the slope should be set so that water drains away quickly. Usually, slopes are set between 1 and 2 %. Taking into account the covering surface and the local conditions, the slope may deviate from this information.

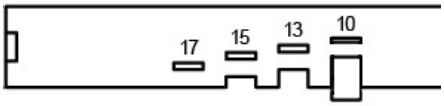
Surge inhibitor:
Surrounding the shower area with **PRONIVO S** transition and compensator profiles can double as a surge inhibitor to prevent water from overflowing to the outside.

Potential compensation:
The drain pan is made from non-conducting plastic. Potential compensation, where necessary, should be carried out in accordance with DIN VDE 0100 T410.

Installation instructions:

Note: Detailed assembly instructions can be found on our homepage or are included in the scope of delivery.

Installation height of PROCHANNELd-line design shower profile with frame:



The installation height of the frame depends on the covering thickness. The frame comes with four setting options, which are indicated by the respective grooves. Latch the clip into the selected groove from the inside depending on the covering thickness. Place the frame into the drainage line housing. Create the covering with a gap of 3 mm to the frame. Pay attention to the evenness with respect to the upper edge of the frame. Elastically close the gap between the tile flooring and the frame.

Cleaning

Use clean water, pH-neutral cleaning agent, a sponge or cleaning cloth. Ensure that there is no sanding or grinding effect. If necessary, clean grilles using suitable cleaning pastes. If necessary, use an alcohol-based cleaner or a cleaner especially developed for stainless steel or polishing paste. Perform routine cleaning regularly in accordance with local conditions. In places where substances containing chloride are used, regularly clean standing water also outside of the drainage lines and grilles to prevent concentrations from building up.
After cleaning, always rinse the surfaces with enough clean water to remove all cleaning agent residue.
Attention: Substances containing chlorine cause stainless steel to rust.

Cleaning utensils
Cleaning utensils such as brushes, cleaning pads, microfiber cloths etc. must not be abrasive. Use commercial cleaning sponges (not containing iron) for stubborn dirt. Iron-containing scrubbing sponges, steel wool and steel brushes must never be used, since they can implant foreign iron particles into the stainless steel, which then will rust. For the brush-finished surface, always move the cleaning utensil in the direction of the grind.

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Cleaning the PROCHANNEL drain fitting

General information

Long hair and coarse dirt can get stuck in the stench trap. We recommend removing the grille/recess and the black standpipe underneath at regular intervals to perform an inspection at least once a month and, if necessary, remove the dirt. The intervals will depend on the number of showers taken, the amount of hair and the general degree of contamination. Determine the necessary intervals based on your own inspections.

Procedure:

1. Remove cover
2. Remove black standpipe from the recess
3. Remove hair and coarse dirt from the open drain pan
4. Clean drain with a sponge or brush
5. Thoroughly rinse the drain
6. Reinsert the standpipe
7. Fill the stench trap with water
8. Put the cover back on

Chemical and physical resilience:

Before using cleaning agents or collected water, check whether they have a corrosive or damaging effect. Avoid contact with substances containing chloride ions, strong acids or alkalis. Stainless steel reacts with oxygen in the air and forms a protective layer that becomes damaged upon abrasive contact with normal steel or iron and flying sparks from welding and cutting work, thereby resulting in corrosion. Once the adhesive, grout and filling compound has hardened completely, the drainage line can be subjected to mechanical loads as per its intended use.

Important information:

- The PROCHANNELd-line was developed and designed for indoor wet rooms. It should not be used in outside areas.
- The stainless steel flanges of the drainage line are a supporting element and important for the seal. By no means should they be cut off, even due to spatial restrictions. Design the slope dimensions so that heights formed from overlapping sealing tape, sealing sleeves, sealing membranes and grout do not prevent water from draining.
- The drain pan must be secured underneath to prevent it from slipping. This can be achieved up to the height of the insulating material by foaming under and/or around using a suitable expanding foam.
- On slopes > 2 % there is a risk of falling from slipping over. The greater the slope, the lower the walking and standing comfort.
- If a high volume shower head or "RainSky" is used, it can be assumed that there will be an increased amount of water flow. In case of doubt, enquire about the intended installations and their supply rating from the client or planner so that the drainage line and performance can be adapted.
- Sealing water height describes the level of water that remains in the drain pan and acts as a barrier against unpleasant odours. As a rule, 50 mm are prescribed for this purpose. In the event of renovation or with low installation heights, it may be necessary to use a lower drain pan with lower sealing water height.
- If the level is too low, there is a chance of the sealing water being drawn out through the hydraulic effect of the draining water or, over time, the sealing water could evaporate. Unpleasant odours from the sewage system could find their way into the room through the empty drain pan. Adding 1/2 litre of water can remedy this problem.

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Standards and regulations:

Aside from all the relevant and currently applicable bulletins, standards and directives, the information listed as follows is recommended:

- DIN 18352 Tile and slab laying work
- DIN 18332 Natural stone work
- DIN 18333 Cast stone work
- DIN 18353 Screed work
- DIN 18195 Building seals
- DIN 18534 Waterproofing of interiors
- DIN 18534-5 Waterproofing of interiors with waterproofing membranes bonded to tiles and slabs
- DIN 18202 Tolerances in building construction
- DIN 18560 Screeds in building construction
- DIN EN 13813 Screed mortar and screed masses
- Bulletins from German Association of Screed and Flooring
- Bulletins from Association of Tiles and Natural Stone in the Central Association of the German Construction Industry, in particular:
  – Joint sealing
  – Outside flooring
  – Expansion joints
  – Substrates in damp rooms
- Interface co-ordination of heated underfloor structures
- ZDB tile and slab information "Information on decoupling"
- German Natural Stone Association – Building information about natural stone
- DIN 18040 Part 2: Construction of accessible buildings - Design principles - Dwellings (2011)
- DIN 4109- 1 (2018) Requirements, scope and verification of airborne sound insulation

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