

Drainage technology - floor drains

Drainage technology - drainage channels

Drainage technology - parking areas

Drainage technology - landscaping

Manhole covers & pipe leadthroughs

Crash quards & edge protection

Doors & windows

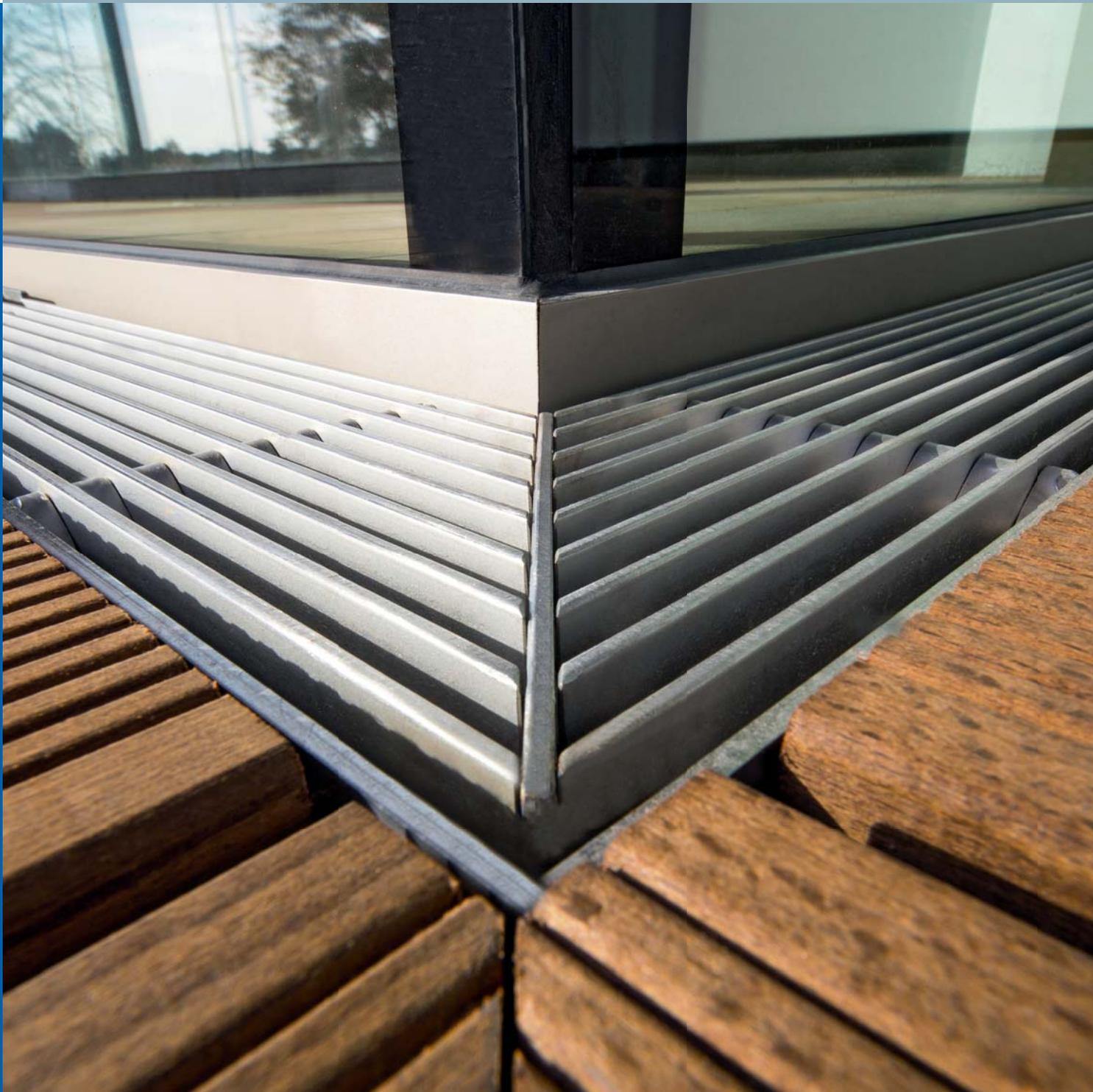
Control cabinets

Special commissions



WIEDEMANN-TECHNIK

Quality in stainless steel





Precision & Expertise for Stainless Steel

Wiedemann-Technik has manufactured high-quality stainless steel products for more than 70 years. Starting out with floor drains, drainage channels and manhole covers for industrial applications, our product range has been expanded over the years to include doors and windows as well as control cabinets and drainage systems for landscaping and today features a comprehensive selection of stainless steel solutions.

The high quality of the material and the continuous optimisation of production through DIN EN ISO 9001:2008 certification all result in the manufacture of durable quality products “made in Germany”.

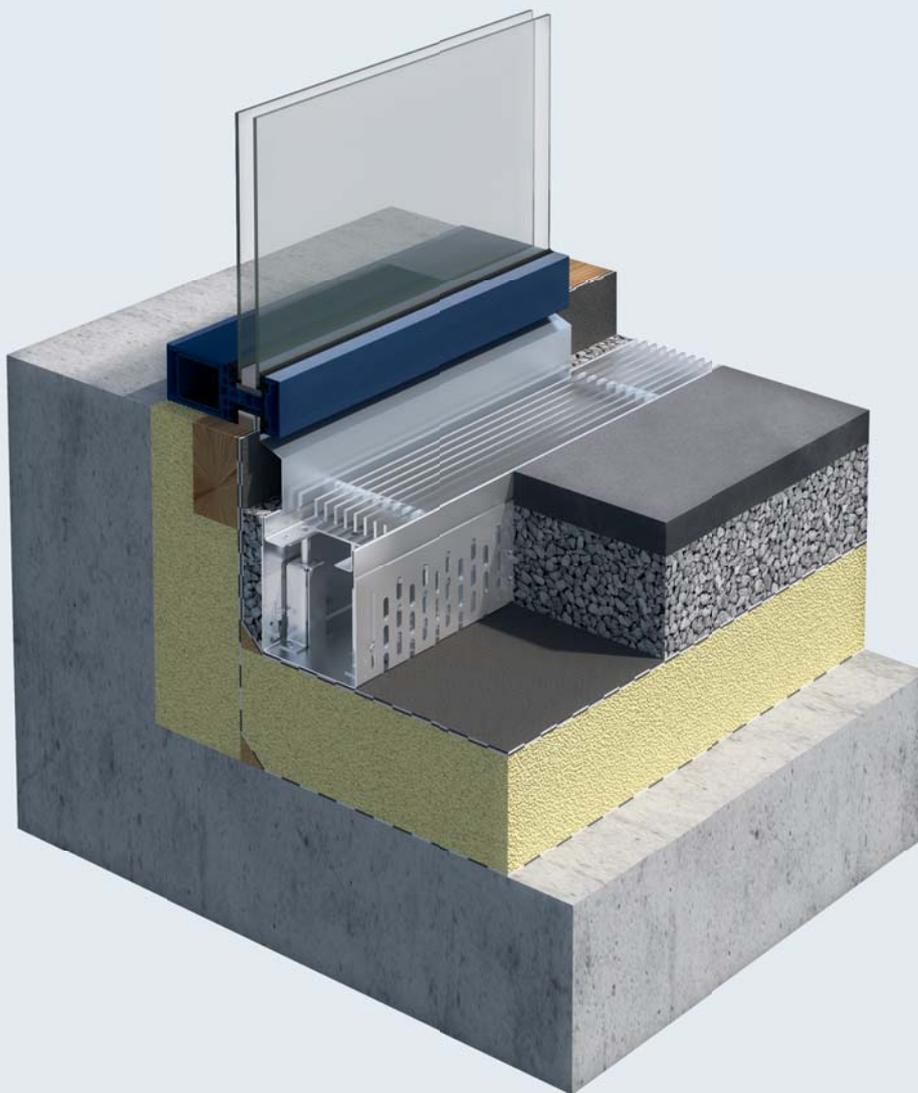
Our specialised consultants work with you to plan and create the perfect product, customised to your requests and requirements - professionally, precisely and with a focus on the result.

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Drainage Technology - Landscaping

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Façade Trough Channels (FKR)



The FKR drain system features an attractive design and high drainage capacity – robust, durable and especially recommended for products with high discharge capacity.

Customised and cost-conscious – that's not a contradiction of terms. Quick and cost-efficient installation is made possible by the comprehensive modular system.

High-quality components: Stainless steel provides very high corrosion protection in all components for lasting and beautiful solutions.

A wide range of applications such as patios, balconies, flat roofs, glass and plaster façades, rooftop patios and accessible living make the FKR system an all-around solution.

Variable drainage systems can be installed in a flexible way even across long distances and for twisting or round areas.

Full accessibility is possible in all applications, even for difficult differences in height and radial transitions.

