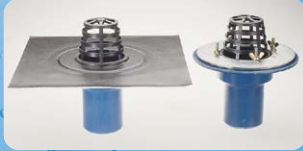


The biggest roof drain range in Europe



Garage/Balcony drain



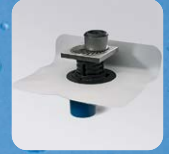
Alpha drain



Ventilation



Universal drain



Eccentric drain



Attika Power drain



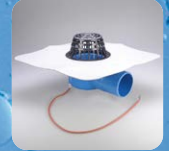
Pipe system made of stainless steel



Clamp flange drain



Collar drain



Compact collar drain



Combi drain I



Attika Jumbo drain



Combi drain II



Redevelopment drain (redeveloping in the pot)



Stainless steel drain

Flat Roof Program 2024

Drain program with lots of additions, improvements and innovations



Balcony drain



Redevelopment drain (pipe redeveloping)



Continuous balcony drain, lower-able



Attika Meso drain



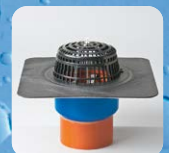
Attika flat drain



Fastening bushings



Fire protection



Collar drain DN 200



Attika Meso 2 drain



Attika Plus drain



Reach-through element



Siphonic drainage



Attika balcony drain



Attika rectangular emergency overflow



Attika Super 2 drain



Attika Super Drain



Balcony complete overflow



Heatings



Green-roof safety drain



Accessories

| | | | |
|-----------|--|-----------|--|
| 3 | Universal Drain | 53 | Attica Jumbo Drain with accessories |
| 5 | Clamp Flange Drain DN 150 | 55 | Attica Power Drain with accessories |
| 6 | Collar Drain DN 150 | 57 | Attica Flat Drain with accessories |
| 7 | Compact Collar Drain | 60 | Attica Plus Drain with accessories |
| 9 | Balkony Drain DN 50 with accessories | 61 | Stainless Steel Sewer System |
| 11 | Garage/Balkony Drain with accessories | 64 | Attica Rectangular Emergency Overflow |
| 13 | Redevelopment Drains for redev. "in the pot" | 66 | Balkony Complete Drain with frostproof odour trap |
| 15 | Redevelopment Drains for redev. of old pipes | 67 | Green Roof Drainage |
| 15 | Accessories for Redevelopment Drains | 68 | Retention attachment |
| 17 | Ventilation | 69 | Stainless Steel Drain |
| 22 | Collar Drain DN 200 | 70 | Fire Protection |
| 23 | Combi Drain type I for ventilation and drainage | 71 | Fastening Bushings |
| 23 | Combi Drain type II for main and emergency drainage | 72 | Reach-through Elements |
| 27 | Alpha Drain (formerly known as Eco Drain) | 73 | Heating with accessoires |
| 29 | Eccentric Drain | 74 | Trace Heating System calculation and planning |
| 31 | Continouous Balcony Drain, lowerable | 76 | Stainless Steel Pipe System |
| 32 | Attica Balcony Drain with accessories | 77 | Siphonic Drainage |
| 37 | Attica Plug-in Overflow | 78 | Accessories for Grumbach Drains |
| 39 | Attica Downpipe Connection round | 83 | Rainfall Statistics Germany |
| 41 | Attica Meso Drain for medium capacities | 84 | Calculation of the number of Drains required |
| 43 | Attica Meso-2 Drain for water collection box | 84 | Form: Main and emergency Drainage |
| 45 | Attica Meso-2 Drain with partial flow diversion | 86 | Drainage capacities acc. to DIN EN 1253-2 |
| 47 | Attica Super Drain with accessories | 90 | Connecting surfaces and special foils/cuffs |
| 49 | Attica Super-2 Drain for water collection box | 92 | Grumbach Area Sales Representatives |
| 51 | Attica Super-2 Drain with Partial flow diversion | | |

■ Innovation, competence and experience



Grumbach – Today this name stands for innovation, competence and experience in the flat roof area. Our family company has been successfully developing, producing and selling problem solutions for practical requirements since 1974.

Grumbach offers the largest range of products for flat roofs, balconies, terraces, green roofs, parking decks, etc. In addition, we put new ideas and exclusive customer requests into practice at short notice by means of our own mould construction.

From the legendary Combi Drain to the »big mouth« Attica Jumbo Drain – with »The Blue Ones from Grumbach«, almost every problem with the drainage and ventilation of flat roofs



can be optimally solved.

Discover our innovative products for your success!



■ Universal Drain

Ideal for keeping in stock!



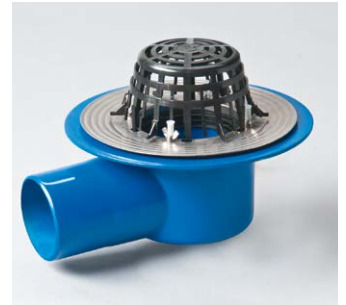
Universal drain made of PUR

CFC-free, with pebble trap, clamp flange and combi-seal. **Also heatable** via an integrated, self-regulating 230 V PTC heating element, performance up to max. 10 W. We recommend using the frost switch base set (Art.-N. 5922, see page 73) in connection with our heatable drains.

Extension element with clamp flange and combi-seal for flange pressing and backflow protection, suitable for all clamp flange drains.



Universal drain vertical



Universal drain horizontal

The Universal drain DN 70/DN 100/DN 125 is the ideal drain to keep in stock:

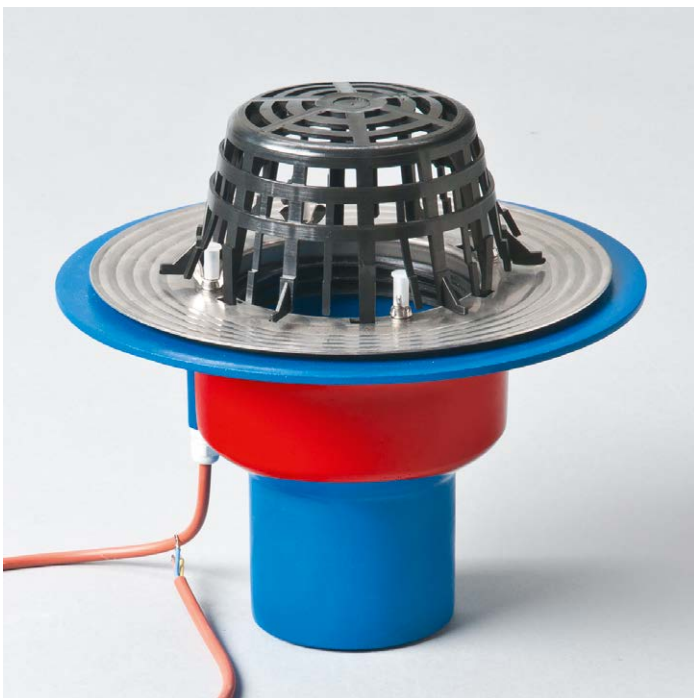
A few parts are enough to fulfill 90% of all requirements.

The Universal drain

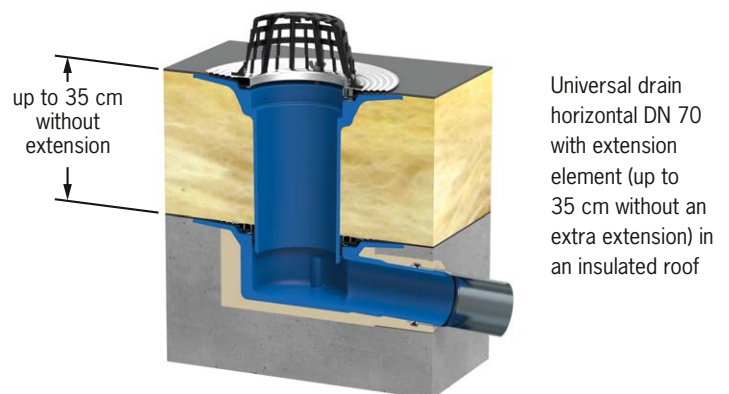
is suitable for any roof covering, with accessories for pebbled roofs, balconies, park decks, green roofs etc.

The perfect combination of quality and technology!

- Fitting a flange keeps it leak-free with every roof surface
- Simply unravel the roof sheeting, cut the hole, fit the flange – finished
- Quality controlled in acc. with DIN EN 1253-2
- made of CFC-free, heat insulated PUR-integral-hardfoam



Installation example Universal drain horizontal



The universal drain DN 70/DN 100/DN 125 is **available as a heatable drain** both as **vertical** or **horizontal** version.

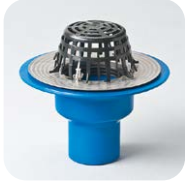
Heating is provided via a self-regulating PTC* heating element 230 V (cable length 0.8 m). That keeps everything ice-free even at extreme temperatures.

We recommend using the frost switch base set (Art.-No. 5922, see page 73) in connection with our heatable drains.

■ Universal Drain

Ideal for keeping in stock!

Dimension | Art. No.



Universal drain made of PUR

vertical:
 DN 70 **2102**
 DN 100 **2104**
 DN 125 **2106**



horizontal:
 DN 70 **2111**
 DN 100 **2114**
 DN 125 **2116**



Universal drain made of PUR

vertical:
heatable (230V,
 cable length 0.8 m):
 DN 70 **2122.2**
 DN 100 **2124.2**
 DN 125 **2126.2**



horizontal:
heatable (230V,
 cable length 0.8 m):
 DN 70 **2132.2**
 DN 100 **2134.2**
 DN 125 **2136.2**



Extension element
 up to 16 cm **2181**
 up to 23 cm **2183**
 up to 35 cm **2185**

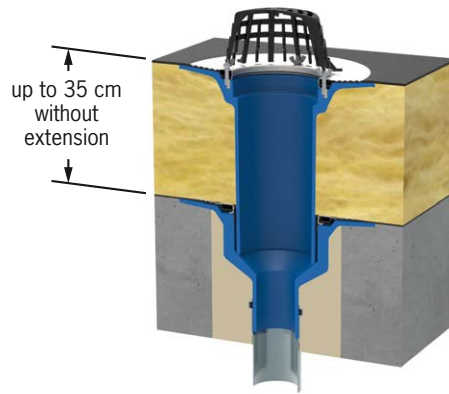


Insulation piece for extension elements
2188

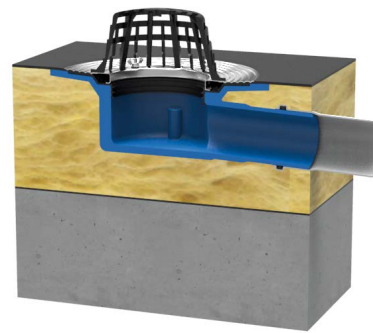


Collar plate
2189
 suitable for the Universal or compact collar range, shaped to integrate the drain even with the surface

Installation example Universal drain

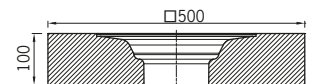
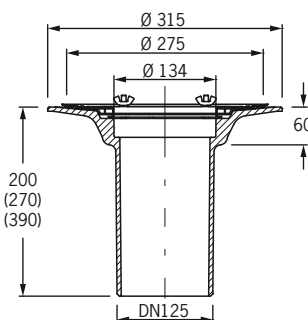
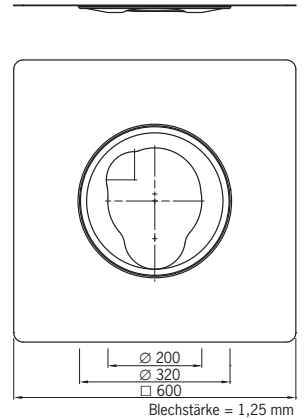
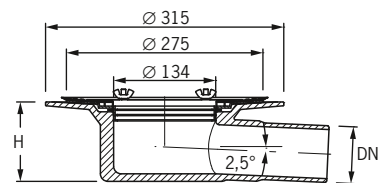
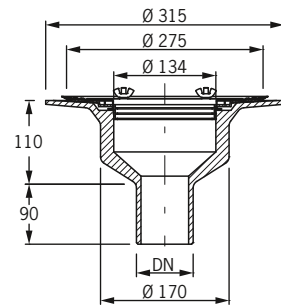


Universal drain vertical DN 70 with extension element (up to 35 cm without additional extension) in an insulated roof



Universal drain horizontal DN 70 in an insulated roof

Technical data Universal drain



| Art. No | Nominal-Ø | Actual-Ø | H | Drainage capacity* |
|-------------------------------------|-----------|----------|-----|--------------------|
| Universal drains, vertical | | | | |
| 2102, 2122.2 | DN 70 | 75 | | 6,3 l/s (35 mm) |
| 2104, 2124.2 | DN 100 | 110 | | 6,8 l/s (35 mm) |
| 2106, 2126.2 | DN 125 | 125 | | 8,7 l/s (45 mm) |
| Universal drains, horizontal | | | | |
| 2111, 2132.2 | DN 70 | 75 | 105 | 5,8 l/s (35 mm) |
| 2114, 2134.2 | DN 100 | 110 | 140 | 6,1 l/s (35 mm) |
| 2116, 2136.2 | DN 125 | 125 | 155 | 8,5 l/s (45 mm) |

*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

■ Clamp Flange Drain DN 150

The original one!

Very large pebble trap reduces the risk of a blockage to a minimum



Larger better fitting clamp flange made of aluminum with clamp 45 mm wide – screws are out of clamping area



Storm-proof pebble trap attachment with threaded bolt, nuts and pebble trap securing plate, all in stainless steel

Absolutely secure combination seal with double function for flange pressing and anti-flowback seal



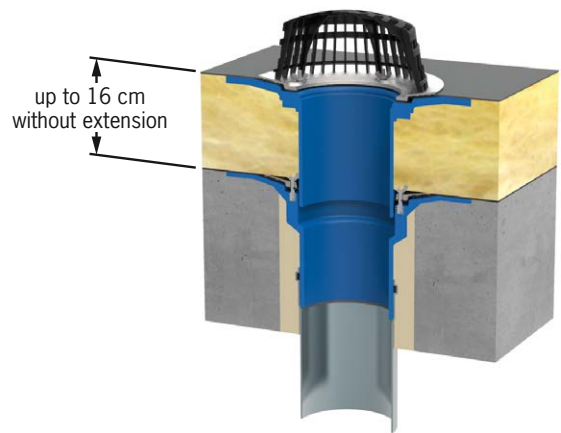
Drain made of PUR

Clamp flange drain made of PUR

CFC-frei, with pebble trap, clamp flange and combi-seal. **Also heatable** via an integrated, self-regulating 230 V PTC heating element, performance up to max. 10 W. We recommend using the frost switch base set (Art. No. 5922, see page 73) in connection with our heatable drains.

Extension element with clamp flange and flange pressing seal suitable for all clamp flange drains.

Installation example



Clamp flange drain DN 150 with an extension element in an insulated roof

The perfect combination of quality and technology!

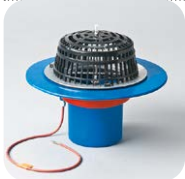
- Unravel the roof sheeting, cut the hole, fit the flange - finished
- The new clamp flange-technology with the new rubber seals ensures an absolutely secure connection with any roof covering!
- Grumbach clamp flange drains fit into nearly any type of roof and roof covering. There are extra parts for insulated roofs, inverted roofs, porch roofs and green roofs, etc.

Dimension | Art. No.



Clamp flange drain (PUR)

vertical:
DN 150 **2008**



Clamp flange drain (PUR)

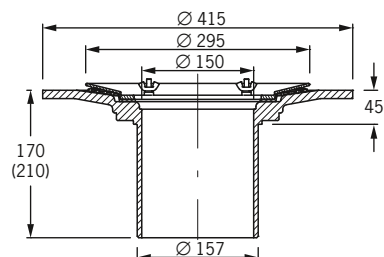
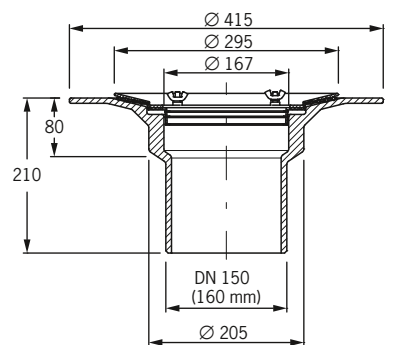
vertical
heatable (230V,
cable length 0.8m):
DN 150 **2028.2**



Extension element

up to 12 cm **2080**
up to 16 cm **2081**

Technical data



| Art. No. | Drainage capacity* |
|--------------|--------------------|
| 2008, 2028.2 | 10,0 l/s (45 mm) |

*Drainage capacity acc. to DIN EN 1253-2 in litres per second (at accumulation height in millimeters)

■ Collar Drain DN 150 with adhesive collar



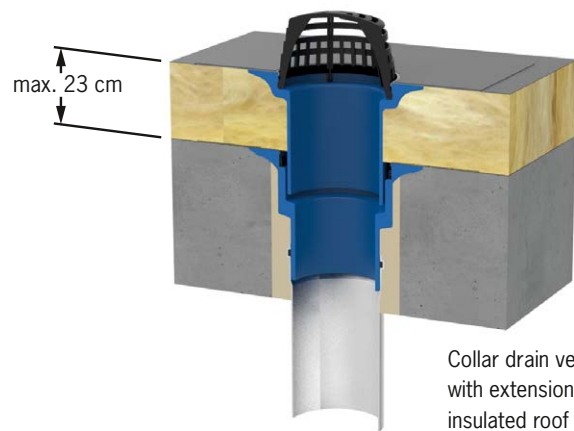
Collar drain made of PUR

heat insulated, CFC-free, with pebble trap and foam-filled connection collar (Bitumen, ECB, PVC or special foil).

Also heatable via an integrated, self-regulating 230 V PTC heating element, performance up to max. 10 W. We recommend using the frost switch base set (Art.-No. 5922, see page 73) in connection with our heatable drains.

Extension element with connection collar and anti-back flow seal, suitable for all compact collar drains..

Installation example Collar drain DN 150



Collar drain vertical DN 150 with extension element in an insulated roof

Securing groove + pebble trap = secure pebble collection

The securing groove ensures that the connection between the body of the drain and the pebble trap is permanently secure

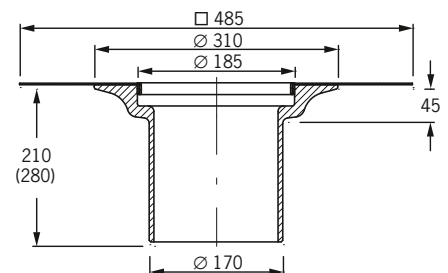
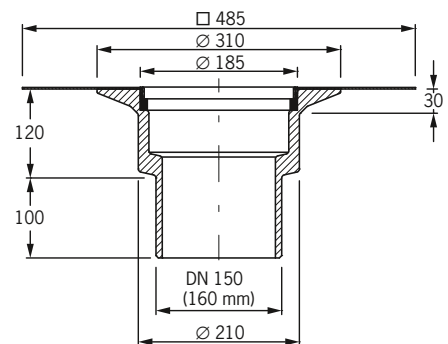
Securing groove + Anti-backflow seal = Secure backflow prevention

If base elements and extensions are used, as in e.g. insulated roofs, then the securing groove of the base element would be connected with the anti-backflow seal. The anti-backflow seal, which was specially developed for the collar drain, can be securely fastened to the securing groove.

If the extension element is fitted into the base element, backflow prevention is provided.

The seal can not slip during this process as the seal always sits correctly.

Technical data Collar drain DN 150



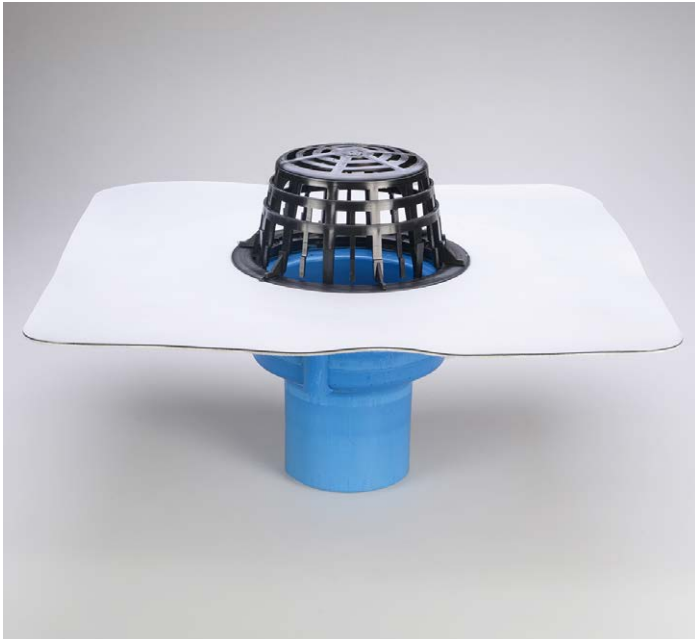
| Art. No | Drainage capacity* |
|--------------|--------------------|
| 3008, 3028.2 | 9,5 l/s (45 mm) |

| Image | Dimension Art. No. |
|-------|--|
| | Collar drain made of PUR vertical: DN 150 3008 |
| | Collar drain made of PUR vertical heatable (230V, cable length 0.8m): DN 150 3028.2 |
| | Extension element made of PUR up to 16 cm 3081 up to 23 cm 3083 |

*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

■ Compact Collar Drain

The value for money solution



Compact collar drain vertical, shown here with Wolflin collar

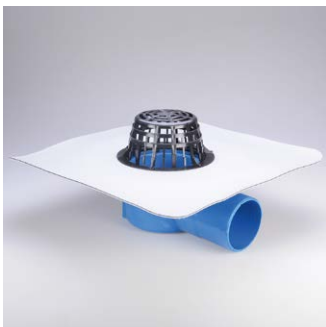
Compact collar drain made of PUR

heat insulated, CFC-free, with pebble trap and foam-filled connection collar (Bitumen, ECB, PVC or special foil). **Also heatable** via an integrated, self-regulating 230 V PTC heating element, performance up to max. 10 W. We recommend using the frost switch base set (Art.-No. 5922, see page 73) in connection with our heatable drains.

Extension element with feeder line and anti-backflow seal, suitable for all compact collar drains and universal drains.

The compact collar drain:

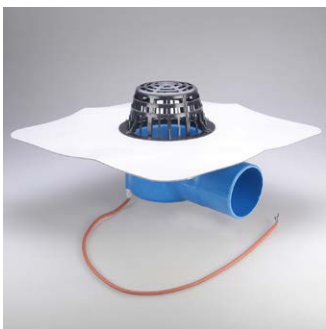
- with large adhesive collar
- adhesive collar made of bitumen, PVC- or special foil
- fully heat insulated
- extensive accessory range, e.g. terrace construction sets, pebble ring with lid etc.
- made of CFC-free PUR-Integral hard foam
- quality controlled production process in acc. with DIN 1253



Compact collar drain horizontal – particularly low construction height!



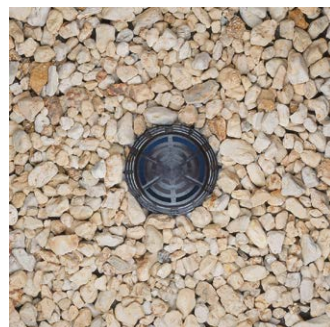
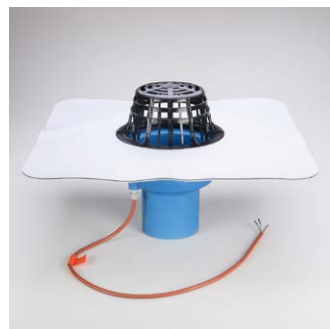
Extension element, available for insulating material up to a thickness of 35 cm.



The compact-collar drain DN 70/DN 100/DN 125 is available in both vertical and horizontal variations as a **heatable drain**.

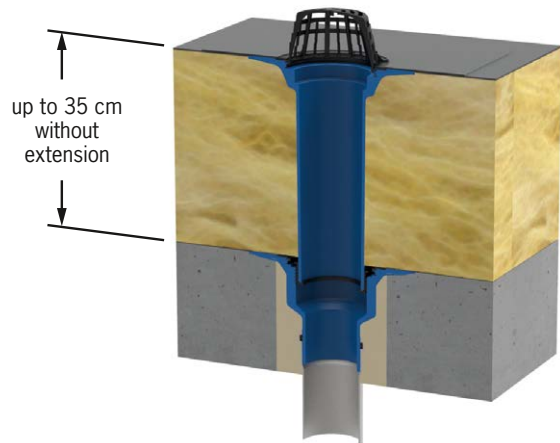
Heating is provided via a self-regulating PTC*heating element 230 V. That keeps everything ice-free even at extreme temperatures.

We recommend using the frost switch base set (Art.-No. 5922, see page 73) in connection with our heatable drains.

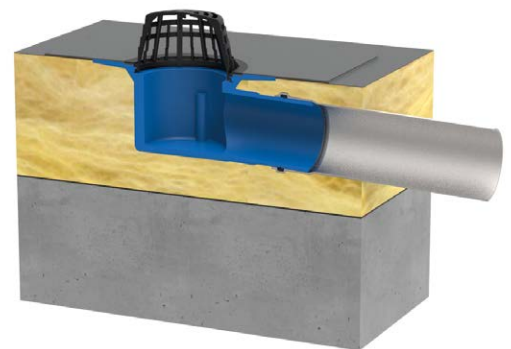


Drain with pebble trap in a flat roof

Installation example Compact collar drain



Compact collar drain vertical DN 100 with extension element in an insulated roof

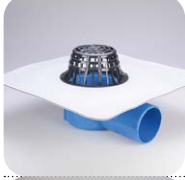


Compact collar drain horizontal DN 100 in an insulated roof

Dimension | Art. No.



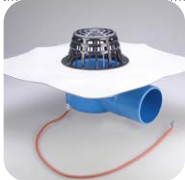
Compact collar drain (PUR)
vertical:
DN 70 **3102**
DN 100 **3104**
DN 125 **3106**



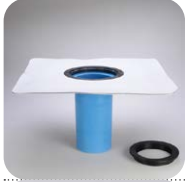
horizontal:
DN 70 **3112**
DN 100 **3114**
DN 125 **3115**



Compact collar drain (PUR)
vertical, **heatable** (230V,
cable length 0.8m):
DN 70 **3122.2**
DN 100 **3124.2**
DN 125 **3126.2**



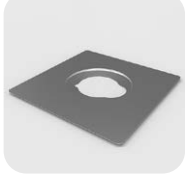
horizontal, **heatable** (230V,
cable length 0.8m):
DN 70 **3132.2**
DN 100 **3134.2**
DN 125 **3136.2**



Extension element (PUR)
up to 16 cm **3181**
up to 23 cm **3183**
up to 35 cm **3185**



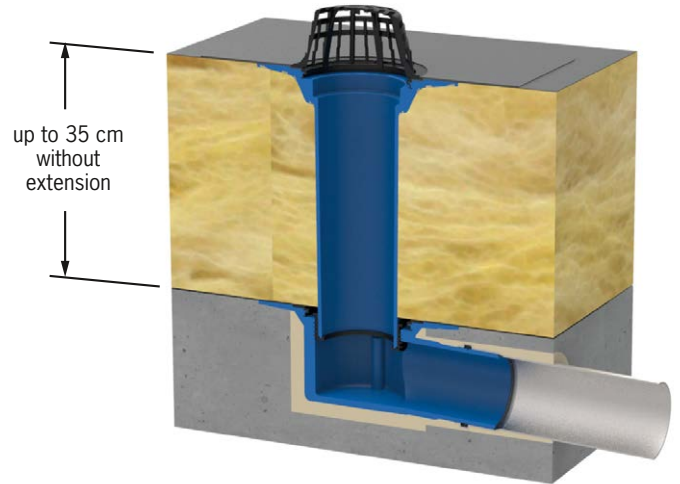
**Insulation piece for
extension elements**
2188



Collar plate
2189
suitable for the Universal or
compact collar range, shaped to
integrate the drain even with the
surface

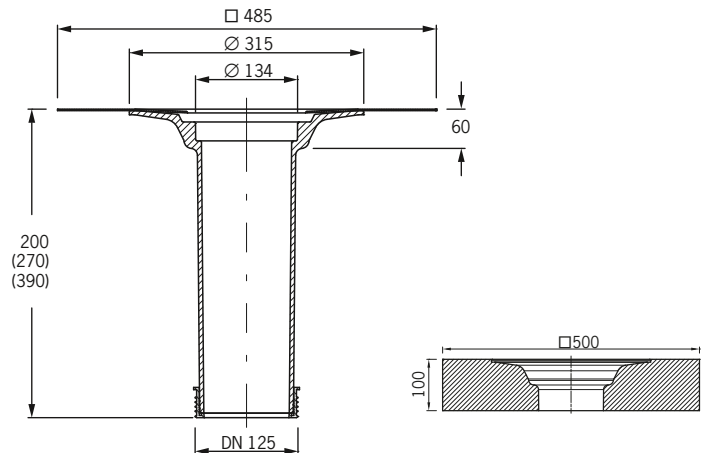
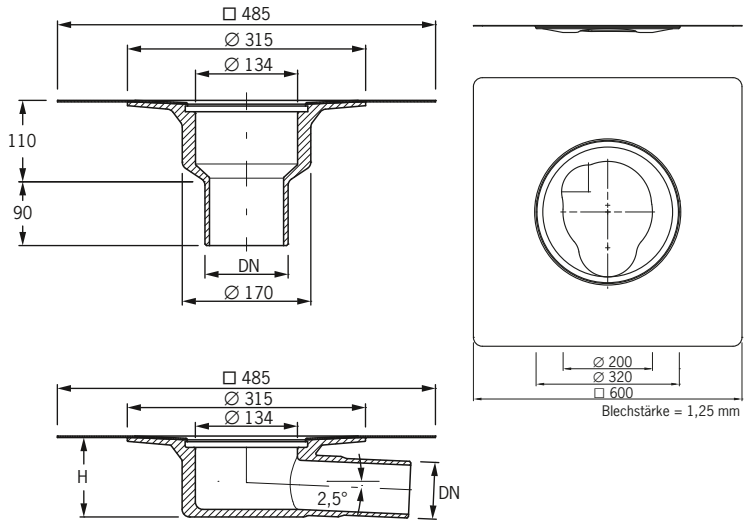
| Art.-No. | Nominal-Ø | Actual-Ø | H | Drainage capacity* |
|--|-----------|----------|-----|--------------------|
| Compact collar drains, vertical | | | | |
| 3102, 3122.2 | DN 70 | 75 | | 6,3 l/s (35 mm) |
| 3104, 3124.2 | DN 100 | 110 | | 6,8 l/s (35 mm) |
| 3106, 3126.2 | DN 125 | 125 | | 8,7 l/s (45 mm) |
| Compact collar drains, horizontal | | | | |
| 3112, 3132.2 | DN 70 | 75 | 105 | 5,8 l/s (35 mm) |
| 3114, 3134.2 | DN 100 | 110 | 140 | 6,1 l/s (35 mm) |
| 3115, 3136.2 | DN 125 | 125 | 160 | 8,5 l/s (45 mm) |

Installation example Compact collar drains



Compact collar drain horizontal DN 100 with extension element in an insulated roof (up to 35 cm without extension)

Technical data compact collar drains



*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeter/s)

Height 75 mm only!



Balcony drain horizontal DN 50 with clamp flange and small pebble trap

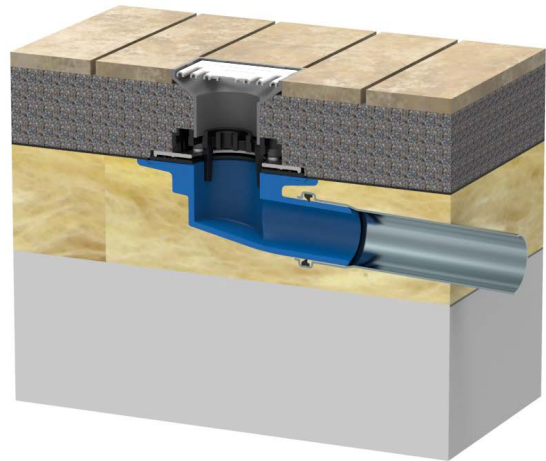
Balcony drains are universally deployable, fit any type of balcony and any roof. With the security clamp, any feeder line can be fitted with a flange.

■ Balcony Drain DN 50 with clamp flange/ adhesive collar

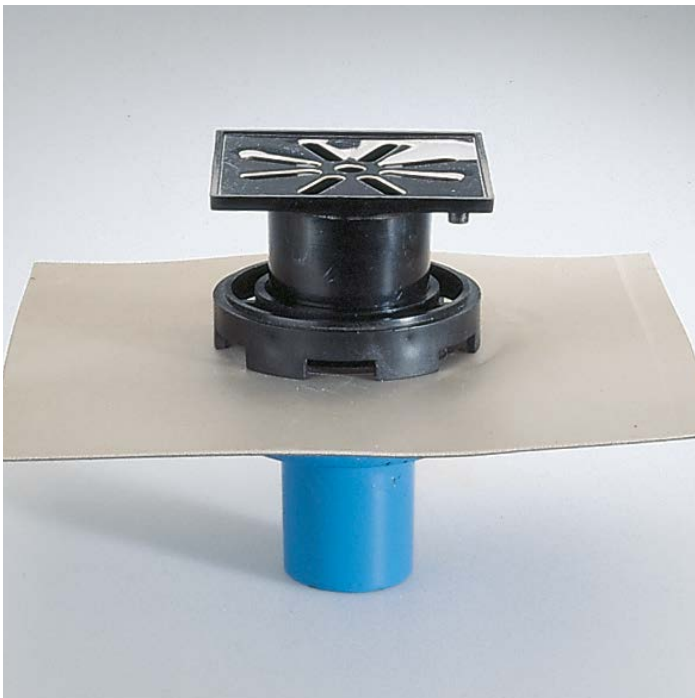
Balcony drain DN 50 made of PUR

CFC-free, with pebble trap and clamp flange or adhesive collar (bitumen, PVC or special purpose foil). The models with a clamp flange are fitted with a seal for flange pressing or antibackflow seal.

Installation example Balcony drain DN 50



Balcony drain horizontal DN 50 in the heat insulation with pebble trap and inlet piece in slabbed covering on the terrace.



Balcony drain, vertical DN 50, with adhesive collar, pebble trap and inlet piece, which is able to be walked upon. For use on balconies, for example.



Balcony drain, horizontal DN 50, with extension element with adhesive collar, pebble trap and inlet piece, which is able to be walked upon. For use on balconies, for example.

Balcony Drain DN 50 with accessories

Typ | Art. No.



Balcony drain DN 50 PUR
vertical:
Clamp flange **2500**
Adhesive collar **3500**



horizontal:
Clamp flange **2511**
Adhesive collar **3511**



Extension element made of PUR, for Balcony drains
Clamp flange **2580**
Adhesive collar **3580**

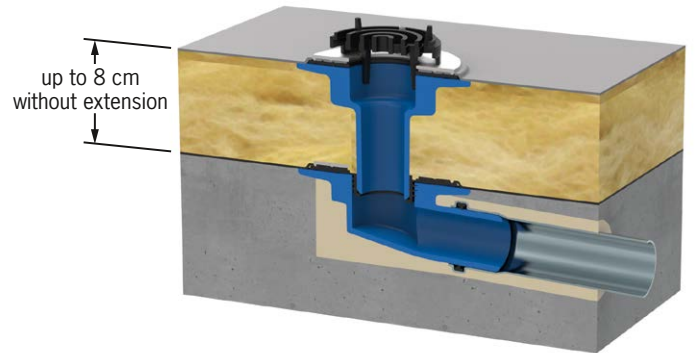
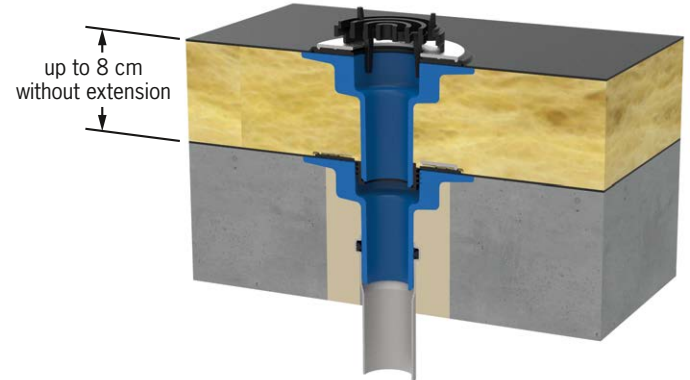


Inlet piece, made of PC
with stainless steel grating,
4,5 cm high **2590**
staged inlet piece, made of PC
with stainless steel grating,
10 cm high. **2591**



Small pebble trap, made of PP
2593

Installation example Balkon drains

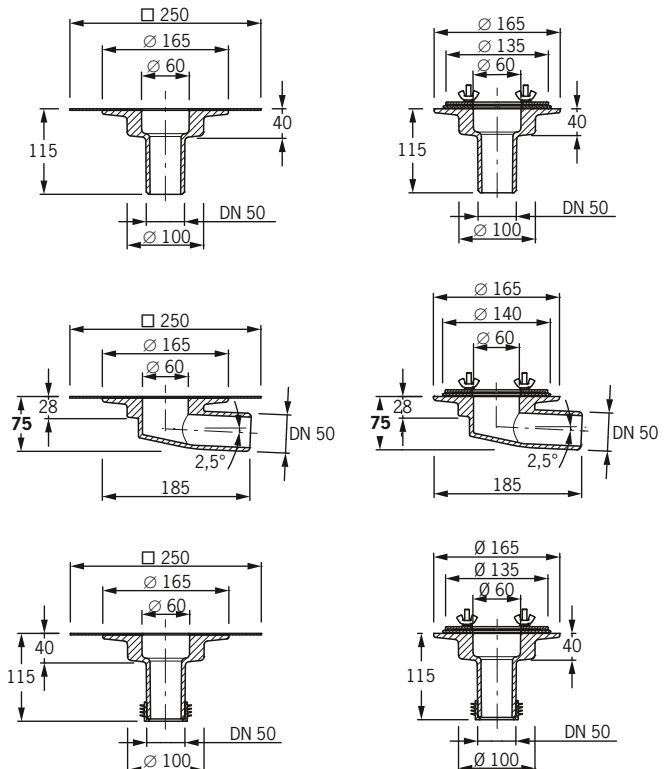
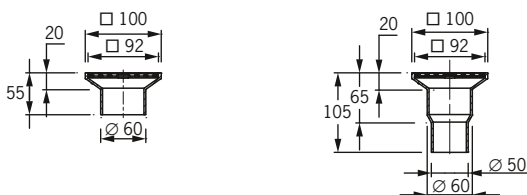


Balcony drain vertical resp. horizontal DN 50 with extension element in an insulated roof (up to 8 cm without extension)

Technical data Balcony drains

| Art. No | Drainage capacity* |
|-----------------------------------|--------------------|
| Balcony drains, vertical | |
| 2500 | 1,5 l/s (35 mm) |
| 3500 | 1,7 l/s (35 mm) |
| Balcony drains, horizontal | |
| 2511 | 1,5 l/s (35 mm) |
| 3511 | 1,7 l/s (35 mm) |

Technical data inlet piece



*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

■ Garage/Balcony Drain with accessories

Height 90 mm only!

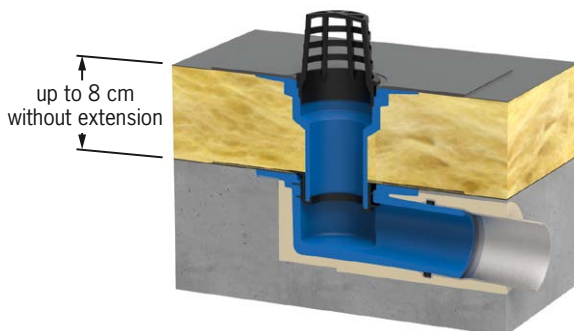


Garage/Balcony drain DN 70 made of PUR

- secure fixed/loose flange system with quadruple screwing or particularly securely fitted adhesive collar
- **Very low construction height!**
- A lot of practical accessories for the use in garage, balcony and terrace

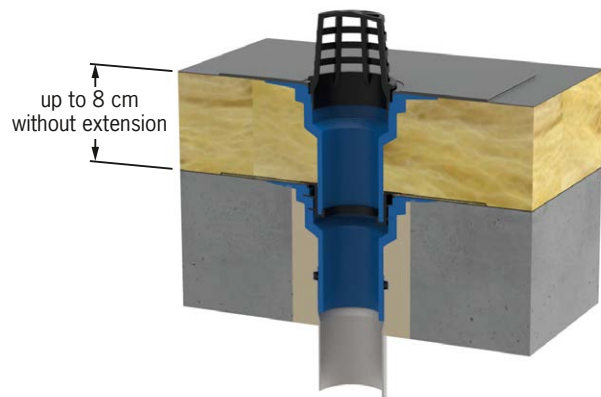
The **Garage/Balcony drains** distinguish themselves through their particularly small and compact appearance with a support diameter of DN 70; this is the case with the clamp flange and the adhesive collar version. The horizontal drain is especially suitable for many problematic situations on balconies, loggias and small roofs, due to its **particularly low construction height**.

