

New possibilities for façade drainage

ACO Profiline X





High-quality façade channel, wide-variety of utilisations

The subject of façade drainage has gained in importance in recent years, especially for connecting areas such as e.g. in barrier-free threshold constructions. The objective to be achieved here is to prevent water ingress behind the waterproofing and/or rainwater from entering the building. ACO Profiline X is particularly suitable for loose installation in roof garden, patio, terrace and balcony areas.

The connection height of 15 cm for structural waterproofing, which is specified by DIN 18531 and the Flat Roof Directive, can be reduced to 5 cm by utilising ACO Profiline X in the door area. Shape and length stability are guaranteed by the material, design and construction.

ACO Profiline X façade channel

Façade channels must be resistant to environmental influences and always be functional, at the same time they should impress optically. Building owners and developers also want a cost-effective solution.

ACO's new façade channel system takes all these requirements into account: With the ACO Profiline X, a further development of ACO Profiline made of metal, the channel is made of corrosion-resistant glass-fibre reinforced plastic (PP-GF),

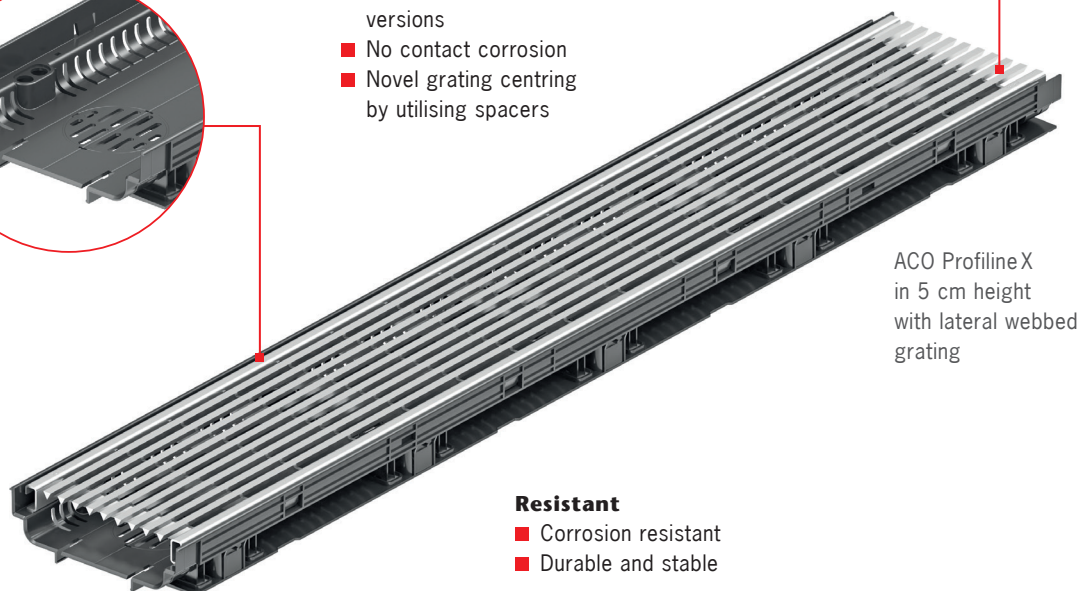
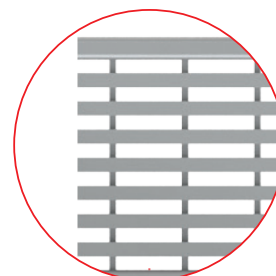
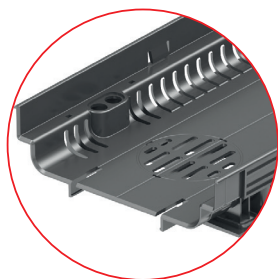
while the stainless steel cover ensures an attractive appearance. With the successful combination of PP-GF and stainless steel, ACO not only fulfils the requirements for changing environmental influences but also the wishes of many building owners and developers for channel covers made of stainless steel. An additional advantage for building owners and developers is that they can save on the expensive stainless steel substructure.