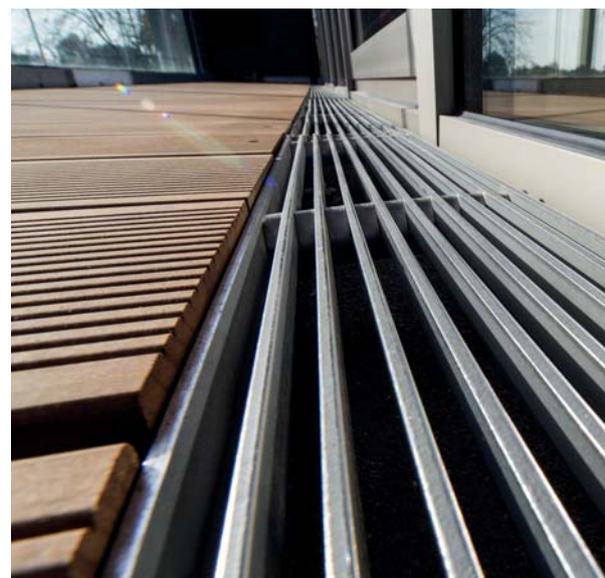
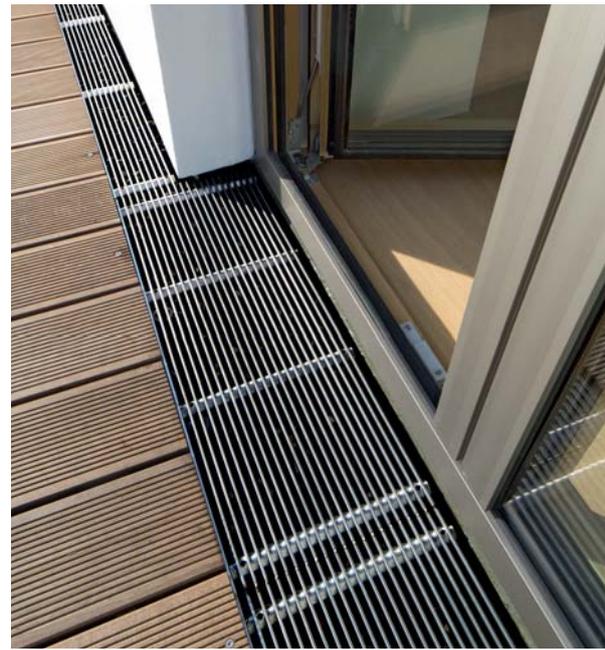
Optimal Façade Drainage

Design and system in a single solution

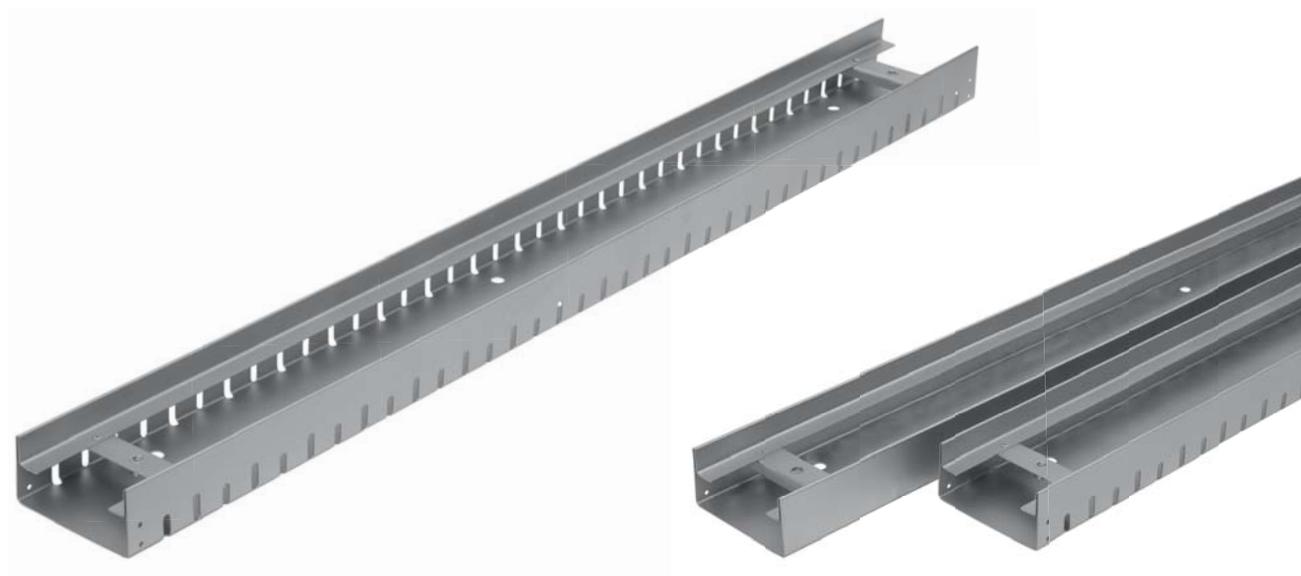
Draining patios, open spaces and façades is just as important as watering gardens. Wiedemann-Technik offers complete drainage solutions for façades, flat roofs, patios and entrance areas that require full accessibility. In addition, requirements for sophisticated technical solutions are ever increasing in our modern world. Combining contemporary design and an elegant look is becoming more and more important. Façade drains made by Wiedemann-Technik offer you both.

You can choose from a wide range of models to drain water quickly and exactly where you want it to go, to prevent waterlogging and protect façades and connections between buildings and flooring. Closed designs or with drainage slots, narrow or wide - together we will find your customised solution. Besides drains with fixed section heights, Wiedemann-Technik also offers height-adjustable drain systems to compensate for differences in height or sloping foundations. Our comprehensive modular system with drain lengths of up to three metres ensures quick, easy and flexible and thus cost-efficient installation at the construction site. Functioning technical solutions of course involve selecting the perfect material. That is why Wiedemann makes all façade drains from stainless steel. Stainless steel products in V2A (1.4301) or V4A (1.4571) offer high corrosion resistance, providing a durable solution with a timelessly elegant look.

For special cases - such as entrances with revolving doors - Wiedemann-Technik offers radial or polygonal drains that both protect and visually enhance the space. Drainage system dimensions can be adjusted to your specific requirements in a customised design.



Fixed section height

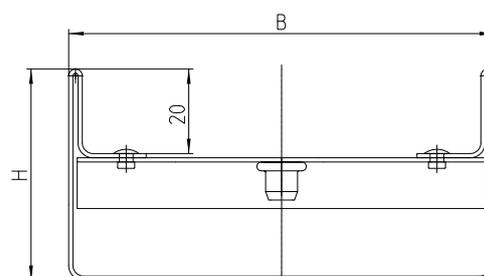


Channel model FKRF

Dimensions

Width B [mm]	Height H [mm]	Length [mm]
100/130/160/200	50	500 / 1.000 / 1.500 / 2.000 / 3.000
100/130/160/200	75	500 / 1.000 / 1.500 / 2.000 / 3.000
100/130/160/200	100	500 / 1.000 / 1.500 / 2.000 / 3.000
100/130/160/200	150	500 / 1.000 / 1.500 / 2.000 / 3.000

Customised dimensions on request

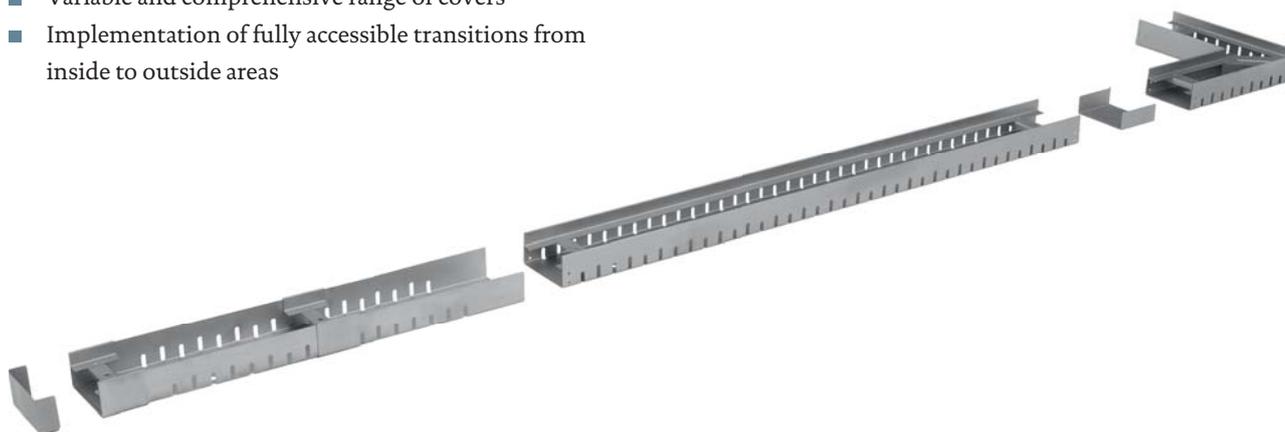


Product benefits

- Flexible use for various drainage applications due to closed design or drainage slots on one or both sides in the drain body
- Manufactured entirely from stainless steel 1.4301 (V2A) or 1.4571 (V4A) for good corrosion protection
- High discharge capacity in the event of driving rain
- Cost-efficient installation due to modular system
- Variable and comprehensive range of covers
- Implementation of fully accessible transitions from inside to outside areas

Applications

- Patios
- Balconies
- Glass and plaster façades
- Flat roofs
- Rooftop patios
- Accessible living



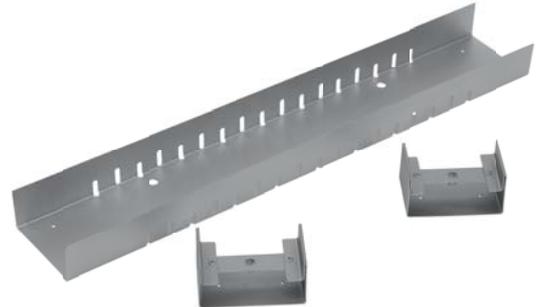
Corner pieces 300 x 300 mm

Our inside and outside corners with standard 90° angles are available with drainage slots on either one or both sides or as a closed design. Other angles can be custom-made at the customer's request.



Centre/end levelling element

This serves to compensate differences in length and permits a continuously variable length adjustment of 0 - 55 cm in the centre and 6.5 - 55 cm on the end. This eliminates the need to cut the drain pieces to size at the construction site. The element can be used in the centre as well as at the end.



End wall

The plug-in drain cover prevents gravel and soil from getting into the drain, allowing a clean connection to the adjoining surface.