Installation example 1

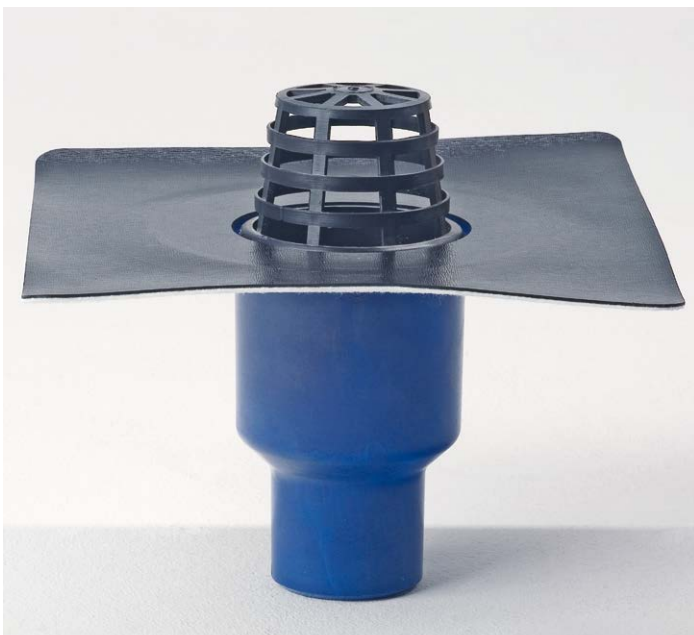


Garage/Balcony drain horizontal DN 70 with extension element in an insulated roof

Installation example 2



Garage/Balcony drain vertical DN 70 with extension element in an insulated roof

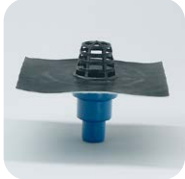


Garage/Balcony drain DN 50/70 and DN 70/100 made of PUR

- with dual function DN 50/70 resp. DN 70/100
- for getting DN 70, simply saw off the DN 50 support
- for getting DN 100, simply saw off the DN 70 support

Garage/Balcony Drain with accessories

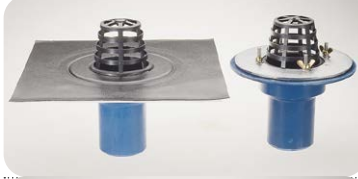
Dimension | Art. No.



Garagen/Balcony drain DN 50/70 made of PUR
vertical
Adhesive collar **3740**



Garagen/Balcony drain DN 70/100 made of PUR
vertical:
Adhesive collar **3741**



Garagen/Balcony drain DN 70 made of PUR
vertical:
Adhesive collar **3702**
Clamp flange **2702**



horizontal:
Adhesive collar **3712**
Clamp flange **2711**



Extension element DN 70 made of PUR
Adhesive collar **3780**
Clamp flange **2780**



Inlay grating round
Stainless steel **2794**
suitable for Art. No. 3740, 3741
made of PP **2794.P**
suitable for Art. 3702, 3712, 3780



Terrace construction set (black), small, can be walked on
2795
suitable for Art. No. 3740, 3741



Terrace construction set, can be driven upon
2797

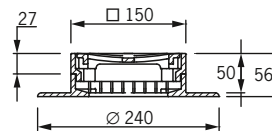
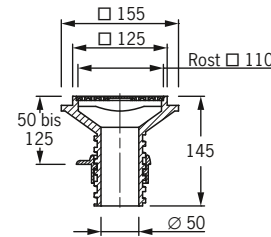
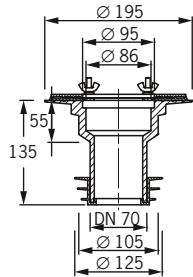
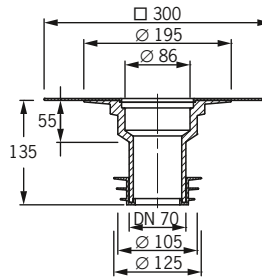
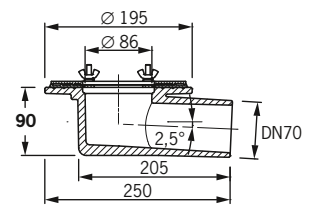
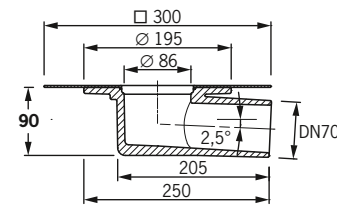
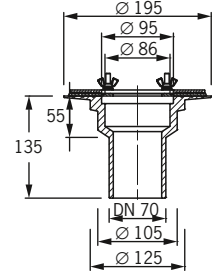
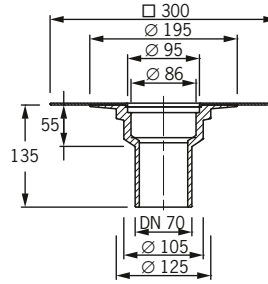
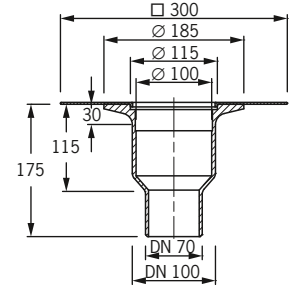
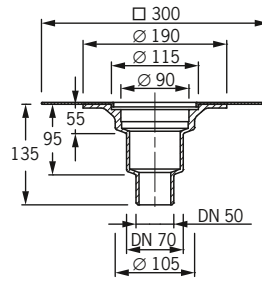


Balcony attachment made (PP)
suitable for all Garage/Balcony drains, except for Art. No. 3741
without odour trap **2790**
with odour trap **2791**
suitable for Art. No. 3741
without odour trap **2798**
with odour trap **2799**



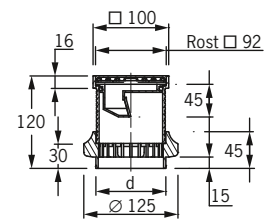
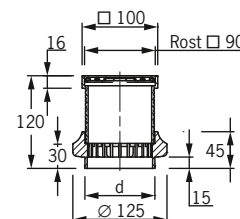
Geruchssperre
suitable for all Garage/Balcony drains, except for Art. No. 3741
Type I **5952.1**
Type II (for Art. 3741) **5952.2**

Technical data Garage/Balcony drains



| Art. No | Drainage capacity* |
|---------|---------------------|
| 3740 | 2,2/2,3 l/s (35 mm) |
| 3741 | 4,1/4,7 l/s (35 mm) |
| 3702 | 2,3 l/s (35 mm) |
| 2702 | 2,5 l/s (35 mm) |
| 3712 | 2,5 l/s (35 mm) |
| 2711 | 2,1 l/s (35 mm) |

| Art. No | d |
|------------|-----|
| 2790, 2791 | 92 |
| 2798, 2799 | 110 |



*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

■ Redevelopment Drains for redeveloping “in the pot”



Redevelopment drain made of PUR 157 for redeveloping “in the pot”

CFC-free, with pebble trap and lip seal; with clamp flange and flange pressing seal and coated connection collar (bitumen, PVC, special foil).



Trapezoidal drain DN 100



Redevelopment drain DN 90 made of aluminum

Grumbach offers a whole range of redevelopment drains suitable for every redevelopment case:

For example the redevelopment drain made of PUR 157

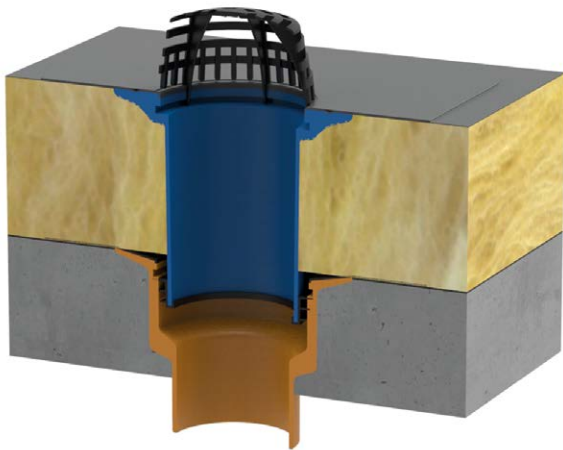
With this drain (with adhesive collar or clamp flange) it is possible to redevelop any kind of old drain with an internal diameter of 172 to 185 mm with anti-back flow protection. That covers most redevelopment cases.

Analogue statements are valid for the redevelopment drains made of PUR DN 125, 140, 170 and 200 (see p. 14).

Trapezoidal drain made of PUR

With the trapezoidal drain size DN 70/DN 100 it is possible to redevelop any kind of old drain with an internal diameter of 88 up to 105 mm or from 123 up to 135 mm with backflow protection – not just trapezoidal sheet roofs.

Installation example redevelopment “in the pot”



Redevelopment drain with connection collar and backflow seal in drain pot supplied

Redevelopment “in the pot”

is the name of the “traditional” renovation method with the tried and tested basic range of redevelopment drains made of PUR in DN 200, 170, 157, 140 and 125.

The range also includes the trapezoidal drains made of PUR in DN 100 and 70 as well as the garage drains made of PUR in DN 70 und 50. The connection between the redevelopment drain and the old drain takes place here (via a special made lip seal) in the pot of the old drain.

The measuring of the internal diameter of the pot of the old drain is an important prerequisite to finding the suitable redevelopment drain.

Redevelopment Drains for redeveloping "in the pot" **

Dimension | Art. No.



Redevelopment drain (PUR) DN 125

vertical, clamp flange:
DN 125 **2306**
pot inside-Ø: 140–150 mm



Redevelopment drain made of PUR DN 125

vertical, adhesive collar:
DN 125 **3306**
pot inside-Ø: 140–150 mm



Redevelopment drain made of PUR 140

vertical, clamp flange:
140 **2307**
pot inside-Ø: 155–165 mm



Redevelopment drain made of PUR 140

vertical, adhesive collar:
140 **3307**
pot inside-Ø: 155–165 mm



Redevelopment drain made of PUR DN 150

vertical, clamp flange:
157 **2308**
pot inside-Ø: 172–185 mm



Redevelopment drain made of PUR DN 150

vertical, adhesive collar:
157 **3308**
pot inside-Ø: 172–185 mm



Redevelopment drain made of PUR 170

vertical, adhesive collar:
170 **3329**
pot inside-Ø: 185–198 mm



Redevelopment drain made of PUR DN 200

vertical, adhesive collar:
200 **3309**
pot inside-Ø: 215–230 mm



Trapezoidal drain made of PUR

vertical:
DN 70 **2302**
pot inside-Ø: 88–105 mm

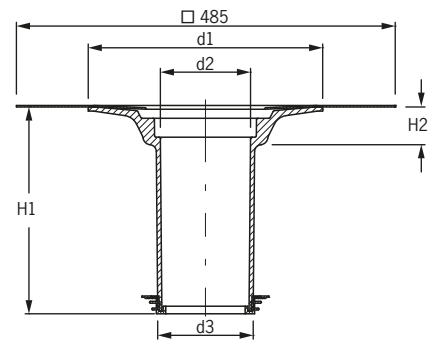
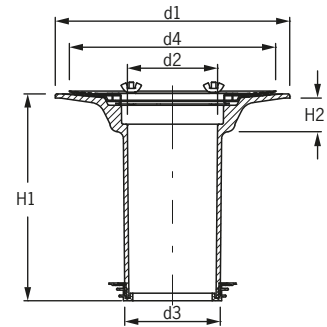
DN 100 **2304**
pot inside-Ø: 123–135 mm



Redevelopment drain made of aluminum

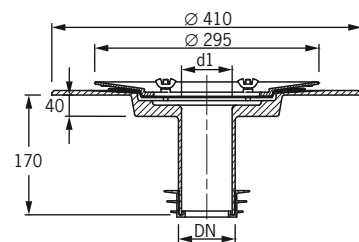
vertical:
DN 90 **2303**
pot inside-Ø: 100–115 mm
and pipes DN 100

Technical data redevelopment drains made of PUR



| Art. | d1 | d2 | d3 | d4 | H1 | H2 |
|------|-----|-----|-----|-----|-----|----|
| 2306 | 310 | – | 125 | 273 | 390 | 60 |
| 3306 | 310 | 118 | 125 | – | 390 | 60 |
| 2307 | 310 | 136 | 140 | 273 | 280 | 70 |
| 3307 | 310 | 130 | 140 | – | 280 | 70 |
| 2308 | 285 | 154 | 157 | 275 | 400 | 60 |
| 3308 | 250 | 146 | 157 | – | 400 | 60 |
| 3329 | 310 | 160 | 170 | – | 260 | 40 |
| 3309 | 340 | 190 | 200 | – | 260 | 70 |

Technical data Trapezoidal drain made of PUR



| Art. | DN | d1 | Drainage capacity* |
|------|-----|-----|--------------------|
| 2302 | 70 | 65 | 6,7 l/s (35 mm) |
| 2304 | 100 | 100 | 5,9 l/s (35 mm) |

*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters) ** Bei einer Sanierung können wir eine absolute »Rückstaudichtheit« nicht garantieren.

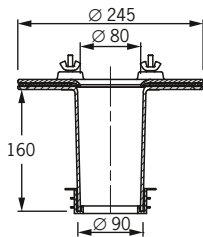
Redevelopment Drains for redeveloping old pipes**

Installation example redevelopment drain made of aluminum DN 90



Redevelopment drain made of aluminum DN 90 for the redevelopment of sleeveless pipes and roof drains DN 100 without applying extra insulation.

Technical data redevelopment drain made of aluminum DN 90



| Art. | DN | Actual Ø | Drainage capacity* |
|------|----|----------|--------------------|
| 2303 | 90 | 90 | 3,9 l/s (35 mm) |

“Pipe redevelopment” is the up-to-date redevelopment method

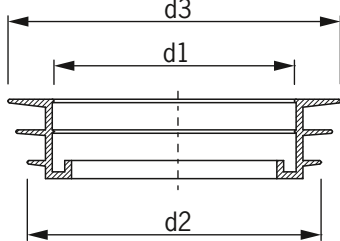
The redevelopment drains made of PUR

36/56/88/103/110 can be simply inserted into the old drains or pipes DN 50, 70, 100 or 125. **The extra-long supports** reach through the pot of the old drain into the downpipe or the support of the old drain – the internal diameter of the pot of the existing drain is not longer relevant. That is the decisive advantage in comparison with the “traditional” redevelopment drains (Pages 13 and 14)! **The DIN requirements are still fulfilled despite the reduction of the nominal width in most cases.**



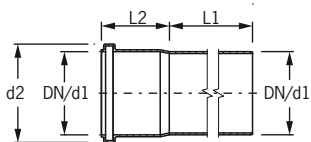
Accessories for all redevelopment drains

Lip seal for redevelopment



| drain Art. No. | d1 (DN) | d2 | d3 | Range (pot-inside-Ø) | Dimension Art. No. |
|----------------|---------|------|-----|----------------------|------------------------|
| 3311 | 36 | 45 | 52 | 42–45 mm | DN 36 3311.D |
| 3313 | 56 | 76 | 85 | 65–80 mm | DN 56 3313.D |
| drain DN 70 | 70 | 83,5 | 95 | 84–90 mm | DN 70 2380 |
| 2302 | 70 | 95,5 | 116 | 88–105 mm | DN 70 2382 |
| 3315/2303 | 88/90 | 105 | 122 | 100–115 mm | DN 88/90 3315.D |
| drain DN 90 | 90 | 110 | 121 | 95–105 mm | DN 90 2381 |
| 3317 | 103 | 127 | 134 | 117–126 mm | DN 103 3317.D |
| 2304, 3314 | 110 | 130 | 150 | 123–135 mm | DN 100 2384 |
| 2306, 3306 | 125 | 142 | 167 | 140–150 mm | DN 125 2386 |
| 2307, 3307 | 140 | 158 | 179 | 155–165 mm | DN 140 2307.D |
| 2308, 3308 | 150 | 175 | 212 | 172–185 mm | DN 150 2388 |
| 3329 | 170 | 190 | 210 | 185–198 mm | DN 170 3329.D |
| 3309 | 200 | 217 | 241 | 215–230 mm | DN 200 2389 |

HT-pipe with sleeve (length 0,5 m)



| DN | d1 | d2 | L1 | L2 | Dimension Art. No. |
|-----|-----|-----|-----|-----|----------------------|
| 50 | 50 | 62 | 500 | 63 | DN 50 2390 |
| 70 | 75 | 88 | 500 | 67 | DN 70 2391 |
| 90 | 90 | 105 | 500 | 70 | DN 90 2393 |
| 100 | 110 | 125 | 500 | 80 | DN 100 2392 |
| 125 | 125 | 144 | 500 | 90 | DN 125 2394 |
| 150 | 160 | 183 | 500 | 100 | DN 150 2395 |

Redevelopment Drains for redeveloping old pipes**

Dimension | Art. No.



**Redevelopment drain
made of PUR 36**
vertical:
36 **3311**
Redeveloping old drains DN 50



**Redevelopment drain
made of PUR 56**
vertical:
56 **3313**
Redeveloping old drains DN 70



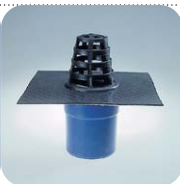
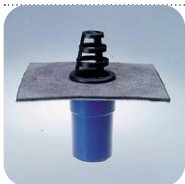
**Redevelopment drain
made of PUR 88**
vertical:
88 **3315**
Redeveloping old drains DN 100



**Redevelopment drain
made of PUR 103**
vertical:
103 **3317**
Redeveloping old drains DN 125

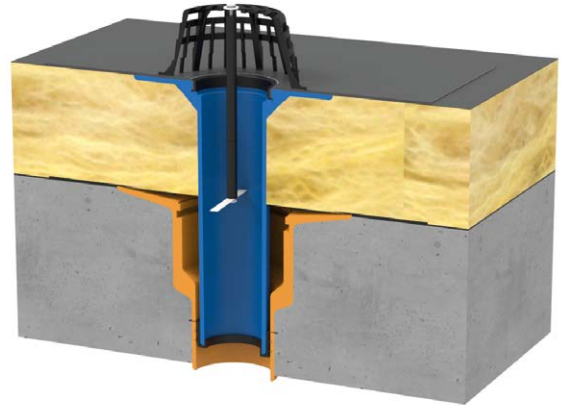


**Redevelopment drain
made of PUR 110 (DN 100)**
vertical:
110 **3314**
suitable for pipes DN 100 with
sleeve, therefore without seal



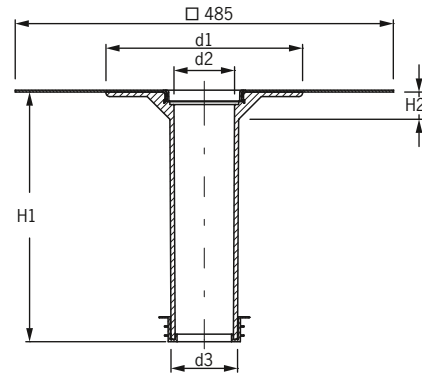
Garage drain made of PUR
vertical:
DN 50 **3300**
DN 70 **3302**

Installation example pipe redevelopment



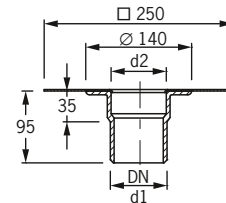
Redevelopment drain with connection collar and backflow seal in the maintained drain support

Technical data Redevelopment drains made of PUR



| Art. | d1 | d2 | d3 | H1 | H2 | Drainage capacity* |
|-------------|-----|-----|-----|-----|----|--------------------|
| 3311 | 105 | 26 | 36 | 110 | 6 | 1,7 l/s (35 mm) |
| 3313 | 260 | 51 | 56 | 325 | 25 | 3,2 l/s (35 mm) |
| 3315 | 260 | 80 | 88 | 325 | 35 | 4,5 l/s (35 mm) |
| 3317 | 260 | 97 | 103 | 325 | 40 | 3,3 l/s (35 mm) |
| 3314 | 260 | 100 | 110 | 300 | 35 | 4,6 l/s (35 mm) |

Technical data Garage drain made of PUR



| Art. | DN | d1 | d2 | Drainage capacity* |
|-------------|----|----|----|--------------------|
| 3300 | 50 | 50 | 48 | 1,9 l/s (35 mm) |
| 3302 | 70 | 75 | 83 | 1,7 l/s (35 mm) |

** Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters) * * Bei einer Sanierung können wir eine absolute »Rückstau-Dichtheit« nicht garantieren.

■ Ventilation redevelopment, roof and small roof vents

NEW!



Redevelopment vent made of PUR, including:

Water deflector, made of PE

Ventilation pipe, made of PE

Redevelopment vent

Lip seal

Grumbach redevelopment vent made of PUR

heat insulated, CFC-free, with lip seal; adhesive flange with foam-filled connection collar (bitumen, PVC or special foil), backflow seal, PVC pipe and water deflector.



The Grumbach Redevelopment vent

is suitable for backflow-free connection of drain connections onto sleeveless pipes and into the sealing surface.

Installation example redevelopment vent

Ventilation inlet redevelopment insulated roof construction

Top part:
New ventilation pipe with adhesive collar and water deflector inserted in redevelopment vent.

Bottom part:
Redevelopment vent inserted into old sleeveless ventilation pipe



Grumbach roof vent made of PUR

with broad adhesive collar and heavy rainproof cover. This ensures that the gap in the cold roof is well ventilated. See next page.



Roof vent DN 200



Roof vent with connection collar, on request.

Ventilation redevelopment, roof and small roof vents

Dimension | Art. No.



**Redevelopment vent
56/88/103 made of PUR**
56 for DN 70 **5161**
88 for DN 100 **5163**
103 for DN 125 **5165**

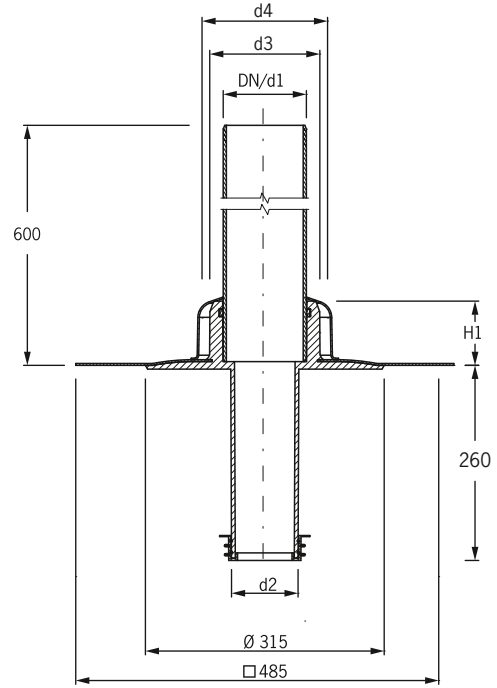


Roof vent DN 200 made of PUR
with rain cap **5157**
without rain cap **5159**



Cold roof vent with connection collar
DN 70 **5151**
DN 100 **5152**
DN 125 **5153**
DN 150 **5156**

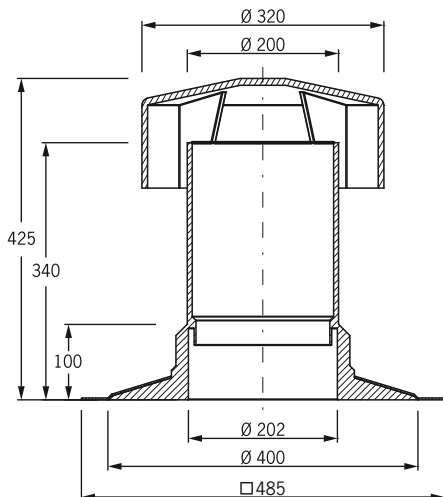
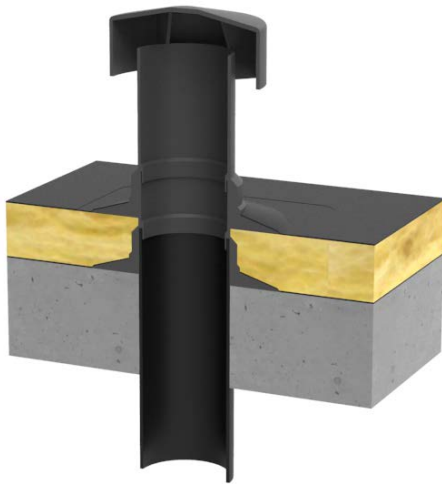
Technical data redevelopment vent



| Art. | DN | d1 | d2 | d3 | d4 | H1 |
|------|-----|-----|-----|-----|-----|----|
| 5161 | 70 | 75 | 56 | 112 | 131 | 75 |
| 5163 | 100 | 110 | 88 | 140 | 166 | 85 |
| 5165 | 100 | 110 | 103 | 140 | 166 | 85 |

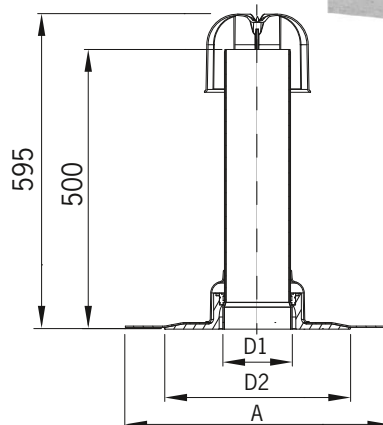
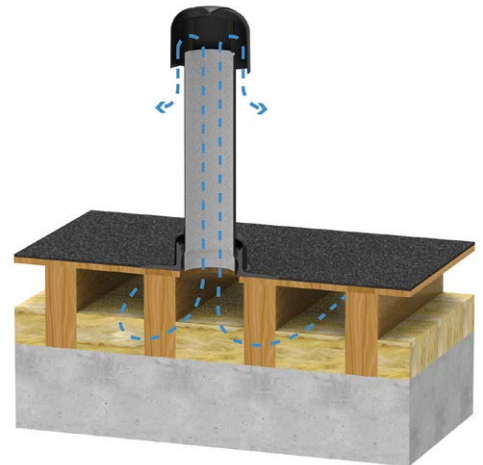
Installation example und technical data roof vent DN 200

Roof vent DN 200 applied on a second, shortened roof vent DN 200, inserted into an insulated roof.



Installation example und technical data cold roof vent

Cold roof vent for ventilation in a roof seal of a ventilated roof construction.



| Art. | DN | D1 | D2 | A |
|------|-----|-----|-----|-----|
| 5151 | 70 | 75 | 310 | 485 |
| 5152 | 100 | 110 | 300 | 485 |
| 5153 | 125 | 125 | 350 | 485 |
| 5156 | 150 | 160 | 400 | 500 |

Ventilation for roofs with and without insulation

Grumbach adhesive collars

with lip seal, fit onto all plastic pipes

Rain cap made of PE resp. PA

Water deflector
made of PE,
included in a scope
of delivery of the
ventilation pipe

Adhesive collar
made of PUR with
selectable connec-
tion collar (two pic-
es are requested
for insulated roofs)

Ventilation pipe made of PE



The adhesive collar

made of PUR, CFC-free with
foamfilled connection collar, PVC or
special foil).

Water deflector

serves to protect the lip seal on the
adhesive collar/flange from effects of
the environment.

The rain cap

is suitable for ventilation pipes. It is
required for room ventilation.

Ventilation pipes

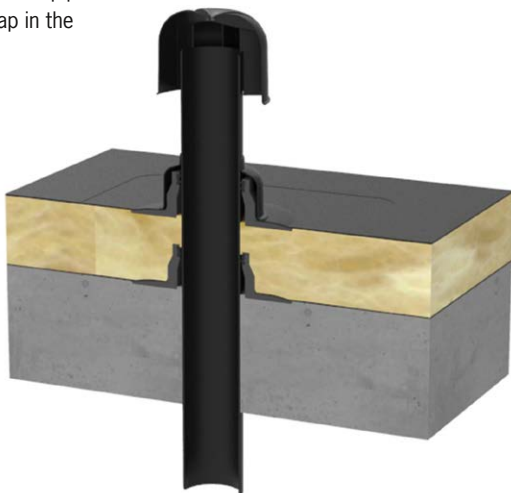
Simply install the ventilation pipe
up to the required height above
the roof and dependent on the roof
construction add an adhesive flange
or adhesive collar.



Ventilation for insulated roof

Installation example insulated roof vent

Two adhesive collars plus
water deflector fitted
onto a PE ventilation pipe
including rain cap in the
insulated roof



Energy lead-in made of PE

Energy lead-in made of PE

For the implementation of all kinds
of energy lines through the flat roof
seal. Also suitable for ventilation of
the whole pipe cross section. Flat
roof seal. Suitable for the ventilation
pipes made of PE.



Protection cap made of EPDM

- for energy lead-ins
DN 70–DN 150, easy to apply
- 6 sealing lip for secure attach-
ment
- protects against the ingress of dirt
and animals/insects
- prevents moisture and air ex-
change, waterproof
- with prefabricated cutting aids for
the implementation of different
cable diameters

Ventilation for roofs with and without insulation

Dimension | Art. No.



| Adhesive collar made of PUR | |
|-----------------------------|-------------|
| DN 70 | 5102 |
| DN 100 | 5104 |
| DN 125 | 5106 |
| DN 150 | 5108 |



| Ventilation pipe made of PE | |
|-----------------------------|-------------|
| DN 70 | 5122 |
| DN 100 | 5124 |
| DN 125 | 5126 |
| DN 150 | 5128 |



| Rain cap made of PE resp. PA | |
|------------------------------|-------------|
| DN 70 | 5131 |
| DN 100 | 5133 |
| DN 125 | 5135 |
| DN 150 | 5137 |



| Protective basket made of PE | |
|------------------------------|---------------|
| DN 70 | 3492.S |
| DN 100 | 3493.S |
| DN 125 | 3498 |



| Extension piece made of (PE) for energy inlet | |
|---|-------------|
| DN 70 | 5142 |
| DN 100 | 5144 |
| DN 125 | 5146 |
| DN 150 | 5148 |

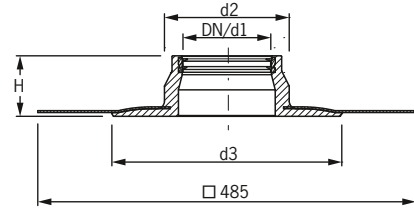


| Protection cap made of EPDM | |
|-----------------------------|-------------|
| DN 70 | 5342 |
| DN 100 | 5344 |
| DN 125 | 5346 |
| DN 150 | 5348 |



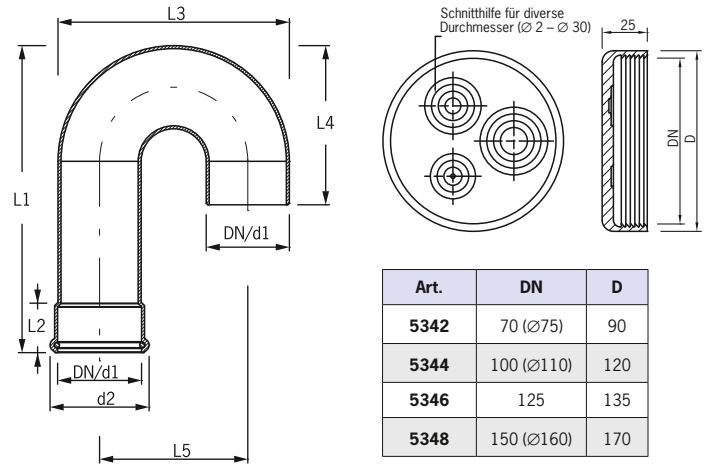
| Condensation drain (Attachment) | |
|---------------------------------|-------------|
| DN 100 | 5145 |

Technical data adhesive collars/flanges



| Art. | DN | d1 | d2 | d3 | d4 | H |
|-------------|-----|-----|-----|-----|----|----|
| 5102 | 70 | 75 | 160 | 310 | – | 80 |
| 5104 | 100 | 110 | 165 | 300 | – | 85 |
| 5106 | 125 | 125 | 185 | 355 | – | 70 |
| 5108 | 150 | 160 | 200 | 395 | – | 75 |

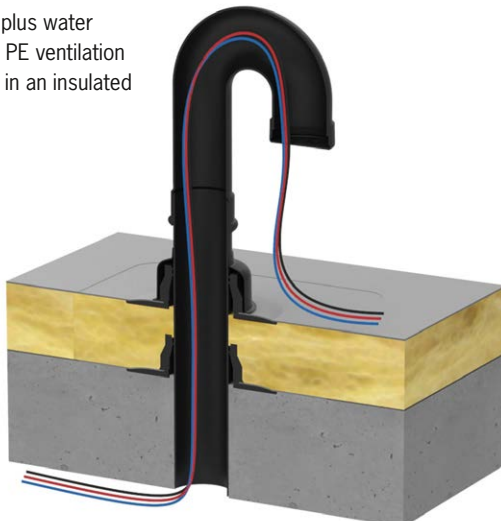
Technical data energy inlet and protection cap



| Art. | DN | D |
|-------------|------------|-----|
| 5342 | 70 (ø75) | 90 |
| 5344 | 100 (ø110) | 120 |
| 5346 | 125 | 135 |
| 5348 | 150 (ø160) | 170 |

Installation example energy inlet

Two adhesive collars plus water deflector placed on a PE ventilation pipe incl. energy inlet in an insulated roof.



| Art. | DN | d1 | d2 | L1 | L2 | L3 | L4 | L5 |
|-------------|-----|-----|-----|-----|----|-----|-----|-----|
| 5142 | 70 | 75 | 95 | 340 | 65 | 215 | 165 | 140 |
| 5144 | 100 | 110 | 130 | 410 | 65 | 310 | 215 | 196 |
| 5146 | 125 | 125 | 150 | 345 | 65 | 345 | 210 | 220 |
| 5148 | 150 | 160 | 190 | 400 | 65 | 450 | 255 | 290 |

■ Ventilation for roofs with and without insulation

Condensation drain

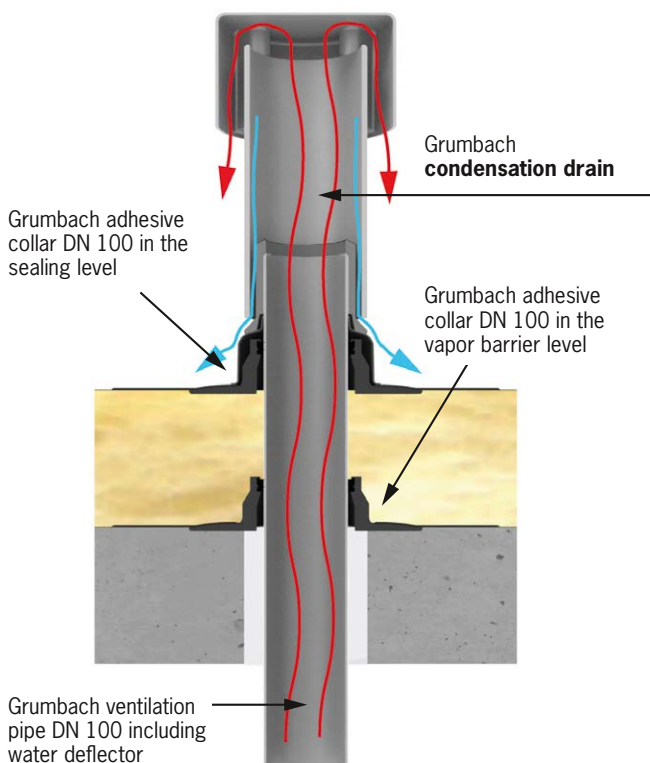
- simple vertical attachment, which can be slipped on, for ventilation pipe DN 100 on flat roofs to remove warm damp air
- for the ventilation of inside spaces, e.g. bathrooms or kitchens with extractor fans
- prevents condensation from flowing back into the ventilation pipes
- condensation from the inside of the attachment is safely drained onto the roof
- including condensation drain, ventilation pipe DN 150 (400 mm long) and rain cap DN 150



Grumbach condensation drain including: condensation drain ring, ventilation pipe DN 150 (400 mm long) and rain cap DN 150

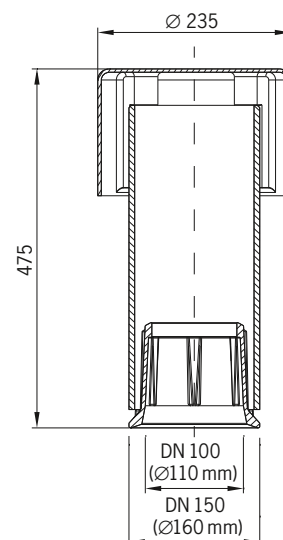
Installation example condensation drain

Ventilation pipe DN 100 in a flat roof in an insulated roof construction incl. fitted Grumbach condensation drain



Practical example:
Ventilation pipe DN 100 with
two adhesive collars DN 100
with Grumbach condensation
drain attached

Technical data condensation drain



■ Collar Drain DN 200

It doesn't get any bigger!



Collar drain DN 200 made of PUR

CFC-free, with pebble trap incl. fastening material and foam-filled connection collar (bitumen, PVC or special foil).

Extension element with connection collar (bitumen, PVC or special foil) and anti-back flow seal, suitable for the collar drain DN 200.

Securing groove + pebble trap = secure pebble collection

The securing groove ensures that the connection between the body of the drain and the pebble trap is permanently secure.

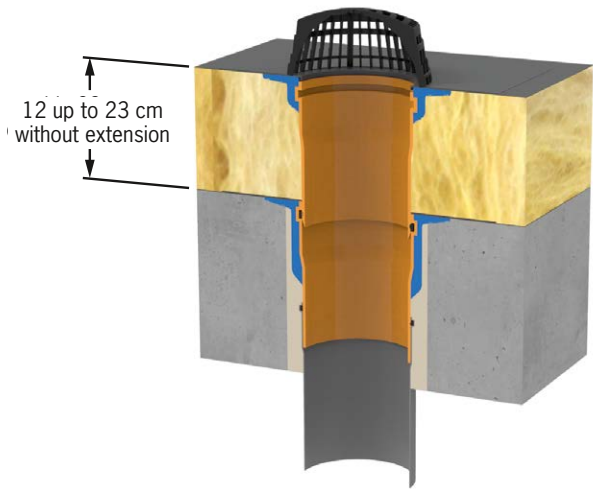
Securing groove + anti-backflow seal = Secure backflow prevention

If base elements and extensions are used, as in e.g. insulated roofs, then the securing groove of the base element would be connected with the anti-backflow seal. The anti-backflow seal, which was specially developed for the collar drain, can be securely fastened to the securing groove.

If the extension element is fitted into the base element, then the required backflow prevention is provided.

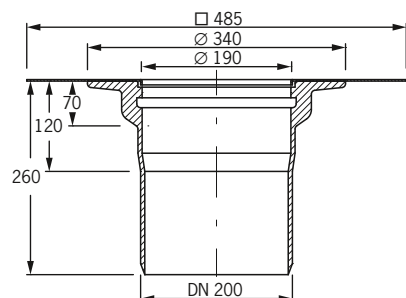
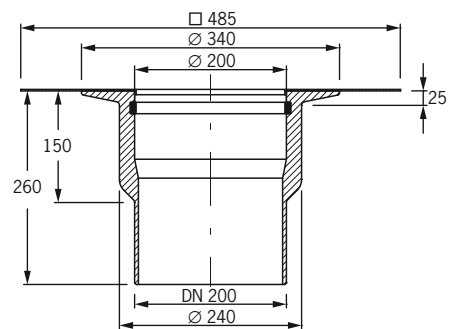
The seal cannot slip during this process as the seal always sits correctly.

Installation example collar drain DN 200



Collar drain vertical DN 200 with extension element in an insulated roof

Technical data collar drain DN 200



Dimension | Art. No.

Collar drain made of PUR

vertical:
DN 200 **3009**



Extension element made of PUR

DN 200
12 up to 23 cm **3084**



■ Combi Drain Type I for ventilation *and* Drainage

NEW!

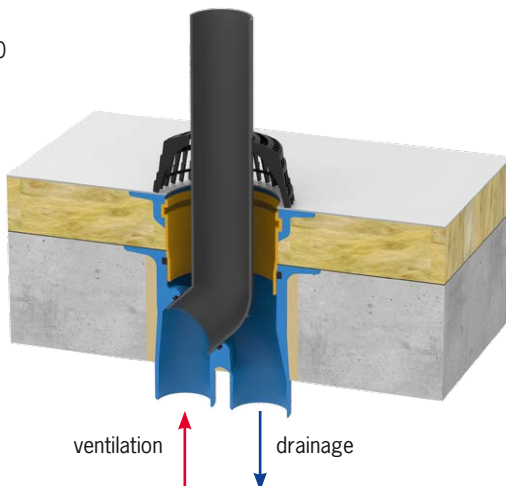


One hole for drainage and ventilation

The lesser the holes, the better the roof. This is why the combination drain has been used in many roofs for over 30 years!

Installation example: Ventilation and drainage

Combi drain DN 100 with extension element in an insulated roof, for simultaneous ventilation and drainage in the warm roof.



Combi drain made of PUR

allows down pipe ventilation and drainage through one roof lead-in; heat insulated, CFC-free, with pebble trap, combi seal for flange pressing/back flow prevention, clamp flange and ventilation pipe DN 100.

Extension element heat insulated, CFC-free, with clamp flange and flange press seal. Suitable for combi drain.