Made in Germany

- In-house development based on years of experience in the façade channel sector
- High-quality processing
- One-source production in Germany

Delivers what it promises

- Combinable with Profiline gratings in stainless steel and galvanised versions
- No contact corrosion
- Novel grating centring by utilising spacers



ACO Profiline X
in 5 cm height
with lateral webbed
grating

Resistant

- Corrosion resistant
- Durable and stable

High-resistant material

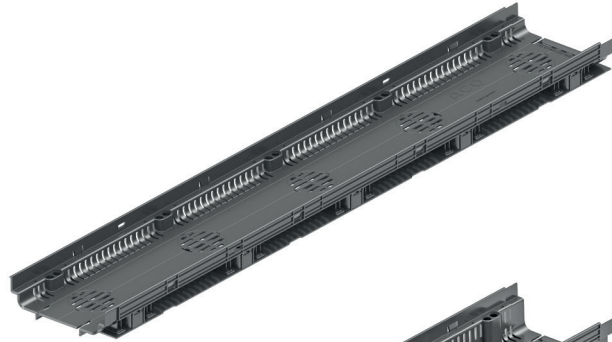
- Particularly stable by utilising glass fibre reinforcing (PP GF material)
- Simple to shorten (no risk of corrosion)
- Thermal expansion is considered with the material composition and the new channel connection
- Anthracite colour with small, appealing channel edge

Fits (almost) everywhere

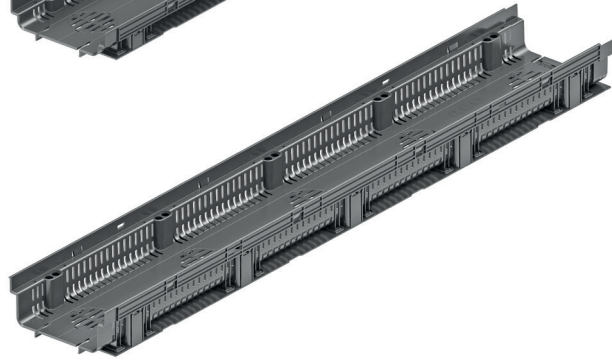
- Good load distribution by means of large supporting surface areas
- Simple for working
- Optimised for storage and transport
- Inspection-capable direct connection possibilities: Branch channel, reveal-type discharge element, eccentric insert spigots

Overall heights

Profiline X is available in 5 and 7.5 cm fixed overall heights. The construction width is 15.5 cm.



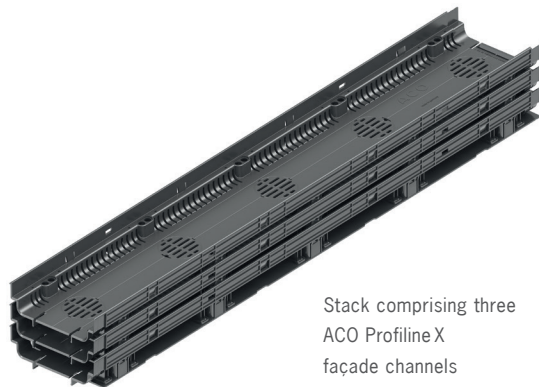
ACO Profiline X
5 cm OH



ACO Profiline X
7.5 cm OH

Durable and stackable

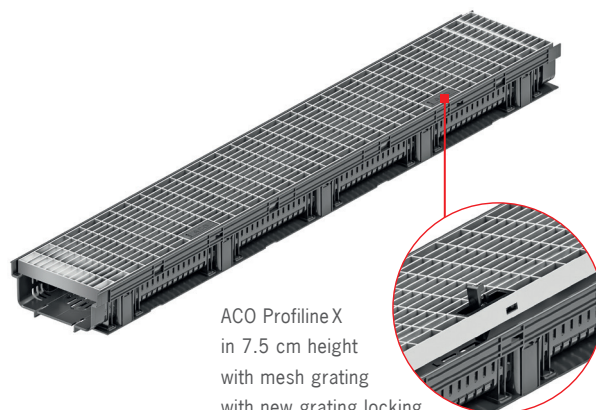
Aspects such as environmental protection and future compatibility are important in the construction industry. Long service life cycles of materials have a sustainable effect on buildings and the environment. The Profiline X is characterised not only by a particularly durable material but also by a timeless design form. It is also very easy to stack. This therefore reduces the space required for storage and transport.



Stack comprising three
ACO Profiline X
façade channels

Novel grating locking system

Special attention has been paid to the locking of the mesh grating: Inserting the gratings in the façade area is now even easier. The one-sided grating locking system has been discreetly integrated into the ACO logo and has an integrated lift-out function.