End wall with horizontal discharge nozzle

The plug-in discharge nozzle is used as a connection to existing drainage pipes. The nominal size of the nozzle depends on the drain width and drain height.



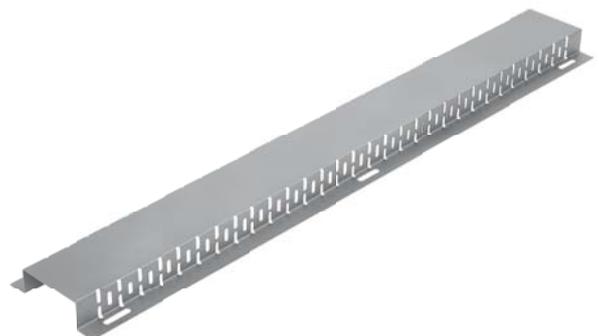
Drainage channel connector

This allows the quick, easy and stable installation of the drains without height offset. The drain elements are simply inserted into the connector until they lock into place. This results in a dimensionally stable connection.

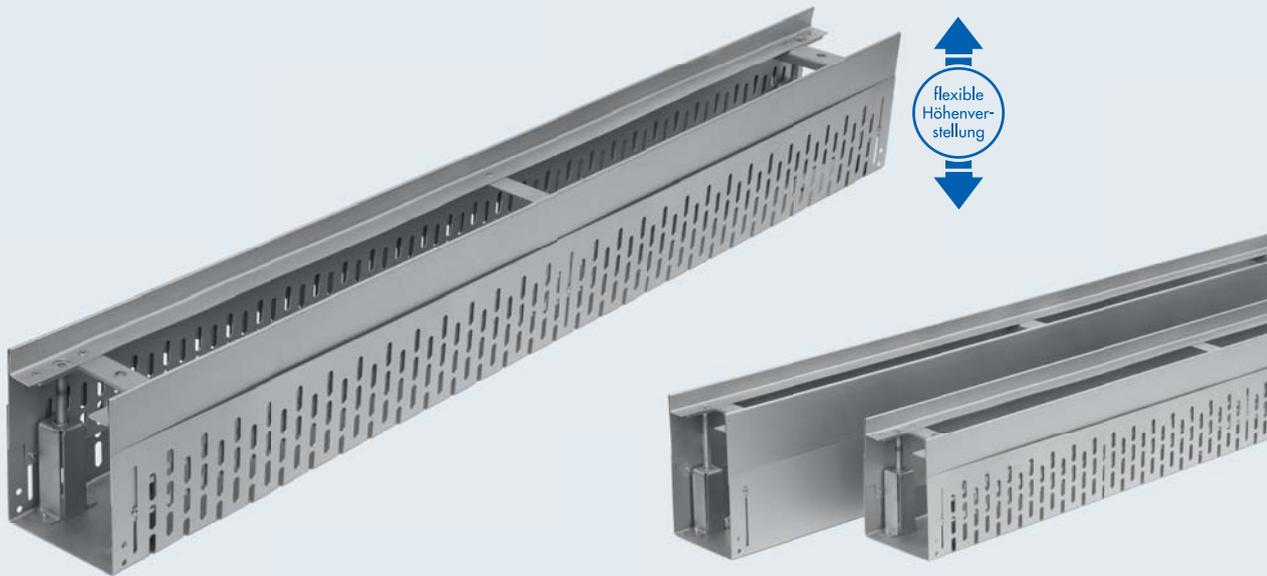


Branch canal

The branch canal with drainage slots on each side ensures (Installation example see page 20).



Height-adjustable section height

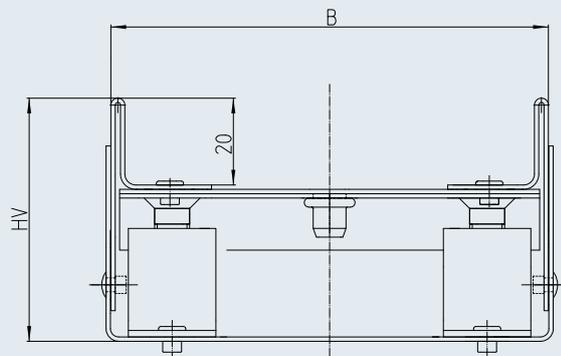


Channel model FKX-HV

Dimensions

Width B [mm]	Height H [mm]	Length [mm]
100/130/160/200	55 – 70	500 / 1.000 / 1.500 / 2.000 / 3.000
100/130/160/200	70 – 100	500 / 1.000 / 1.500 / 2.000 / 3.000
100/130/160/200	100 – 160	500 / 1.000 / 1.500 / 2.000 / 3.000

Customised dimensions on request



Product benefits

- Flexible use for various drainage applications due to closed design or drainage slots on one or both sides in the drain body
- Good corrosion protection provided by complete stainless steel 1.4301 (V2A) or 1.4571 (V4A) manufacture.
- High discharge capacity in the event of driving rain
- Cost-efficient installation due to modular system
- Variable and comprehensive range of covers
- Implementation of fully accessible transitions from inside to outside areas
- Continuously adjustable height even after installation

Applications

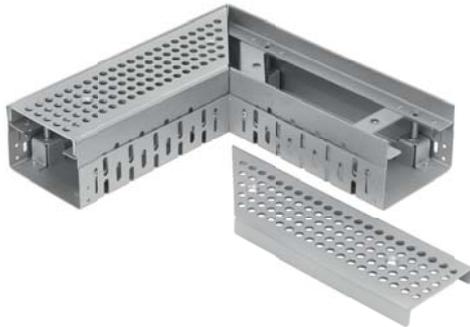
- Patios
- Balconies
- Glass and plaster façades
- Flat roofs
- Roof patios
- Accessible living



Accessories

Corner pieces 300 x 300 mm

Our inside and outside corners with standard 90° angles are available with drainage slots on either one or both sides or as a closed design. Other angles can be custom-made at the customer's request.



Centre levelling element

This is used to compensate for differences in length and allows a continuously variable length adjustment of 0-50 cm between two drain elements. This eliminates the need to cut the drain pieces to size at the construction site.



End levelling element

This is used to compensate differences in length and allows continuously variable length adjustments of 7.5 - 55 cm at the end of a drain run. This eliminates the need to cut the drain pieces to size at the construction site.



End wall

The plug-in drain cover prevents gravel and soil from getting into the drain, allowing a clean connection to the adjoining surface. The end wall adjusts to the relevant drain height.



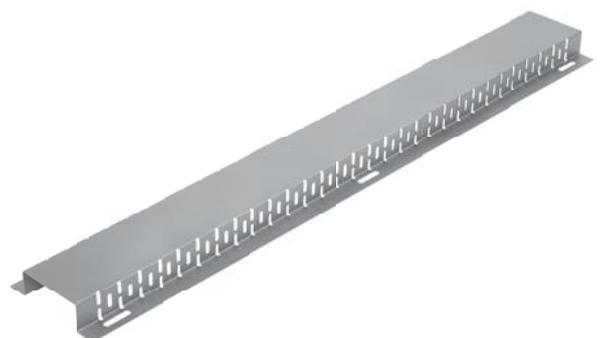
Drainage channel connector

This allows the quick, easy and stable installation of the drains without height offset. The drain elements are simply inserted into the connector until they lock into place. This results in a dimensionally stable connection.



Branch canal

The branch canal with drainage slots on each side ensures (Installation example see page 20).

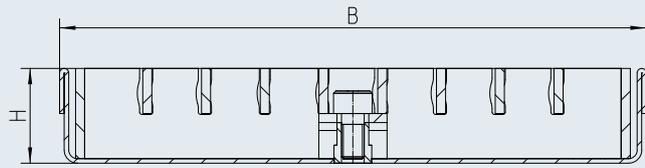


Patio trough channel



During the summer, a patio extends your living space to the outdoors, but it is entirely exposed to the elements. The patio trough channel TKR developed by Wiedemann for this specific application allows you to drain your wood or wood-plastic composite (WPC) patio quickly and easily.

The drain is made entirely from stainless steel, has a particularly low height and can be adjusted to the width of the patio decking boards to be installed, resulting in a harmonious decking pattern. The TKR reliably drains the water via the drainage slots inserted on either one or both sides in the drainage layer of the patio's supporting substructure. It is also suitable for implementing accessible transitions from inside to outside areas. It can support pedestrians and wheelchairs.