Combi drain Type I: two become one

Rain and drain pipes are placed side by side up to the roof and require two holes to be made in the roof for drainage and ventilation.

To be able to save drilling through the roof a second time, Grumbach offers the **combi drain type I**. The rainwater flows through the drain as usual. The second pipe, which is fed through the drain pot, ventilates the sanitary drain pipe. The combi drain is kept ice free in winter by rising gases.

Result: there is no need to make and seal a second hole in the roof and no supplementary heating is required.



Dimension | Art. No.

**Combi drain type I
made of PUR**

vertical:
DN 100/100 **3220**

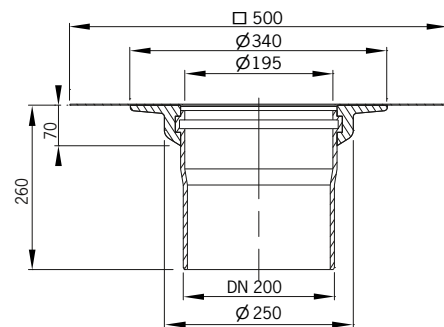
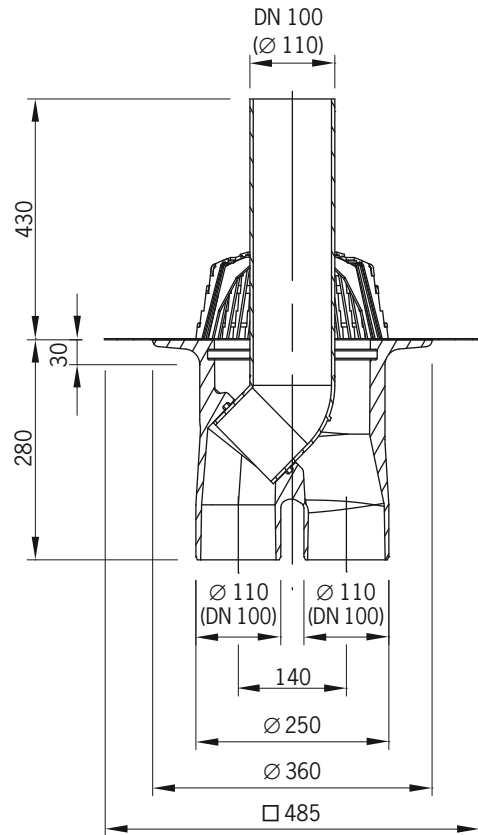
Drainage capacity*:
9,4 l/s (35 mm)

**Extension element
made of PUR**

DN 200, 12 up to 23 cm
3084

NEW!


Technical Data



Drainage capacity in l/s at accumulation height in millimeters

| Accumulation height | 15 mm | 25 mm | 35 mm | 45 mm | 55 mm | 65 mm |
|---------------------|-------|-------|-------|-------|-------|-------|
| Drainage capacity | 3,0 | 5,9 | 9,4 | 14,1 | 16,9 | 18,0 |

*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

■ Combi Drain II NEW!

for main *and* emergency Drainage

2 in 1



The emergency drainage pipe made of sturdy PE pipe fittings is simply inserted into the combi drain type II. When ordering, the pipe is manufactured in the required length depending on the existing extension or the desired accumulation height.

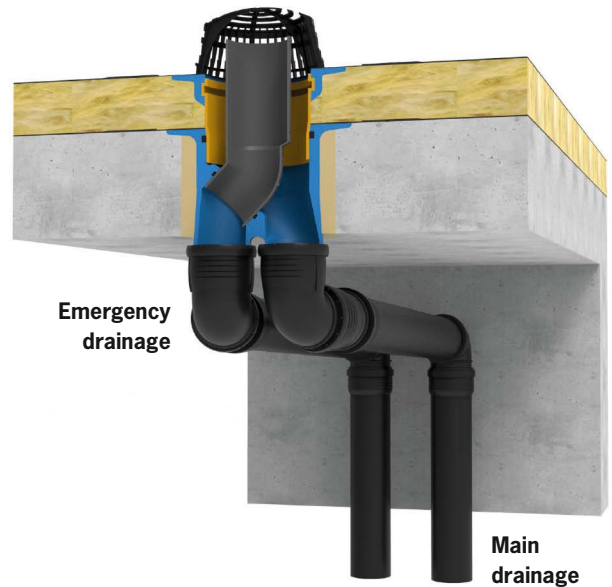
Combi drain type II made of PUR

Efficient 2-in-1 system for combined main and emergency drainage through **one** ceiling opening; thermally insulated, CFC-free, with gravel trap, emergency drainage pipe and firmly cast-on sealing collar.

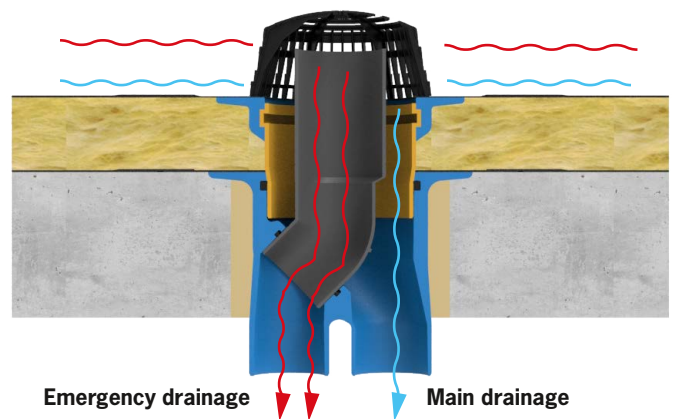
The proven principle of the Combi drain type I is now also used for main and emergency drainage through a ceiling opening.

The emergency drainage pipe is simply inserted into the drain. The gravel trap protects both drains at the same time. Every hole less makes a roof better!

Installation example combi drain type II



Functional principle of combi drain II (main / emergency drainage)



Dimension | Art. No.

NEW!



Combi drain type II made of PUR
vertical:
DN 100/100 **3221**
Drain. capacity*: 9,4 l/s (35 mm)



Extension element made of PUR
DN 200, 12 up to 23 cm
3084

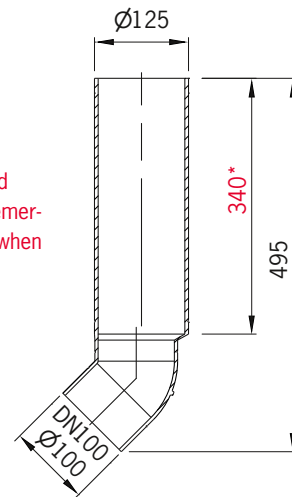
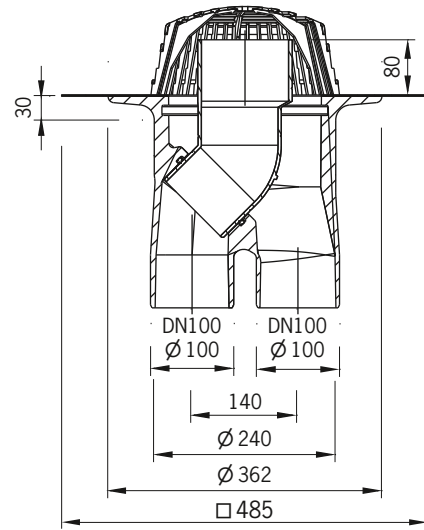


Emergency drainage pipe
made of sturdy PE pipe fittings
(Included in delivery)



Emergency drainage pipe
For use with extension element (included in delivery), please specify desired length when ordering.

Technical Data



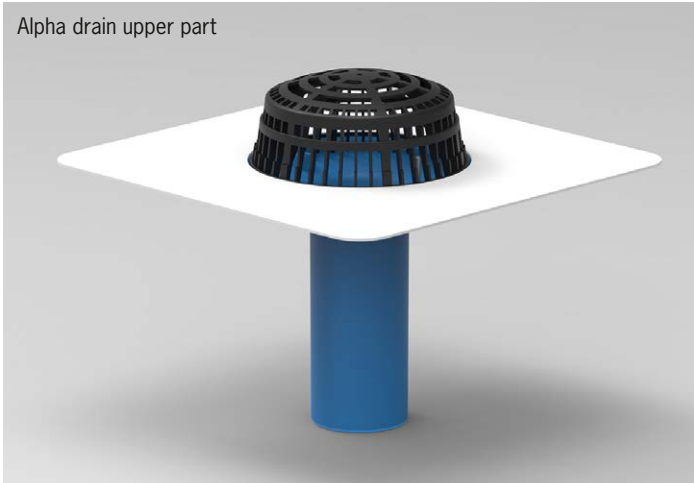
*please specify desired length/height of the emergency drainage pipe when ordering.



| Drainage capacity in l/s at accumulation height in millimeters | | | | | | |
|--|-------|-------|-------|-------|-------|-------|
| | 15 mm | 25 mm | 35 mm | 45 mm | 55 mm | 65 mm |
| Main drainage | 3,0 | 5,9 | 9,4 | 14,1 | 16,9 | 18,0 |
| Emergency drainage | 2,3 | 4,5 | 7,0 | 11,1 | 15,0 | 18,0 |

*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

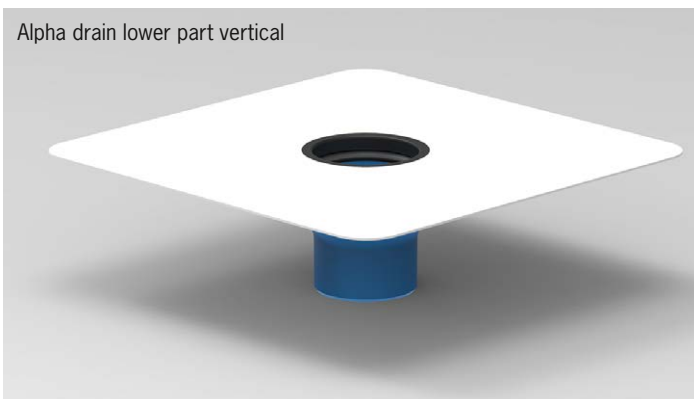
Alpha drain upper part



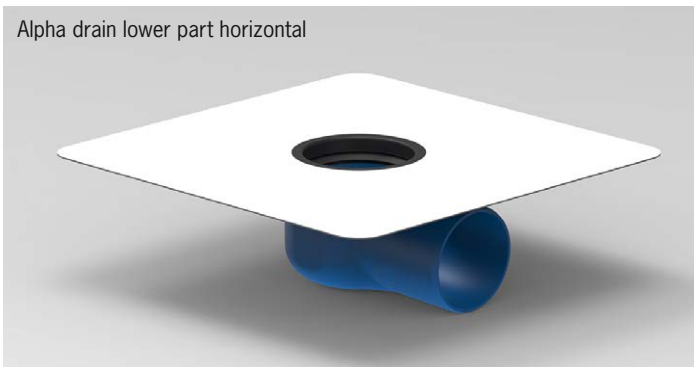
The Alpha drain made of PUR – an awesome two-piece made of high-quality, CFC-free polyurethane rigid integral foam (PUR). Maximum drainage with minimal ceiling openings.

- The lower part of the drain has only the maximum necessary diameter for every available nominal DN size and therefore only requires minimal ceiling openings.
- Each drain lower part has a push-in sleeve on the top with the same DN nominal width as its socket diameter.
- This gives the drain upper part a secure and firm hold as well as absolute backflow protection and allows many flexible uses.
- The upper part of the drain has both a long outlet connection in DN nominal width for high insulation thicknesses and a flat inlet plate for low insulation structures.
- The inlet area, which is uniformly large for all nominal widths, ensures a high drainage capacity.
- With an extra large and stable pebble trap to protect the rainwater downpipes from clogging.
- The use of upper and lower parts of the drain independently of each other also allows a wide range of possible uses due to the consistent design in DN nominal widths.
- Available with all standard roofing membrane connection sleeves.

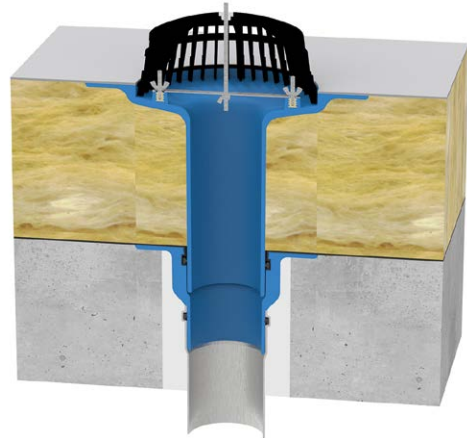
Alpha drain lower part vertical



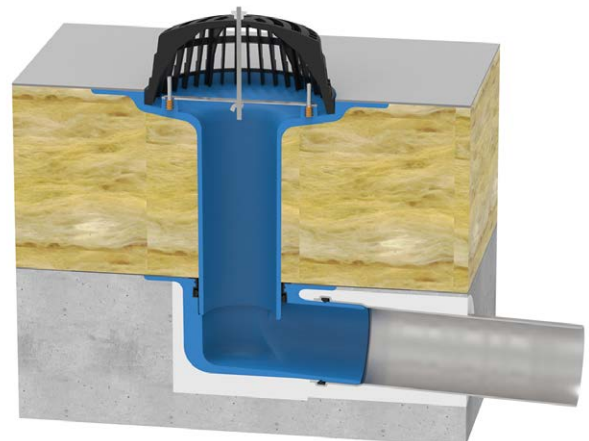
Alpha drain lower part horizontal



Installation examples



Alpha drain lower part vertical with inserted upper part in the warm roof.



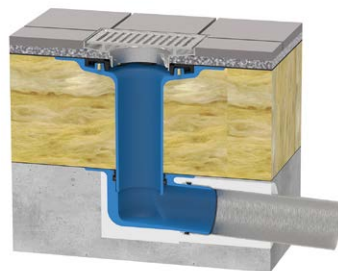
Alpha drain lower part horizontal with inserted upper part in the warm roof.

Accessories



Alpha adapter ring made of PUR for the Alpha drain, upper part

- The Alpha adapter ring is inserted into the upper part of the Alpha drain and is used to accommodate either terrace construction kits or insert screens with a precise fit.



Installation example

Alpha drain upper part in conjunction with drain adapter ring and walk-on terrace construction kit in the warm roof with terrace structure

Alpha Drain (formerly known as Eco Drain) with new supplements and accessories

Dimension | Art. No.

Alpha drain made of PUR (upper part)

DN 70 **3282**
 DN 100 **3284**
 DN 125 **3286**

Alpha drain made of PUR (lower part), vertical

DN 70 **3202**
 DN 100 **3204**
 DN 125 **3206**

Alpha drain made of PUR (lower part), horizontal

DN 70 **3232**
 DN 100 **3234**
 DN 125 **3236**

Alpha adapter ring (PUR)

suitable for the Alpha drain top part to accommodate insert screens or terrace kits
3287

Terrace construction kit can be walked on (black)

height adjustable 60–150 mm
 complete with end sieve, without odour trap
5902

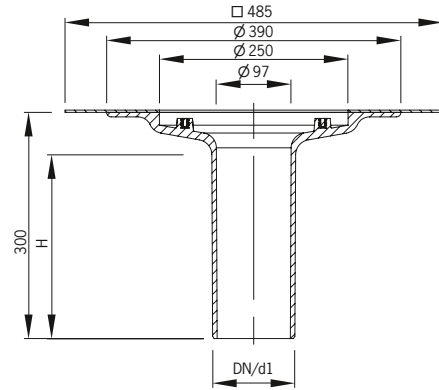
Terrace construction kit can be walked on

5900

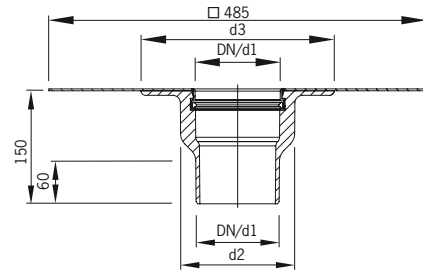
Stainless steel insert sieve

Ø 160 mm **3449.S**

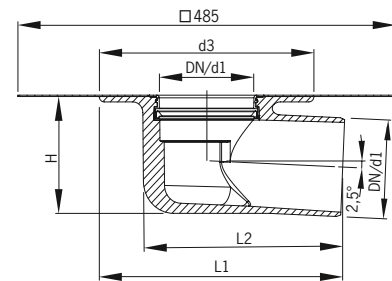
Technical data Alpha drain



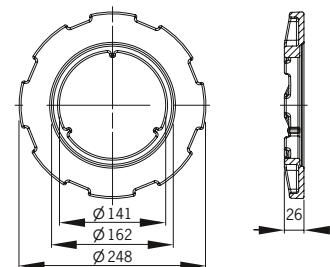
Alpha drain, upper part



Alpha drain, lower part vertical



Alpha drain, lower part horizontal



Alpha adapter ring

| Art.-No. | DN | d1 | d2 | d3 | H | L1 | L2 | Drainage capacity* |
|---|-----|-----|-----|-----|-----|-----|-----|--------------------|
| Alpha drain upper part | | | | | | | | |
| 3282 | 70 | 75 | 62 | – | 245 | – | – | 8,0 l/s (35 mm) |
| 3284 | 100 | 110 | 97 | – | 245 | – | – | 8,8 l/s (35 mm) |
| 3286 | 125 | 125 | 114 | – | 250 | – | – | 10,4 l/s (45 mm) |
| Alpha drain lower part, vertical | | | | | | | | |
| 3202 | 70 | 75 | 115 | 220 | – | – | – | 3,9 l/s (35 mm) |
| 3204 | 100 | 110 | 150 | 255 | – | – | – | 5,2 l/s (35 mm) |
| 3206 | 125 | 125 | 165 | 270 | – | – | – | 7,8 l/s (45 mm) |
| Alpha drain lower part, horizontal | | | | | | | | |
| 3232 | 70 | 75 | – | 220 | 93 | 255 | 197 | 3,7 l/s (35 mm) |
| 3234 | 100 | 110 | – | 255 | 130 | 290 | 238 | 6,0 l/s (35 mm) |
| 3236 | 125 | 125 | – | 270 | 153 | 305 | 253 | 8,7 l/s (45 mm) |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Eccentric Drain for the downpipe sealing lead-through



Eccentric drain with terrace construction kit and sieve ring

Eccentric drain

made of high quality, CFC-free polyurethane hard foam (PUR). Optimal for draining roof surfaces lying one above the other through one downpipe. With adjusted flange for direct installation against the building wall.

The incoming and outgoing pipe can be **adjusted eccentricly**, this allows the distance to the wall and misalignment of the downpipe to be easily compensated.

The eccentric drain is ideal for use on balconies on different storeys.

The connection collar is available in all common roof sealings. An eccentric disk is included in the scope of delivery; inlay sieve, sieve ring attachment and terrace construction kit are available as accessories.



Eccentric drain incl. eccentric disk



Eccentric drain with inlay sieve

The maximum adjustment from the centre between the inlet and outlet downpipe is 96 mm! Thanks to its various components, the eccentric drain from Grumbach solves a lot of problems with downpipe ceiling lead-throughs.



Eccentric drain with sieve ring attachment DN 100



Eccentric drain with sieve ring attachment DN 70

Installation example eccentric drain with/without terrace construction kit

Eccentric adjustability (1) of the sieve ring element

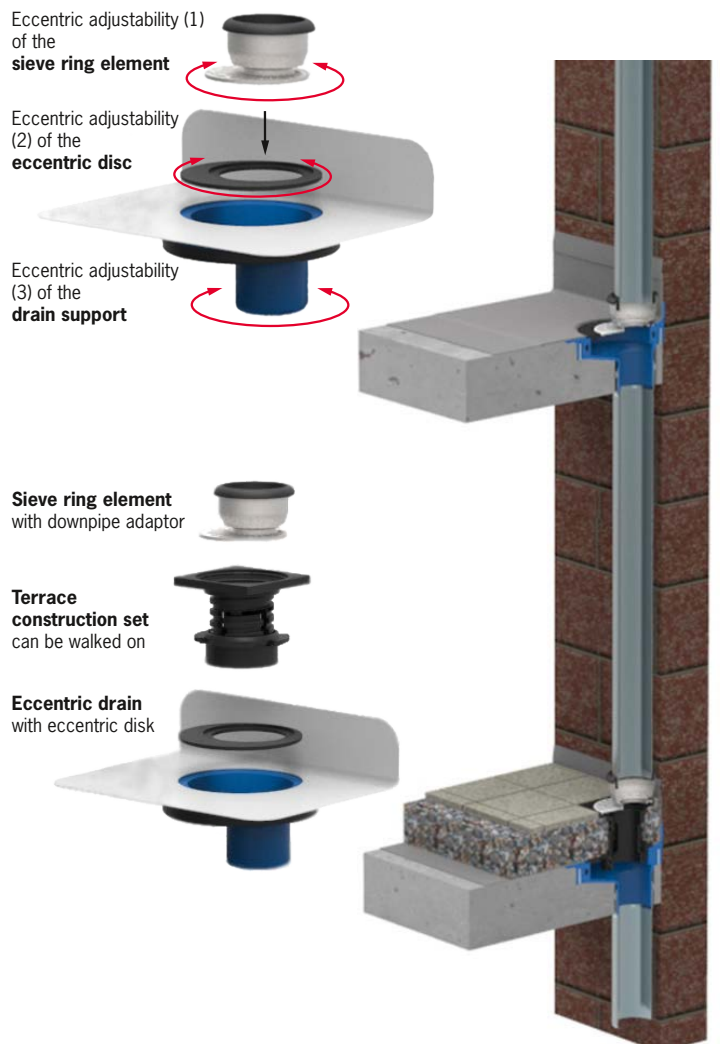
Eccentric adjustability (2) of the eccentric disc

Eccentric adjustability (3) of the drain support

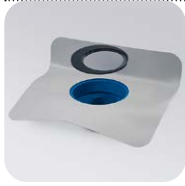
Sieve ring element with downpipe adaptor

Terrace construction set can be walked on

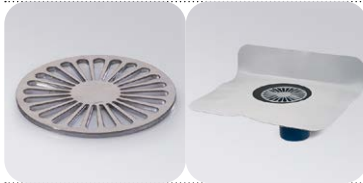
Eccentric drain with eccentric disk



Dimension | Art. No.



Eccentric drain
incl. eccentric disk
DN 100 **3722**



Inlay sieve, round made of aluminum
suitable for eccentric drain
diameter 160 mm
3449.S



Sieve ring attachment, eccentric
suitable for eccentric drain, for take-up of downpipes DN 70
DN 70 **5903.E**



Sieve ring attachment, eccentric
suitable for eccentric drain, for take-up of downpipes DN 100
DN 100 **5904.E**



Terrace construction kit, can be walked on (black)
complete with end grating without odour trap
5902

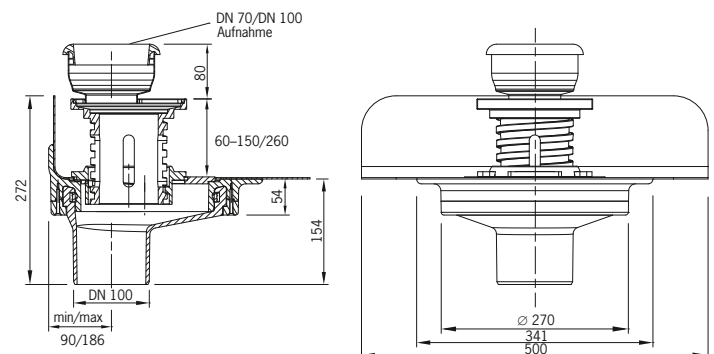
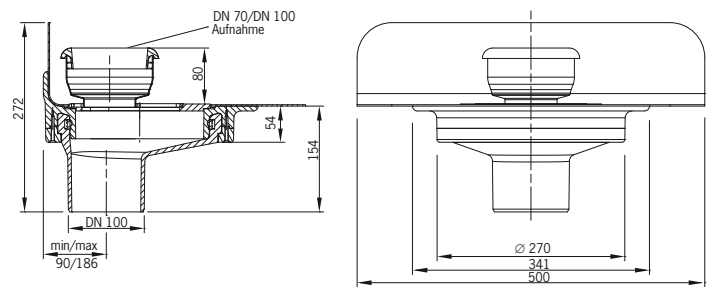


Terrace construction kit PLUS
as Art. No. 5902, but with top covering made of stainless steel
5902.E

■ Eccentric Drain for the downpipe sealing lead-through

Technical data eccentric drain

The maximum adjustment from the centre between the inlet and outlet downpipe **is 96 mm!**



Installation example eccentric drain



Eccentric drain with terrace construction kit and sieve ring attachment DN 70



Eccentric drain with terrace construction kit and sieve ring attachment DN 100

■ Continuous Balcony Drain, lowerable



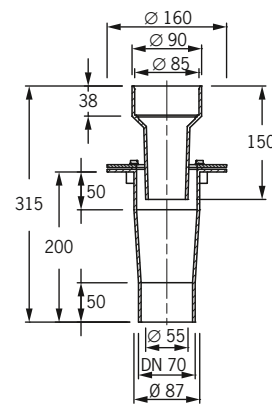
Continuous balcony drain, lowerable

Made of aluminum, DN 70, with clamp flange and flange press seal, 40 mm flange width. The special solution for prefabricated buildings.

Continuous balcony drain with clamp flange made of aluminum

is particularly suited for balconies in blocks of flats of panel or prefabricated buildings. The down pipes can be subsequently installed or removed. The special solution: Flange with a diameter of 160 mm with clamp flange or simple for sealing with liquid plastic.

Technical data



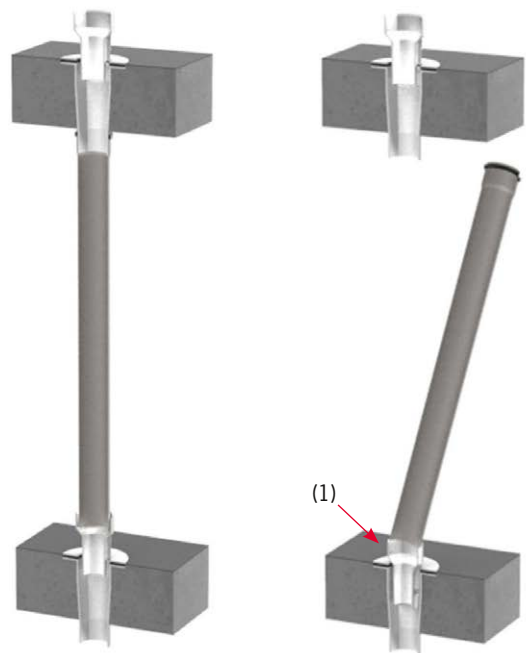
Dimension | Art. No.



Continuous balcony drain, lowerable

DN 70 **2701**

Installation example

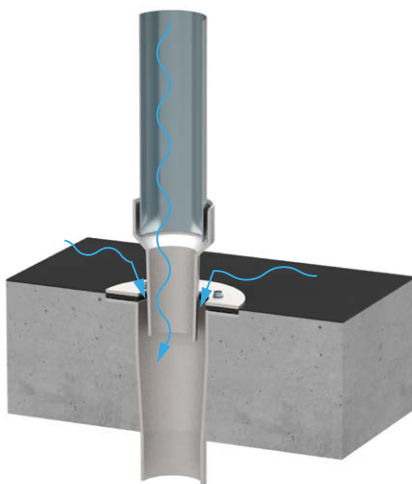


By lifting and locking the lower pipe inlet, the pipe sleeve is inserted onto the supports of the upper drain.

The sunken pipe inlet (1) allows the down pipe to be inserted or removed.

Installation example

The continuous balcony drain can be installed in a stacked manner and not only drains the water from the installation area but also the water coming from the down pipe.



■ Attica Balcony Drain DN 50, 70, 100



Attica balcony drain made of PUR with slip-in socket

Attica balcony drain

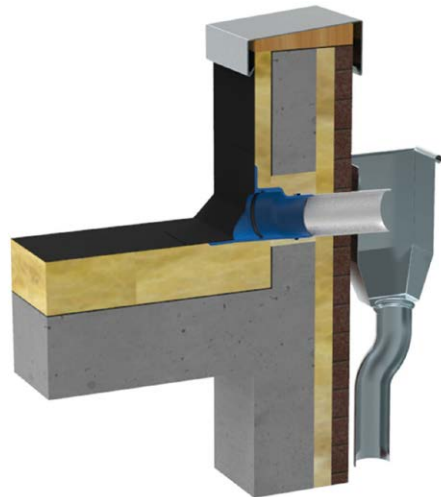
heat insulated, CFC-free, with PVC sleeve pipe (black) 50 cm long and cast on bitumen, PVC or special cuff.

Attica balcony drains

With the attica balcony drains it is possible to solve many drainage problems on roofs, terraces, balconies leafy pathways etc. in a way that was not previously possible.

One has the possibility to drain water above heated rooms, without weakening the heat insulation and by doing so creating thermal bridges (see installation example).

Installation example



Attica balcony drain (Art. No. 3444.BIT) with plug-in sleeve, built into the vapour barrier and water collector. **To avoid frost damage, we recommend using our trace heating systems (see page 74).**



Detail Plug-in sleeve



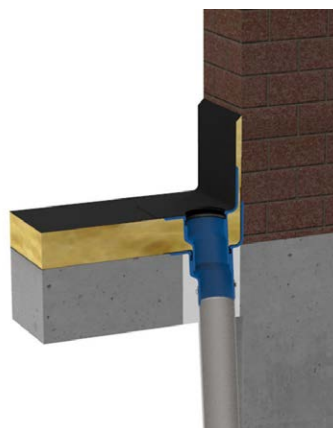
Attica balcony drain made of PUR with plug-in sleeve as emergency overflow



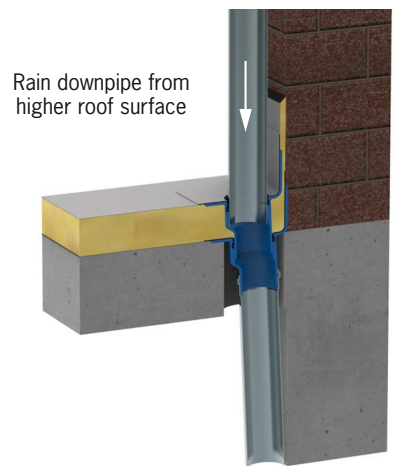
Attica balcony drain made of PUR



Attica balcony drain made of PUR with wedge 6x6 cm and emergency overflow element



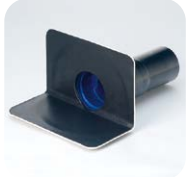
Two attica balcony drains (Art. No. 3405) vertical attached close to the wall



Two attica balcony drains (Art. No. 3405) vertical attached close to the wall as rain water pipe

Attica Balcony drain DN 50, 70, 100

Dimension | Art. No.



Attica balcony drain made of PUR

DN 50 **3410**
DN 70 **3411**
DN 100 **3412**



Attica balcony drain made of PUR with plug-in sleeve

DN 50 **3413**
DN 70 **3414**
DN 100 **3415**



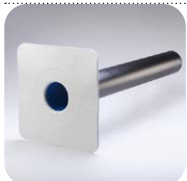
Attica balcony drain made of PUR with plug-in sleeve and wedge 6 x 6 cm

DN 50 **3440.BIT**
DN 70 **3442.BIT**
DN 100 **3444.BIT**



Attica balcony drain made of PUR with plug-in sleeve as emergency overflow

DN 50 **3403**
DN 70 **3404**
DN 100 **3405**

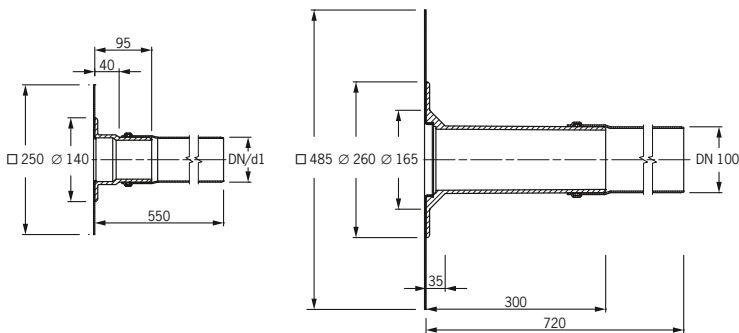
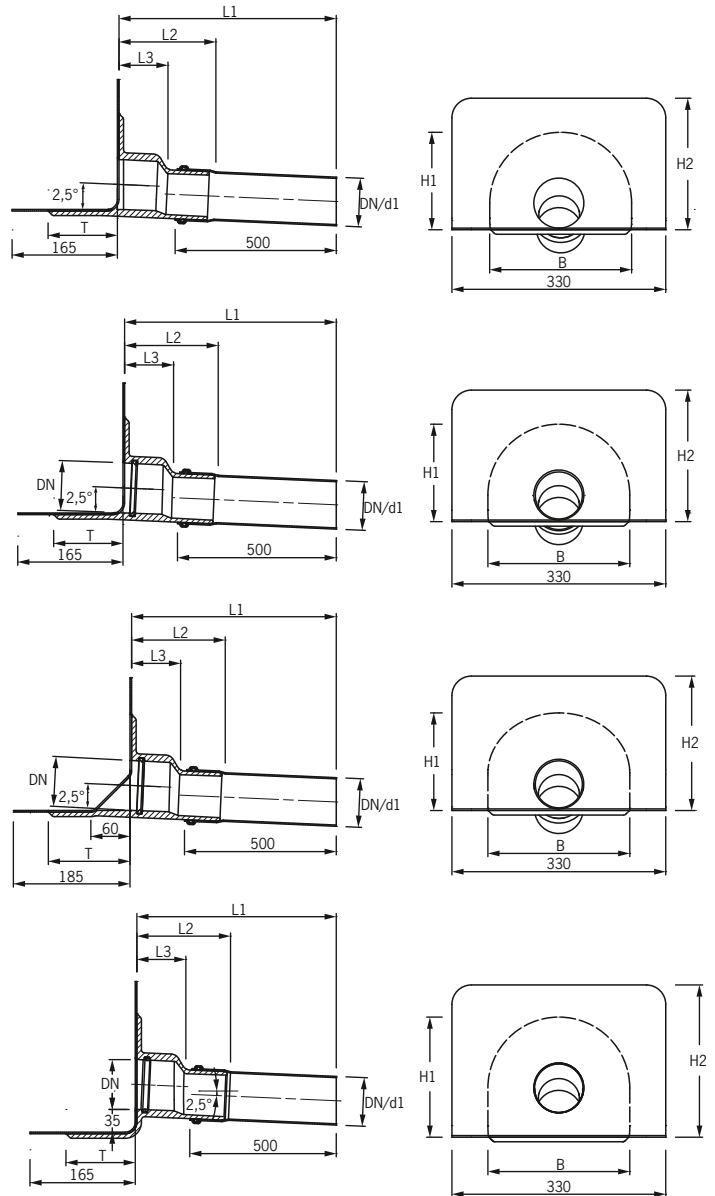


Attica emergency overflow

DN 50 **3400**
DN 70 **3401**
DN 100 **3402**



Technical data attica balcony drains



| Art. | DN | d1 | Drainage capacity* |
|------|-----|-----|--------------------|
| 3400 | 50 | 50 | 0,4 l/s (35 mm) |
| 3401 | 70 | 75 | 0,7 l/s (35 mm) |
| 3402 | 100 | 110 | 0,9 l/s (35 mm) |

| Art. | DN | d1 | L1 | L2 | L3 | T | B | H1 | H2 | Drainage capacity* |
|----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|--------------------|
| 3410, 3413, 3440.BIT | 50 | 50 | 630 | 130 | 65 | 95 | 190 | 95 | 200 | 0,6 l/s (35 mm) |
| 3411, 3414, 3442.BIT | 70 | 75 | 635 | 130 | 70 | 110 | 220 | 150 | 200 | 0,7 l/s (35 mm) |
| 3412, 3415, 3444.BIT | 100 | 110 | 640 | 160 | 80 | 125 | 255 | 185 | 200 | 1,0 l/s (35 mm) |
| 3403 | 50 | 50 | 630 | 130 | 65 | 95 | 190 | 160 | 235 | 0,4 l/s (35 mm) |
| 3404 | 70 | 75 | 635 | 130 | 70 | 110 | 220 | 185 | 235 | 0,7 l/s (35 mm) |
| 3405 | 100 | 110 | 640 | 160 | 80 | 125 | 255 | 220 | 235 | 0,9 l/s (35 mm) |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

Attica Balcony drain with accessories

Dimension | Art. No.



Attica emergency overflow element made of PUR 170

DN 50 **2450**
 DN 70 **2452**
 DN 100 **2454**



Attica emergency overflow element made of PUR 450

DN 50 **2450.45**
 DN 70 **2452.45**
 DN 100 **2454.45**



Attica drain element made of PUR 170
 with slit for wedge

DN 50 **2450.1**
 DN 70 **2452.1**
 DN 100 **2454.1**



Attica drain element made of PUR 450
 with slit for wedge and optional lateral inlet opening

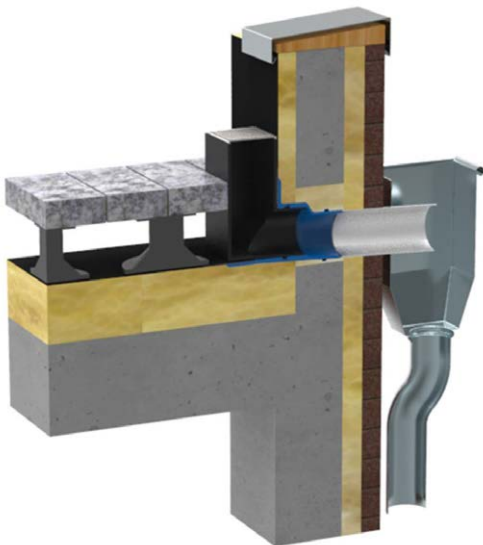
DN 50 **2450.1.45**
 DN 70 **2452.1.45**
 DN 100 **2454.1.45**

The attica emergency overflow elements and attica drain elements are suitable to all attica balcony drains with slip-in socket.

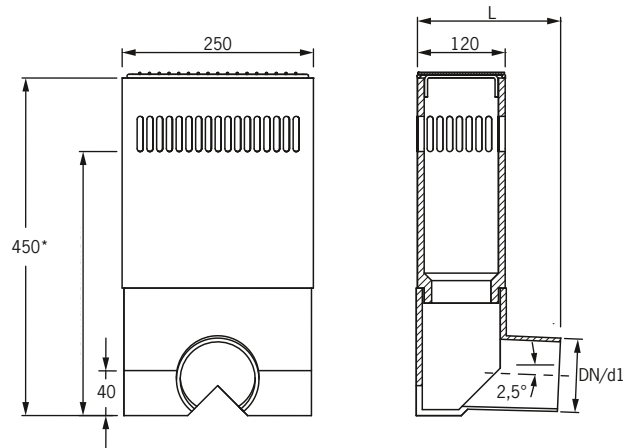
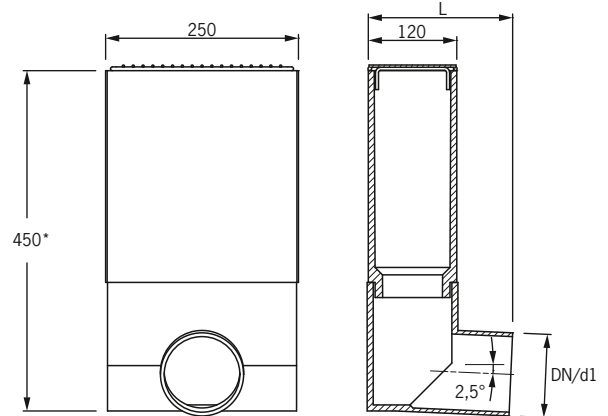
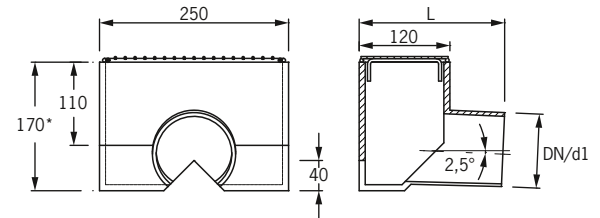
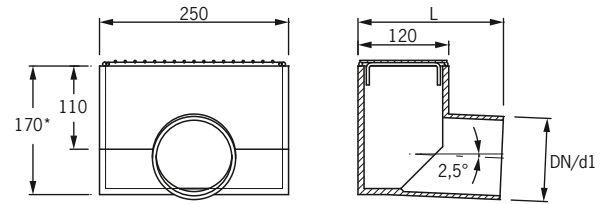
The **drainage capacities** of the attica balcony drains are **increased** by the attica emergency overflow elements resp. drain elements (data on request)!

Installation example attica balcony drain with attica emergency overflow element

Attica balcony drain with inserted attica emergency overflow element in an insulated roof with tiled covering on stilts. **To prevent frost damage, we recommend using our trace heating systems (s. p. 74).**



Technical data



* can be shortened as required

| Art. No. | DN | d1 | L |
|----------------------------------|-----|-----|-----|
| 2450, 2450.1, 2450.45, 2450.1.45 | 50 | 50 | 140 |
| 2452, 2452.1, 2452.45, 2452.1.45 | 70 | 75 | 196 |
| 2454, 2454.1, 2454.45, 2454.1.45 | 100 | 110 | 220 |

Attica Balcony drain with accessories

Dimension | Art. No.