ACO Profiline X
in 7.5 cm height
with mesh grating
with new grating locking
system



High-quality grating

The new ProfilineX fulfils all the wishes for architects and planners with regards to aesthetics and qualitative, high-quality façade channels: You can find drainage solutions here, which perfectly suit the optical design for the façade, there are no restrictions on the application possibilities.

ProfilineX therefore provides the ideal basis for high-quality covers. It can be combined with all materials, corrosion from contact with the channel train is impossible. Both galvanised steel and stainless steel gratings form a durable, weather-resistant construction.

Selection of stainless steel and galvanised gratings

Mesh grating 30/10



Longitudinal ladder grating*



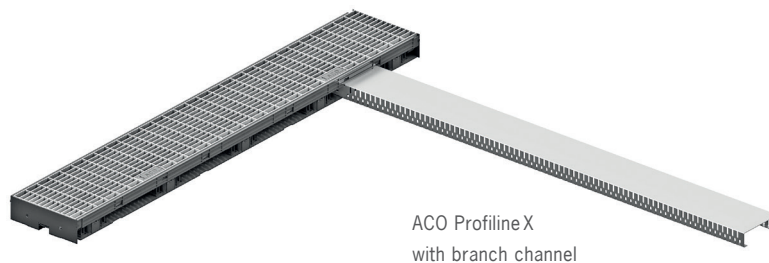
Longitudinal bar grating



* Only in stainless steel

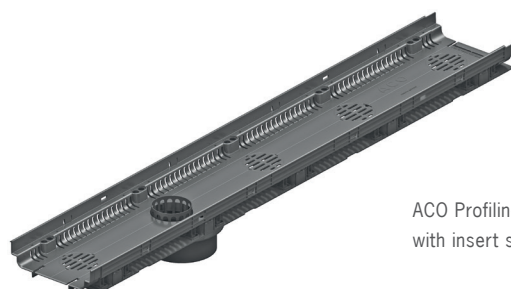
Variable Connection possibilities

The channel system has been designed in such a way that it can be connected directly in any installation case, as the branch channel enables direct or immediate connection to the drainage system. The side wall will be opened and the **branch channel** is then connected directly on the channel.



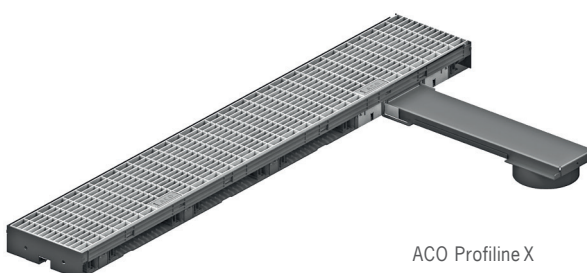
ACO ProfilineX
with branch channel

If the façade channel can be directly connected below, then there is a **plug-in spigot with Ø 60 mm to DN 100** which can be placed eccentrically into the channel. Rotating it enables excellent positioning for the connection.



ACO ProfilineX
with insert spigots

A direct connection to the drainage system can often only be realised on the channel side in the reveal area. The design enables the **reveal drain-off element** to be positioned on the side wall of the channel body. It is still able to be inspected after being built in and can easily be connected on a basic pipe system with DN 100.



ACO ProfilineX
with reveal drain-off element

Simple application

Assembling the cover grating with locking device


The grating is inserted on one side so that it can also be easily pushed under a façade element. The previously raised locking devices are then pressed downwards.

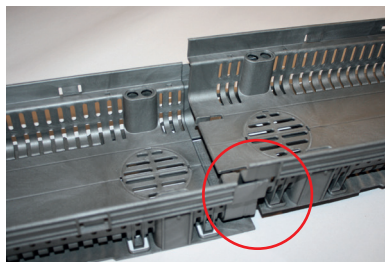
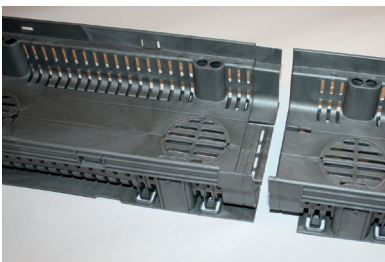
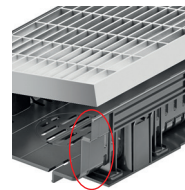
Simply press the "A" on the ACO logo to unlock the grating and remove it. The grating can be simultaneously pressed out of the frame by placing the locking device vertically.