Channel model TKR

Dimensions

Width B [mm]	Height H [mm]	Length [mm]
100/130/160/200	21/26	500 / 1.000 / 1.500 / 2.000 / 3.000

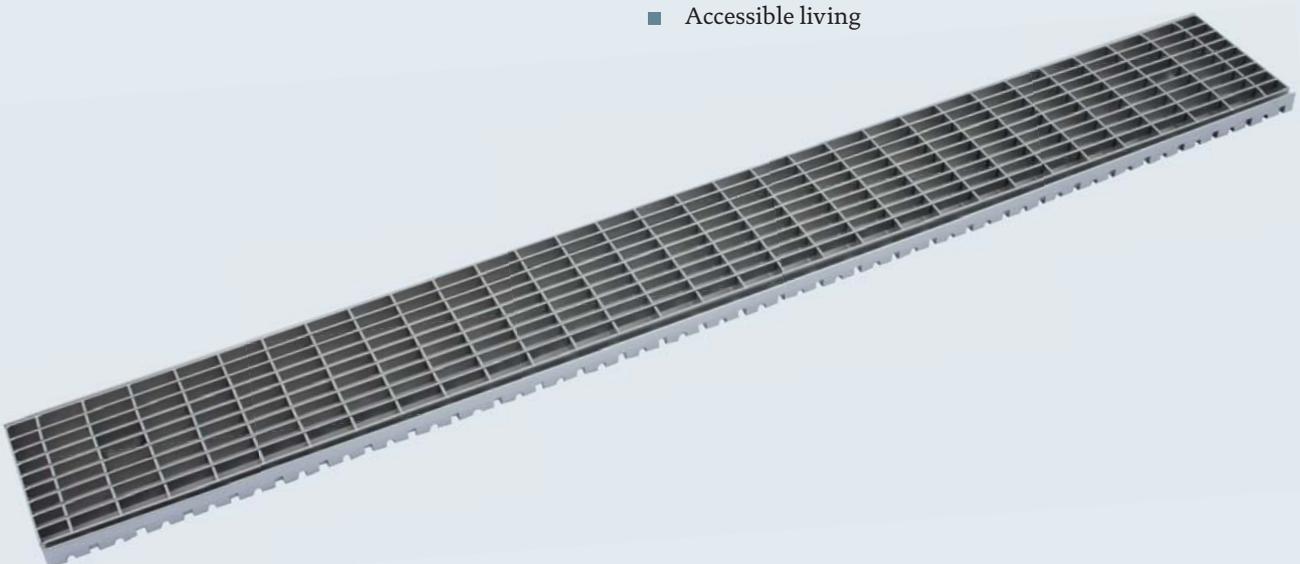
Customised dimensions on request

Product benefits

- Flexible use due to slots on one or both sides of the drain body
- Manufactured entirely from stainless steel 1.4301 (V2A) or 1.4571 (V4A) for good corrosion protection
- Cost-efficient installation due to modular system
- Variable and comprehensive range of covers, bolted connection optional
- Implementation of fully accessible transitions from inside to outside areas

Applications

- Patios
- Balconies
- Glass and plaster façades
- Flat roofs
- Roof patios
- Accessible living



Special solutions

Wiedemann-Technik offers special solutions for particular architectural or design requirements so that customer demands can be met easily. These solutions are created through the close cooperation of planners, architects and clients.

Customised solutions include radial trough channels as well as trough channels for subterranean glass façades that are suitable for entrance areas with revolving doors as well as for surface and façade design and particularly for superior landscaping and that can be designed and produced by Wiedemann-Technik in a variety of types.

We are committed to providing you with the right solution for your requirements - with expertise and precision.

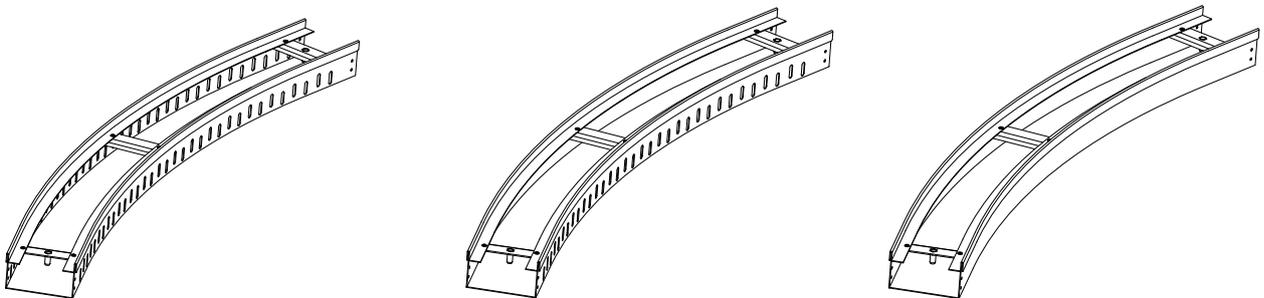
Product characteristics

- One side, both sides or without perforation
- Available in various material strengths, depending on the technical design
- Various section heights, widths and drainage variants
- Radii to customer specifications

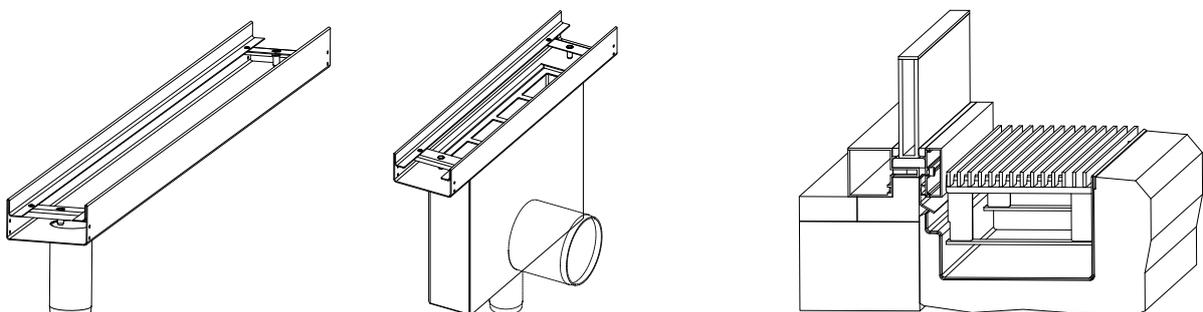
Applications

- In front of revolving doors in entrances
- Glass and plaster façades
- Flat roofs, patios and balconies
- Subterranean glass façades

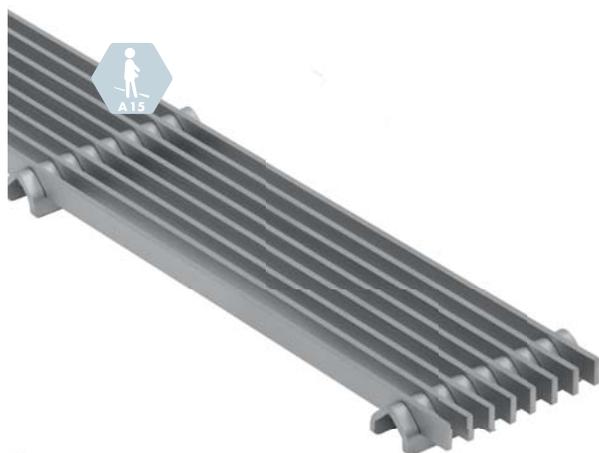
Façade trough channel FKR in radial design



Drainage variants Façade trough channel in radial design

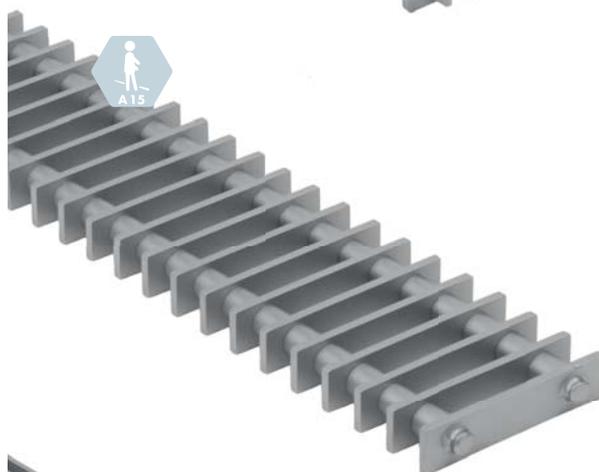


Covers

**Longitudinal bar grating**

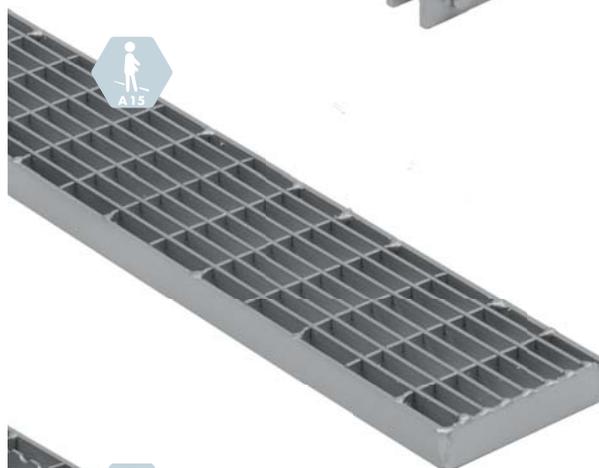
Elegant look, stable and with optimal drainage volume

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Variants: Supporting bars 12 x 3 mm or 12 x 6 mm
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

**Transverse bar grating (slotted grating)**

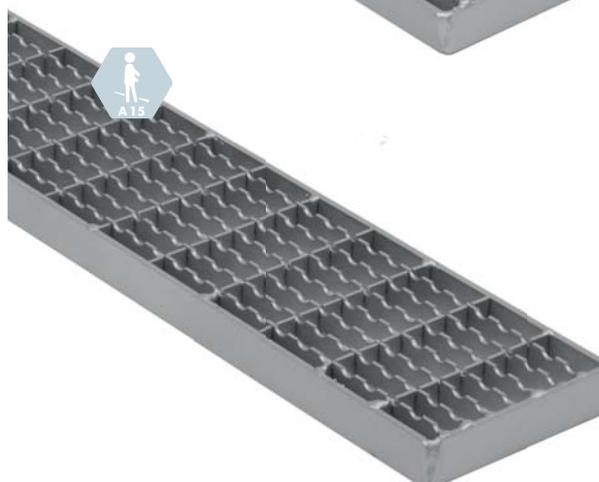
Striking look, stable and with optimal drainage volume

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Variants: Supporting bars 20 x 4 mm or 20 x 6 mm
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

**Grating**

Clean look and high hydraulic functionality

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Mesh size: MW 30/10
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