Attica emergency overflow made of stainless steel

Support length 30 cm:
 DN 50 **2680**
 DN 70 **2682**
 DN 100 **2684**

Support length 55 cm:
 DN 50 **2680.55**
 DN 70 **2682.55**
 DN 100 **2684.55**



Pebble trap made of PE

with secure pebble trap holder made of stainless steel
 Passend zu Art. No. 3410–3415.
 DN 50 **3491.1**
 DN 70/100 **3492.1**



Pebble trap made of PP

suitable for Art. No. 3403–3415 and 3440–3444.
 DN 50 **3491**
 DN 70 **3492**
 DN 100 **3493**



Stainless steel pipe with sleeve

suitable for all attica balcony drains, attica Meso drains and attica super drains.

| | 25 cm | 50 cm |
|--------|-------------|----------------|
| DN 50 | 2631 | 2631.55 |
| DN 70 | 2632 | 2632.55 |
| DN 100 | 2634 | 2634.55 |



Stainless steel bend

87,5° and with sleeve
 DN 50 **2650**
 DN 70 **2652**
 DN 100 **2654**



PP pipe with sleeve (black)

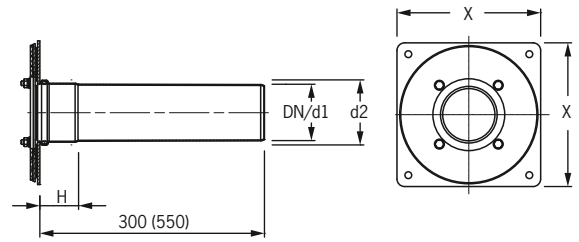
| | 50 cm | 100 cm |
|--------|-------------|---------------|
| DN 50 | 3460 | 3460.1 |
| DN 70 | 3462 | 3462.1 |
| DN 100 | 3464 | 3464.1 |



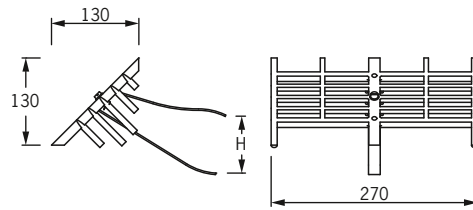
Surface pipe cover made of stainless steel

| | |
|--------|-----------------|
| DN 50 | 2460.50 |
| DN 70 | 2460.70 |
| DN 100 | 2460.100 |

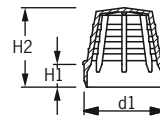
Technical data



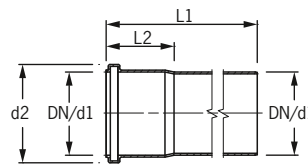
| Art. | DN | d1 | d2 | H | X |
|----------------------|-----|-----|-----|----|-----|
| 2680, 2680.55 | 50 | 50 | 61 | 45 | 150 |
| 2682, 2682.55 | 70 | 75 | 87 | 55 | 190 |
| 2684, 2684.55 | 100 | 110 | 125 | 60 | 240 |



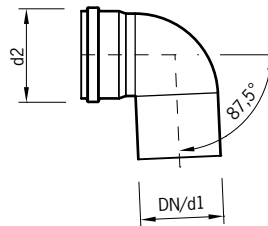
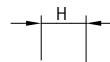
| Art. | für | H |
|---------------|-----------|--------|
| 3491.1 | DN 50 | 40·80 |
| 3492.1 | DN 70/100 | 60·150 |



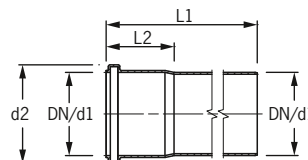
| Art. | d1 | H1 | H2 |
|-------------|-----|----|-----|
| 3491 | 50 | 25 | 90 |
| 3492 | 75 | 25 | 100 |
| 3493 | 110 | 25 | 105 |



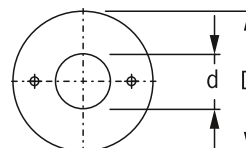
| Art. | DN | d1 | d2 | L1 | L2 |
|----------------|-----|-----|-----|-----|----|
| 2631 | 50 | 50 | 62 | 250 | 48 |
| 2632 | 70 | 75 | 88 | 250 | 55 |
| 2634 | 100 | 110 | 125 | 250 | 60 |
| 2631.55 | 50 | 50 | 62 | 500 | 48 |
| 2632.55 | 70 | 75 | 88 | 500 | 55 |
| 2634.55 | 100 | 110 | 125 | 500 | 60 |



| Art. | DN | d1 | d2 | H |
|-------------|-----|-----|-----|----|
| 2650 | 50 | 50 | 62 | 48 |
| 2652 | 70 | 75 | 88 | 55 |
| 2654 | 100 | 110 | 125 | 60 |



| Art. | DN | d1 | d2 | L1 | L2 |
|-------------|-----|-----|-----|-----|----|
| 3460 | 50 | 50 | 62 | 500 | 48 |
| 3462 | 70 | 75 | 88 | 500 | 55 |
| 3464 | 100 | 110 | 125 | 500 | 60 |



| Art. | DN | d | D |
|-----------------|-----|-----|-----|
| 2460.50 | 50 | 51 | 130 |
| 2460.70 | 70 | 76 | 155 |
| 2460.100 | 100 | 111 | 190 |

■ Attica Balcony Drain with accessories

Dimension | Art. No.



Socket pipe DN 90 made of PE (black), length 50 cm*
suitable for all attica balcony drains DN 100 made of PUR

DN 90 3461



T-piece made of titanium zinc*
with seal, suitable for sleeve pipe DN 90 made of PE, for a connection with a vertical zinc downpipe i.d. 100 (6-piece)

DN 90/100 (6-teilig)
2661



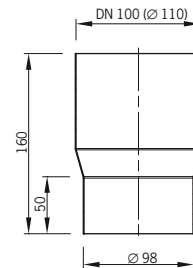
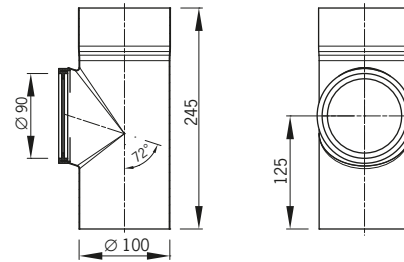
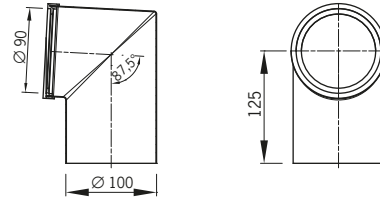
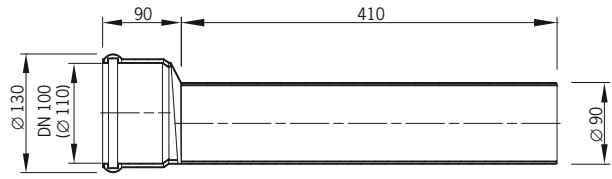
Bend made of titanium zinc*
with seal, suitable for sleeve pipe DN 90 made of PE, for a connection with a vertical zinc downpipe i.d. 100 (6-piece)

DN 90/100 (6-piece)
2651



Adaptor DN 100
made of titanium zinc, without seal, suitable for partial flow diversion, for a connection with a vertical zinc downpipe.

DN 100 **2633**
i.d. 100, 6-piece



* Can only be used in conjunction with the attica balcony drain made of PUR.

Application examples



Example, left figure: Partial flow diversion with adaptor DN 100 onto a zinc down pipe i.d. 100, suitable for the attica super-2 drain and attica meso-2 drain.

Example, right figure: Attica balcony drain made of PUR DN 100 with wedge in conjunction with a socket pipe DN 90 made of PE and a T-piece made of titanium zinc.

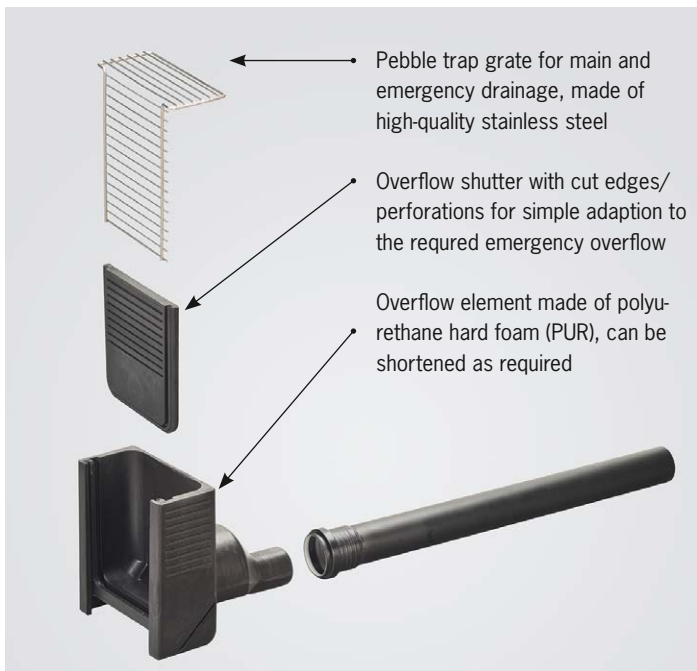


■ Attica Plug-in Overflow

The clever two-in-one solution!



Attica plug-in overflow



Example: Attica plug-in overflow in the attica balcony drain with partial flow diversion made of stainless steel (for direct downpipe connection)



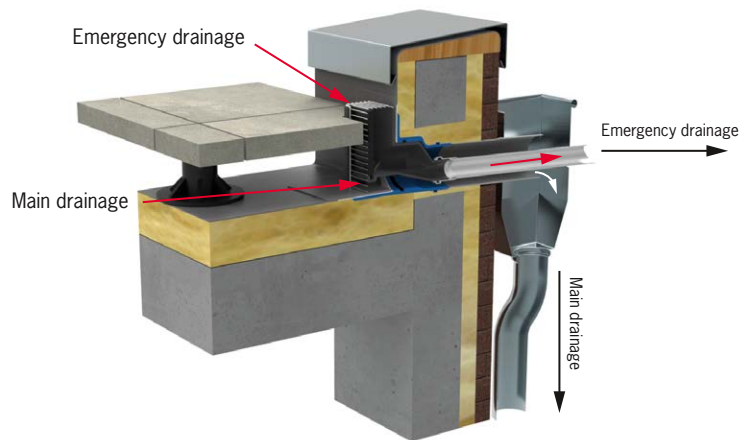
Attica plug-in overflow

Ideally suitable for the Grumbach attica balcony drain made of PUR DN 100 with plug-in sleeve (Art.-No. 3415 or 3444.BIT). The plug-in overflow allows main and emergency drainage with only one attica borehole.

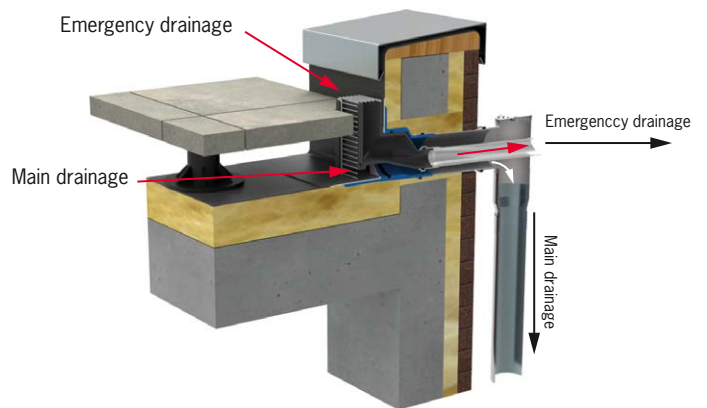
The emergency overflow can simply be adapted. The slip-in overflow is suitable for Attikas up to 350 mm and can be shortened and extended without any problems.

Best for small balconies and terraces!

Installation example



Attica plug-in overflow in a attica balcony drain in conjunction with a water collecting box



Attica plug-in overflow in a attica balcony drain with partial flow diversion made of stainless steel (for direct downpipe connection).



Example: Attica plug-in overflow applied to a attica balcony drain

Attica Plug-in Overflow

The clever two-in-one solution!

Dimension | Art. No.

Attica plug-in overflow with PP sleeve pipe 50 cm (black)

DN 50 **3420**

Application examples:
Attica plug-in overflow made of PUR with attica balcony drain DN 100 (Art. No. 3415)

Attica plug-in overflow made of PUR with attica balcony drain DN 100 with wedge (Art. No. 3444.BIT)

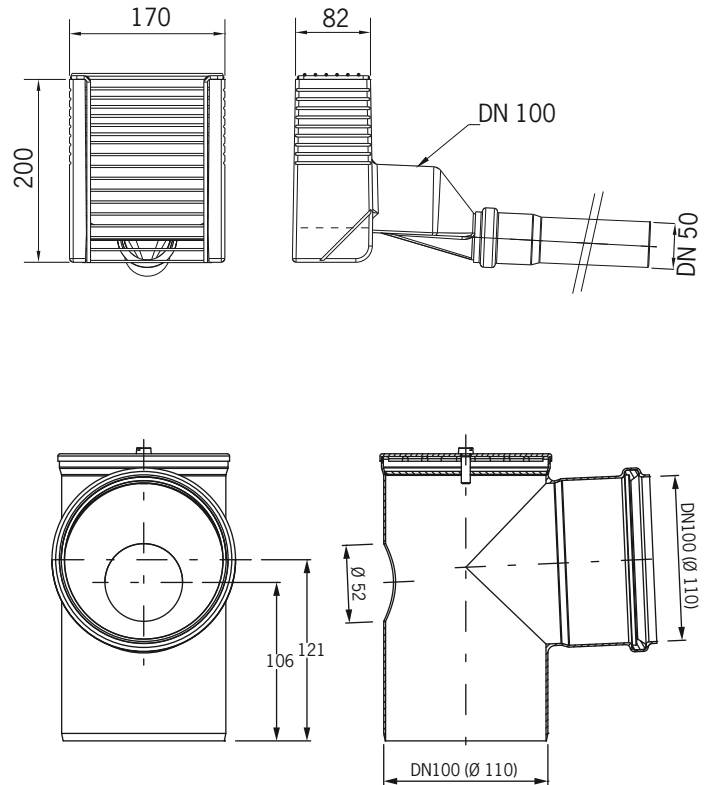
Partial flow diversion

suitable for attica balcony drain made of PUR, no water collecting box required

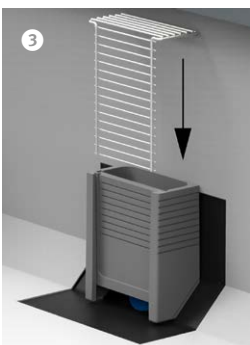
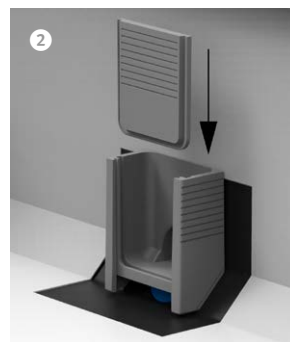
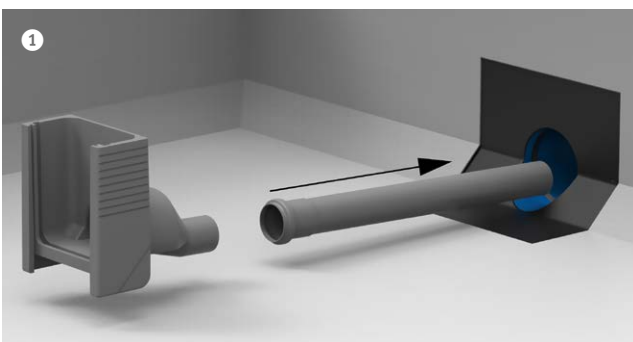
3420.AB

Assembly example

Technical data attica plug-in overflow



Assembly of a plug-in overflow



Quick and simple mounting of the plug-in overflow

1. Push the plug-in overflow into the attica balcony drain
2. Shorten overflow shutter to the required overflow height and push it into the guiding rail
3. Add pebble trap grate
4. Completely assembled plug-in overflow
5. The PP sleeve pipe or stainless steel pipe protrudes from the water collection box.

■ Attica Downpipe Connection for Attica Drains



Attica downpipe connection made of titanium zinc

- elegant adaptor onto the vertical downpipe in DN sizes through the attica lead roof drainage pipes
- for round drainpipes made of titanium zinc
- plug-in connection to roof drainpipe outside of the wall
- incl. plug-in sealing ring and cover grate
- also available for use with the attika plug-in drain
- removes the need for a water collecting container



Attica downpipe connection made of titanium zinc DN 70 in combination with a reducer from \varnothing 87 mm to \varnothing 80 mm.



Assembly example:
Attica downpipe connection DN 100 in combination with the attica balcony drain and the attica plug-in overflow.



The emergency overflow is inserted.
A water collection container is no longer required.

Attica Downpipe Connection round

Dimension | Art. No.



Downpipe connection for attica drains, round, made of titanium zinc

DN 70 **2471**
DN 100 **2472**

incl. plug-in seal and cover grate, for round rain downpipes made of titanium zinc sheeting, suitable for all attica drains.

The scope of delivery of **Art. No. 2471** includes an **adaptor** of \varnothing 87 mm to 80 mm.



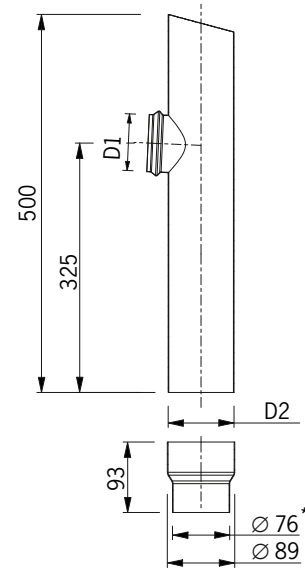
2 in 1

Downpipe connection, round, made of titanium zinc

DN 100 **2472.L**

as Art. No. 2472, but suitable to attica plug-in drain.

Technical data attica downpipe connection made of titanium zinc



| Art. | DN | D1 | D2 | a | b |
|------|-----|-----|-----|---|---|
| 2471 | 70 | 75 | 87 | - | - |
| 2472 | 100 | 110 | 100 | - | - |

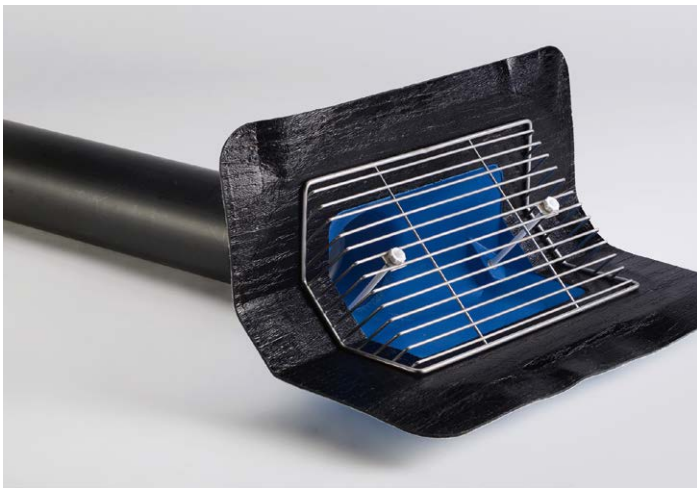
Assembly example attica downpipe connection made of titanium zinc



■ Attica Meso Drain for medium Drainage capacities



Attica Meso drain DN 70 made of PUR without wedge (with leaf trap grate 3494.S1 as accessory)



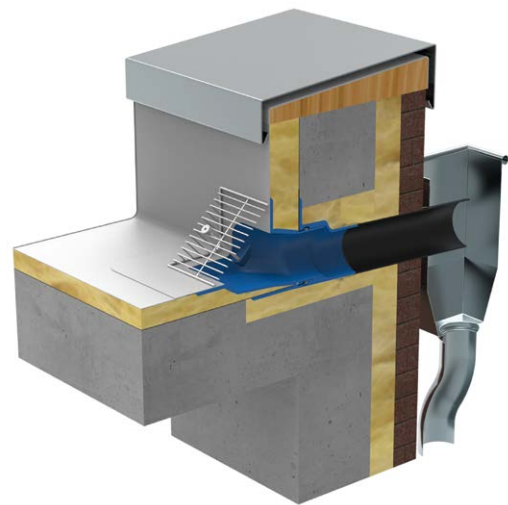
Attica Meso drain DN 100 made of PUR with wedge 6x6 cm (with leaf trap grate 3494.S as accessory)

Attica Meso drain DN 70/100 made of PUR

The new Grumbach attica Meso drain has a relatively **high drainage capacity with only very little insert in the thermal insulation.**

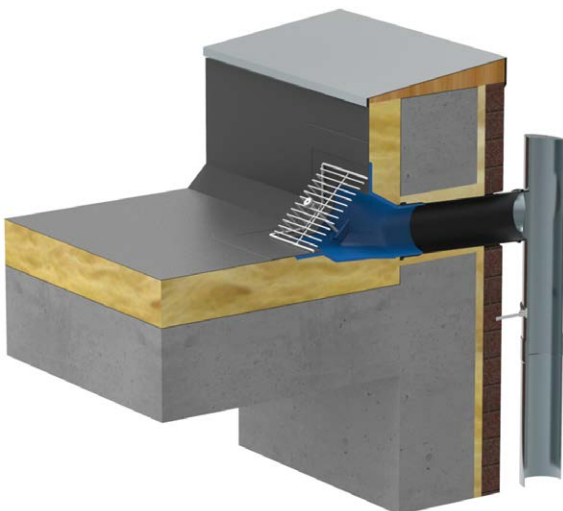
- With permanently cast connecting sheet.
- Available with all common roof seals
(Please mention typ of required connection collar when ordering).
- Made of high-quality polyurethane-hard-foam (PUR).
- with 50 cm long PP sleeve pipe (black).
- **Now available with wedge 6x6 cm!**

Installation example attica Meso drain made of PUR without wedge



Attica balcony drain with slip-in socket, built into the vapor barrier, with inserted attica Meso drain without wedge; with water collector. **To avoid frost damage, we recommend using our trace heating systems (see page 74).**

Installation example attica Meso drain made of PUR with wedge

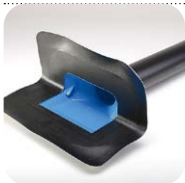


Attica Meso drain with wedge mounted in an insulated roof. On the outer side with round downpipe connection. **To avoid frost damage, we recommend using our trace heating systems (see page 74).**

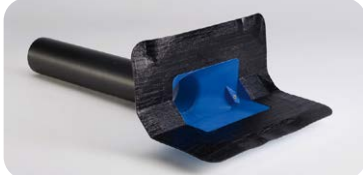


Attica Meso Drain for medium Drainage capacities

Dimension | Art. No.



Attica Meso drain made of PUR without wedge with PP sleeve pipe (55 cm)
 DN 70 **3212**
 DN 100 **3214**



Attica Meso drain made of PUR with wedge with PP sleeve pipe (55 cm)
 DN 70 **3211.BIT**
 DN 100 **3213.BIT**



Attica leaf trap grate made of stainless steel
 for Attica Meso drain made of PUR without wedge **3494.S1**
 with wedge **3494.S**



Pull-out protection made of EPDM
 suitable for all common pipes
 DN 70/DN 100
 DN 70 **5341**
 DN 100 **5343**

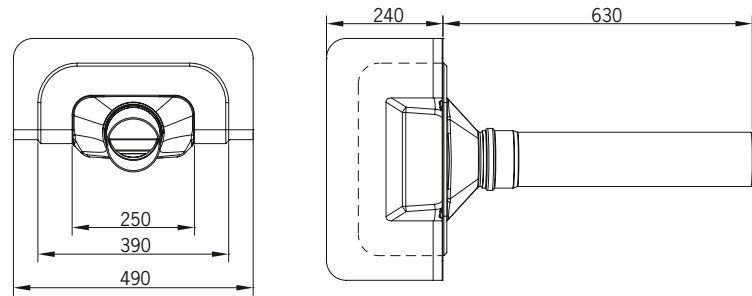
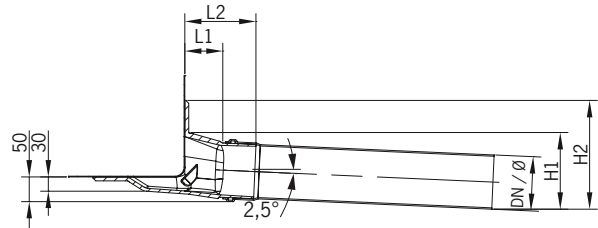


Pebble trap made of PE
 suitable for the attica Meso drain made of PUR
 without wedge **3495.S1**
 with wedge **3495.S**

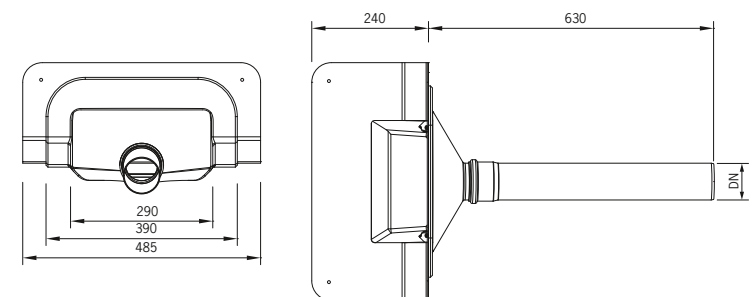
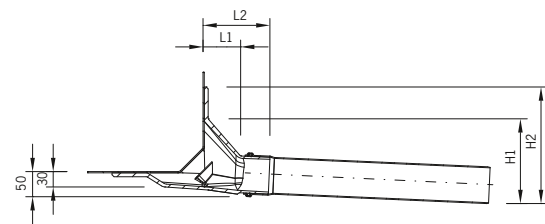


Water collector
 made of titanium zinc, 0,80 mm thick, drain support 100 mm resp. 6-piece.
3450.I

Technical data attica Meso drain made of PUR without wedge



Technical data attica Meso drain made of PUR with wedge



Pull-out protection made of EPDM (assembly example)

- including EPDM pull-out protection, hose clamp and locking ring made of stainless steel
- restrained connection between drain and socket pipe
- suitable for all common pipes DN 70 and DN 100

| Art. | DN | Ø | H1 | H2 | L1 | L2 | Drainage capacities* |
|----------|-----|-----|-----|-----|----|-----|----------------------|
| 3212 | 70 | 75 | 150 | 215 | 70 | 135 | 2,8 l/s (35 mm) |
| 3214 | 100 | 110 | 155 | 220 | 75 | 145 | 3,0 l/s (35 mm) |
| 3211.BIT | 70 | 75 | 170 | 240 | 75 | 135 | 2,5 l/s (35 mm) |
| 3213.BIT | 100 | 110 | 175 | 240 | 75 | 145 | 3,3 l/s (35 mm) |

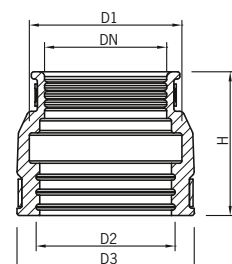
*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)



Attica Meso drain with applied PP sleeve pipe and pull-out protection

Technical data pull-out protection made of EPDM

| Art. | 5341 | 5343 |
|------|------|------|
| DN | 70 | 100 |
| D1 | 90 | 130 |
| D2 | 80 | 120 |
| D3 | 100 | 140 |
| H | 65 | 75 |



■ Attica Meso-2 Drain for use with a water collector

2 in 1



Assembly example: Attica Meso-2 drain with wedge (lange Version) mit Wasserfangkasten

Attica Meso-2 drain DN 100 made of PUR/ stainless steel

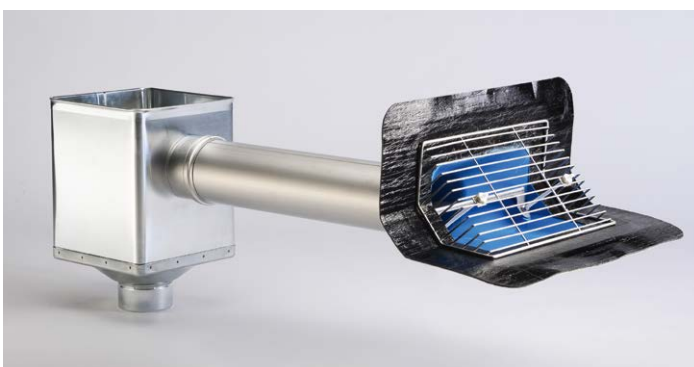
the comprehensive solution for **main and emergency drainage through only one attica passage**. The drain is available in a long or short version, with/without wedge and with various connection collars.

The **scope of delivery** of the **attica Meso-2 drain** includes:

- 1 **Attica Meso drain DN 100** with/without wedge (without PP pipe)
 - 2 **Stainless steel pipe** with sleeve DN 100, 54 cm long
 - 3 **Stainless steel pipe** with sleeve DN 100, 30 cm long, with cutaway for main and emergency drainage and baffle plate
 - 4 **Water guiding plate front** and
 - 5 **Water guiding plate back** for emergency drainage
 - 6 **Leaf trap grate** made of stainless steel (Art. No. 3494.S(1))
- optional extra:**
- 7 **Water collector** made of zinc sheet (drain support 100 mm/ 6-piece, Art. No. 3450)
 - 8 **Locking ring DN 100** (Art. No. 2695)



Attica Meso-2 drain without wedge (short version)



Attica Meso-2 drain (short version) with wedge and water collector



Attica Meso-2 drain (long version) without wedge and with water collector

Attica Meso-2 Drain for use with a water collector

Dimension | Art. No.



2 in 1

Attica Meso-2 drain made of PUR with wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3213.BIT.S2**
with wedge



2 in 1

Attica Meso-2 drain made of PUR without wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3214.S2**
without wedge



2 in 1

Attica Meso-2 drain made of PUR DN 100 with wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3213.BIT.S2.L**
with wedge



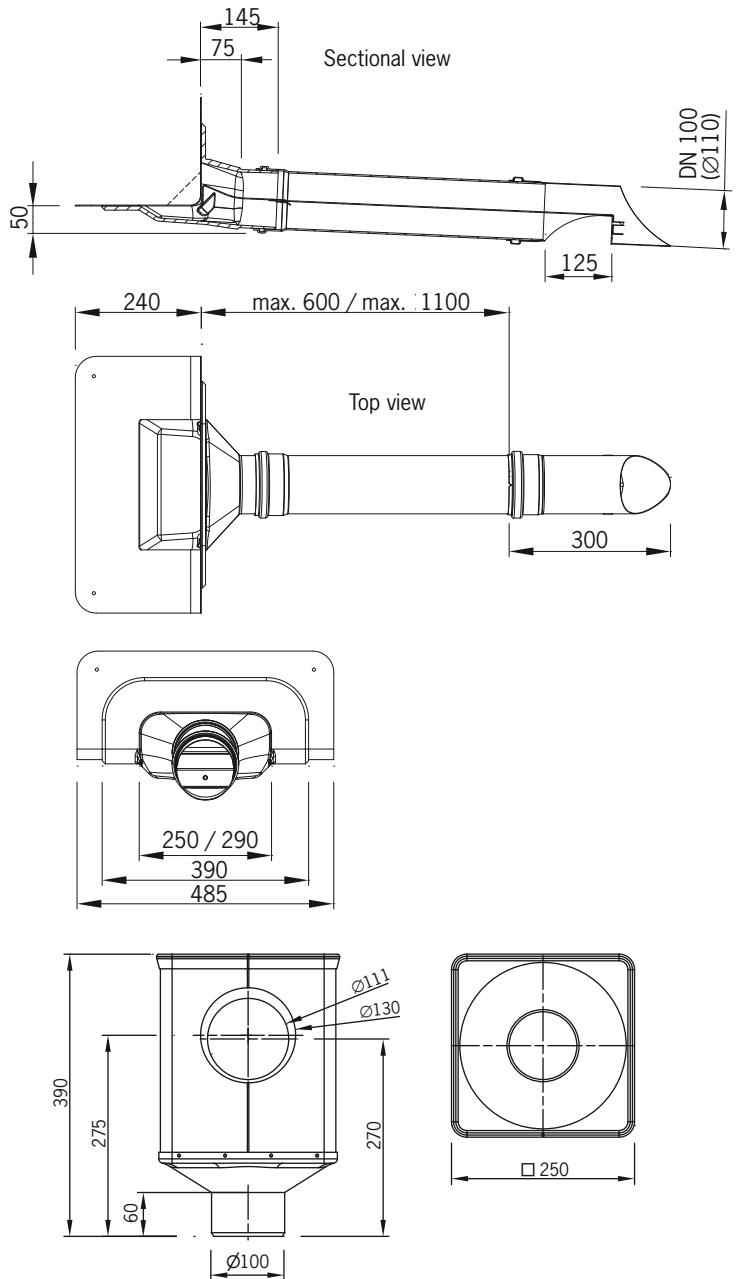
2 in 1

Attica Meso-2 drain made of PUR without wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3214.S2.L**

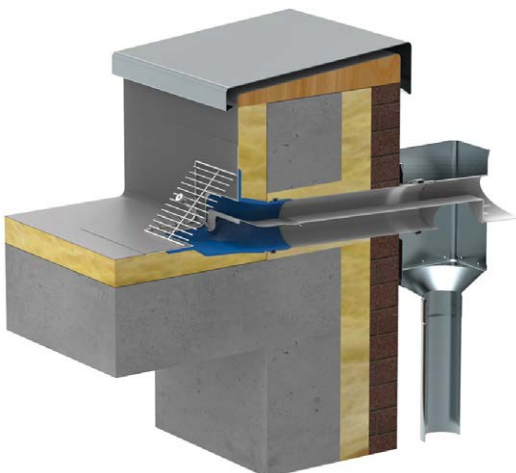


Water collector
3450

Technical data Attica Meso-2 drain



Installation example Attica Meso-2 drain



Attica Meso-2 drain with water collector, mounted in an insulated roof.
To avoid frost damage, we recommend using our trace heating systems (see page 74).

| Art. | Drainage capacity* |
|--|---|
| Attica Meso-2 drain with/without wedge | Main drainage: 2,8 l/s (at 35 mm) Emergency overflow: 2,3 l/s (at 35 mm) |
| The use of the stainless steel leaf trap grate does not lower the drainage capacity! | |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attica Meso-2 Drain with partial flow diversion

2 in 1



Attica Meso-2 drain (long version) without wedge and with partial flow diversion

Attica Meso-2 drain DN 100 made of PUR/ stainless steel with partial flow diversion

the comprehensive solution for **main and emergency drainage through only one attica passage**. The drain is available in a long or short version, with/without wedge and with various connection collars.

The **scope of delivery** of the **attica Meso-2 drain with partial flow diversion** includes:

- 1 **Attica Meso drain DN 100** with/without wedge (without PP pipe)
- 2 **Stainless steel pipe** with sleeve DN 100, 54 cm long
- 3 **Partial flow diversion** made of stainless steel
- 4 **Water guiding plate front** and
- 5 **Water guiding plate back** for emergency drainage
- 6 **Leaf trap grate** made of stainless steel (Art. No. 3494.S(1))

optional extra:

- 7 **Locking ring DN 100** (Art. No. 2695)
- 8 **Adaptor DN 100** (Art. No. 2633)



Attica Meso-2 drain (short version) with wedge and with partial flow diversion



Attica Meso-2 drain (short version) without wedge and with partial flow diversion



Attica Meso-2 drain (long version) with wedge and with partial flow diversion

Attica Meso-2 Drain with partial flow diversion

Dimension | Art. No.

2 in 1



Attica Meso-2 drain made of PUR with partial flow diversion with wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3215.BIT**

2 in 1



Attica Meso-2 drain made of PUR with partial flow diversion without wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3216**

2 in 1



Attica Meso-2 drain made of PUR with partial flow diversion with wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3215.BIT.L**

2 in 1



Attica Meso-2 drain made of PUR with partial flow diversion without wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3216.L**

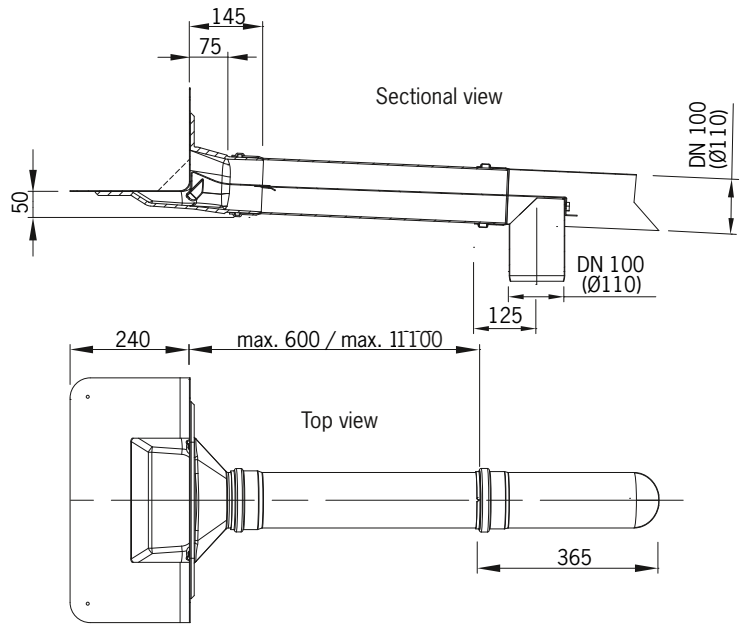


Adaptor DN 100
DN 100 **2633**



Safety clamp
DN 100 **2695**

Technical data Attica Meso-2 drain with partial flow diversion



| Art. | Drainage capacity* |
|--|---|
| Attica Meso-2 drain with partial flow diversion, long/short version | Main drainage: 3,0 l/s (at 35 mm) Emergency overflow: 2,4 l/s (at 35 mm) |
| The use of the stainless steel leaf trap grate does not lower the drainage capacity! | |

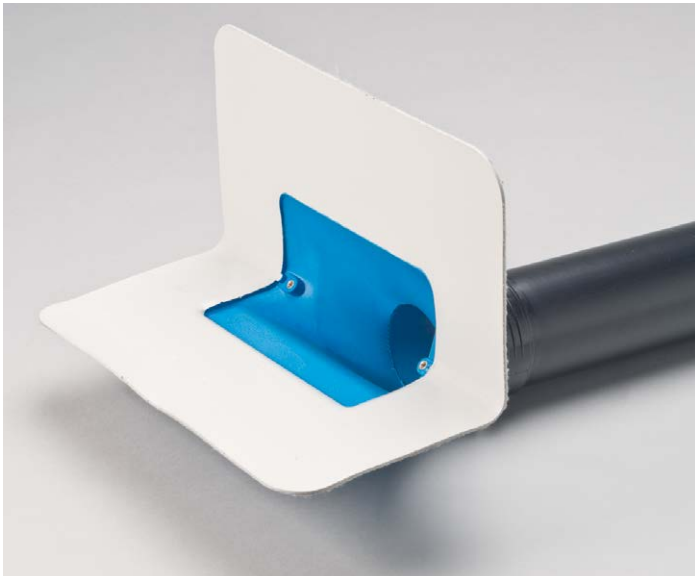
*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attika Super Drain for high Drainage capacities

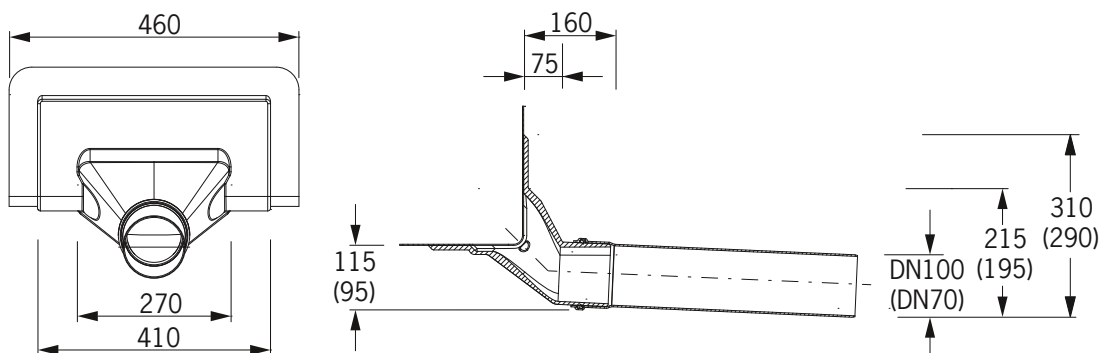
Attika Super drain DN 70/100 made of PUR or stainless steel

When it needs to be more effective: the drainage capacity needs to be higher, Grumbach developed the Attika super drain.

The Attika super drain DN 70 has a capacity of 3.8l/sec at 35 mm accumulation height (the attika Super drain DN 100 has a drainage capacity of 4.9 l/s).



Technical data attika Super drain made of PUR without wedge



Attika Super drain DN 70/100 made of PUR

The proven attika Super drain made of PUR is now also available without wedge section in the corner for corresponding attika versions. Of course with the same high drainage capacities and large choice of connection collars.