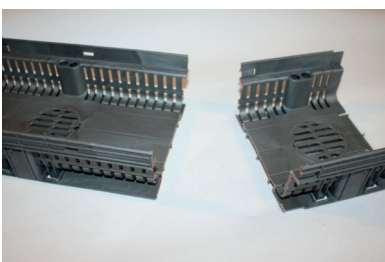
The channel connection

The second channel element is snapped in from above for the channel connection. The channel elements are then connected and have the possibility to move in the longitudinal direction. This thereby serves for taking the thermal linear expansion into account in the case of longer channel trains.

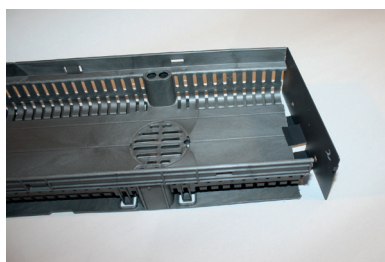
IMPORTANT! Always shorten the channel at the start of the channel section by 1 cm before laying the first channel element – refer to cutting guide 



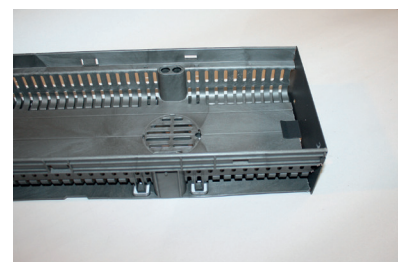
Shortening the channel body



The channel body can be shortened on preferred positions

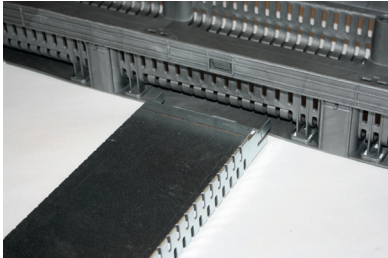


The end cap also fits on the shortened channel body by simply inserting it.



Completely assembled end cap

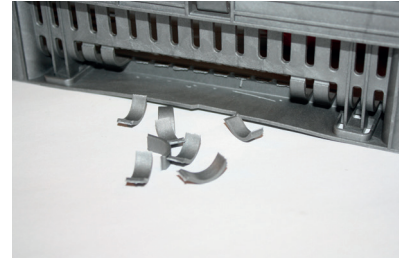
Assembling the branch channel



Transfer the branch channel width



Cut through the ribs from above
Press the ribs outwards



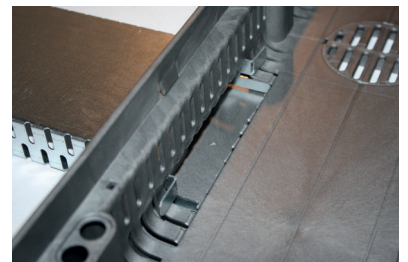
Break out the ribs



Push in the branch channel

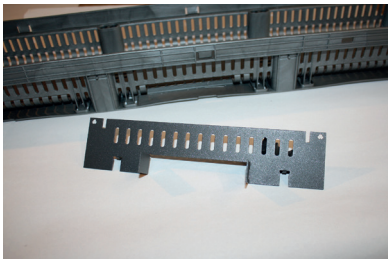


Branch channel for channel, height 5 cm,
fold upwards on the perforation

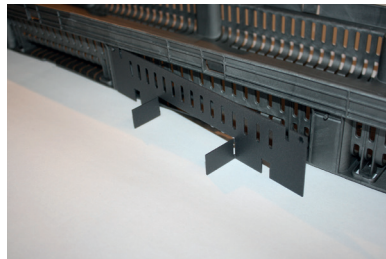


Kink both straps

Assembling the connection for the reveal drain-off element



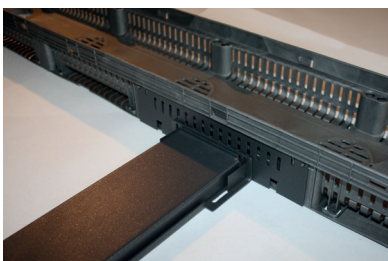
Connection element



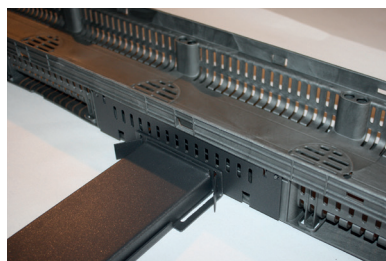
Insert the connection element on the tenons



The channel element must be opened from inside (also refer to branch channel connection)