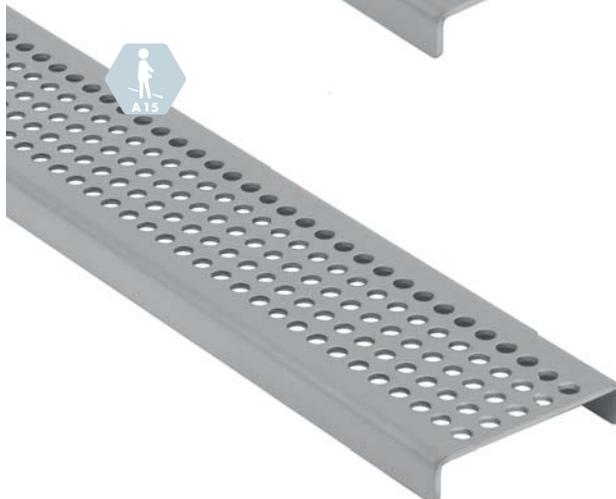
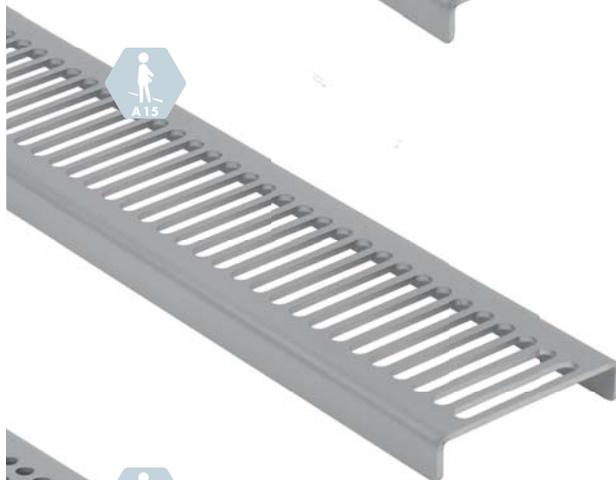
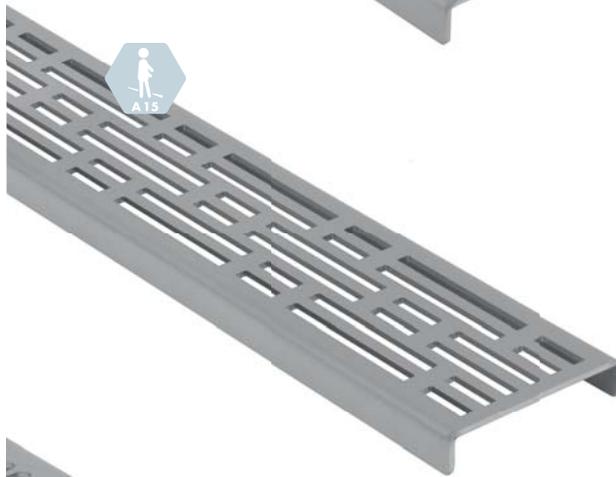
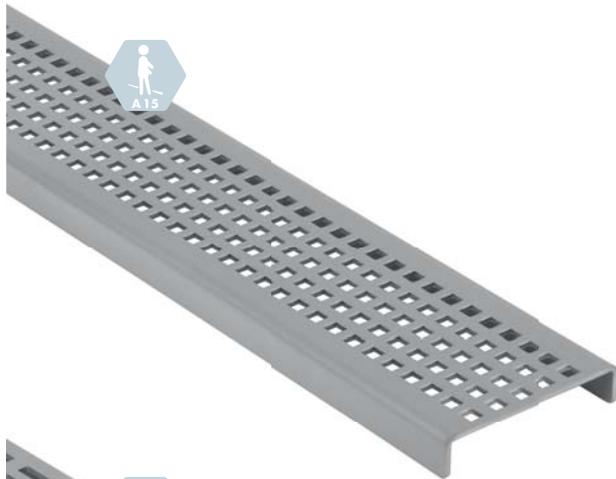
**Anti-slip mesh grating**

Anti-slip design of the grating cover

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Mesh size: MW 30/10
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

Customised special requirements available on request

Covers



Square perforation

The solution for added visual interest

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, pickled, ground, electropolished
- Optional: anti-slip, two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

Design slots

The stylish variant for subtle accents

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, pickled, ground, electropolished
- Variants: different slot variants possible
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

Transverse slot

Offers timeless elegance

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, pickled, ground, electropolished
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

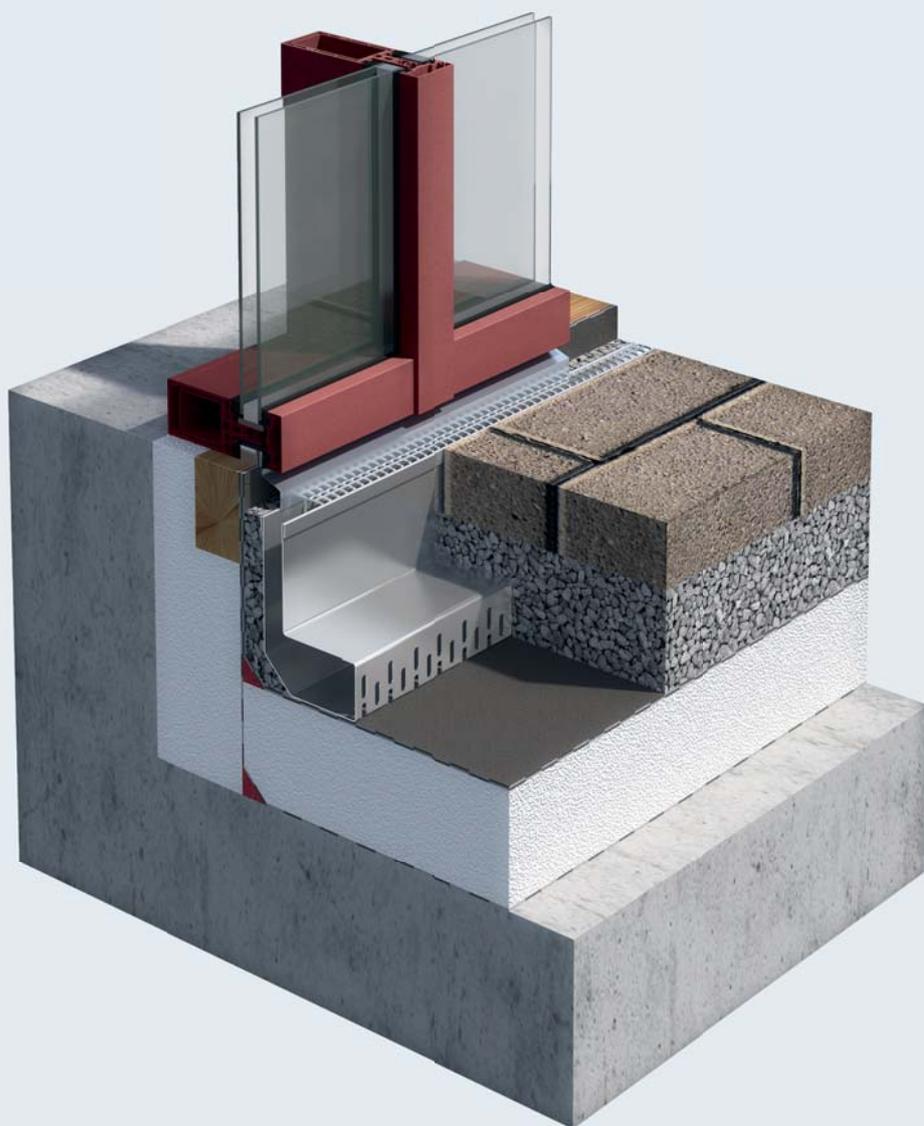
Round perforation

The solution for added visual interest

- Can support pedestrians and wheelchairs
- Surface: blasted, pickled, ground, electropolished
- Sheet metal thickness: 3 mm
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

Customised special requirements available on request

Façade slot channels (FSR)



Aesthetic design & optimal drainage capacity are what characterise the FSR drain system. Unobtrusive and nearly invisible, it is used for challenging visual projects with normal drainage capacity.

Subtle design & functions complete each other perfectly. The sophisticated design and comprehensive modular system allow quick and cost-efficient installation.

High-quality & durable components: Stainless steel provides very high corrosion protection in all components for lasting and beautiful solutions.

A wide range of applications such as staircases, patios, glass and plaster façades or flat roofs make the narrow FSR system a specialist for all projects with high aesthetic standards.

Variable drainage systems can be installed in a flexible way even across long distances and for twisting or round areas.

Full accessibility is ensured in all applications, even for difficult differences in height and radial transitions.

Subtle, functional and with a compelling design

Subtle but powerful: Wiedemann façade slot channels are particularly suited for visually unobtrusive and effective drainage on glass and plaster façades, subtly providing protection against water logging. They blend in almost invisibly with the architecture and the surroundings. They represent an elegant transition between various floor surfaces or between façades and outside areas.

Our façade slot channels systems meet the highest technical requirements and are used in a wide range of applications in surface and façade design as well as in superior landscaping - wherever a harmonious and aesthetic appearance is required without compromising on quality and remove capacity.

Our comprehensive modular system with drain lengths of up to three metres ensures quick, easy, flexible and cost-efficient installation at the construction site.