Installation example Attika Super drain made of PUR

Attika balcony drain with slip-in socket built into the vapour barrier, with slipped-in attika Super drain.

To prevent frost damage, we recommend using our trace heating systems (see page 74).



Installation example Attika Super drain made of PUR without wedge

Attika balcony drain with slip-in socket built into the vapour barrier, with slipped-in attika Super drain without wedge section in the corner.

To prevent frost damage, we recommend using our trace heating systems (see page 74).



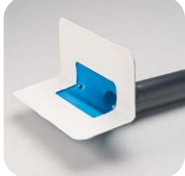
Attica Super Drain with accessories

Dimension | Art. No.



Attica Super drain with wedge made of PUR

with PP pipe (55 cm lang)
DN 70 **3431.BIT**
DN 100 **3433.BIT**



Attica Super drain without wedge made of PUR

with PP pipe (55 cm lang)
DN 70 **3470**
DN 100 **3471**



Attica Super drain made of stainless steel

with welded stainless steel pipe
DN 70 **2432**
DN 100 **2434**



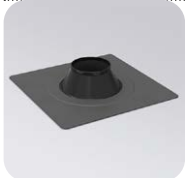
Attica leaf trap grate made of stainless steel

for attica Super drain made of PUR with wedge **3494.S**
for attica Super drain made of PUR without wedge **3494.S1**
for attica Super drain made of stainless steel **3494.SE**



Pebble trap made of PE

for attica Super drain made of PUR with wedge **3495.S**
for attica Super drain made of PUR without wedge **3495.S1**



Connecting piece for vapour traps fastening cuff

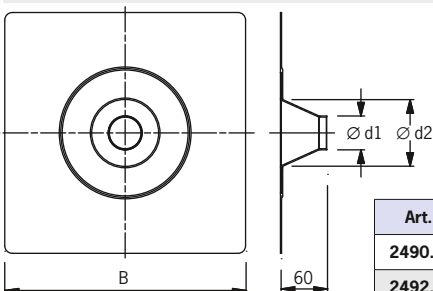
DN 50 **2490.M**
DN 70 **2492.M**
DN 100 **2494.M**
DN 125 **2497.M**
DN 150 **2498.M**



Safety clamp

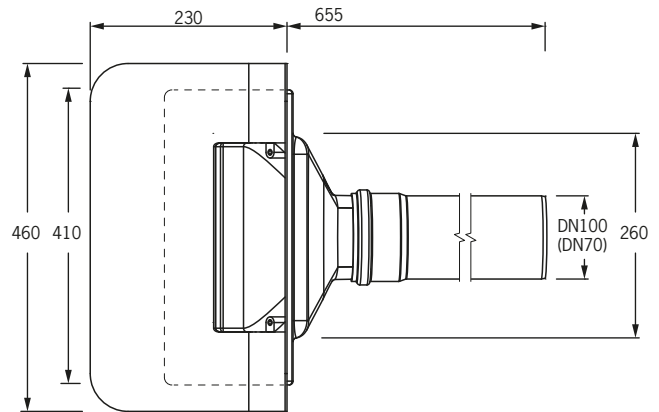
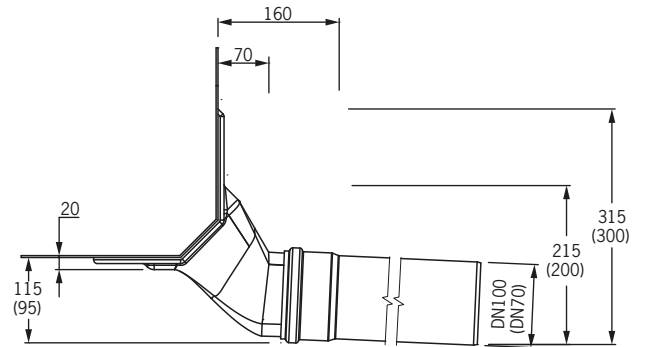
DN 50 **2691**
DN 70 **2693**
DN 100 **2695**

Technical data connecting piece for vapour traps fastening cuff

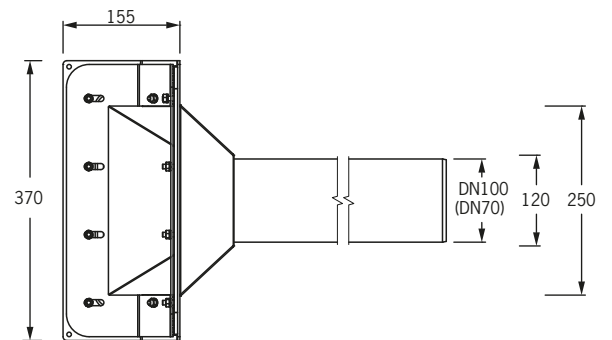
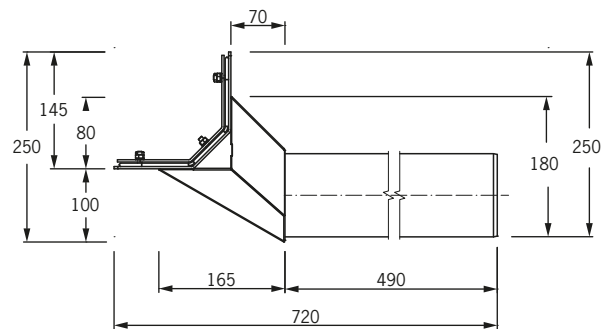


| Art. | DN | d1 | d2 | B |
|---------------|-----|-----|-----|-----|
| 2490.M | 50 | 45 | 90 | 230 |
| 2492.M | 70 | 65 | 105 | 230 |
| 2494.M | 100 | 97 | 120 | 320 |
| 2497.M | 125 | 113 | 160 | 320 |
| 2498.M | 150 | 139 | 180 | 320 |

Technical data attica Super drain made of PUR



Technical data Attica Super drain made of stainless steel



| Art. | Drainage capacity* |
|-----------------------------|-----------------------------|
| 3431.BIT, 3470, 2432 | 3,8 l/s (35 mm) at downpipe |
| 3433.BIT, 3471, 2434 | 4,9 l/s (35 mm) at downpipe |

The use of the stainless steel leaf trap grate does not reduce the drainage capacity!

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attica Super-2 Drain for use with water collector

2 in 1



Assembly example: Attica Super-2 drain with wedge (long version) with water collector

Attica Super-2 drain DN 100 made of PUR/ stainless steel

the comprehensive solution for **main and emergency drainage through only one attica passage**. The drain is available in a long or short version, with/without wedge and with various connection collars.

The **scope of delivery** of the **attica Super-2 drain** includes:

- 1 **Attica Super drain DN 100** with/without wedge (without PP pipe)
 - 2 **Stainless steel pipe** with sleeve DN 100, 54 cm long
 - 3 **Stainless steel pipe** with sleeve DN 100, 30 cm long, with cutaway for main and emergency drainage and baffle plate
 - 4 **Water guiding plate front** and
 - 5 **Water guiding plate back** for emergency drainage
 - 6 **Leaf trap grate** made of stainless steel (Art. No. 3494.S(1))
- optional extra:**
- 7 **Water collector** made of zinc sheet (drain support 100 mm/6-piece, Art. No. 3450)
 - 8 **Locking ring DN 100** (Art. No. 2695)



Attica Super-2 drain without wedge (short version)



Attica Super-2 drain with wedge (short version) with water collector



Attica Super-2 drain without wedge (long version) with water collector

Attica Super-2 Drain for use with a water collector

Dimension | Art. No.

2 in 1



Attica Super-2 drain made of PUR with wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3433.BIT.S2**

2 in 1



Attica Super-2 drain made of PUR without wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3471.S2**

2 in 1



Attica Super-2 drain made of PUR DN 100 with wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3433.BIT.S2.L**

2 in 1



Attica Super-2 drain made of PUR without wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3471.S2.L**

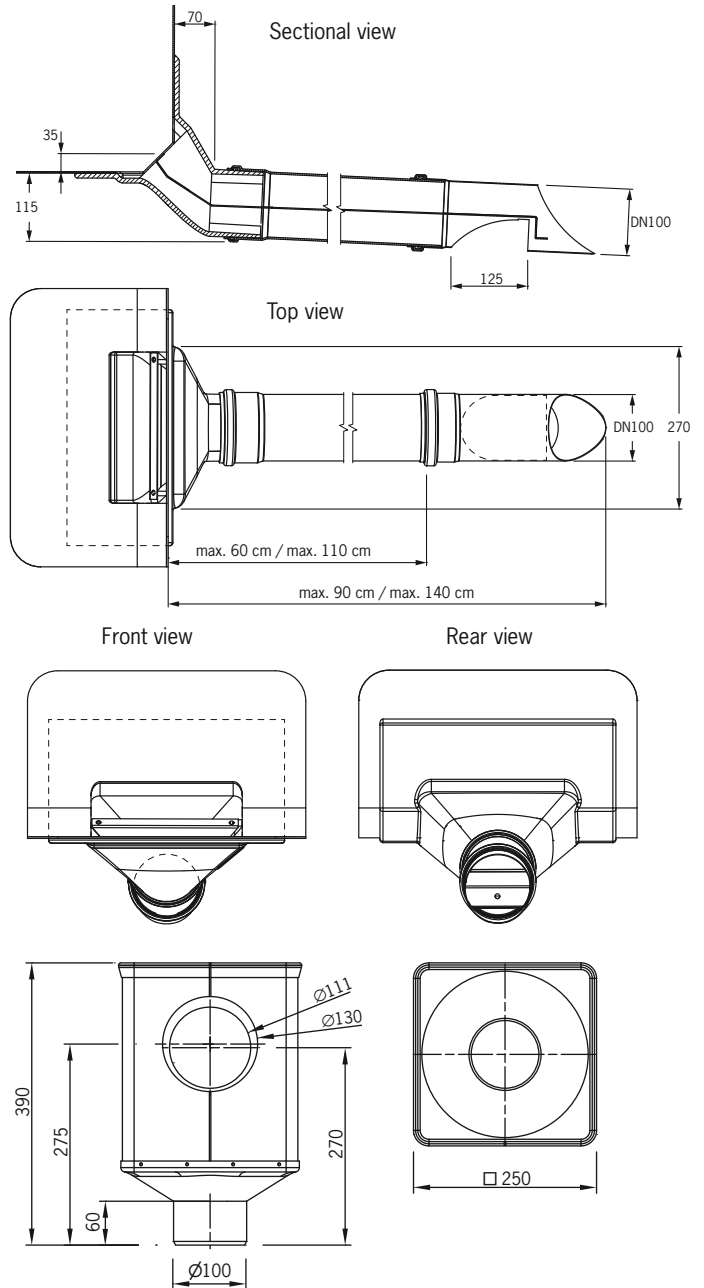


Water collector
3450

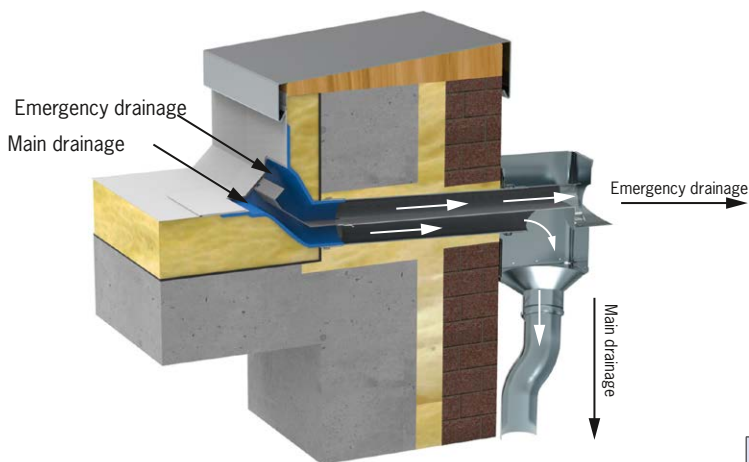


Safety clamp
2695

Technical data Attica Super-2 drain



Installation example Attica Super-2 drain



Attica Super-2 drain with water collector in an insulated roof.

To prevent frost damage, we recommend using our trace heating systems (see page 74).

| Art. | Drainage capacity* |
|---|--|
| all attica Super-2 drains | Main drainage: 3,6 l/s, Emergency overflow: 3,0 l/s (35 mm) |
| The use of the stainless steel leaf trap grate does not reduce the drainage capacity! | |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attica Super-2 Drain with partial flow diversion

2 in 1



Attica Super-2 drain with wedge with partial flow diversion (short version).
The version with a wedge always comes with a bitumen collar.



Attica Super-2 drain without wedge with partial flow diversion (long version).
The version without a wedge is available with various connection collars.

Attica Super-2 drain DN 100 made of PUR/ stainless steel with partial flow diversion – the solution for **main and emergency drainage through only one attica passage**. The drain is available in a long or short version, with/ without wedge and with various connection collars. The **partial flow diversion enables a direct connection to the downpipe – a water collection box is no longer required here!**

The **scope of delivery** of the **attica Super-2 drain with partial flow diversion** includes:

- 1 **Attica Super drain DN 100** with/without wedge (without PP pipe)
- 2 **Stainless steel pipe** with sleeve DN 100, 54 cm long
- 3 **Partial flow diversion** made of stainless steel
- 4 **Water guiding plate front** and
- 5 **Water guiding plate back** for emergency drainage
- 6 **Leaf trap grate** made of stainless steel (Art. No. 3494.S(1))



Attica Super-2 drain without wedge with partial flow diversion (short version).
The version without a wedge is available with various connection collars.



Attica Super-2 drain with wedge with partial flow diversion (long version).
The version with a wedge always comes with a bitumen collar.

Attica Super-2 Drain with partial flow diversion

Dimension | Art. No.

2 in 1



Attica Super-2 drain made of PUR with partial flow diversion made of stainless steel with wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3434.BIT.S2**

2 in 1



Attica Super-2 drain made of PUR with partial flow diversion made of stainless steel without wedge (short version)
for attica thickness **up to 60 cm**
DN 100 **3472.S2**

2 in 1



Attica Super-2 drain made of PUR with partial flow diversion made of stainless steel with wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3434.BIT.S2.L**

2 in 1

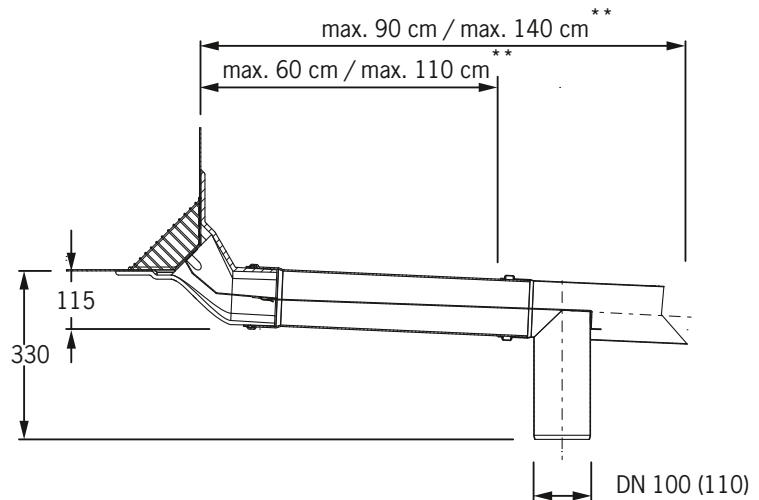


Attica Super-2 drain made of PUR with partial flow diversion made of stainless steel without wedge (long version)
for attica thickness **up to 110 cm**
DN 100 **3472.S2.L**

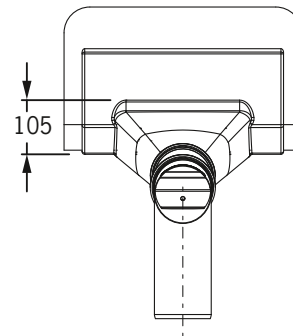


Adaptor DN 100
made of titanium zinc, without seal
DN 100 **2633**
i.d. 100, 6-piece
For a connection with a vertical zinc pipe.
Warning! Not backflow-secure!

Technical data Attica Super-2 drain with partial flow diversion

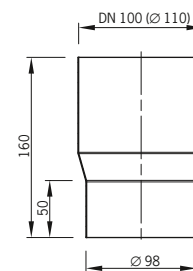
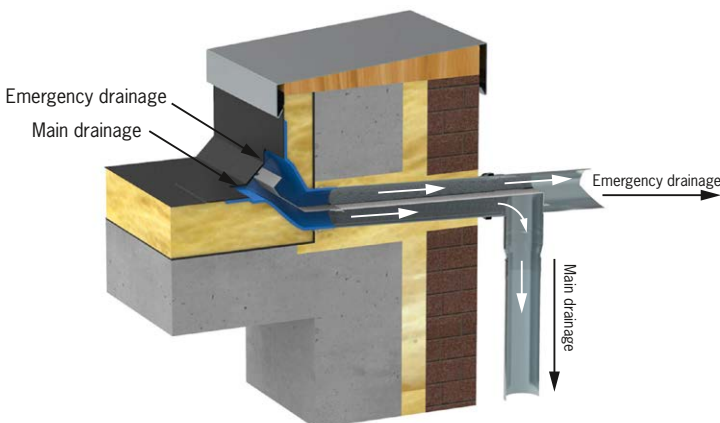


** Long version with 2nd stainless steel pipe and with extended guide plate



Installation example Attica Super-2 drain with partial flow diversion

Technical data adaptor



Attica Super-2 drain with partial flow diversion in an insulated roof.
To prevent frost damage, we recommend using our trace heating systems (see page 74).

| Art. | Drainage capacity* |
|---|--|
| all Attica Super-2 drains | Main drainage: 3,6 l/s, Emergency overflow: 3,0 l/s (35 mm) |
| The use of the stainless steel leaf trap grate does not reduce the drainage capacity! | |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attica Jumbo Drain The “big mouth”

Improved version!



Attica Jumbo drain made of PUR (the “big mouth”)

The attica Jumbo drain is suited for larger roofs with higher drainage capacities. Its oval pipe swallows 12l/sec at an accumulation height of 55mm. A really “big mouth”!

There is a suitable adapter to DN 150 and it has a compatible cistern made of zinc sheeting to be able to redirect the water.

Now in a new, improved version: 200 mm longer!



Leaf trap grate
The use of this stainless steel leaf trap grate does not reduce the drainage capacity!



Adaptor for attica Jumbo drain made of PUR with connection supports for a sleeve pipe DN 150. For on-site connection to an attica Jumbo drain. Sandpaper and adhesive are included in the scope of delivery.



Reducing piece made of PUR, internal rubber seal (like sleeve), suitable for the attica Jumbo drain with adaptor for the reduction of the nominal width from DN 150 to DN 125 or 100.

Installation example Attica Jumbo drain made of PUR



Attica Jumbo drain with adaptor and connecting piece for vapour traps fastening cuff in the insulated roof. To prevent frost damage, we recommend using our trace heating systems (see page 74).

Attica Jumbo Drain with accessories

Dimension | Art. No.

NEW!



Attica Jumbo drain made of PUR (the "big mouth") without adaptor
3436.N



Adaptor for attica Jumbo drain made of PUR
3439.N



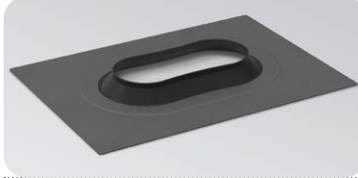
Reducing element made of PUR DN 150-125/100
3437



Cistern
Drain support ca. 120 mm
5-piece **3438**
Drain support ca. 150 mm
4-piece **2438**



Attica stainless steel leaf trap grate
3494.J
Drainage capacity is not reduced!

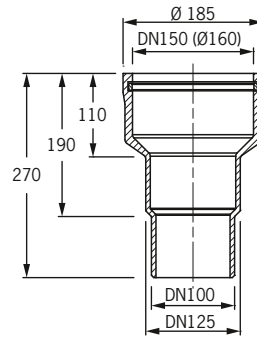


Vapour barrier connection cuff
2499

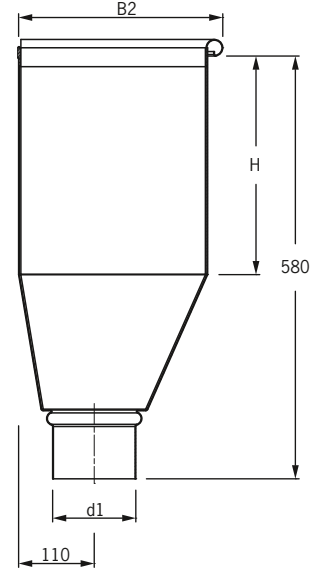
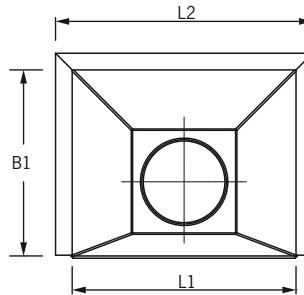


Pipe cover plate made of stainless steel
suitable for attica Jumbo drain
2462.N

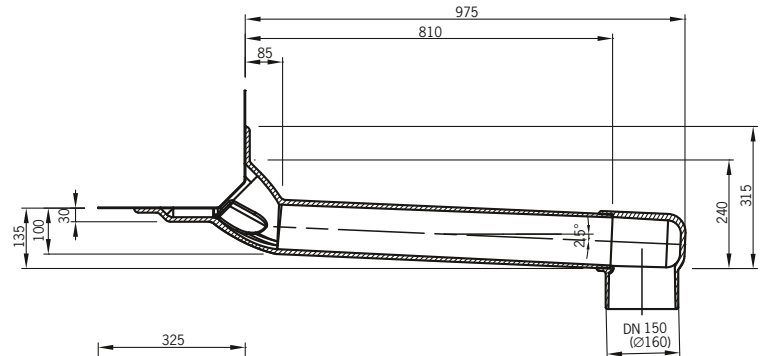
Technical data reducing element and cistern



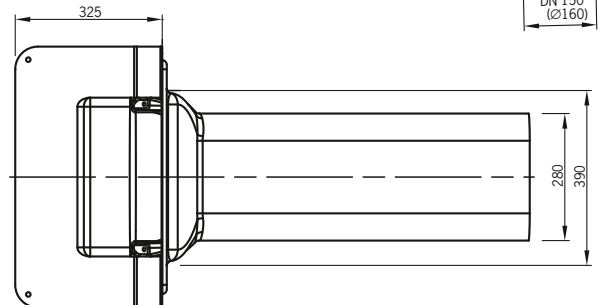
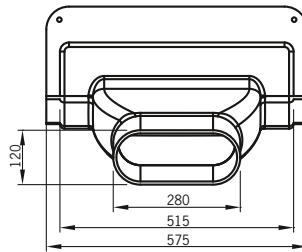
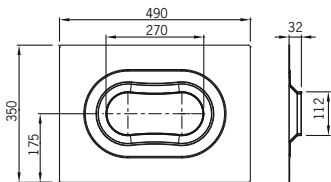
| Art. | d1 | L1 | L2 | B1 | B2 | H |
|------|-----|-----|-----|-----|-----|-----|
| 3438 | 120 | 300 | 340 | 250 | 270 | 310 |
| 2438 | 150 | 345 | 385 | 300 | 320 | 335 |



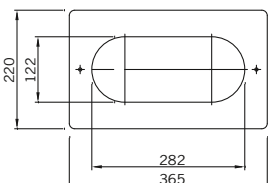
Technical data attica Jumbo drain



Technical data connecting piece for vapour traps fastening cuff



Technical data pipe cover plate



| Art. No | Drainage capacity* |
|---------|--------------------|
| 3436.N | 9,2 l/s (45 mm) |
| | 12,2 l/s (55 mm) |
| | 15,7 l/s (65 mm) |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attica Power Drain negative pressure – more power



Attica power drain with pressure flowthrough element for main drainage



Attica power drain with pressure flowthrough element for emergency drainage

Attica power drain for main drainage

including:

- Attica flat drain with adhesive collar DN 70, long version
- Pressure flowthrough element for main drainage (black)
- stainless steel pipe bend DN 70, 87,5°
- 2 safety clamps
- stainless steel pipe DN 70 2m resp. 3m

Attica power drain for emergency drainage

including:

- Attica flat drain with adhesive collar DN 70, long version
- Pressure flowthrough element for emergency drainage (red)
- stainless steel pipe bend DN 70, 87,5°
- stainless steel pipe bend DN 70, 45°
- 3 safety clamps
- stainless steel pipe DN 70 2m resp. 3m

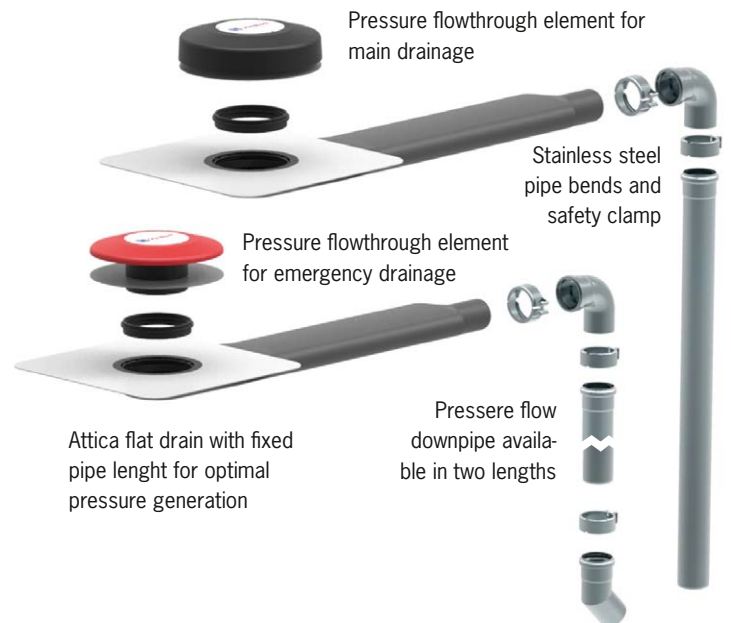
Attica power drain

drains via negative pressure and attains very high drainage capacities.

The **Grumbach attica power drain** consists of the Grumbach **attica flat drain DN 70**, a special **pressure flowthrough element** and the corresponding **pressure flowthrough downpipe** made of stainless steel with a defined length incl. a sufficient number of **pressure pipe connection clamps**.

Planning of the **attica power drain** is so easy (as with free level drainage) due to the fixed provision of all drainage capacity parameters by the manufacturer.

Due to the low construction height of the attica flat drain (only 70 mm), the attica power drain fits perfectly into the heat insulation!



Installation example attica power drain

Grumbach attica power drain for **main drainage**.

Installed in a insulated roof with optional vapour barrier inlet and pressure flow downpipe.



Grumbach attica power drain for **emergency drainage**.

Installed in a insulated roof with optional vapour barrier inlet and pressure flow downpipe.



■ Attica Power Drain negative pressure – more power

Dimension | Art. No.



Attica power drain for main drainage

consisting of:

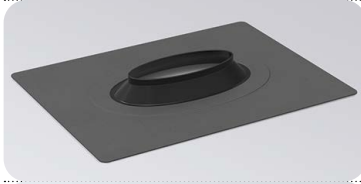
- Attica flat drain with adhesive collar DN 70, long version
- pressure flowthrough element for main drainage
- stainless steel pipe bend DN 70, 87,5°
- 2 safety clamps
- stainless steel pipe DN 70, available in 2 downpipe lengths:
2 m **3623.2**
3 m **3623.3**



Attica power drain für die Notentwässerung

bestehend aus:

- Attica flat drain with adhesive collar DN 70, long version
- pressure flowthrough element for emergency drainage
- stainless steel pipe bend DN 70, 87,5°
- stainless steel pipe bend DN 70, 45°
- 3 safety clamps
- stainless steel pipe DN 70, available in 2 downpipe lengths:
2 m **3624.2**
3 m **3624.3**



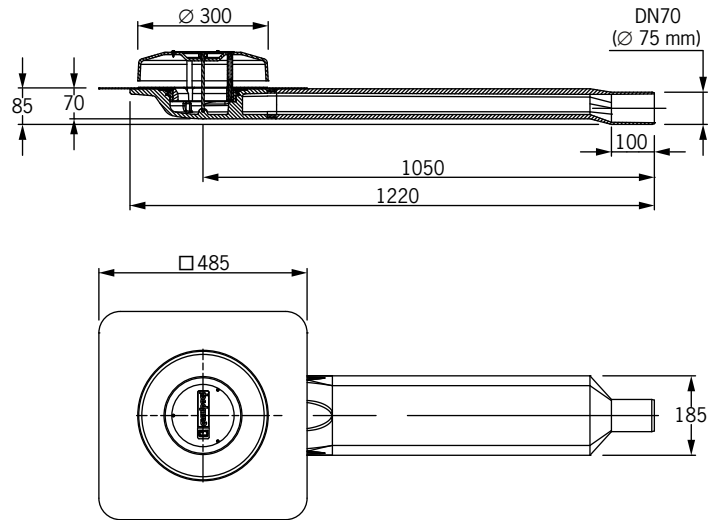
Vapor barrier connection cuff DN 70/100 **2491.M**



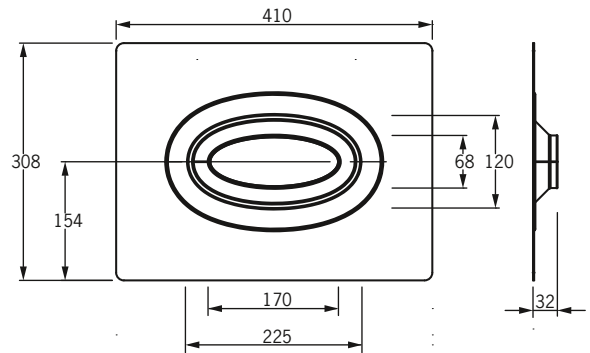
Insulating element made of EPS

long version
DN 70 **5910.70**

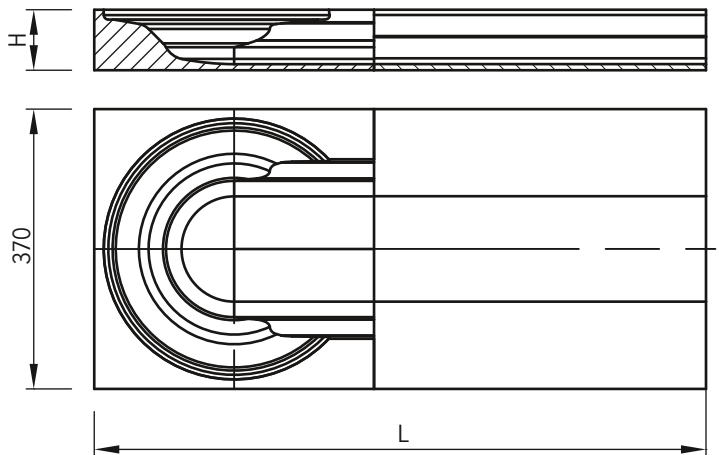
Technical data attica power drain



Technical data vapor barrier connection cuff



Technical data insulating elements



| Art. No. | Downpipe length | Accumulation height in mm | | | | | |
|---------------|-----------------|-----------------------------|------|------|------|------|------|
| | | 15 | 25 | 35 | 45 | 55 | 65 |
| | | Drainage capacities in l/s* | | | | | |
| 3623.2 | 2 m | 2,2 | 6,0 | 13,0 | 13,5 | 13,6 | 13,7 |
| 3623.3 | 3 m | 2,2 | 6,0 | 13,5 | 14,5 | 14,6 | 14,7 |
| 3624.2 | 2 m | 10,5 | 14,0 | 14,2 | 14,3 | 14,3 | 14,3 |
| 3624.3 | 3 m | 10,8 | 15,0 | 15,2 | 15,3 | 15,3 | 15,3 |

| Art. No. | L | H |
|-----------------|-----|-----|
| 5910.70 | 810 | 80 |
| 5910.100 | 810 | 100 |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Attica Flat Drain short or long version

Attica flat drain made of PUR

The drain is suitable for main and emergency drainage and built for high drainage capacities. It also displays a very flat design and is available in two lengths.



Installation example attica flat drain

Attica flat drain DN 100, placed in the heat insulation, inserted into the sleeve of the attica balcony drain in the vapour barrier and connected to the roof seal. **To prevent frost damage, we recommend using our trace heating systems (see page 74).**



Installation example attica flat drain with adhesive collar

Attica flat drain DN 100 with adhesive collar, placed in the heat insulation, inserted into the sleeve of the attica balcony drain in the vapour barrier and connected to the roof seal.

To prevent frost damage, we recommend using our trace heating systems (see page 74).



Attica Flat Drain short or long version

Dimension | Art. No.



Attica flat drain made of PUR short version:

610 mm
DN 70 **2442**
DN 100 **2444**



long version:

1200 mm
DN 70 **2442.L**
DN 100 **2444.L**



Attica flat drain made of PUR with adhesive collar

short version: 610 mm
DN 70 **3441**
DN 100 **3443**



long version: 1200 mm
DN 70 **3441.L**
DN 100 **3443.L**

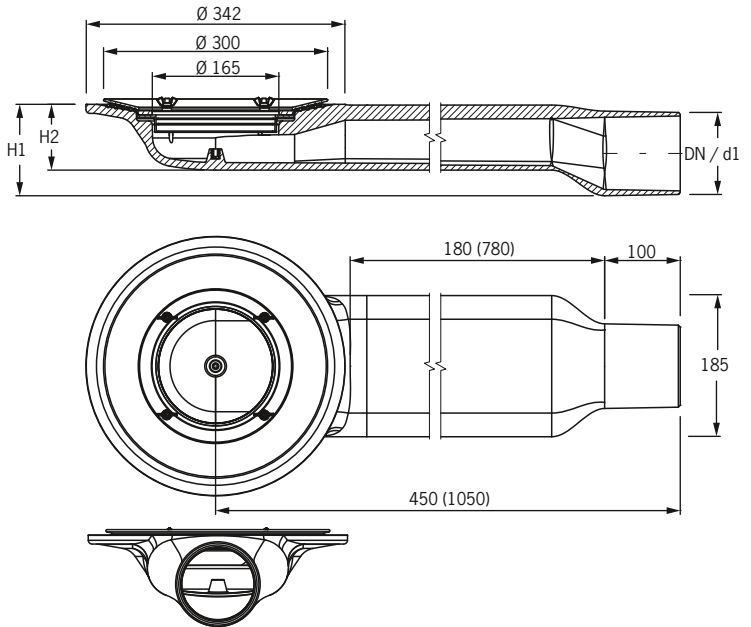
NEW!



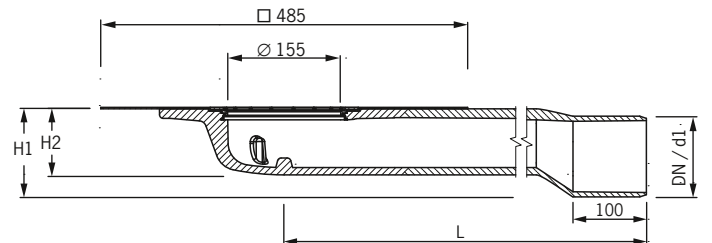
Transition seal made of EPDM
for connecting the stainless steel
flat sewer system to the attica flat
drain (see page 63)

DN100 **2484**

Technical data attica flat drain

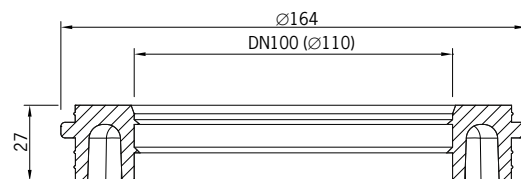


| Art. No. | DN | d1 | H1 | H2 | Drainage capacities* |
|----------|-----|-----|-----|----|----------------------|
| 2442 | 70 | 75 | 85 | 70 | 3,8 l/s (35 mm) |
| 2444 | 100 | 110 | 120 | 90 | 5,8 l/s (35 mm) |
| 2442.L | 70 | 75 | 85 | 70 | 6,3 l/s (35 mm) |
| 2444.L | 100 | 110 | 120 | 90 | 6,4 l/s (35 mm) |



| Art. No. | DN | d1 | H1 | H2 | L | Drainage capacities* |
|----------|-----|-----|-----|----|------|----------------------|
| 3441 | 70 | 75 | 85 | 70 | 450 | 3,8 l/s (35 mm) |
| 3443 | 100 | 110 | 120 | 90 | 450 | 5,8 l/s (35 mm) |
| 3441.L | 70 | 75 | 85 | 70 | 1050 | 6,3 l/s (35 mm) |
| 3443.L | 100 | 110 | 120 | 90 | 1050 | 6,4 l/s (35 mm) |

Technical data transition seal made of EPDM



*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

Attica Flat Drain with accessories

Dimension | Art. No.



Adaptor ring/accumulating element made of PUR
 Connection between an attica flat drain and an extension element
3449.A



Inlay sieve made of stainless steel
 suitable for attica flat drain with adhesive collar
3449.S



Extension for emergency drainage
 suitable for attica flat drain with adhesive collar
3449.N



Vapor barrier connection cuff DN 70/100
2491.M

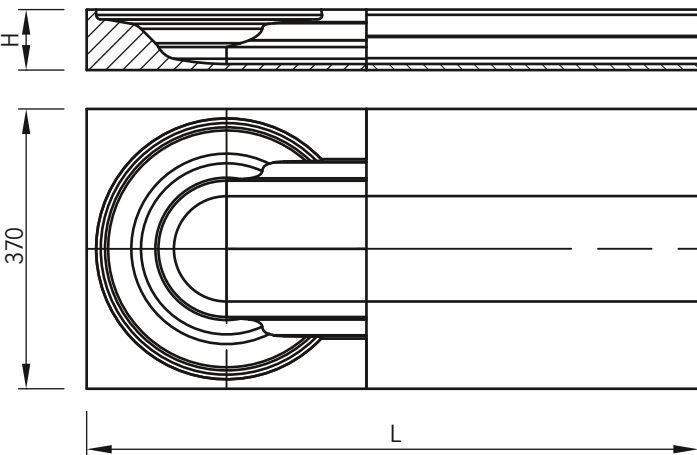


Insulating element made of EPS
only suitable for attica flat drain with adhesive collar!
 short version
 DN 70 **5911.70**
 DN100 **5911.100**



long version
 DN 70 **5910.70**
 DN100 **5910.100**

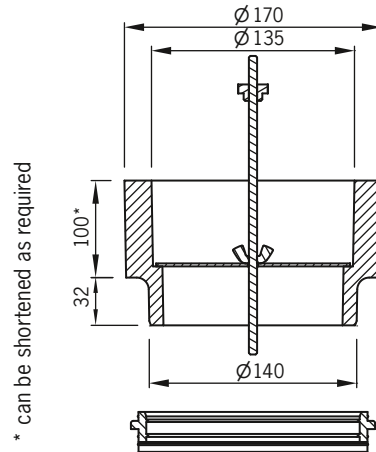
Technical data insulating elements



| Art. No. | L | H |
|----------|-----|-----|
| 5911.70 | 370 | 80 |
| 5911.100 | 370 | 100 |

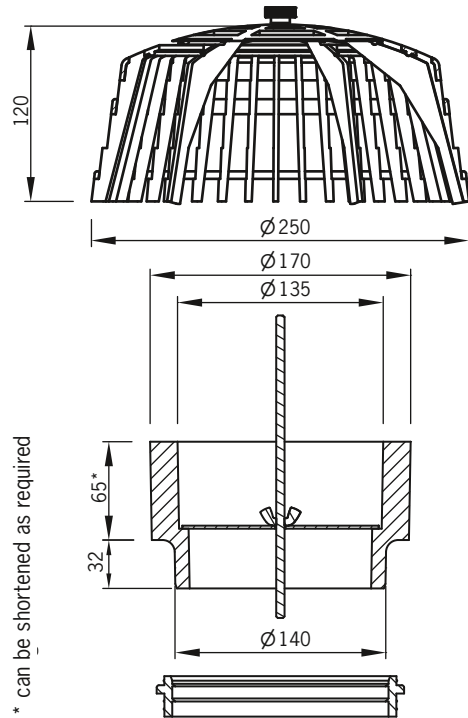
| Art. No. | L | H |
|----------|-----|-----|
| 5910.70 | 810 | 80 |
| 5910.100 | 810 | 100 |

Technical data adaptor ring/accumulating element



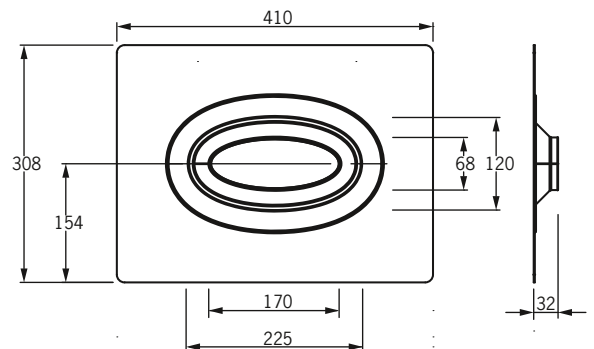
* can be shortened as required

Technical data extension for emergency drainage



* can be shortened as required

Technical data vapor barrier connection cuff



■ Attica Plus Drain with stainless steel sewer system



Attica Plus drain made of PUR

heat insulated, CFC-free, with foam filled connection collar (made of bitumen, PVC or special foil)*, **please indicate when ordering!** This drain achieves a high drainage capacity (5 l/s at 35 mm accumulation level) with a **construction height of only 84 mm!**

Installation example attica Plus drain



Dimension | Art. No.