Position the reveal drain-off element

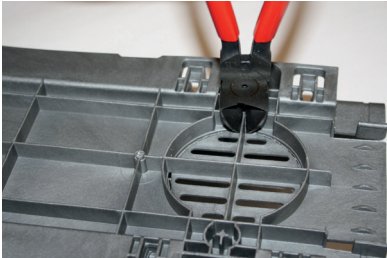


Fold over the straps for fixing



KG pipe DN 100 can be connected

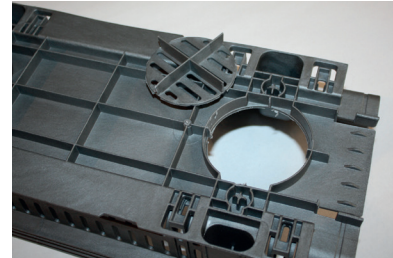
Assembling the insertion spigots



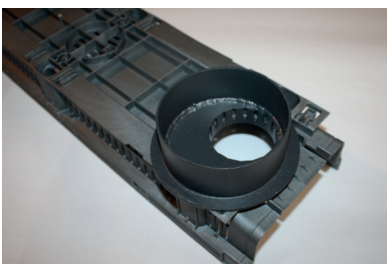
Cut through the four ribs from below



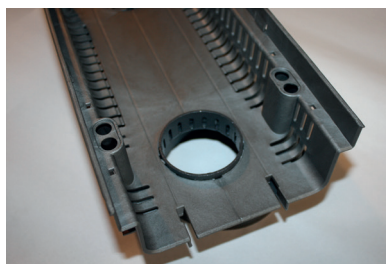
Knock out the area for the insert spigots



Remove and dispose of the unit



Position the eccentric insert spigots. The position can be altered by rotating here

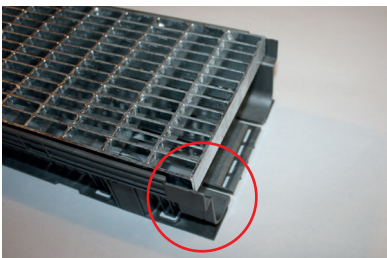


Insert spigots

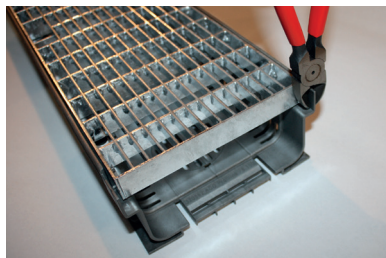


Connect the KG pipe DN 100

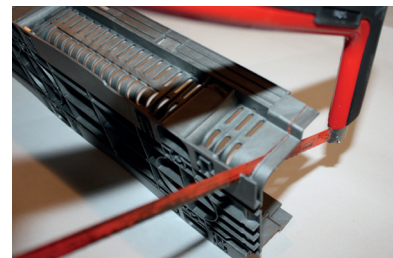
Assembling the end cap



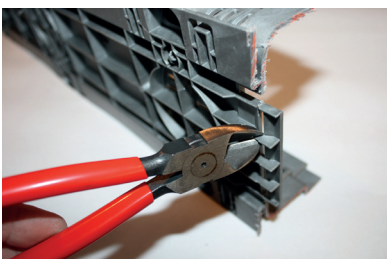
The channel element is respectively 1cm longer due to the overlaps on the ends



This 1cm must be separated before positioning the end cap.



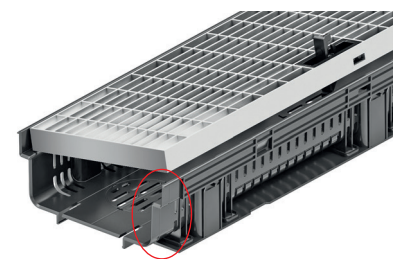
Shorten the channel end in the side area




Shorten the channel end in the ground area



Position the end cap



IMPORTANT! Always shorten the channel at the start of the channel section by 1 cm before laying the first channel element – refer to cutting guide 



Each ACO building construction product supports the ACO system chain

System solutions for the basement

- Basement window
- Assembly panels for light wells
- Pressure water proof light wells
- Backflow systems

Infrastructure for house and garden

- Bath drainage
- Shaft covers
- Façade drainage channels
- Linear drainage
- Point drainage
- Doormats
- Honeycomb panels and gravel stabilisation
- Linear infiltration
- Rainwater harvesting

Barn windows and escape doors

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