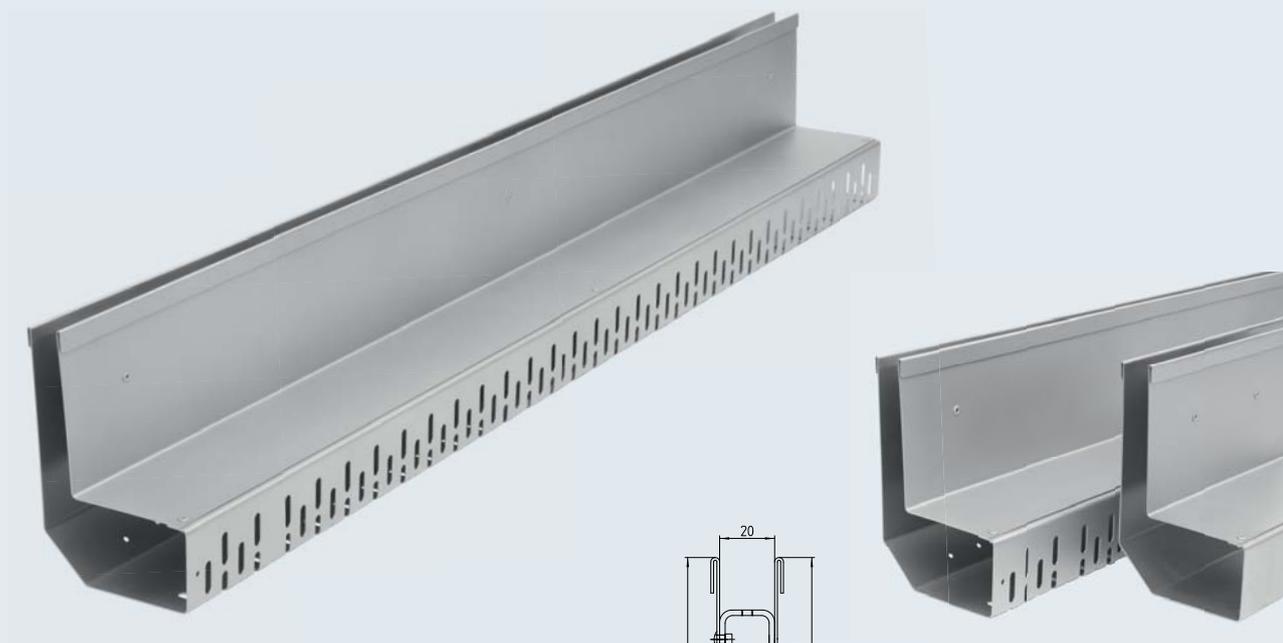
Functioning technical solutions of course involve selecting the perfect material. That is why Wiedemann makes all façade drains from stainless steel. Stainless steel products in V2A (1.4301) or V4A (1.4571) offer high corrosion resistance, providing a durable solution with a timelessly elegant look.

For special cases - such as entrances with revolving doors - Wiedemann-Technik offers radial or polygonal drains that both protect and visually enhance the space.

Drainage system dimensions can be adjusted to your specific requirements in a customised design.



Façade slot channels

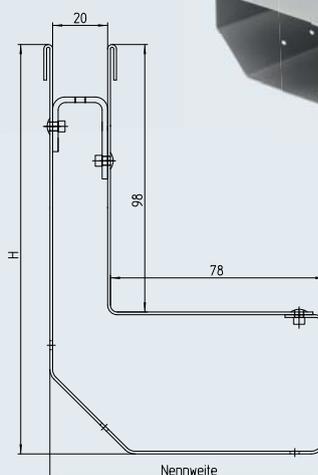


Channel model FSR

Dimensions

Slot width [mm]	Nominal width [mm]	Height H [mm]	Length [mm]
20	100	150	500
20	100	150	1,000
20	100	150	1,500
20	100	150	2,000
20	100	150	3,000

Customised dimensions on request



Product benefits

- Flexible use for various drainage applications due to closed design or drainage slots on one or both sides in the drain body
- Manufactured entirely from stainless steel 1.4301 (V2A) oder 1.4571 (V4A) for good corrosion protection
- Height adjustable by means of height adjustment set
- Cost-efficient installation due to modular system
- Variable and comprehensive range of covers
- Implementation of fully accessible transitions from inside to outside areas

Applications

- Patios
- Staircases
- Glass and plaster façades
- Flat roofs
- Roof patios



Accessories

Corner piece - inside 200 x 200 mm

The inside corner with a standard 90° angle is available with drainage slots on either one or both sides or as a closed design. Other angles can be custom-made at the customer's request.



Corner piece - outside 200 x 200 mm

The outside corner with a standard 90° angle is available with drainage slots on either one or both sides or as a closed design. Other angles can be custom-made at the customer's request.



Drainage channel connector

This allows the quick, easy and stable installation of the drains without height offset. The drain elements are simply inserted into the connector until they lock into place. This results in a dimensionally stable connection.



Service box

The revision box with the removable floor basin is used for the cleaning and revision of the slot channel. In addition to standard covers, both natural stone inlays and freely selectable surfaces can be used as covers. It is available with either a vertical or horizontal drain DN 70/DN 100.



End wall - right/left

The plug-in drain cover prevents gravel and soil from getting into the drain, allowing a clean connection to the adjoining surface.



Height adjustment set

Height adjustment set for customised height adjustment of the façade slot channel, adjustment range customised to customer requirements.



Special solutions

It isn't always easy to achieve the right balance between a perfect technical solution and an attractive design. But no compromises should be made from a technical standpoint when it comes to drainage and to protecting your façades and entrances from water and waterlogging.

Wiedemann-Technik not only offers you standard solutions but also customised solutions to suit your every need. These solutions are created through the close cooperation of planners, architects and clients. Customised solutions include symmetrical slot channels, radial slot channels as well as slot channels for subterranean glass façades that can be used in a wide range of applications in surface and façade design and particularly in superior landscaping.

We are committed to providing you with the right solution for your requirements - with expertise and precision.

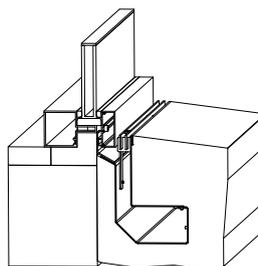
Product characteristics

- One side, both sides or without perforation
- Available in various material strengths, depending on the technical design
- Various section heights, section widths, slot widths and drainage variants
- Radii to customer specifications

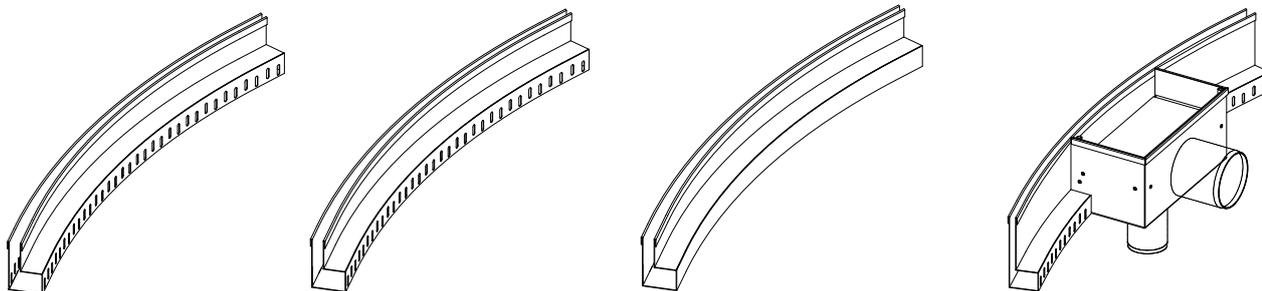
Applications

- In front of revolving doors in entrances
- Glass and plaster façades
- Staircases
- Flat roofs, patios and balconies
- Subterranean glass façades
- As flooring separator