Attica Plus drain made of PUR (black)

3435



Typ I



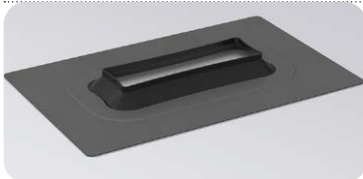
Typ II

Attica leaf trap grate made of stainless steel

Type I 3494.P

Type II 3494.P2

(when using the flat sewer system)



Vapor barrier connection cuff 2496.M



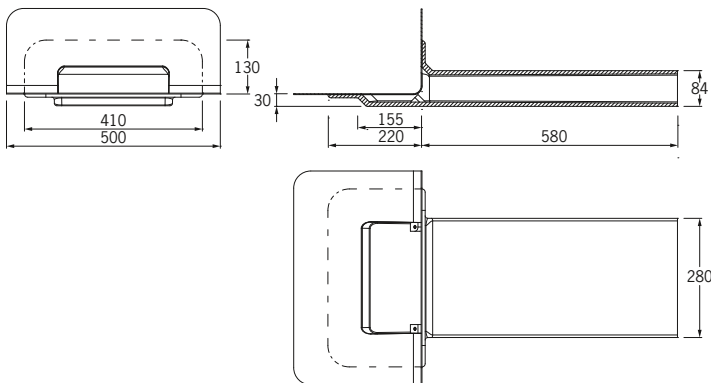
Cover plate made of stainless steel

suitable for attica Plus drain
2461

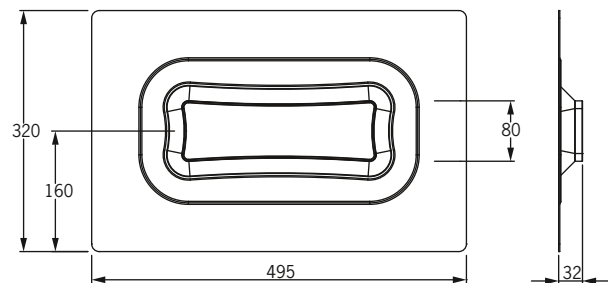
Attica Plus drain with leaf trap grate made of stainless steel and cistern in a insulated roof.

To prevent frost damage, we recommend using our trace heating systems (see page 74).

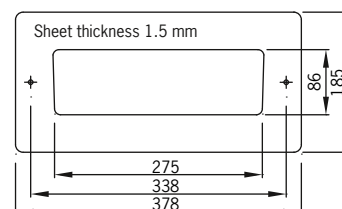
Technical data Attica Plus drain



Technical data vapor barrier connection cuff



Technical data cover plate made of stainless steel



| Art. No | Drain capacities attica Plus drain and stainless steel flat sewer system |
|---|---|
| 3435 | 5,0 l/s (35 mm accumulation level, free outlet) The drainage capacity is not reduced by using the leaf trap grate! |
| | 2,0 l/s (35 mm accumulation level, with inserted flat sewer system, free outlet) |
| The drainage capacity of the the flat sewer system corresponds with the drainage capacity of the drain pipe used at the particular level of the pipe. | |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Stainless Steel Flat Sewer System in conjunction with the Attica Plus Drain/Attica Flat Drain for cascade or staggered storey Drainage



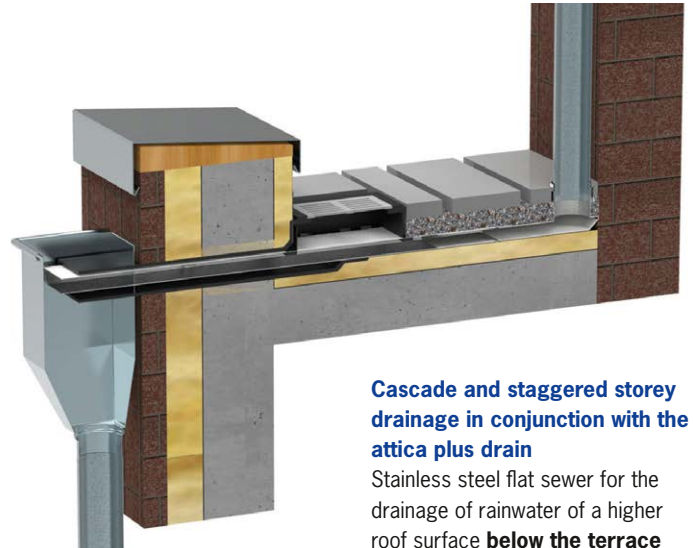
Stainless steel flat sewer system

Especially high quality and durable **stainless steel flat sewer system** for the collection and targeted direction of rainwater over e.g. terraces, balconies or flat roofs with especially low construction heights. Simply lay it between the damp proof layer and the surface layer.

The water is directed and channelled beyond the edge of the building without stressing the transfer surface.

If the attica is closed on all sides, the flat channel can be routed to the outside through the **attica flat drain** (in conjunction with the **new transition seal**) or the **attica plus drain**.

The flat attica plus drain has a particularly high drainage capacity and not only serves the flat sewer, but also **the water from the sealing layer**.



Cascade and staggered storey drainage in conjunction with the attica plus drain

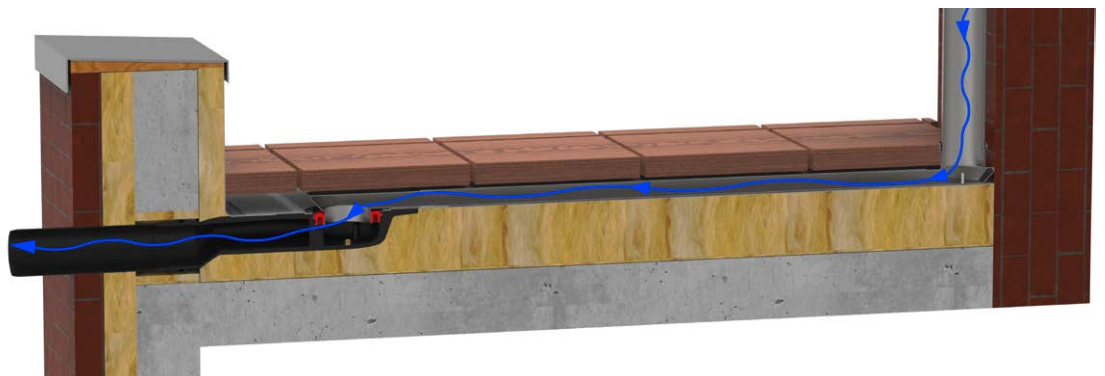
Stainless steel flat sewer for the drainage of rainwater of a higher roof surface **below the terrace covering through the attica to the outside**.

Here, combined with the **attica plus drain** and the corresponding inlet shaft for the simultaneous drainage of the terrace surface.

To prevent frost damage, we recommend using our trace heating systems (see page 74).

Cascade and staggered storey drainage in conjunction with the flat drain made of PUR with adhesive collar

With the **new EPDM transition seal** (shown in red), the flat channel system can also be connected to the **attica flat drain with adhesive collar**. Simultaneous drainage of the terrace surface through the attica flat channel drain is not possible in this case.



Stainless Steel Flat Sewer System with accessoire

Dimension | Art. No.



Stainless steel flat sewer system

1. Connection socket
2670



2. Main body
2672

length 950 mm
height 40 mm



3. Connector
2674

4. Angled connector 45°
2676



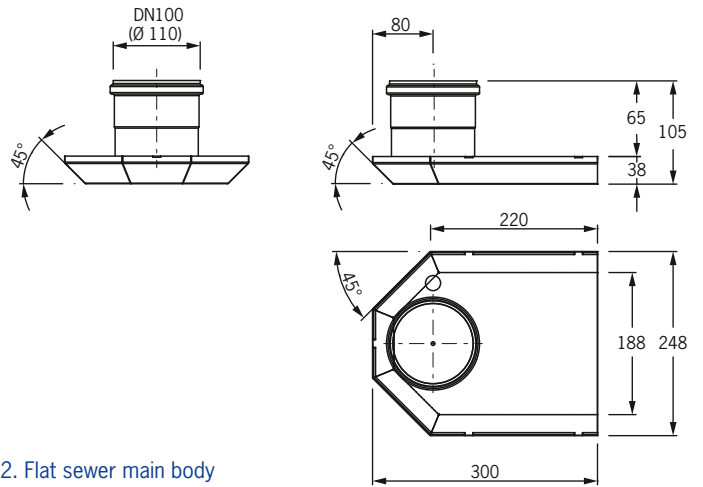
5. Drain connection
2678

The flat sewer system consists of a maximum of 5 different components:

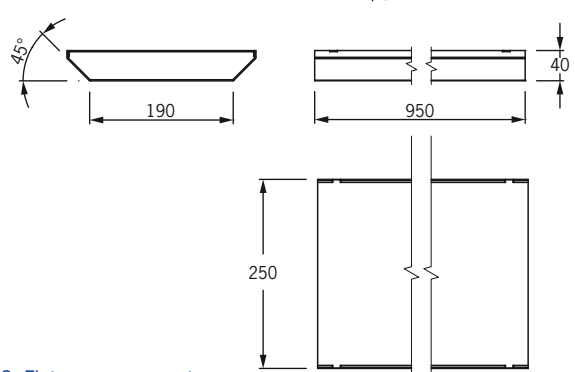
1. flat sewer **connection socket**
2. flat sewer **main body**
3. flat sewer **connector**
4. flat sewer **angled connector 45°**
5. flat sewer **drain connection**

Technical data stainless steel flat sewer system

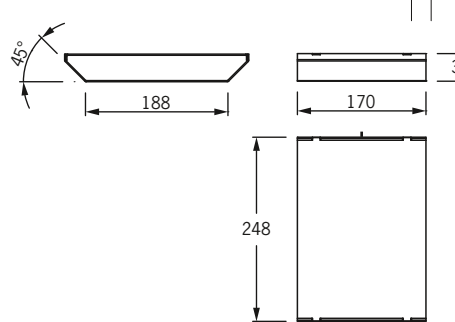
1. Flat sewer connection socket



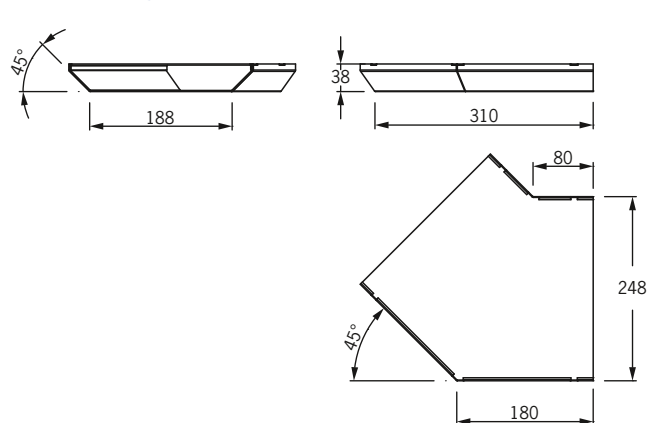
2. Flat sewer main body



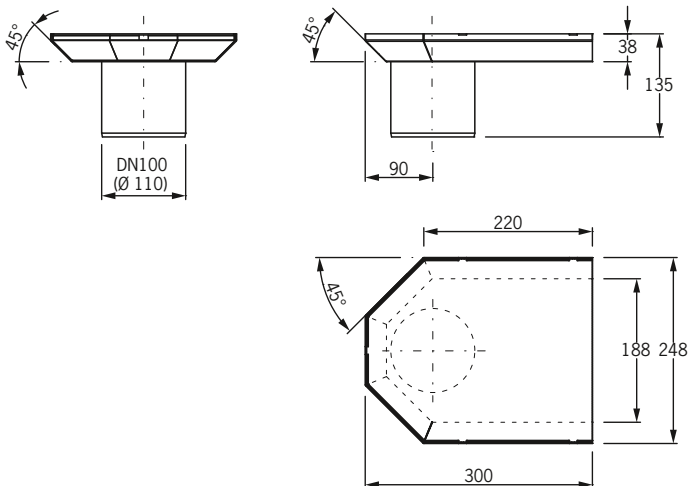
3. Flat sewer connector



4. Flat sewer angled connector 45°



5. Flat sewer drain connection



Stainless Steel Flat Sewer System with Attica Plus Drain or Attica Flat Drain



Attica Plus drain made of PUR (black)

3435



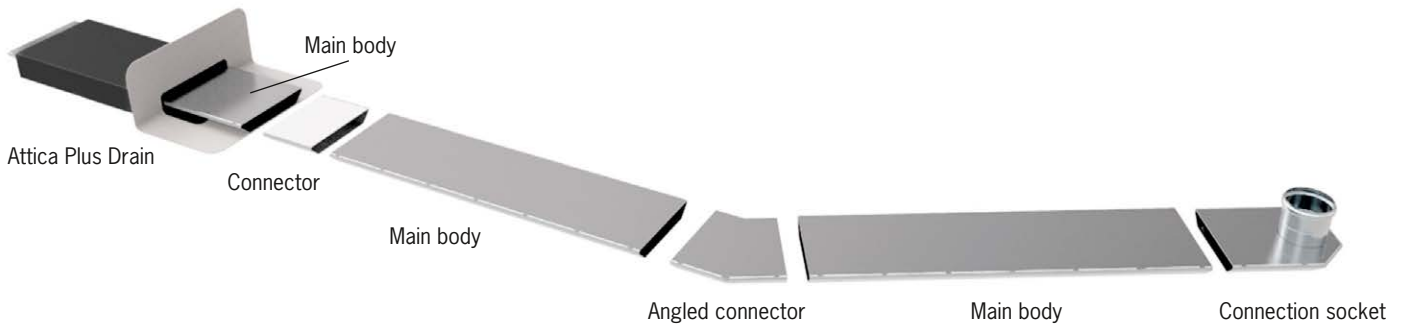
Attica flat drain made of PUR with adhesive collar

- DN 70 **3441** (610 mm)
- DN 100 **3443** (610 mm)
- DN 70 **3441.L** (1200 mm)
- DN 100 **3443.L** (1200 mm)

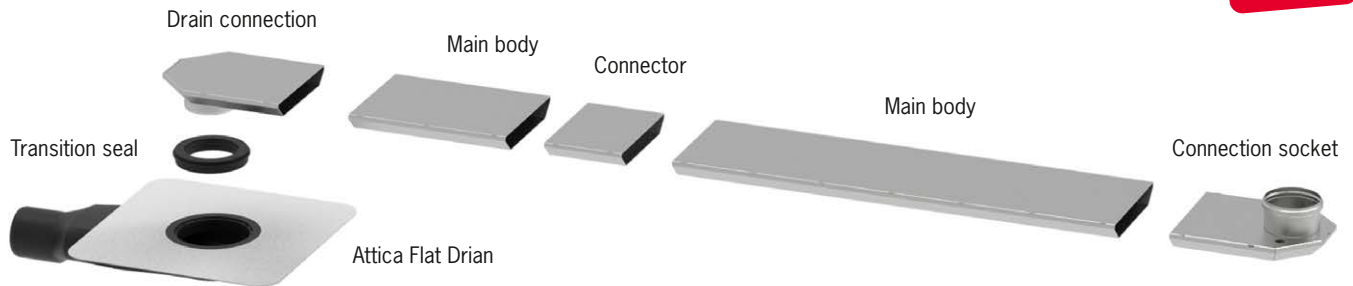
The flat sewer system can be combined with the attica plus drain and the attica flat drain and consists of a maximum of 5 different components:

1. flat sewer **connection socket**
2. flat sewer **main body**
3. flat sewer **connector**
4. flat sewer **angled connector 45°**
5. flat sewer **drain connection**

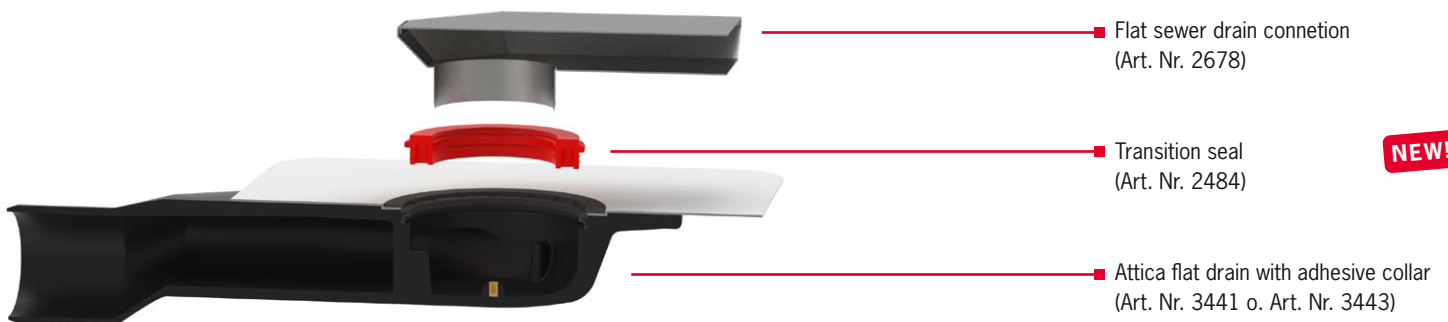
Stainless steel flat sewer system inconjunction with attica plus drain



Stainless steel flat sewer system inconjunction with attica flat drain with adhesive collar



With the new **transition seal** (shown in red), the flat sewer system can be connected to the attica flat drain with adhesive collar. The **transition seal made of EPDM** tapers the cup area of the drain to DN 100 so that the drain connection of the flat sewer system (or bends, pipes or standpipes) can be inserted tightly.



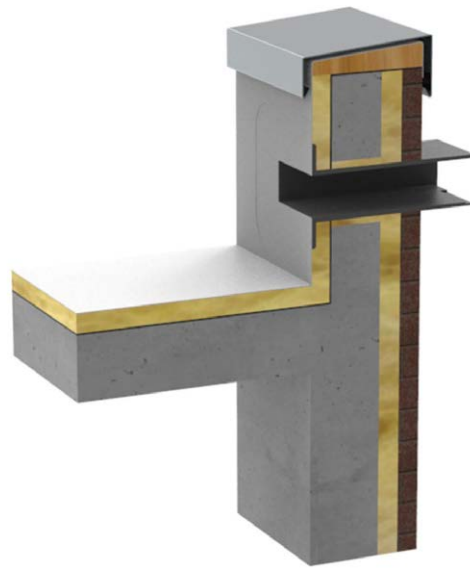
Attica Rectangular Emergency Overflow for large hall roofs



Attica rectangular emergency overflow 400/600 made of PUR

- Large overflow opening for high drainage capacity
- made of high-quality, CFC-free polyurethane hard foam (PUR) with permanent cast connection collar
- heat-insulated version
- for attica thickness up to 700 mm (can be shortened to suit the attica)
- Available with all common roof sealings (please mention type of connection collar when ordering).

Installation example attica rectangular emergency overflow



Dimension | Art. No.



Attica rectangular emergency overflow 400 made of PUR

open width 400 mm, length
400 mm **3424**
585 mm **3424.6**
775 mm **3424.8**



Attica rectangular emergency overflow 600 made of PUR

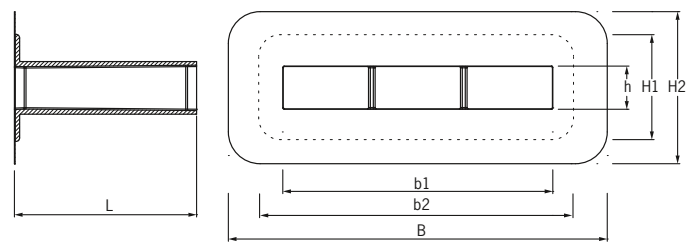
open width 600 mm, length
400 mm **3426**
585 mm **3426.6**
775 mm **3426.8**



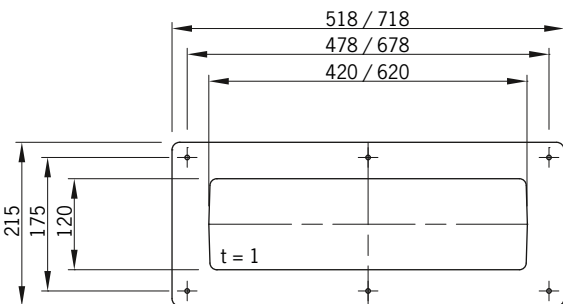
Cover plate made of stainless steel

suitable for attica rectangular emergency overflow 400
2463.400
suitable for attica rectangular emergency overflow 600
2463.600

Technical data Attica rectangular emergency overflow 400/600



Technical data pipe cover plate made of stainless steel



| Art. No. | B | b1 | b2 | h | H1 | H2 | L | Drainage capacities* |
|---------------|-----|-----|-----|-----|-----|-----|-----|----------------------|
| 3424 | 635 | 400 | 540 | 100 | 235 | 335 | 400 | 3,4 l/s (35 mm) |
| 3426 | 835 | 600 | 740 | 100 | 235 | 335 | 400 | 5,2 l/s (35 mm) |
| 3424.6 | 635 | 400 | 540 | 100 | 235 | 335 | 585 | 3,4 l/s (35 mm) |
| 3426.6 | 835 | 600 | 740 | 100 | 235 | 335 | 585 | 5,2 l/s (35 mm) |
| 3424.8 | 635 | 400 | 540 | 100 | 235 | 335 | 775 | 3,4 l/s (35 mm) |
| 3426.8 | 835 | 600 | 740 | 100 | 235 | 335 | 775 | 5,2 l/s (35 mm) |

all sizes in mm

*Drainage capacity acc. to DIN EN 12532 in l/sec (accumulation height in millimeters)

Attica Rectangular Emergency overflow with fixed accumulation height



Attica rectangular emergency overflow 400.35/600.35 made of PUR

- Large overflow opening for high drainage capacity
- made of high-quality, CFC-free polyurethane hard foam (PUR) with permanent cast connection collar
- heat-insulated version
- for attica thickness up to 700 mm (can be shortened to suit the attica)
- simple assembly on **fixed accumulation height of 35 mm**
- Available with all common roof sealings (please mention type of connection collar when ordering).

Installation example attica rectangular emergency overflow



Dimension | Art. No.



Attica rectangular emergency overflow 400.35 made of PUR

open width 400 mm, length
 400 mm **3425**
 585 mm **3425.6**
 775 mm **3425.8**



Attica rectangular emergency overflow 600.35 made of PUR

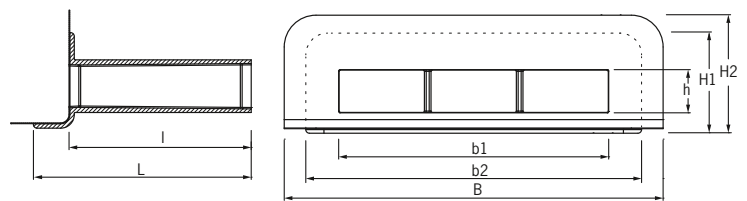
open width 600 mm, length
 400 mm **3427**
 585 mm **3427.6**
 775 mm **3427.8**



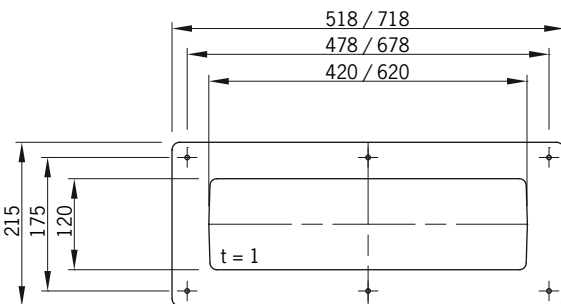
Cover plate made of stainless steel

suitable for attica rectangular emergency overflow 400.35
2463.400
 suitable for attica rectangular emergency overflow 600.35
2463.600

Technical data Attica rectangular emergency overflow 400.35/600.35



Technical data cover plate made of stainless steel



| Art. No. | B | b1 | b2 | h | H1 | H2 | L | I | Drainage capacities* |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|
| 3425 | 635 | 400 | 540 | 100 | 210 | 260 | 480 | 400 | 3,4 l/s (35 mm) |
| 3427 | 835 | 600 | 740 | 100 | 210 | 260 | 480 | 400 | 5,2 l/s (35 mm) |
| 3425.6 | 635 | 400 | 540 | 100 | 210 | 260 | 665 | 585 | 3,4 l/s (35 mm) |
| 3427.6 | 835 | 600 | 740 | 100 | 210 | 260 | 665 | 585 | 5,2 l/s (35 mm) |
| 3425.8 | 635 | 400 | 540 | 100 | 210 | 260 | 855 | 775 | 3,4 l/s (35 mm) |
| 3427.8 | 835 | 600 | 740 | 100 | 210 | 260 | 855 | 775 | 5,2 l/s (35 mm) |

alle Maße in mm

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

■ Balcony Complete Drain with frostproof odour trap

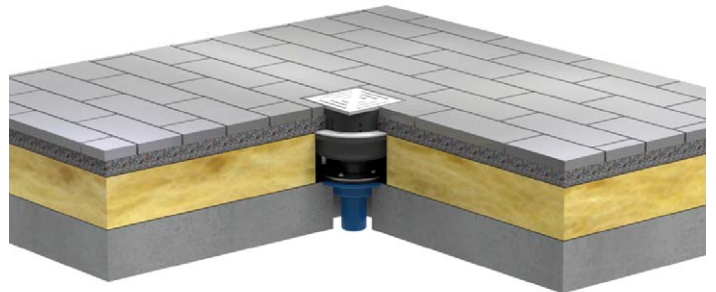


The balcony complete drain DN 50/DN 40 vertical or horizontal

suited **perfectly for balcony and terrace:**

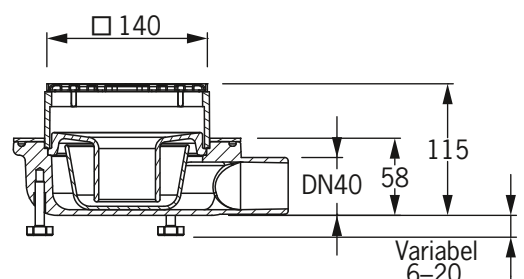
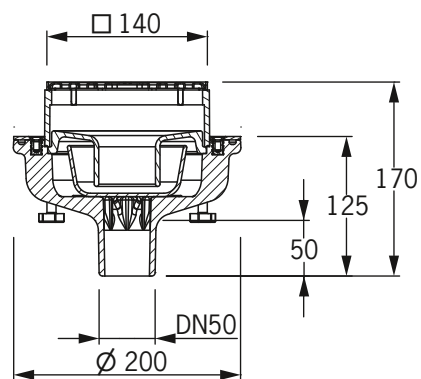
- frostproof odour trap made of EPDM
- height-adjustable inlet grate made of stainless steel
- Clamp flange made of stainless steel for the secure clamping of roofing surfaces of all kinds
- Feet for simple positioning, e. g. for screed construction
- Inlet opportunity at drainage level
- Vertical or horizontal drain

Installation example balcony complete drain



Built-in balcony drain DN 50 as basic element and slip on balcony complete drain DN 50 as extension element installed in a insulated roof. The high-adjustable inlay grate serves as an edge to the tiled surface.

Technical data balcony complete drain



Dimension | Art. No.

Balcony complete drain vertical

DN 50 **2501**

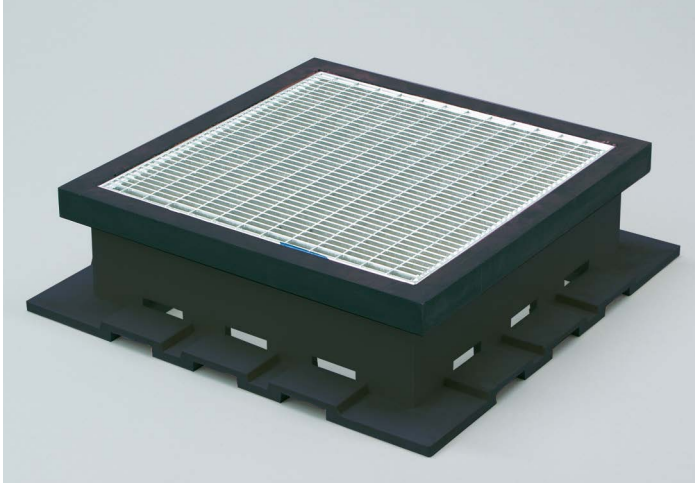
Balcony complete drain horizontal

DN 40 **2502**

Extension ring made of PUR
for the heightening up to 10 cm,
can be stacked

2509





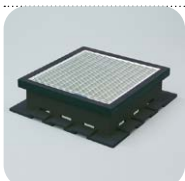
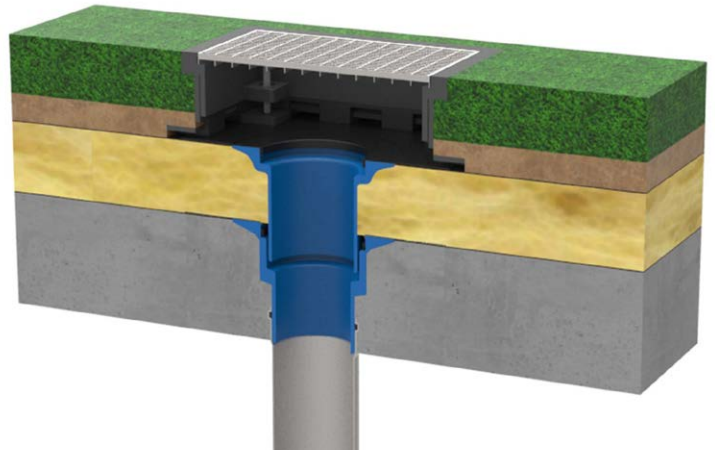
Green roof safety drain made of PUR, 500 x 500 mm, consists of bottom part, top part and galvanised inlet grate, max. Load 0.5 t, height-adjustable: 160–220 mm

The green roof safety drain

is the secure, robust drain for green roofs etc.

- made of PUR, resilient up to 0,5 t
- with lid made of steel, hot dipped galvanised
- secure drainage on two levels
- accessible drain, even for back-up
- for every construction height from 16 cm

Installation example green roof safety drain



Dimension | Art. No.

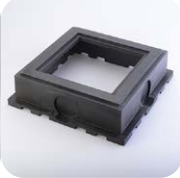
Green roof safety drain made of PUR

500 mm **5000**



Extension element made of PUR for 80 mm extension

suitable for Art. No. 5000
5001



Green roof safety drain small made of PUR

365 mm **5010**
without sieve panel, as extension element up to 93 mm extension
5011

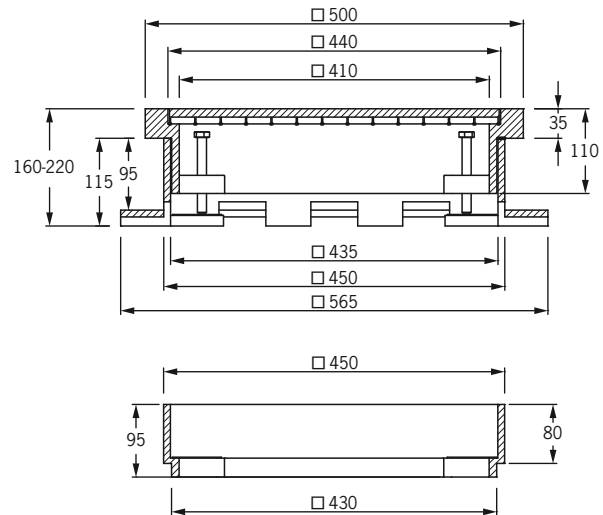


Green roof safety drain small made of PUR PLUS

as Art. 5010, although with cladding from above made of stainless steel

5010.E

Technical data green roof safety drain



The green roof safety drain small made of PUR

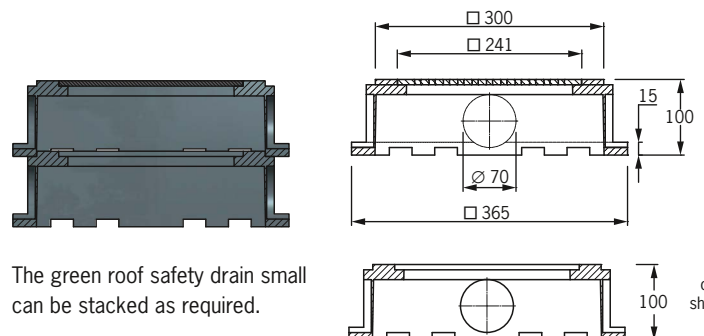
- especially suited for extensively vegetated green roofs



Green roof safety drain made of PUR, 365 x 365 mm, with pre-formed connections for drainpipe \varnothing 70 mm and sieve panel made of aluminum. Height 100 mm

Especially suited for extensively vegetated flat roofs!

Installation example and technical data green roof safety drain small



The green roof safety drain small can be stacked as required.

Retention Attachment

less can be more



Reducing of drainage capacity made easy

The Grumbach retention attachment enables the adjustable, throttled drainage of rainwater in connection with various drains from the flat roof range.

All retention attachments

- are made of CFC-free PUR
- with rotatable overflow element to regulate the opening size
- Throttling possible by four adjustable inlet openings

Retention element without seal

- suitable for all Universal drains (except for extension elements)

Retention element with seal Type I

- incl. suitable backflow seal made of EPDM Art. No. 5990
- suitable for extension elements of the Universal drains

Retention element with seal Type II

- incl. suitable backflow seal made of EPDM Art. No. 5990.N
- suitable for the compact collar drains
- suitable for extension elements of the compact collar drains
- suitable for attica flat drains with adhesive collar



Dimension | Art. No.



Retention element
without seal
2150



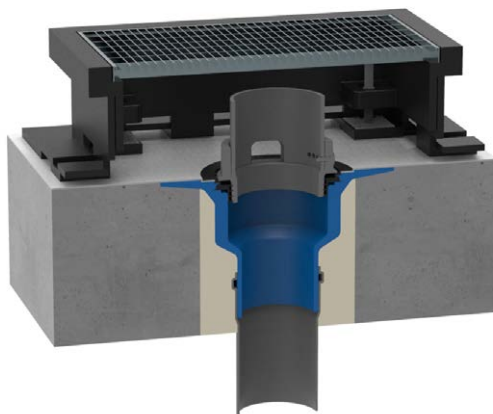
Retention element Type I
with seal Art. No. 5990
2150.I



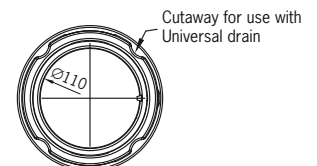
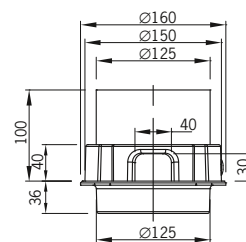
Retention element Type II
with seal Art. No. 5990.N
2150.II

Installation example retention element Type II

Retention element Type II inserted in a compact collar drain with applied backflow seal for a throttled drainage of the accumulating rainwater. Delimitation to the greenery is done with a green roof safety drain e.g.(Art. No. 5000)



Technical data retention element



| Art. | Description | Opening size | Drainage capacity* |
|---------|--|--------------|--------------------|
| 2150 | Retention element | 100% | 1,25 l/s (35 mm) |
| 2150.I | Retention element with seal Type I resp. II | 75% | 1,05 l/s (35 mm) |
| 2150.II | | 50% | 0,75 l/s (35 mm) |
| | | 25% | 0,40 l/s (35 mm) |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

Stainless Steel Drain

The indestructible one

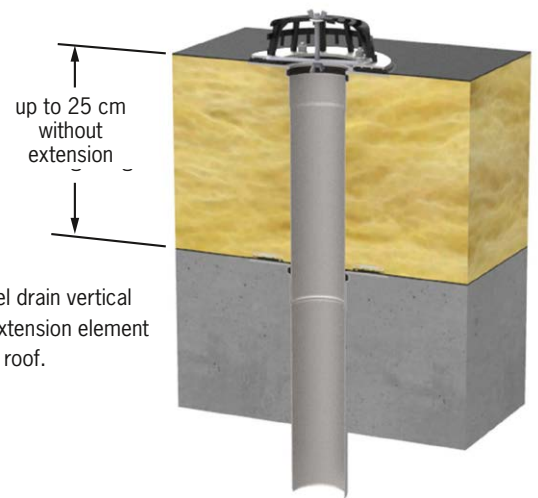


Horizontal stainless steel drain with corresponding extension element

The Grumbach stainless steel drain

- the robust, non-flammable drain series made of rust free stainless steel
- available in three nominal widths DN 50, 70 or 100
- with fastening holes in the fixed flange for secure fastening to the surface
- absolutely back-flow secure due to a sleeve connection
- due to the flange press seal and clamp, any extendable roof seal can be connected securely
- high stability and drainage capacity
- due to its attractive appearance it can also be used as an Attika emergency overflow
- due to its special construction (without pot, long supports) it is easy to assemble and also a good choice as a redevelopment drain, among other things.

Installation example und technical data stainless steel drain



Stainless steel drain vertical DN 70 with extension element in a insulated roof.

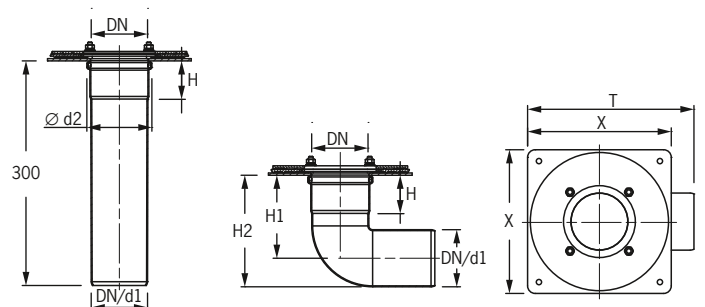


Stainless steel drain horizontal DN 70 in a ventilated roof

| Dimension Art. No. |
|--|
| Stainless steel drain vertical DN 50 2600 DN 70 2602 DN 100 2604 |
| Stainless steel drain horizontal: DN 50 2611 DN 70 2612 DN 100 2614 |
| Extension element made of stainless steel DN 50 2680 DN 70 2682 DN 100 2684 |

| Art. | DN | d1 | d2 | H | H1 | H2 | X | T | Drainage capacities* |
|------------|-----|-----|-----|----|-----|-----|-----|-----|----------------------|
| 2600, 2680 | 50 | 50 | 65 | 45 | - | - | 150 | - | 1,5 l/s (35 mm) |
| 2602, 2682 | 70 | 75 | 90 | 55 | - | - | 190 | - | 3,5 l/s (35 mm) |
| 2604, 2684 | 100 | 110 | 125 | 65 | - | - | 240 | - | 5,1 l/s (35 mm) |
| 2611 | 50 | 50 | - | 38 | 81 | 106 | 150 | 170 | 2,0 l/s (35 mm) |
| 2612 | 70 | 75 | - | 50 | 112 | 150 | 190 | 210 | 4,1 l/s (35 mm) |
| 2614 | 100 | 110 | - | 55 | 133 | 188 | 240 | 260 | 5,2 l/s (35 mm) |

Technical data stainless steel drain

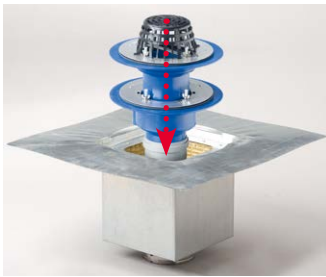


The stainless steel drains are non-flammable acc. to DIN 4102 (Fire protection class A1).

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)



Grumbach fire protection element for roof drains – **optimally adapted for the universal and compact collar drain series** from Grumbach. The fire protection cladding is shaped with a quadruple impression/recess on top, thus allowing an optimal positioning of the drain, water can then drain completely, without backing-up at the drain flange.



The Grumbach fire protection element prevents, in accordance with DIN 18234 Part 3-4, the spreading of an underside fire onto the roof surface not only through the roof section openings, but also through the rain downpipe opening.

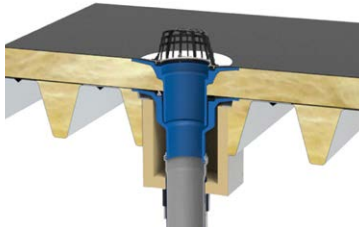
The Grumbach fire protection drain made of stainless steel is **particularly compact** and requires only a **minimal break in the roof surface**.

Alternatively, the drain can be used as a roof ventilator or power supply insert.

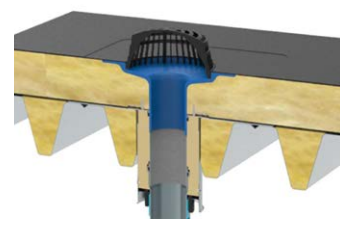
The fire protection drain is compatible with extension elements made of PUR or stainless steel.

Fire protection cladding and fire protection drain are suitable for use in trapezoid sheet roofs.

Installation example fire protection cladding and fire protection drain



Fire protection cladding with universal drain and extension element in trapezoid sheet roofs with insulated roof construction.



Compact fire protection drain DN 100 with inserted Eco drain top part in the trapezoid sheet roof with insulated roof construction.