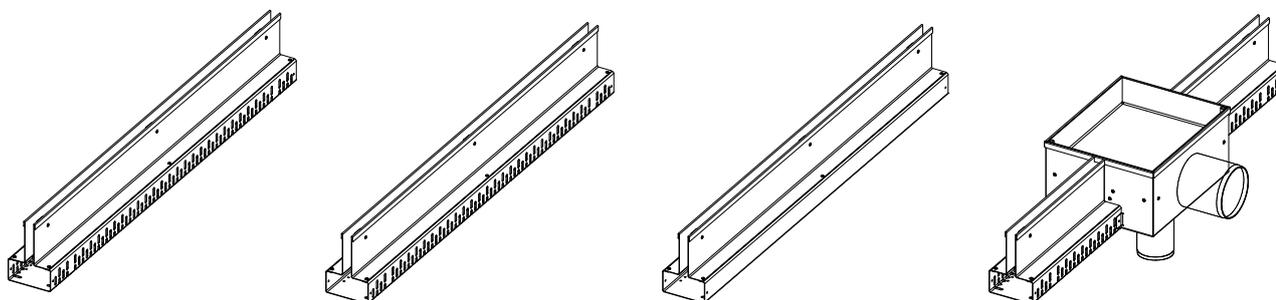
Façade slot channel for



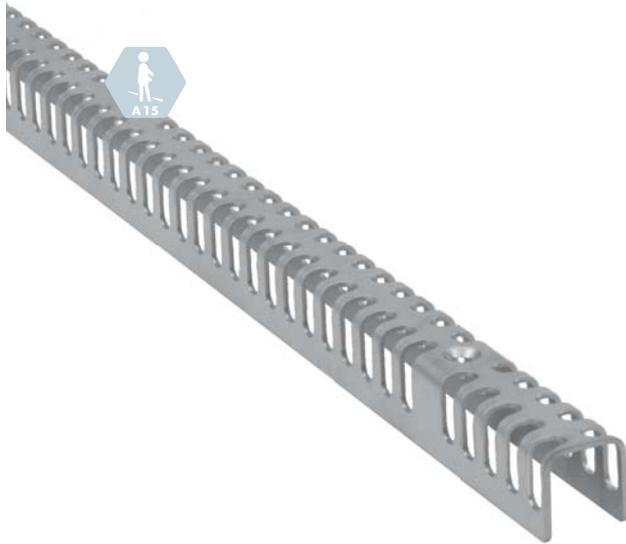
Façade slot drain FSR in radial design



Façade slot drain FSR in symmetrical design



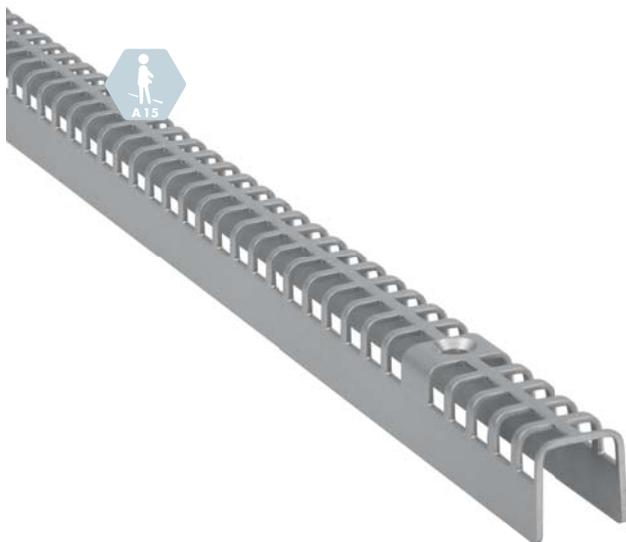
Covers



Longitudinal perforation

Subtle and elegant

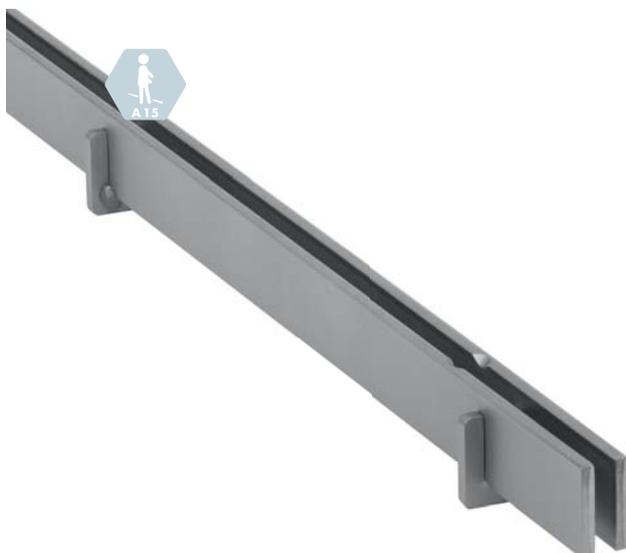
- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished, smoothed
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm



Square perforation

The easy solution for added visual interest

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished, ground
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm



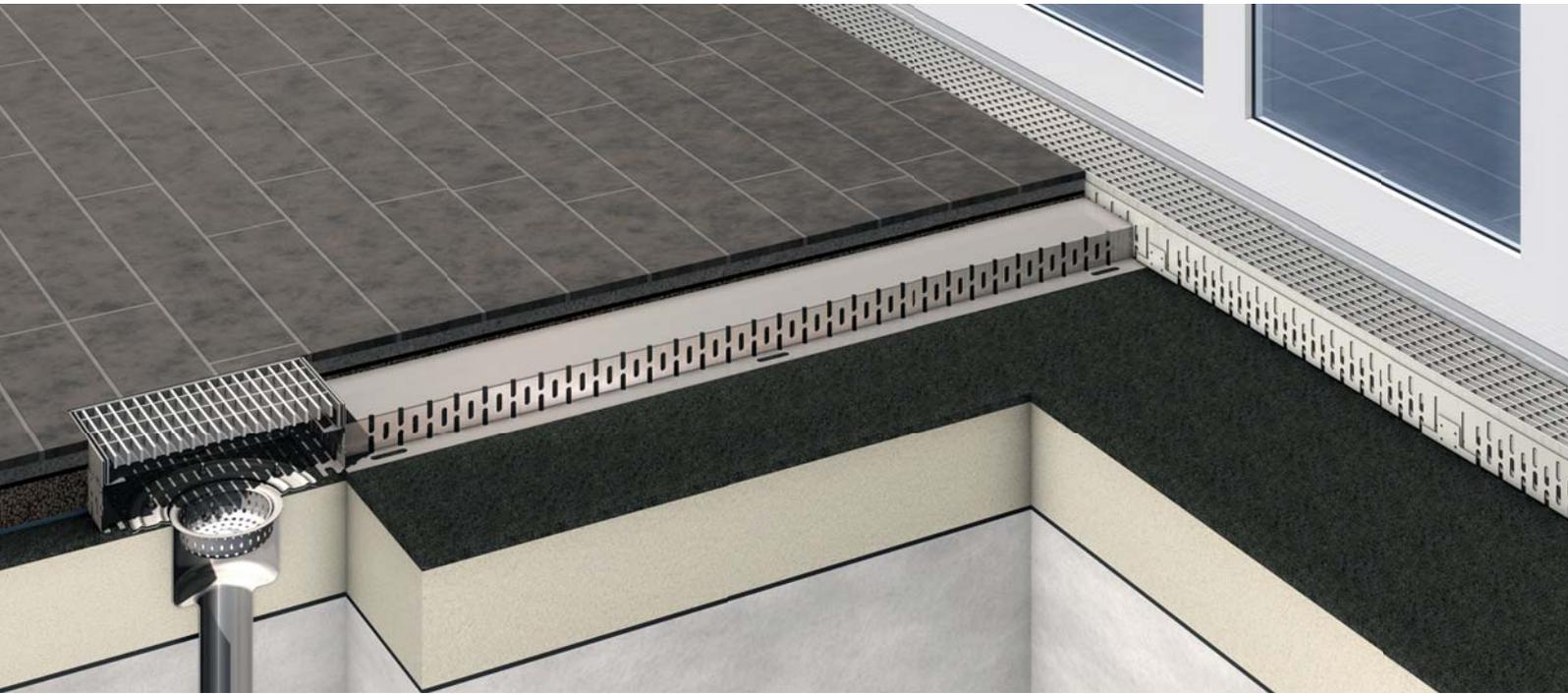
Longitudinal bar grating

Elegant look, stable and with optimal drainage volume

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Variants: Supporting bars 15 x 3 mm
- Optional: Two-bolt fixture possible per metre
- Length: 500 mm / 1,000 mm

Roof attachments

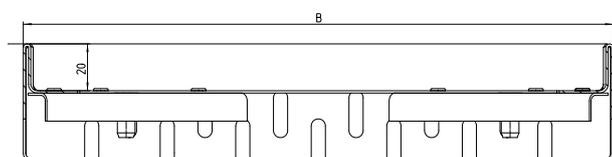
Roof attachment elements with drainage slots around the circumference are perfectly suited for maintenance and cleaning work on roof drains. Their open drain ends ensure open access to the drains. Wiedemann roof attachments are available as fixed as well as height-adjustable variants with a comprehensive range of covers.



Fixed attachment element

Roof attachment element with fixed height

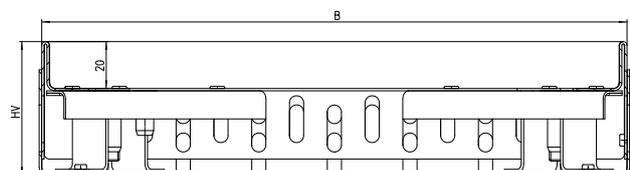
- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Width (W): 250 mm / 400 mm / 500 mm
- Height (H): 50 mm / 75 mm / 100 mm / 150 mm



Height adjustable attachment element

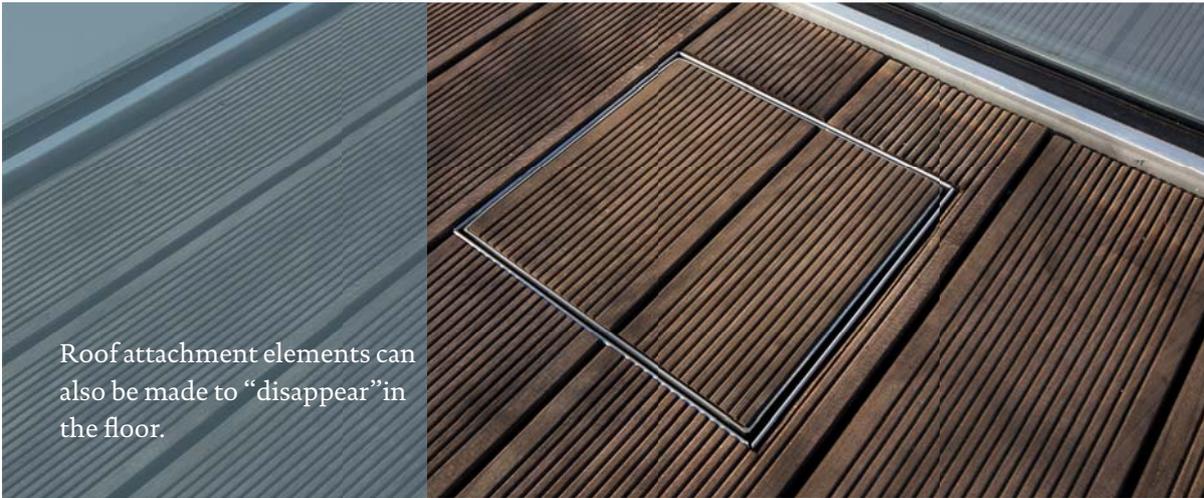
Roof attachment element with variable height

- Can support pedestrians and wheelchairs
- Surface: blasted, stained, electropolished
- Width (W): 250 mm / 400 mm / 500 mm
- Height (HV): 56-72 mm / 72-102 mm / 101-161 mm



Customised dimensions available on request.

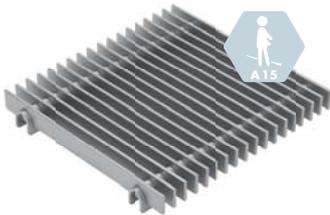
Covers



Roof attachment elements can also be made to “disappear” in the floor.

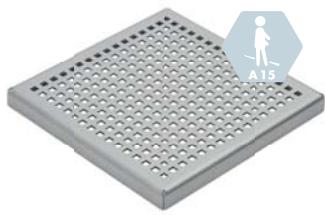
Longitudinal bar grating

- Can support pedestrians and wheelchairs
- Supporting bars: 12 x 3 mm
- Surface: blasted, stained, electropolished
- Optional: Two-bolt fixture possible



Square perforation

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, picked, electropolished, ground
- Optional: Two-bolt fixture possible



Mesh grating

- Can support pedestrians and wheelchairs
- Mesh size: MW 30/10
- Surface: blasted, stained, electropolished
- Optional: Two-bolt fixture possible, anti-slip



Design slots

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, picked, electropolished, ground
- Optional: Two-bolt fixture possible



Round perforation

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, picked, electropolished, ground
- Optional: Two-bolt fixture possible



Transverse slot

- Can support pedestrians and wheelchairs
- Sheet metal thickness: 3 mm
- Surface: blasted, stained, electropolished, smoothed
- Optional: Two-bolt fixture possible





Rooftop patio in Oldenburg

**Special cases -
simple solutions**

For special cases - such as entrances with revolving doors - radial drains are suitable for both protecting and visually enhancing the space.

Façade drain in Hannover,
Passarelle





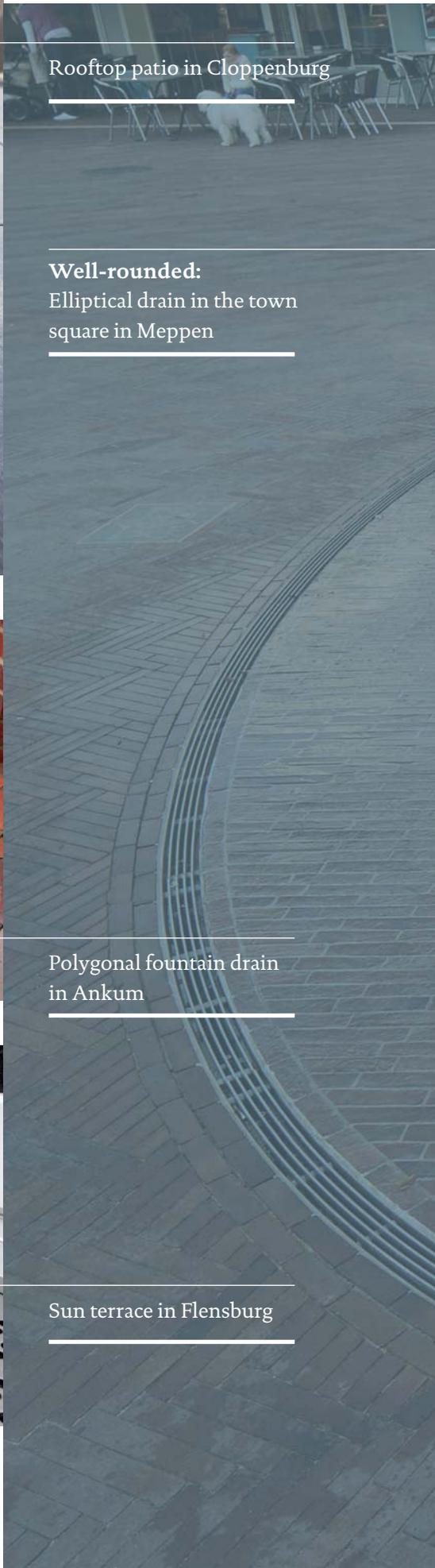
Rooftop patio in Cloppenburg



Polygonal fountain drain in Ankum



Sun terrace in Flensburg



Well-rounded:
Elliptical drain in the town square in Meppen





Installation instructions for Wiedemann façade trough channels FKR-F and FKR-HV

FKR-F



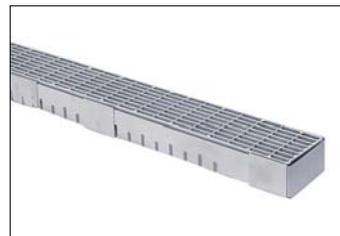
Included in delivery



Insert drain element from the top into the connector until it locks into place

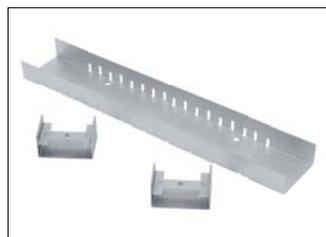


Insert end wall into the guide tabs on the side at the end of the drain run



Insert cover, adjust or bolt on if necessary

Levelling element FKR-F in the centre and at the end



Included in delivery



Insert levelling element into the drain to desired length



Position grid support for a stable cover support and insert end wall if necessary



Insert cover, adjust or bolt on if necessary

FKR-HV



Insert drain element from the top into the connector until it locks into place



Adjust drain to the desired height

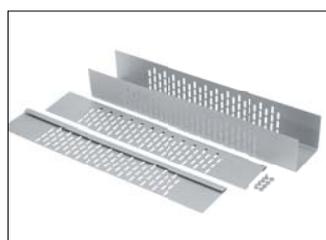


Insert end wall into the guide tabs on the side at the end of the drain run

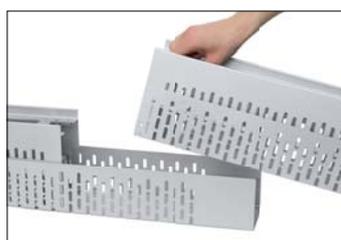


Insert cover, adjust or bolt on if necessary

Levelling element FKR-HV in the centre



Included in delivery



Insert drain elements in central levelling element and adjust to desired length

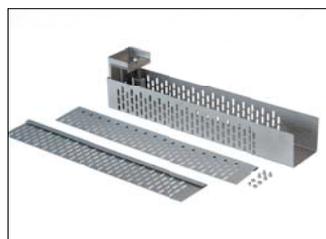


Insert side parts over the channel edge

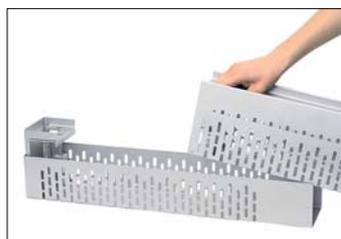


Fix side parts with screws supplied

Levelling element FKR-HV at the end



Included in delivery



Insert drain elements in levelling element with end piece and adjust to desired length



Insert side parts over the channel edge



Fix side parts with screws supplied

Compliance with flat roof guideline

Drainage channels by Wiedemann-Technik allow a significant reduction of tripping hazards around doors and façades, thus reducing accident risks.

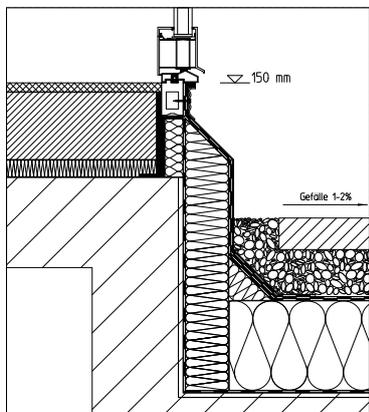


Fig. 1

Figure 1 shows the proper design of a seal to DIN 18195 with a required connection height of 150 mm above the surfaces of the flooring without a drainage channel. This causes a tripping hazard that is not desirable in real life and that represents an increased accident risk.

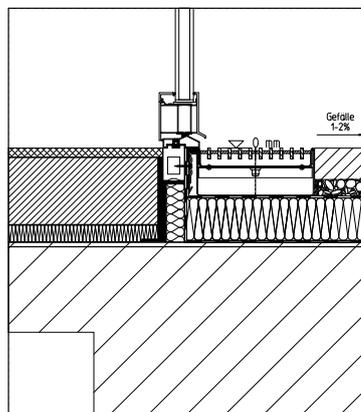


Fig. 3

No-threshold transitions are increasingly becoming the preferred solution in practical applications and permit construction that is in line with old-age and disability requirements.

Figure 3 shows that fully accessible transitions can be implemented by considering special planning solutions and using drainage channels.

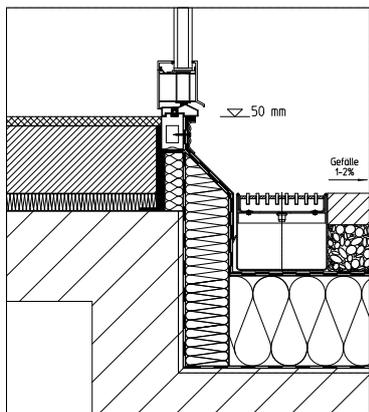


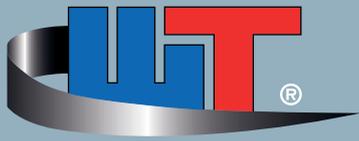
Fig. 2

Fig. 2 shows the reduction in the connecting height to 50 mm by installing a Wiedemann drainage channel. This reduces the discharge at the threshold.

Special solutions must be planned and implemented to ensure durable impermeability of the door joint. Not all aspects of these always conform to the relevant guidelines. That is why care must be taken to ensure that these are inspected exactly by clients, architects and trades prior to planning and implementation.

The following actions can help reduce exposure to water around doors:

- Mesh grate covers with the largest possible drain cross section
- Sufficient dimensioning of the drainage channel
- Roofs in transition areas
- Ensuring drainage is fast and without water backing up
- Gradient formation at the sealing level and surface flooring



WIEDEMANN-TECHNIK

Quality in stainless steel



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