Dimension | Art. No.



Only tested for use in trapezoidal sheet metal roofs!

Fire protection cladding

| | |
|--------|-------------|
| DN 70 | 5943 |
| DN 100 | 5945 |
| DN 125 | 5946 |
| DN 150 | 5948 |



Only tested for use in trapezoidal sheet metal roofs!

Compact fire protection drain made of stainless steel

| | |
|--------|-------------|
| DN 50 | 2640 |
| DN 70 | 2642 |
| DN 100 | 2644 |
| DN 125 | 2646 |

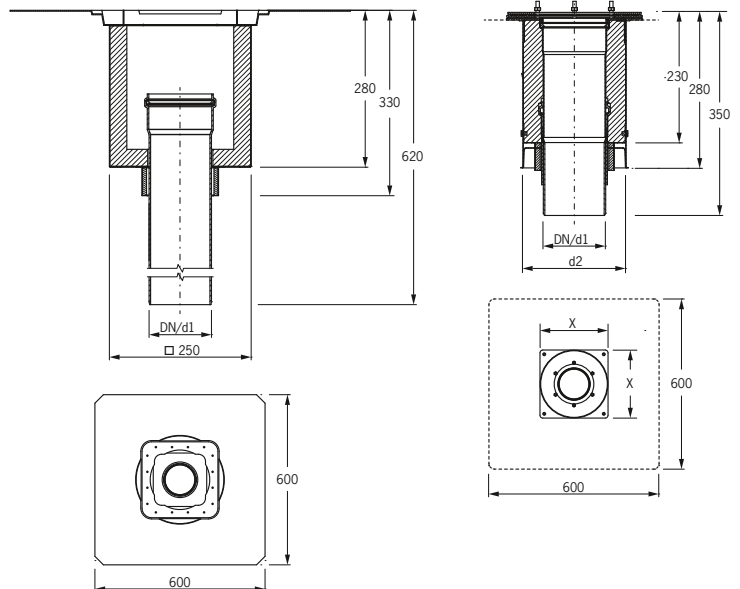


Suitable for use in concrete roofs in combination with a thermoplastic pipe connector and piping with stainless steel pipes to the next fire protection section

Fire protection cladding for thermoplastic pipes

| | |
|--------|-------------|
| DN 50 | 2641 |
| DN 70 | 2643 |
| DN 100 | 2645 |
| DN 125 | 2647 |
| DN 150 | 2648 |
| DN 200 | 2649 |

Technical data fire protection cladding and fire protection drain



| Art. | DN | d1 | d2 | X |
|-------------|-----|-----|----|---|
| 5943 | 70 | 75 | - | - |
| 5945 | 100 | 110 | - | - |
| 5946 | 125 | 125 | - | - |
| 5948 | 150 | 160 | - | - |

| Art. | DN | d1 | d2 | X |
|-------------|-----|-----|-----|-----|
| 2640 | 50 | 50 | 160 | 180 |
| 2642 | 70 | 75 | 160 | 180 |
| 2644 | 100 | 110 | 180 | 240 |
| 2646 | 125 | 125 | 200 | 240 |

Fastening Bushing for water-tight passages



Fastening bushing made of PUR (black)
Heat insulated, CFC-free, with integrated rubber seal and foamed connection collar (Bitumen, PVC or special foil)

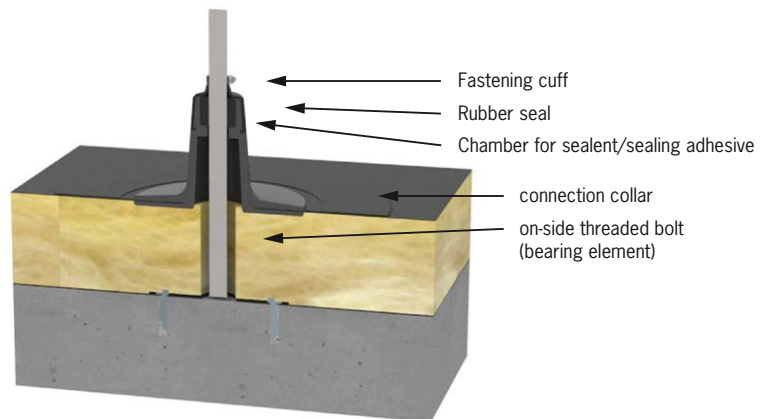


Fastening bushing made of PUR

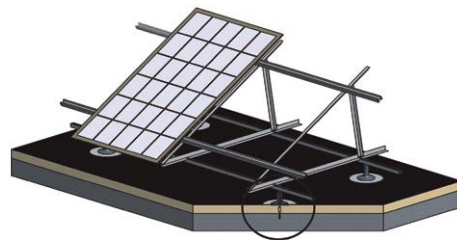
For support rail or point fastenings with threaded bolts on flat roofs.

- Optimal for fastening bushing for photovoltaic units, air-conditioning units, ventilation etc.
- Made of extra stable PUR integral hard foam and integrated rubber seal
- Seal level in accordance with flat roof guidelines
- With poured weldable collar for every roof surface
- The water-tight bushing of threaded bolts (M10 – M12) or similar or threaded bolts, rods or pipes (\varnothing 12–50 mm) through roofs with seal.
- Available with connection collar (Bitumen, PVC or special foil, please mention when ordering).
- Incl. sealant and stainless steel sealing cuff (Art.-No. 5141 and 5143)

Installation example fastening bushing



Fastening bushing with dowl plug screwed into insulated roof. With mounted bearing rail for e.g. PV-unit or other technical roof constructions.



Dimension | Art. No.



Fastening bushing 12 made of PUR (black)
for threaded rods M10–M12
5140

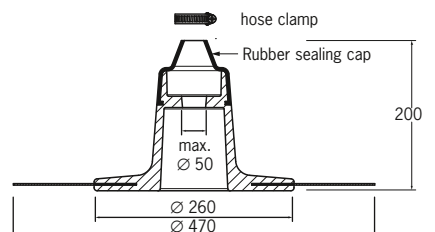
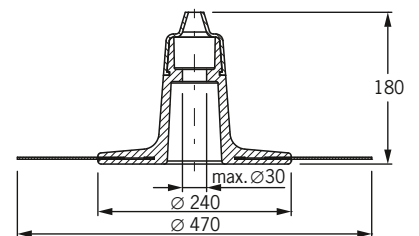
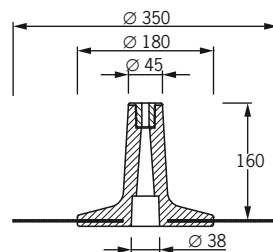


Fastening bushing 30 made of PUR (black)
for threaded rods, round rods or pipes \varnothing 12–30 mm
5141



Fastening bushings 50 made of PUR (black)
for threaded rods, round rods or pipes \varnothing 30–50 mm
5143

Technical data fastening bushing



■ Reach-through Element

Keeping an eye on the insulation



Reach-through element DN 125 with rubber cap and clamp

Reach-through element made of PUR

This allows you to keep access to your insulation.

- Easily accessible revision opening for checking insulation – **now with larger diameter!**
- Made of high-quality, CFC-free PUR integral hard foam
- With firmly cast-on connection sleeve, available to fit all common roofing membranes (please specify roofing membrane type when ordering).
- With removable rubber cap and clamp
- Long design for bridging e.g. green roof structures
- Can be shortened as required
- Ideal for checking the thermal insulation
- Suitable filling-/insulation element made of EPS available

Installation example reach-through element

Fig. below:
Reach-through element
DN 125 with matching insula-
tion element made of EPS

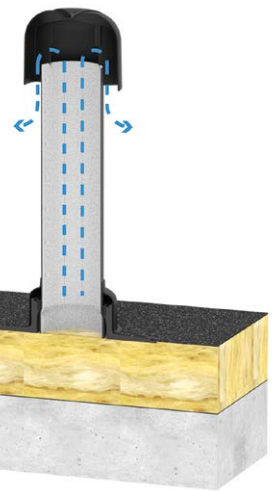


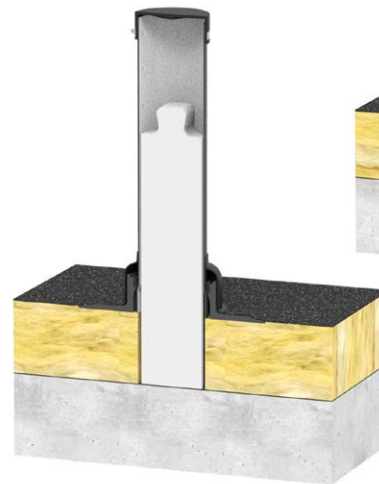
Fig. above:
Reach-through element
DN 125 with attached
rain cap, e.g. for drying
the thermal insulation



Matching element made of EPS
for filling revision openings in the
insulation



Rain cap DN 125



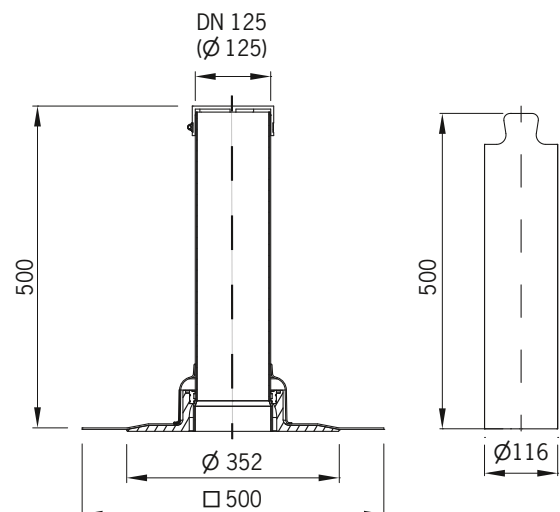
Dimension | Artikel-Nr.

**Reach-through element
made of PUR (black)**
DN 125 **5150**

**Filling/Insulation element made
of EPS**
suitable for the reach-through
element DN 125
5150.FD

Rain cap DN 125
DN 125 **5135.SK**

Technical data reach-through element / filling/insulation element





Dimension | **Art. No.**

Heating cuff 230 V, 10 W
self-regulating
5931



Heating cuffs

The universal heating option for drains made of PUR with a nominal width of DN 70 or more. Also ideal for retrofitting. With self-regulating PTC* heating element 230 V. We recommend using the temperature switch set basic (Art. No. 5922) for switching.



Dimension | **Art. No.**

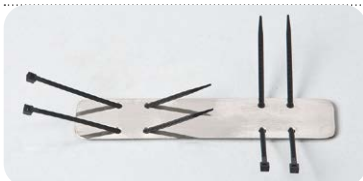
Heating clamp set
5932
suitable for bitumen
5932.BIT

plug-ready, produced in acc. with customer wishes (see planning example)



Temperature switch set basic
5922

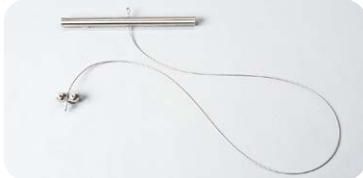
including:
1 temperature switch
2 cold cable bushings
1 cold cable (1 m)



Edge covers for auxiliary heating

to prevent damage of heating cables

5925



Strain relief

for hanging the heating cable in downpipes

5926

Technical data auxiliary heating

| | |
|------------------------------------|--|
| Heatband type | FT 18/36 |
| Nominal capacity | 18W/m at 0°C air temperature 36W/m in ice water |
| Max. heating circuit length | ► 60 m at 16 A (in combination with mechanical temperature switch set) ► 80 m at 20 A (without mechanical temperature switch) |
| Minimal bending radius | 25 mm (Do not bend heating line!) |
| Nominal voltage | 230 V |
| Max. permitted ambient temperature | 65° C (switched on) |
| Max. permitted ambient temperature | 85° C (switched off) |
| Minimal installation temperature | 5° C |
| Max. protective resistance | 10Ω/km |
| Dimensions | 13,7x6,2 mm |
| Protective coverage | mind. 70 % |

- Protection with FI circuit breaker and C-characteristic.
- For channel widths above 20 cm or roof surfaces, multiple laying every 15 cm is recommended.
- Heating band hanging up to 25 cm, self-supporting.

Technical data temperature switch set basic

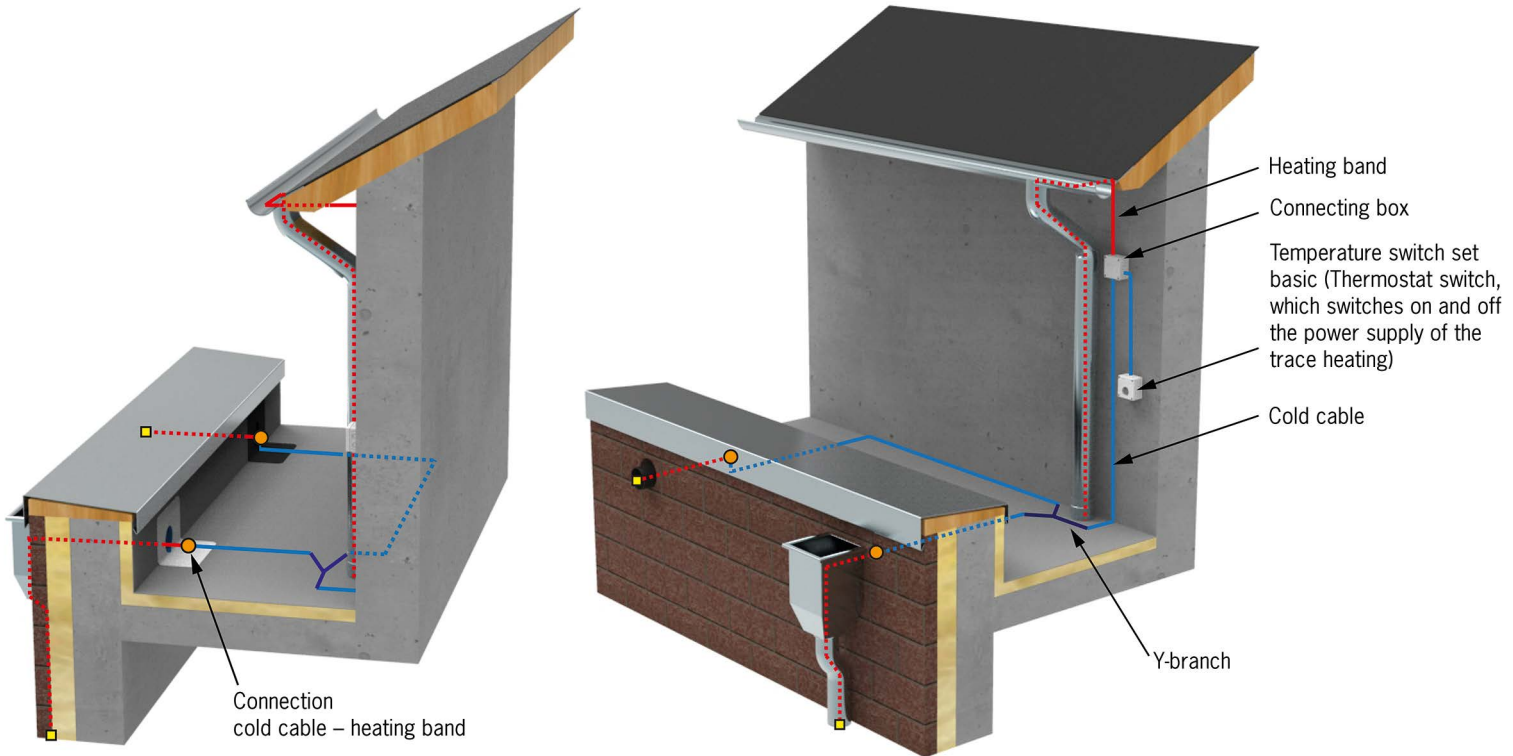
| | |
|----------------------------------|---|
| Type of controller | DTR-E 3102 (mechanical) |
| Temperature range | -20° C bis +25° C |
| Operating voltage | AC 230 V |
| Alternating current at AC 250 V | 16(4) A |
| Contact rating | 3,6 KW |
| Contact | 1 Öffner 1 Schließer (Springkontakt) |
| Permitted temperature | -25° C ... +55° C |
| Switching temperature difference | 1-3K |
| Protection class casing | IP65 |
| Permitted relative room humidity | max. 95%, non-condensing |

- Install on the northern side of the building (weatherproof). Alternatively, fit a protection cover!

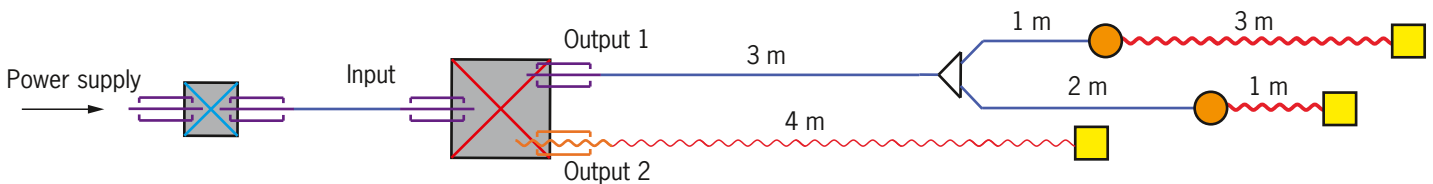
Trace heating for roof drains, pipes, roof channels and flat sewer systems

- Prevention of frost and water damage in buildings and facades due to flooding caused by frozen water channels
- Prevention of accidents and damage due to e.g. falling icicles
- Maintenance- and trouble-free operation (self-regulating)
- Largely pre-mounted sets (heating band and temperature switch set basic), each extendable
- Light, even subsequent assembly
- Minimal acquisition and operating costs

Installation example trace heating



Planning example: Trace heating, diagram of the Installation examples above



| Symbol | Description |
|--------|------------------|
| | Connection box |
| | Heat band inlet |
| | Cold cable inlet |

| Symbol | Description |
|--------|--|
| | Y-branch |
| | Connection point cold cable – heating band |
| | End connection |

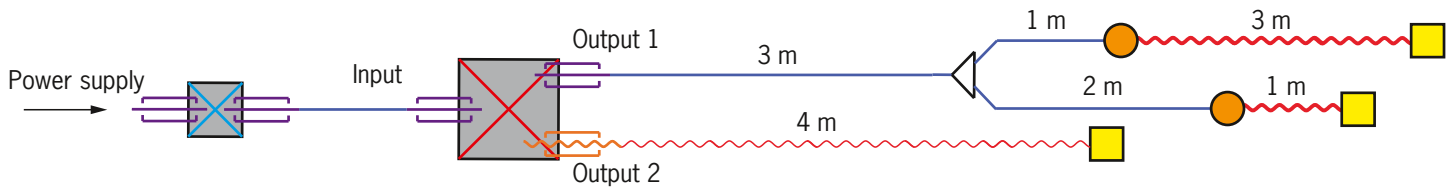
| Symbol | Description |
|--------|-----------------------------------|
| | Heating band |
| | Heating band (bitumen compatible) |
| | Cold cable |

| Symbol | Description |
|--------|------------------------------|
| | Temperature switch set basic |

Planning example: Trace heating, diagram

If requested, we will quote you base on your own individual "trace heating diagram".

Example:



Komponenten

| Symbol | Description | Art. | Illustration |
|--------|--|---------|--------------|
| | Connecting box | 5923 | |
| | Heating band inlet | 5923.H | |
| | Cold cable inlet | 5923.K | |
| | Y-branch (only cold cable) | 5925.Y | |
| | Connection point cold cable – heating band | 5925.KH | |

| Symbol | Description | Art. | Illustration |
|--------|--|----------|--------------|
| | End connection | 5925.E | |
| | Heating band (bring it up to 1 m into the earth with the downpipe) | 5935 | |
| | Heating band, bitumen compatible (bring it up to 1 m into the earth with the downpipe) | 5935.BIT | |
| | Cold cable | 5936 | |
| | Temperature switch set basic (install it on the north side of the building) | 5922 | |

Example parts list

| Number | Length | Art. No. | Description |
|--------|--------|----------|--|
| 1 | | 5923 | Connection box |
| 3 | | 5923.K | Cold cable inlet |
| 1 | | 5923.H | Heating band inlet |
| 2 | | 5925.KH | Connection point (cold cable – heating band) |
| 1 | 6 m | 5936 | Cold cable |
| 1 | 4 m | 5935.BIT | Heating band (bitumen compatible) |
| 1 | 4 m | 5935 | Heating band (not bitumen compatible) |
| 1 | | 5925.Y | Y-branch |
| 3 | | 5925.E | End connection |
| 1 | | 5922 | Temperature switch set basic |

Dimension | Art. No.



Stainless steel pipe with a sleeve

| | Length | | | | |
|--------|--------|---------|--------|--------|--------|
| | 25 cm | 50 cm | 100 cm | 200 cm | 300 cm |
| DN 50 | 2631 | 2631.55 | 2631.1 | 2631.2 | 2631.3 |
| DN 70 | 2632 | 2632.55 | 2632.1 | 2632.2 | 2632.3 |
| DN 100 | 2634 | 2634.55 | 2634.1 | 2634.2 | 2634.3 |

see table on left



Stainless steel pipe bend with a sleeve

| | Angle | | | |
|--------|-------|---------|---------|---------|
| | 87,5° | 45° | 30° | 15° |
| DN 50 | 2650 | 2650.45 | 2650.30 | 2650.15 |
| DN 70 | 2652 | 2652.45 | 2652.30 | 2652.15 |
| DN 100 | 2654 | 2654.45 | 2654.30 | 2654.15 |

see table on left



Stainless steel pipe branch

| | Angle | |
|------------|-------|---------|
| | 87,5° | 45° |
| DN 50/50 | 2660 | 2660.45 |
| DN 70/70 | 2662 | 2662.45 |
| DN 100/100 | 2664 | 2664.45 |

see table on left



Stainless steel pipe with revision opening DN 100

DN 100 **2635**



Pipe clamp made of galvanized sheet steel with rubber seal
for a secure connection of a stainless steel pipe to the construction;
with decoupling rubber

DN 50 **2690**
DN 70 **2692**
DN 100 **2694**

Siphonic Drainage

The modern method of flat roof Drainage

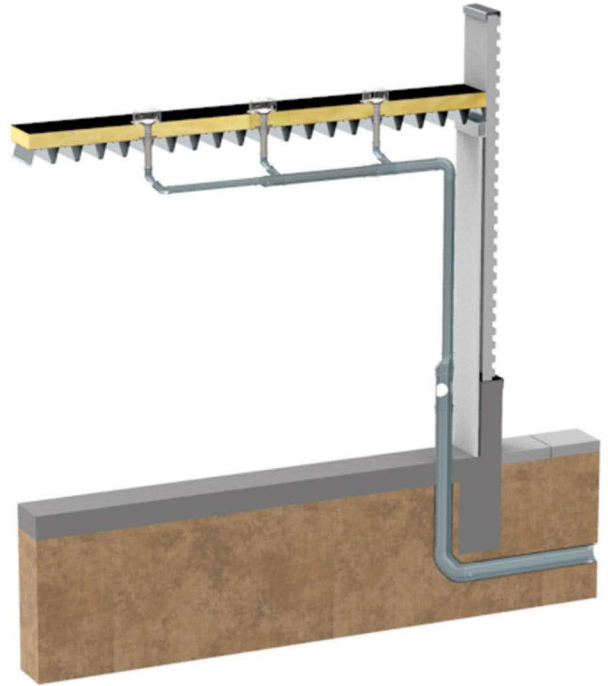


Siphonic drain made of stainless steel (top part) with bitumen collar, vacuum plate and pebble trap.

Siphonic drainage

We will gladly support you with the calculation of rain drainage systems with siphonic drainage. You will receive a suggestion from us for the realisation of your drainage system with a list of the required drains, pipes and fastening pieces.

Installation example siphonic drainage



Dimension | Art. No.

Siphonic drain made of stainless steel with bitumen collar (top)

DN 50 **3620.BIT**
DN 70 **3622.BIT**



Siphonic drain made of stainless steel with clamp flange (top)

DN 50 **2620**
DN 70 **2622**

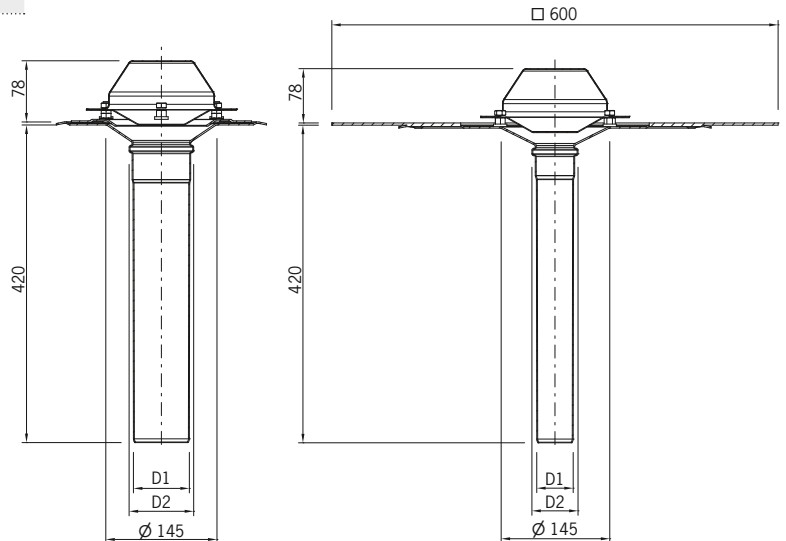


Stainless steel drain (bottom)

DN 50 **2680**
DN 70 **2682**

Technical data siphonic drain made of stainless steel

| Art. | DN | D1 | D2 |
|------|----|----|----|
| 3620 | 50 | 50 | 65 |
| 3622 | 70 | 75 | 90 |
| 2620 | 50 | 50 | 65 |
| 2622 | 70 | 75 | 90 |



Dimension | Art. No.



Terrace construction set, can be walked upon
5900



Terrace construction set (black), can be walked upon
without odour trap **5902**
with odour trap **5902.G**



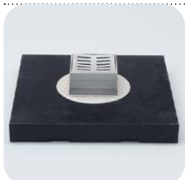
Terrace construction set PLUS
without odour trap **5902.E**
with odour trap **5902.G.E**



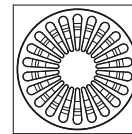
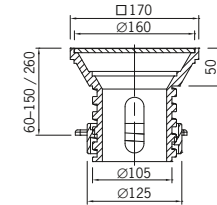
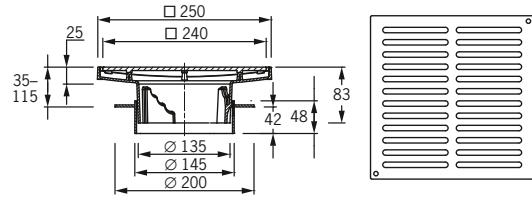
Terrace construction set PLUS long version
without odour trap **5902.E.L**
with odour trap **5902.G.E.L**



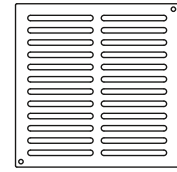
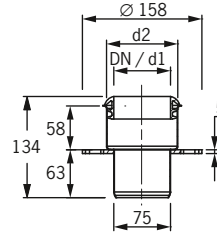
Sieve ring extension, made of stainless steel
DN 70 **5903**
DN 100 **5904**



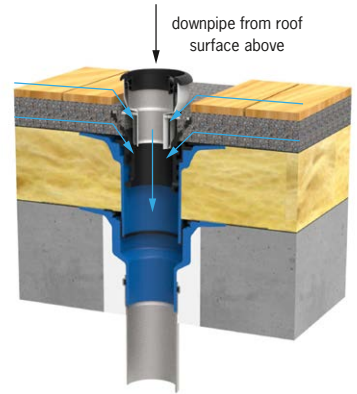
Terrace construction set, can be driven upon **5905**
Extension frame 25 mm **5906**
Load bearing panel **5907**



Dimensions in brackets for terrace construction set PLUS long



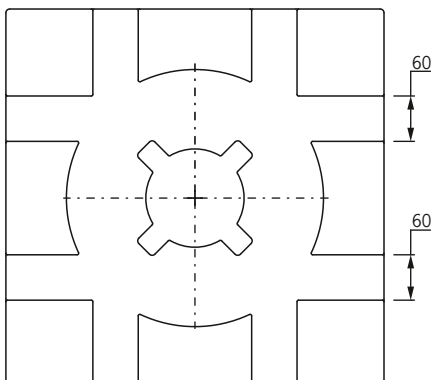
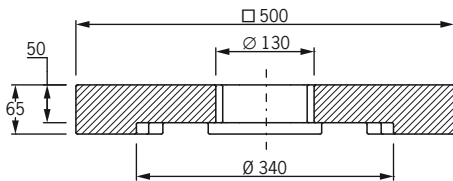
Installation example terrace construction set and sieve ring extension element



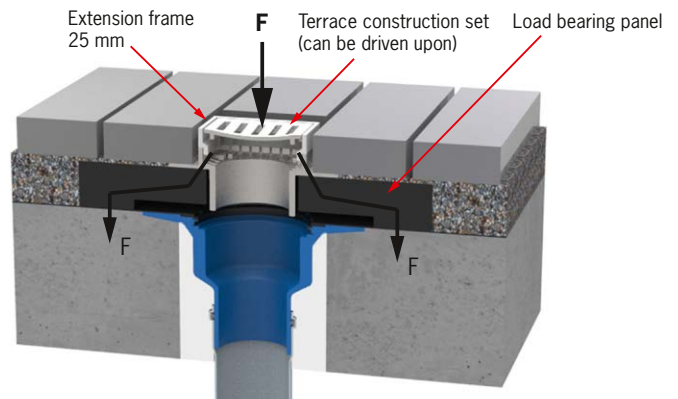
Compact collar drain with extension and terrace construction set with sieve ring extension piece built into terrace

| Art. | DN | d1 | d2 |
|------|-----|-----|-----|
| 5903 | 70 | 75 | 98 |
| 5904 | 100 | 110 | 126 |

Technical data load bearing panel

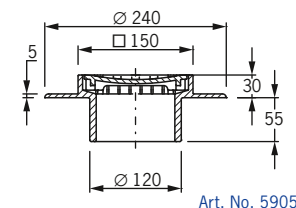


Installation example terrace construction set (can be driven upon) with load bearing panel

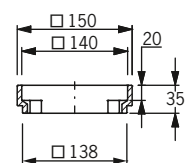


Compact collar drain with load-bearing panel and terrace construction set (can be driven upon) with slab covering installed in the crushed stone bedding. The load-bearing panel channels the force past the terrace construction set into the concrete slab.

Technical data terrace construction set and extension frame



Art. No. 5905



Art. No. 5906

Dimension | **Art. No.**

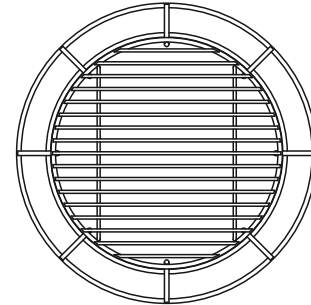
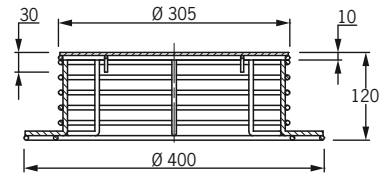


Stainless steel pebble collar
5908

can be fitted, even subsequently, onto any common drain. The long-term protection against pebble blockage in pipes.

Lid made of stainless steel
5909

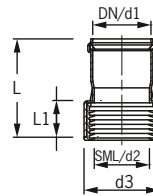
suitable for the pebble collar made of stainless steel



Drain/SML pipe adaptor

- DN 50/50 **5940**
- DN 70/80 **5942**
- DN 100/100 **5944**

Ideal to connect Grumbach drains DN 50, 70 or 100 with a SML pipe of the same DN width.



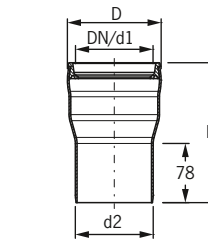
| Art. | DN | d1 | SML | d2 | d3 | L | L1 |
|------|-----|-----|-----|-----|-----|-----|----|
| 5940 | 50 | 50 | 50 | 58 | 80 | 85 | 32 |
| 5942 | 70 | 75 | 80 | 83 | 100 | 130 | 48 |
| 5944 | 100 | 110 | 100 | 110 | 132 | 150 | 53 |



Drain/Loro connection piece

- DN 70 **5953***
- DN 100 **5954***

For a connection between a Grumbach drain DN 70 or 100 and a Loro-X socket pipe of the same DN nominal width.

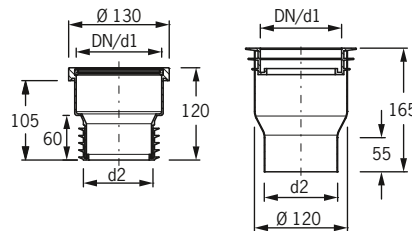


| Art. | DN | d1 | d2 | H | D |
|------|-----|-----|-----|-----|-----|
| 5953 | 70 | 75 | 73 | 150 | 87 |
| 5954 | 100 | 110 | 103 | 180 | 124 |



Adaptor DN 100

made of titanium zinc, without seal, for connection with a vertical zinc pipe
DN 100 **2633***
i.d. 100, 6-piece

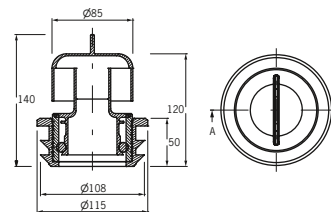


| Art. | DN | d1 | d2 |
|---------|-----|-----|----|
| 5955 | 100 | 110 | 95 |
| 5955.PP | 100 | 110 | 95 |



Adaptor DN 100

for connection with a zinc pipe
made of titanium zinc
DN 100 **5955***
made of PP
DN 100 **5955.PP**



Bell odour trap

5950

incl. seal, suitable for Art. No. 2104/2124/3104/3124

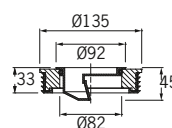


Odour trap

5952

suitable for all Universal drains and compact collar drains

Note for all types: reduces drainage capacity to approx. 0,9 l/s!

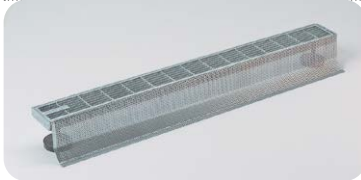


* Achtung! Diese Produkte sind nicht rückstausicher, daher ist der Einbau nur in verticalen Fallrohren außerhalb von Gebäuden zulässig!

Dimension | Art. No.



Drainage grate
 100x1000 mm **5960**
 150x1000 mm **5962**
 250x1000 mm **5964**



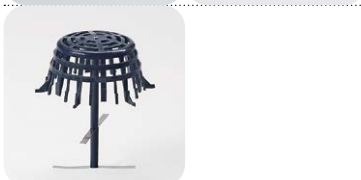
Pebble trap strip
5961



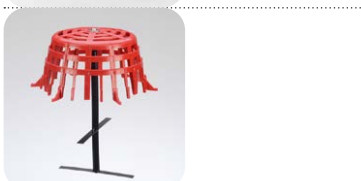
Pebble trap
 black **5970**
 red **5970.R**



Pebble trap
 black **5971**
 red **5971.R**



Universal pebble trap, black, with attachment
 internal diameter
 80–120 **5973**
 120–140 **5973.3**



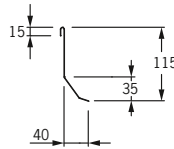
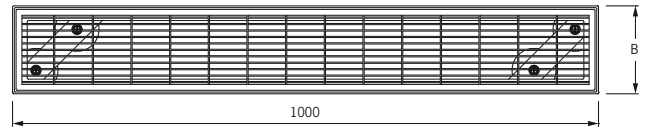
Universal pebble trap, red, with attachment
 internal diameter
 80–120 **5973.R**
 120–140 **5973.3.R**



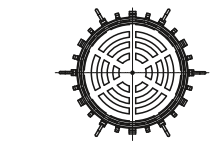
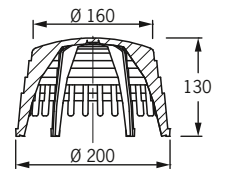
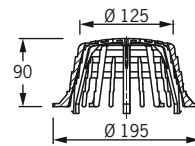
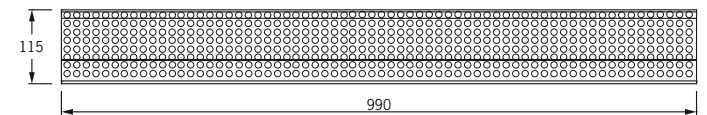
Pebble trap
 black **5972**
 red **5972.R**



Pull-off protection made of EPDM
 suitable for all common
 DN 70 resp. DN 100 pipes
 DN 70 **5341**
 DN 100 **5343**

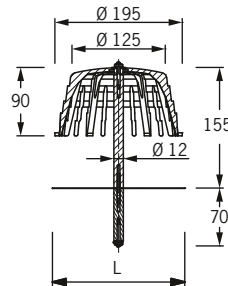


| Art. | B |
|------|-----|
| 5960 | 100 |
| 5962 | 150 |
| 5964 | 250 |

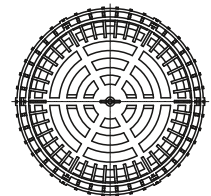
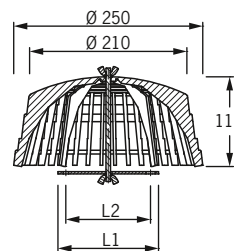


Art. No. 5970/5970.R

Art. No. 5971/5971.R



| Art. | Internal diameter | L |
|--------|-------------------|-----|
| 5973 | 80–120 | 125 |
| 5973.3 | 120–140 | 140 |

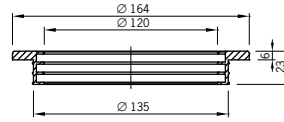


| Drain type | L1 | L2 |
|---|-----|-----|
| Clamp flange drain / attica flat drain / trapezoidal drain / Collar drain DN200 / redevelopment drain DN200 / Eco drain | 203 | 183 |
| redevelopment drain DN150 / redevelopment drain made of aluminum | 170 | 150 |
| redevelopment drain 56 | 160 | 140 |

Dimension | Art. No.



Backflow seal for extension elements
5990.N
 suitable for all compact collar drains and Universal drains



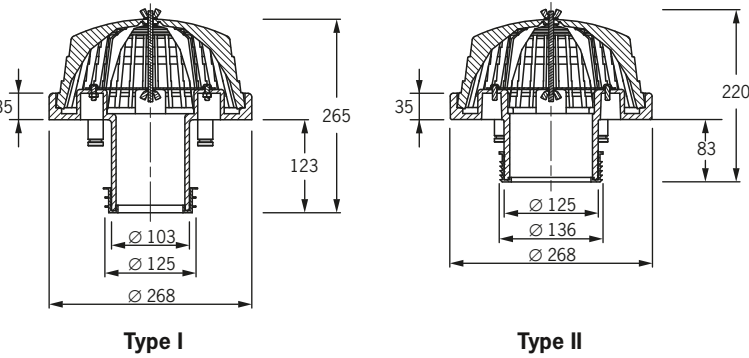
Typ I Typ II

Plug-in attachment made of PUR for emergency drainage
 Type I **2091**
 for the **extension elements** of the Universal drains and compact collar drains
 Type II **2091.I**
 for all Universal drains and compact collar drains

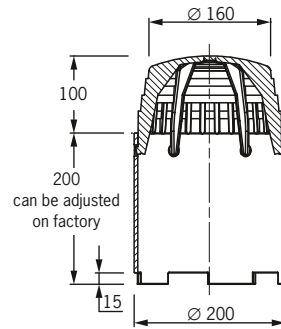


Inverted roof attachment
5918

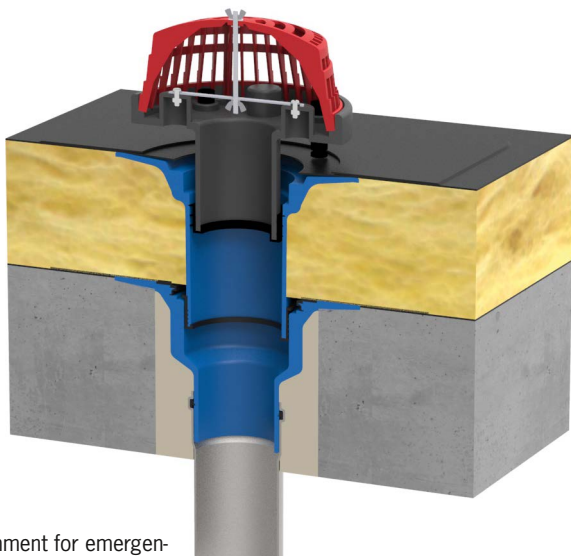
Technical data plug-in attachment



Technical data inverted roof attachment

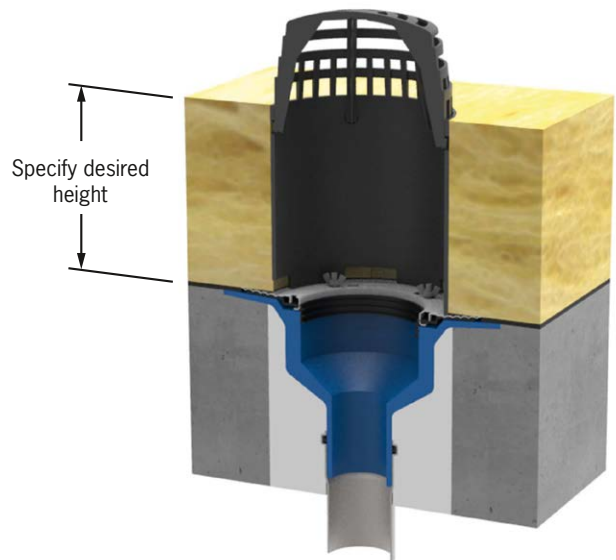


Installation example plug-in attachment



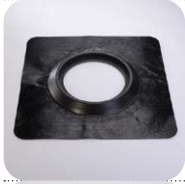
Plug-in attachment for emergency drainage inserted in a compact collar drain with extension element in an insulated roof.

Installation example inverted roof attachment



Height-adjusted inverted roof attachment incl. pebble trap in an inverted roof with pebble covering

Dimension | Art. No.



Accumulation ring made of PUR height 35 mm
5915

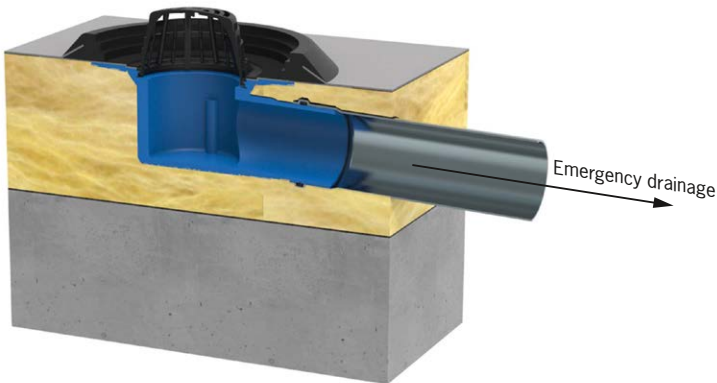


Half accumulation ring made of PUR height 45 mm
can be shortened as required
with wedge **5916**
without wedge **5916.0**

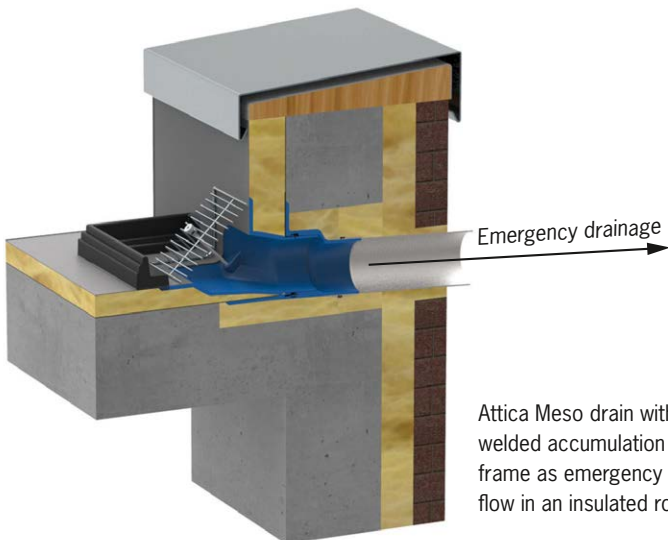


Accumulation frame made of PUR height 65 mm
can be shortened as required
with wedge **5917**
without wedge **5917.0**

Installation example accumulation ring

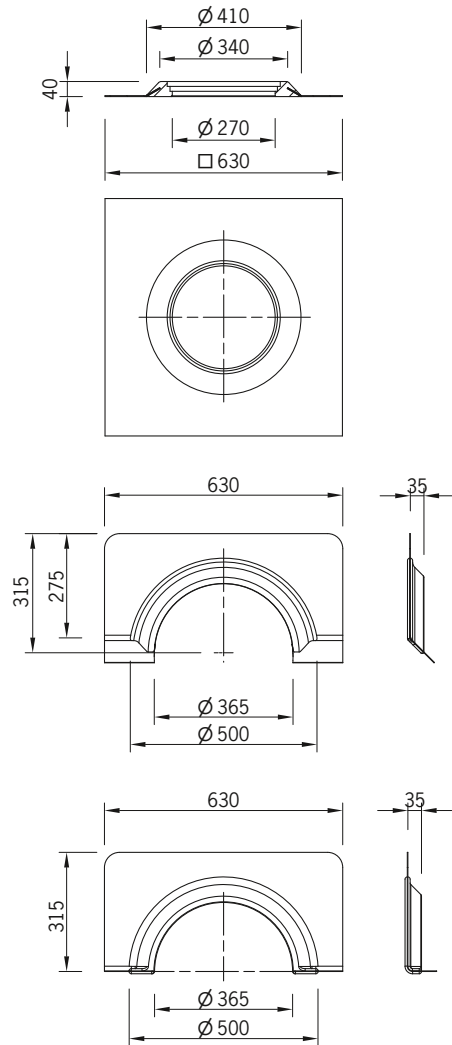


Horizontal drain with accumulation ring as emergency drainage, mounted in an insulated roof

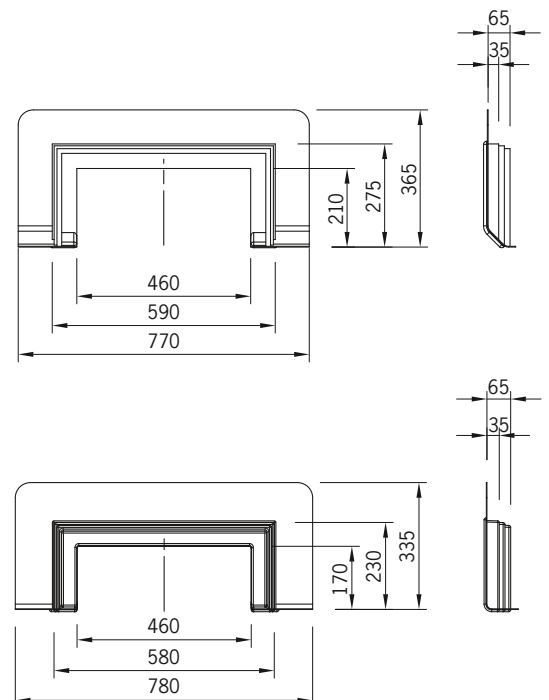


Attica Meso drain with welded accumulation frame as emergency overflow in an insulated roof.

Technical data accumulation ring made of PUR



Technical data Anstaurahmen made of PUR



| Ort | r _(5,5) | r _(5,100) |
|------------------------|--------------------|----------------------|
| Aachen | 313,3 | 566,7 |
| Aschaffenburg | 343,3 | 633,3 |
| Augsburg | 423,3 | 740 |
| Aurich | 356,7 | 656,7 |
| Bad Kissingen | 360 | 666,7 |
| Bad Salzu en | 393,3 | 723,3 |
| Bad Tölz | 396,7 | 710 |
| Bamberg | 370 | 680 |
| Bayreuth | 396,7 | 733,3 |
| Berlin | 353,3 | 690 |
| Bielefeld | 376,7 | 696,7 |
| Bocholt | 276,7 | 503,3 |
| Bonn | 286,7 | 516,7 |
| Braunschweig | 370 | 700 |
| Bremen | 350 | 616,7 |
| Bremerhaven | 343,3 | 613,3 |
| Chemnitz | 416,7 | 793,3 |
| Cottbus | 386,7 | 746,7 |
| Cuxhaven | 353,3 | 640 |
| Dessau | 416,7 | 803,3 |
| Dortmund | 313,3 | 573,3 |
| Dresden | 383,3 | 750 |
| Duisburg | 320 | 576,7 |
| Düsseldorf | 336,7 | 593,3 |
| Eisenach | 366,7 | 690 |
| Emden | 353,3 | 650 |
| Erfurt | 406,7 | 770 |
| Erlangen | 346,7 | 640 |
| Essen | 330 | 593,3 |
| Frankfurt/ Main | 376,7 | 693,3 |
| Garmisch-Partenkirchen | 426,7 | 750 |
| Gera | 386,7 | 736,7 |
| Göppingen | 390 | 703,3 |
| Görlitz | 346,7 | 663,3 |
| Göttingen | 380 | 703,3 |
| Halle/ Saale | 413,3 | 793,3 |
| Hamburg | 280 | 506,7 |
| Hamm | 320 | 570 |
| Hanau | 370 | 676,7 |
| Hannover | 330 | 603,3 |
| Heidelberg | 393,3 | 726,7 |
| Heilbronn | 310 | 570 |
| Helmstedt | 336,7 | 636,7 |
| Hildesheim | 360 | 676,7 |
| Ingolstadt | 386,7 | 706,7 |
| Kaiserslautern | 393,3 | 723,3 |
| Karlsruhe | 396,7 | 740 |
| Kassel | 360 | 673,3 |
| Kiel | 320 | 580 |

| Ort | r _(5,5) | r _(5,100) |
|------------------------|--------------------|----------------------|
| Koblenz | 310 | 560 |
| Köln | 333,3 | 600 |
| Konstanz | 373,3 | 673,3 |
| Leipzig | 443,3 | 846,7 |
| Lindau | 306,7 | 566,7 |
| Lingen | 396,7 | 753,3 |
| Lübeck | 320 | 593,3 |
| Lüdenscheid | 316,7 | 573,3 |
| Magdeburg | 350 | 670 |
| Mainz | 406,7 | 746,7 |
| Mannheim | 433,3 | 796,7 |
| Minden | 400 | 743,3 |
| Mönchengladbach | 320 | 570 |
| München | 356,7 | 636,7 |
| Münster | 370 | 696,7 |
| Neubrandenburg | 326,7 | 620 |
| Neustadt/ Weinstr. | 426,7 | 800 |
| Nürnberg | 343,3 | 626,7 |
| Oberstdorf | 346,7 | 590 |
| Osnabrück | 393,3 | 746,7 |
| Paderborn | 276,7 | 503,3 |
| Passau | 430 | 793,3 |
| Pforzheim | 326,7 | 610 |
| Pirmasens | 396,7 | 733,3 |
| Regensburg | 396,7 | 730 |
| Rosenheim | 426,7 | 776,7 |
| Rostock | 323,3 | 596,7 |
| Rüsselsheim | 406,7 | 750 |
| Saarbrücken | 356,7 | 650 |
| Schweinfurt | 380 | 706,7 |
| Schwerin | 320 | 603,3 |
| Siegen | 346,7 | 623,3 |
| Solingen | 330 | 580 |
| Speyer | 436,7 | 813,3 |
| Stuttgart | 336,7 | 623,3 |
| Trier | 363,3 | 643,3 |
| Ulm | 400 | 710 |
| Villingen-Schwenningen | 390 | 696,7 |
| Wetzlar * | 360 | 650 |
| Willingen/ Upland | 336,7 | 620 |
| Wittenberge | 310 | 580 |
| Wuppertal | 316,7 | 556,7 |
| Würzburg | 346,7 | 640 |
| Zwickau | 386,7 | 736,7 |
| Durchschnitt | 360 | 663,3 |
| Maximum | 443,3 | 813,3 |
| Minimum | 276,7 | 503,3 |

* Source: Deutscher Wetterdienst (KOSTRA-DWD-2020)

■ Calculation of the number of Drains required

Example

updated!

How you determine the number of drains required per roof area:

Copy the form on the next page if required.

- 1 Determine roof area (A)
 - 2 Determine type of roof (C_s)
The peak drainage coefficient C_s is a measure for the delay of the rainwater drainage. E.g. on intensive green roofs there is the longest delay (C_s=0,2)]
 - 3 Choose location from the rainfall statistics list and insert the values for r_(5,5) and r_(5,100)
 - 4 Determine desired size of drains. Use only drains, which fulfill the requirements of the DIN for drainage capacity!
The following Grumbach drains fulfill the requirements (self-tested):
Universal drain*, Clamp flange drain, compact collar drain*, collar drain, redevelopment drain, combi drain, balcony drain, garage/balcony drain, stainless steel drain, attica Super drain*, attica Jumbo drain, attica flat drain
 - 5 The "Other amount" field can be used, if none of the informations of 4 is relevant, e.g. if, according to the manufacturer's information, the drainage capacity is below the minimum requirement of the DIN 1986-100:2016-12.
 - 6 Now you have all the required data and you may use the formula.
 - 7 The result is rounded up to the next full unit and you can see the number of drains required.
- * the drain capacities for these drains have also been tested by TÜV Rheinland LGA Products GmbH!

Flat roof drainage according to DIN 1986-100

The flat roof drainage according to DIN 1986-100 is important as it also takes extreme rainfall into account. We have the opinion that by conforming to the relatively new standard (valid since March 2002), our drains are fit for the future. According to DIN 1986-100 the roof should be able to withstand a "Once every hundred years rainfall". This refers to the statistical rainfall which occurs every hundred years for five minutes.

Form: Main and emergency Drainage (free level Drainage)

for the calculation of the number of drains required for a particular roof area according to DIN 1986-100: 2016-12

The following data are required for the calculation:

| | | | | | | |
|---|---|---|---|---|---|-----------------------------------|
| 1 | Roof area (A) | Please insert size of the roof area in [m ²]. | A = 550 m ² | | | |
| 2 | Roof type (C_s) | Sealing membrane (e.g. bitumen) | Pebble roof | | Tiled surface | |
| | | Roof pitch ≤ 3° ≈ 5% | Roof pitch ≤ 3° ≈ 5% | | in pebbled area | on stilts |
| | Please mark | <input checked="" type="checkbox"/> C _s =1,0 | <input type="checkbox"/> C _s =0,8 | <input type="checkbox"/> C _s =0,7 | <input type="checkbox"/> C _s =1,0 | |
| 2 | Roof type (C_s) | Green roof extensive | Green roof extensive surface thickness < 10 cm | Green roof extensive surface thickness ≥ 10 cm | Green roof intensive surface thickness ≥ 30 cm | |
| | | Roof pitch > 5° | Roof pitch ≤ 5° | Roof pitch ≤ 5° | Roof pitch ≤ 5° | |
| | Please mark | <input type="checkbox"/> C _s =0,7 | <input type="checkbox"/> C _s =0,5 | <input type="checkbox"/> C _s =0,4 | <input type="checkbox"/> C _s =0,2 | |
| 3 | Location [r _(5,5) , r _(5, 100)] | Town: see rainfall statistics for Germany | r _(5,5) see rainfall statistics for Germany | r _(5,100) see rainfall statistics for Germany | | |
| | Please mark | FRANKFURT AM MAIN | 376,7 | 693,3 | | |
| 4 | Drain size (Q_G) | DN 50 Q _G =0,9 l/s | DN 70 Q _G =1,7 l/s | DN 100 Q _G =4,5 l/s | DN 125 Q _G =7,0 l/s | DN 150 Q _G =8,1 l/s |
| | Please mark | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | Main drainage (basic drainage) | | | Emergency drainage – from 35 mm accumulation height at DN 50/70/100 – from 45 mm accumulation height at DN 125/150 | |
| 6 | Formula | n _G = (r _(5,5) × C _s × A) : (Q _G × 10000) | | | n _G = [(r _(5,100) - (r _(5,5) × C _s)] × A) : (Q _G × 10000) | |
| 7 | Result: Number and type of drains | 4,6 ⇒ 5 DRAINS UNIVERSAL DRAIN VERTICAL DN 100 | | | 3,9 ⇒ 4 DRAINS UNIVERSAL DRAIN VERTICAL DN 100 | |

Key (Explanations)

- n_G The minimum number of drains, rounded up to full pieces [pc]
- C_s Peak drainage coefficient, depends on type of roof surface and varies between 0,2 and 1,0.
- A size of the roof area [m²]
- Q_G The minimum drainage capacity of the drain acc. to DIN in litres per second [l/s], depends, among other things, on the nominal width of the drain.
- r_(0,1) The rainfall r_(0,1) is defined as rainfall duration (D in minutes) and annuality (T in years) in litres per second and hectare [l/(s,ha)]. Only r_(5,5) and r_(5,100) are required here.

Note

The data sheet developed by us, and all our information, have been processed to the best of our knowledge. For further or more complete information, please refer to the relevant DIN standards, which we also used as our main source. Possible errors will not constitute or result in an implied warranty of any kind. Pages 83 to 85 are to be regarded as non-binding information and should be checked by the user.

Form: Main and emergency Drainage (free level Drainage)

for the calculation of the number of drains required for a particular roof area according to DIN 1986-100: 2016-12

The following data are required for the calculation:

| | | | |
|----------------------|--|------------|----------------------|
| Roof area (A) | Please insert size of the roof area in [m2]. | A = | m² |
|----------------------|--|------------|----------------------|

| Roof type (C _s) | Sealing membrane (e.g. bitumen) | Pebbled roof | Tiled surface | |
|-----------------------------|--|--|--|--|
| | Roof pitch ≤ 3° ≈ 5% | Roof pitch ≤ 3° ≈ 5% | in pebbled area | on stilts |
| Please mark | <input type="checkbox"/> C _s =1,0 | <input type="checkbox"/> C _s =0,8 | <input type="checkbox"/> C _s =0,7 | <input type="checkbox"/> C _s =1,0 |

| Roof type (C _s) | Green roof extensive | Green roof extensive surface thickness < 10 cm | Green roof extensive surface thickness ≥ 10 cm | Green roof intensive surface thickness ≥ 30 cm |
|-----------------------------|--|---|---|---|
| | Roof pitch > 5° | Roof pitch ≤ 5° | Roof pitch ≤ 5° | Roof pitch ≤ 5° |
| Please mark | <input type="checkbox"/> C _s =0,7 | <input type="checkbox"/> C _s =0,5 | <input type="checkbox"/> C _s =0,4 | <input type="checkbox"/> C _s =0,2 |

| Location [r _(5,5) , r _(5,100)] | Town: <small>see rainfall statistics for Germany</small> | r _(5,5) <small>see rainfall statistics for Germany</small> | r _(5,100) <small>see rainfall statistics for Germany</small> |
|---|---|--|--|
| Please mark | | | |

| Drain size (Q _G) | DN 50 Q _G =0,9 l/s | DN 70 Q _G =1,7 l/s | DN 100 Q _G =4,5 l/s | DN 125 Q _G =7,0 l/s | DN 150 Q _G =8,1 l/s | other amount l/s |
|------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------------|
| Please mark | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | Main drainage (basic drainage) | Emergency drainage – from 35 mm accumulation height at DN 50/70/100 – from 45 mm accumulation height at DN 125/150 |
|--|--|--|
| formula | $n_G = (r_{(5,5)} \times C_s \times A) : (Q_G \times 10000)$ | $n_G = \{ [r_{(5,100)} - (r_{(5,5)} \times C_s)] \times A \} : (Q_G \times 10000)$ |
| Result: Number and type of drains | | |

Key (Explanations)

- n_G The minimum number of drains, rounded up to full pieces [pc]
- C_s Peak drainage coefficient, depends on type of roof surface and varies between 0,2 und 1,0.
- A size of the roof area [m²]
- Q_G The minimum drainage capacity of the drain acc. to DIN in litres per second [l/s], depends, among other things, on the nominal width of the drain.
- r_(D,T) The rainfall r_(D,T) is defined as rainfall duration (D in minutes) and annuality (T in years) in litres per second and hectare [l/(s,ha)]. Only r_(5,5) and r_(5,100) are required here

| Art. No. | Product name | Name suffix | Nom. width suffix | No-minal width | Drainage capacities [l/s] | | | |
|-------------|---------------------------|----------------------------|-------------------|----------------|---------------------------|-------|-------|-------|
| | | | | | at downpipe | | | |
| | | | | | 35 mm | 45 mm | 55 mm | 65 mm |
| 2102/2122.2 | Universal drain | vertical/vertical heatable | DN | 70 | 6,3 | 8,1 | 9,7 | 11,1 |
| 2104/2124.2 | Universal drain | vertical/vertical heatable | DN | 100 | 6,8 | 9,1 | 11,0 | 12,7 |
| 2106/2126.2 | Universal drain | vertical/vertical heatable | DN | 125 | 6,5 | 8,7 | 10,4 | 12,3 |
| 2111/2132.2 | Universal drain | horizontal/horiz. heatable | DN | 70 | 5,8 | 8,0 | 9,9 | 11,6 |
| 2114/2134.2 | Universal drain | horizontal/horiz. heatable | DN | 100 | 6,1 | 8,2 | 10,0 | 12,0 |
| 2116/2136.2 | Universal drain | horizontal/horiz. heatable | DN | 125 | 6,4 | 8,5 | 10,6 | 12,5 |
| 2008/2028.2 | Clamp flange drain | vertical/vertical heatable | DN | 150 | 7,6 | 10,0 | 13,8 | 17,0 |
| 3102/3122.2 | Compact collar drain | vertical/vertical heatable | DN | 70 | 6,3 | 8,1 | 9,7 | 11,1 |
| 3104/3124.2 | Compact collar drain | vertical/vertical heatable | DN | 100 | 6,8 | 9,1 | 11,0 | 12,7 |
| 3106/3126.2 | Compact collar drain | vertical/vertical heatable | DN | 125 | 6,5 | 8,7 | 10,4 | 12,3 |
| 3112/3132.2 | Compact collar drain | horizontal/horiz. heatable | DN | 70 | 5,8 | 8,0 | 9,9 | 11,6 |
| 3114/3134.2 | Compact collar drain | horizontal/horiz. heatable | DN | 100 | 6,1 | 8,2 | 10,0 | 12,0 |
| 3115/3136.2 | Compact collar drain | horizontal/horiz. heatable | DN | 125 | 6,4 | 8,5 | 10,6 | 12,5 |
| 3008/3028 | Collar drain | vertical/vertical heatable | DN | 150 | 6,6 | 9,5 | 13,2 | 17,5 |
| 3009 | Collar drain | vertical | DN | 200 | 7,5 | 10,8 | 13,5 | 18,3 |
| 2306 | Redevelopment drain | with clamp flange | DN | 125 | 5,8 | 7,9 | 10,0 | 12,8 |
| 3306 | Redevelopment drain | with adhesive collar | DN | 125 | 6,4 | 8,1 | 11,2 | 13,7 |
| 2307 | Redevelopment drain | with clamp flange | DN | 140 | 5,5 | 7,5 | 9,9 | 11,1 |
| 3307 | Redevelopment drain | with adhesive collar | DN | 140 | 6,6 | 8,3 | 10,1 | 11,8 |
| 2308 | Redevelopment drain | with clamp flange | DN | 150 | 5,3 | 8,1 | 9,9 | 12,1 |
| 3308 | Redevelopment drain | with adhesive collar | DN | 150 | 4,6 | 8,3 | 9,1 | 10,4 |
| 3329 | Redevelopment drain | with adhesive collar | | 170 | 5,6 | 8,3 | 9,8 | 12,6 |
| 3309 | Redevelopment drain | with adhesive collar | DN | 200 | 7,5 | 9,9 | 13,5 | 18,3 |
| 2302 | Trapezoidal drain | with clamp flange | DN | 70 | 6,7 | 9,1 | 12,0 | 14,8 |
| 2304 | Trapezoidal drain | with clamp flange | DN | 100 | 5,9 | 8,3 | 11,0 | 15,0 |
| 2303 | Redevelopment drain | made of aluminum | DN | 90 | 3,9 | 5,7 | 7,3 | 9,0 |
| 3311 | Redevelopment drain | with adhesive collar | | 36 | 1,7 | 3,0 | 3,6 | 4,6 |
| 3313 | Redevelopment drain | with adhesive collar | | 56 | 3,2 | 4,9 | 6,0 | 8,6 |
| 3315 | Redevelopment drain | with adhesive collar | | 88 | 4,5 | 5,9 | 7,7 | 10,5 |
| 3317 | Redevelopment drain | with adhesive collar | | 103 | 3,3 | 4,9 | 6,5 | 8,9 |
| 3314 | Redevelopment drain | with adhesive collar | DN | 100 | 4,6 | 6,7 | 8,8 | 10,6 |
| 3300 | Garage drain | with adhesive collar | DN | 50 | 1,9 | 4,5 | 6,3 | 7,0 |
| 3302 | Garage drain | with adhesive collar | DN | 70 | 1,7 | 2,5 | 3,3 | 5,5 |
| 2500 | Balcony drain | with clamp flange | DN | 50 | 1,5 | 3,0 | 5,7 | 6,7 |
| 3500 | Balcony drain | with adhesive collar | DN | 50 | 1,7 | 3,5 | 5,6 | 6,7 |
| 2511 | Balcony drain | with clamp flange | DN | 50 | 1,5 | 3,0 | 5,7 | 6,7 |
| 3511 | Balcony drain | with adhesive collar | DN | 50 | 1,7 | 3,5 | 5,6 | 6,7 |
| 2501 | Balcony complete overflow | vertical with odour trap | DN | 50 | 1,3 | - | - | - |
| 2502 | Balcony complete overflow | horizontal with odour trap | DN | 40 | 0,7 | - | - | - |
| 3740 | Garage/Balcony drain | with adhesive collar | DN | 70 | 2,2 | 3,7 | 4,5 | 6,4 |
| 3741 | Garage/Balcony drain | with adhesive collar | DN | 100 | 4,1 | 5,1 | 7,0 | 10,5 |
| 2702 | Garage/Balcony drain | with clamp flange | DN | 70 | 2,5 | 3,4 | 5,3 | 6,7 |
| 3702 | Garage/Balcony drain | with adhesive collar | DN | 70 | 2,3 | 3,7 | 4,7 | 6,3 |
| 2711 | Garage/Balcony drain | horizontal | DN | 70 | 2,1 | 3,1 | 4,5 | 5,9 |
| 3712 | Garage/Balcony drain | horizontal | DN | 70 | 2,5 | 3,8 | 5,1 | 6,7 |
| 2600 | Stainless steel drain | vertical | DN | 50 | 1,5 | 4,2 | 6,3 | 6,8 |
| 2602 | Stainless steel drain | vertical | DN | 70 | 3,5 | 5,2 | 6,5 | 8,4 |
| 2604 | Stainless steel drain | vertical | DN | 100 | 5,1 | 7,5 | 9,0 | 11,5 |
| 2611 | Stainless steel drain | horizontal | DN | 50 | 2,0 | 3,3 | 5,0 | 5,3 |
| 2612 | Stainless steel drain | horizontal | DN | 70 | 4,1 | 5,8 | 7,2 | 8,6 |
| 2614 | Stainless steel drain | horizontal | DN | 100 | 5,2 | 7,1 | 8,6 | 10,1 |
| 3722 | Eccentric drain | with pebble trap | DN | 100 | 4,9 | 6,6 | 8,1 | 10,5 |
| 3722 | Eccentric drain | with sieve ring extension | DN | 100 | 3,8 | 4,1 | 4,7 | 5,0 |
| 3722 | Eccentric drain | with inlay sieve | DN | 100 | 4,9 | 5,5 | 6,3 | 6,8 |

*Drainage capacity acc. to DIN EN 1253-2 in l/sec (accumulation height in millimeters)

| Art. No. | Product name | Name suffix | Nom. width suffix | No-minal width | Drainage capacities [l/s] | | | |
|----------|--------------------------|-------------------------|-------------------|----------------|---------------------------|-------|-------|-------|
| | | | | | at downpipe | | | |
| | | | | | 35 mm | 45 mm | 55 mm | 65 mm |
| 2701 | Continuous balcony drain | without lowerable part | DN | 70 | 4,7 | 7,0 | 9,5 | 12,5 |
| 2701 | Continuous balcony drain | with lowerable part | DN | 70 | 1,5 | 1,6 | 1,7 | 1,8 |
| 3202 | Alpha drain | Unterteil, senkrecht | DN | 70 | 3,9 | 5,4 | 6,7 | 8,6 |
| 3204 | Alpha drain | Unterteil, senkrecht | DN | 100 | 5,2 | 7,7 | 8,9 | 11,3 |
| 3206 | Alpha drain | Unterteil, senkrecht | DN | 125 | 5,7 | 7,8 | 9,1 | 11,5 |
| 3232 | Alpha drain | Unterteil, waagrecht | DN | 70 | 3,7 | 6,0 | 6,1 | 6,2 |
| 3234 | Alpha drain | Unterteil, waagrecht | DN | 100 | 6,0 | 8,2 | 11,3 | 13,1 |
| 3236 | Alpha drain | Unterteil, waagrecht | DN | 125 | 6,0 | 8,7 | 11,8 | 14,5 |
| 3283 | Alpha drain | Oberteil | DN | 70 | 8,0 | 11,0 | 13,3 | 15,2 |
| 3284 | Alpha drain | Oberteil | DN | 100 | 8,8 | 11,0 | 12,8 | 14,0 |
| 3286 | Alpha drain | Oberteil | DN | 125 | 8,2 | 10,2 | 14,2 | 18,0 |
| 2640 | Fire protection drain | made of stainless steel | DN | 50 | 1,5 | 4,2 | 6,3 | 6,8 |
| 2642 | Fire protection drain | made of stainless steel | DN | 70 | 3,5 | 5,2 | 6,5 | 8,4 |
| 2644 | Fire protection drain | made of stainless steel | DN | 100 | 5,1 | 7,5 | 9,0 | 11,5 |
| 2646 | Fire protection drain | made of stainless steel | DN | 125 | 7,4 | 7,8 | 9,3 | 12,3 |

| Art. No. | Product name | Name suffix | Nom. width suffix | No-minal width | Drainage capacities [l/s] | | | | Drainage capacities [l/s] | | | |
|---------------|---------------------------|-------------------------|-------------------|----------------|---------------------------|-------|-------|-------|---------------------------|-------|-------|-------|
| | | | | | at downpipe | | | | at free outlet | | | |
| | | | | | 35 mm | 45 mm | 55 mm | 65 mm | 35 mm | 45 mm | 55 mm | 65 mm |
| 3410 | Attica balcony drain | made of PUR | DN | 50 | 0,6 | 1,4 | 2,5 | 2,5 | 0,4 | 0,6 | 0,8 | 1,1 |
| 3411 | Attica balcony drain | made of PUR | DN | 70 | 0,7 | 0,9 | 1,3 | 1,9 | 0,7 | 0,9 | 1,3 | 1,7 |
| 3412 | Attica balcony drain | made of PUR | DN | 100 | 1,0 | 1,3 | 2,0 | 2,4 | 0,9 | 1,2 | 1,7 | 2,2 |
| 3413 | Attica balcony drain | with plug-in sleeve | DN | 50 | 0,6 | 1,4 | 2,5 | 2,5 | 0,4 | 0,6 | 0,8 | 1,1 |
| 3414 | Attica balcony drain | with plug-in sleeve | DN | 70 | 0,7 | 0,9 | 1,3 | 1,9 | 0,7 | 0,9 | 1,3 | 1,7 |
| 3415 | Attica balcony drain | with plug-in sleeve | DN | 100 | 1,0 | 1,3 | 2,0 | 2,4 | 0,9 | 1,2 | 1,7 | 2,2 |
| 3440 | Attica balcony drain | with wedge | DN | 50 | 0,6 | 1,4 | 2,5 | 2,5 | 0,4 | 0,6 | 0,8 | 1,1 |
| 3442 | Attica balcony drain | with wedge | DN | 70 | 0,7 | 0,9 | 1,3 | 1,9 | 0,7 | 0,9 | 1,3 | 1,7 |
| 3444 | Attica balcony drain | with wedge | DN | 100 | 1,0 | 1,3 | 2,0 | 2,4 | 0,9 | 1,2 | 1,7 | 2,2 |
| 3403 | Attica balcony drain | as emergency overflow | DN | 50 | - | - | - | - | 0,4 | 0,6 | 0,8 | 1,1 |
| 3404 | Attica balcony drain | as emergency overflow | DN | 70 | - | - | - | - | 0,7 | 0,9 | 1,3 | 1,7 |
| 3405 | Attica balcony drain | as emergency overflow | DN | 100 | - | - | - | - | 0,9 | 1,2 | 1,7 | 2,2 |
| 3420 | Attica plug-in overflow | made of PUR | DN | 50 | - | - | - | - | 2,0** | 2,0** | 2,0** | 2,0** |
| 2450 | Attica emergency overflow | at attica balcony drain | DN | 50 | - | - | - | - | 1,2* | 1,2* | 1,2* | 1,3* |
| 2452 | Attica emergency overflow | at attica balcony drain | DN | 70 | - | - | - | - | 3,2* | 3,4* | 3,5* | 3,7* |
| 2454 | Attica emergency overflow | at attica balcony drain | DN | 100 | - | - | - | - | 6,4* | 7,1* | 7,3* | 7,6* |
| 2450.45 | Attica emergency overflow | at attica balcony drain | DN | 50 | - | - | - | - | 1,2* | 1,2* | 1,2* | 1,3* |
| 2452.45 | Attica emergency overflow | at attica balcony drain | DN | 70 | - | - | - | - | 3,2* | 3,4* | 3,5* | 3,7* |
| 2452.45 | Attica emergency overflow | at attica balcony drain | DN | 100 | - | - | - | - | 6,4* | 7,1* | 7,3* | 7,6* |
| 2450.1 | Attica drain element | at attica balcony drain | DN | 50 | 5,4* | 5,4* | 5,4* | 5,4* | - | - | - | - |
| 2452.1 | Attica drain element | at attica balcony drain | DN | 70 | 9,7* | 13,2* | 14,2* | 15,2* | - | - | - | - |
| 2454.1 | Attica drain element | at attica balcony drain | DN | 100 | 10,1* | 13,8* | 17,0* | 20,4* | - | - | - | - |
| 2450.1.45 | Attica drain element | at attica balcony drain | DN | 50 | 5,4* | 5,4* | 5,4* | 5,4* | - | - | - | - |
| 2452.1.45 | Attica drain element | at attica balcony drain | DN | 70 | 9,7* | 13,2* | 14,2* | 15,2* | - | - | - | - |
| 2454.1.45 | Attica drain element | at attica balcony drain | DN | 100 | 10,1* | 13,8* | 17,0* | 20,4* | - | - | - | - |
| 3400 (Not) | Attica emergency overflow | made of PUR | DN | 50 | - | - | - | - | 0,4 | 0,6 | 0,8 | 1,1 |
| 3401 (Not) | Attica emergency overflow | made of PUR | DN | 70 | - | - | - | - | 0,7 | 0,9 | 1,3 | 1,7 |
| 3402 (Not) | Attica emergency overflow | made of PUR | DN | 100 | - | - | - | - | 0,9 | 1,2 | 1,7 | 2,2 |
| 2680 (Not) | Attica emergency overflow | made of stainless steel | DN | 50 | - | - | - | - | 0,4 | 0,6 | 0,8 | 1,1 |
| 2682 (Not) | Attica emergency overflow | made of stainless steel | DN | 70 | - | - | - | - | 0,7 | 0,9 | 1,3 | 1,7 |
| 2684 (Not) | Attica emergency overflow | made of stainless steel | DN | 100 | - | - | - | - | 0,9 | 1,2 | 1,7 | 2,2 |
| 2680.55 (Not) | Attica emergency overflow | made of stainless steel | DN | 50 | - | - | - | - | 0,4 | 0,6 | 0,8 | 1,1 |
| 2682.55 (Not) | Attica emergency overflow | made of stainless steel | DN | 70 | - | - | - | - | 0,7 | 0,9 | 1,3 | 1,7 |
| 2684.55 (Not) | Attica emergency overflow | made of stainless steel | DN | 100 | - | - | - | - | 0,9 | 1,2 | 1,7 | 2,2 |

* Ablauflistung bei min. 170 mm Bauhöhe, bei geringerer Bauhöhe ändert sich die Ablauflistung; geprüft mit passendem Attica Balkonablauf
 ** Ablauflistung bei 200 mm Bauhöhe, bei geringerer Bauhöhe ändert sich die Ablauflistung

| Art. No. | Product name | Name suffix | Nom. width suffix | No-minal width | Drainage capacities [l/s] | | | | Drainage capacities [l/s] | | | |
|---------------|----------------------|--|-------------------|----------------|---------------------------|-------|-------|-------|---------------------------|-------|-------|-------|
| | | | | | at downpipe | | | | at free outlet | | | |
| | | | | | 35 mm | 45 mm | 55 mm | 65 mm | 35 mm | 45 mm | 55 mm | 65 mm |
| 3212 | Attica Meso drain | without wedge | DN | 70 | 2,8 | 3,9 | 5,5 | 7,1 | 2,8 | 3,0 | 3,3 | 3,7 |
| 3214 | Attica Meso drain | without wedge | DN | 100 | 3,0 | 3,7 | 4,5 | 5,2 | 2,6 | 3,4 | 4,1 | 4,8 |
| 3211.BIT | Attica Meso drain | with wedge | DN | 70 | 2,5 | 3,9 | 5,5 | 7,1 | 2,1 | 2,6 | 2,9 | 3,4 |
| 3213.BIT | Attica Meso drain | with wedge | DN | 100 | 3,3 | 3,9 | 4,7 | 5,6 | 3,3 | 3,9 | 4,6 | 5,5 |
| 3213.BIT.S2 | Attica Meso-2 drain | with wedge | DN | 100 | 2,8 | - | - | - | 2,3 | 3 | 3,4 | 3,8 |
| 3213.BIT.S2.L | Attica Meso-2 drain | with wedge (long version) | DN | 100 | 2,8 | - | - | - | 2,3 | 3 | 3,4 | 3,8 |
| 3215.BIT | Attica Meso-2 drain | with wedge w. partial flow diversion | DN | 100 | 3,0 | - | - | - | 2,4 | 2,9 | 3,4 | 3,6 |
| 3215.BIT.L | Attica Meso-2 drain | with wedge w. partial flow diversion (long version) | DN | 100 | 3,0 | - | - | - | 2,4 | 2,9 | 3,4 | 3,6 |
| 3214.S2 | Attica Meso-2 drain | without wedge | DN | 100 | 2,8 | - | - | - | 2,3 | 3 | 3,4 | 3,8 |
| 3214.S2.L | Attica Meso-2 drain | without wedge (long version) | DN | 100 | 2,8 | - | - | - | 2,3 | 3 | 3,4 | 3,8 |
| 3216 | Attica Meso-2 drain | without wedge w. partial flow diversion | DN | 100 | 3,0 | - | - | - | 2,4 | 2,9 | 3,4 | 3,6 |
| 3216.L | Attica Meso-2 drain | without wedge w. partial flow diversion (long version) | DN | 100 | 3,0 | - | - | - | 2,4 | 2,9 | 3,4 | 3,6 |
| 2442 | Attica flat drain | short | DN | 70 | 3,8 | 9,5 | 11,2 | 11,4 | 2,7 | 3,0 | 3,1 | 3,2 |
| 2444 | Attica flat drain | short | DN | 100 | 5,8 | 7,8 | 8,9 | 9,6 | 5,6 | 6,0 | 6,5 | 6,8 |
| 2442.L | Attica flat drain | long | DN | 70 | 6,3 | 9,6 | 11,7 | 12,1 | 2,6 | 2,7 | 2,8 | 3,2 |
| 2444.L | Attica flat drain | long | DN | 100 | 6,4 | 7,4 | 8,9 | 9,6 | 5,8 | 6,3 | 6,9 | 7,0 |
| 3441 | Attica flat drain | w. adhesive collar short | DN | 70 | 3,8 | 9,5 | 11,2 | 11,4 | 2,7 | 3,0 | 3,1 | 3,2 |
| 3443 | Attica flat drain | w. adhesive collar short | DN | 100 | 5,8 | 7,8 | 8,9 | 9,6 | 5,6 | 6,0 | 6,5 | 6,8 |
| 3441.L | Attica flat drain | w. adhesive collar long | DN | 70 | 6,3 | 9,6 | 11,7 | 12,1 | 2,6 | 2,7 | 2,8 | 3,2 |
| 3443.L | Attica flat drain | w. adhesive collar long | DN | 100 | 6,4 | 7,4 | 8,9 | 9,6 | 5,8 | 6,3 | 6,9 | 7,0 |
| 3623.2 | Attica power drain | f. main drainage | DN | 70 | 13,0 | 13,5 | 13,6 | 13,7 | - | - | - | - |
| 3623.3 | Attica power drain | f. main drainage | DN | 70 | 13,5 | 14,5 | 14,6 | 14,7 | - | - | - | - |
| 3624.2 | Attica power drain | f. emergency drainage | DN | 70 | 14,2 | 14,3 | 14,3 | 14,3 | - | - | - | - |
| 3624.3 | Attica power drain | f. emergency drainage | DN | 70 | 15,2 | 15,3 | 15,3 | 15,3 | - | - | - | - |
| 3433.S2 | Attica Super-2 drain | with wedge | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 3,3 | 3,5 | 3,7 |
| 3471.S2 | Attica Super-2 drain | without wedge | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 3,3 | 3,5 | 3,7 |
| 3433.S2.L | Attica Super-2 drain | with wedge (long version) | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 3,3 | 3,5 | 3,7 |
| 3471.S2.L | Attica Super-2 drain | without wedge (long version) | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 3,3 | 3,5 | 3,7 |
| 3434.S2 | Attica Super-2 drain | with wedge w. partial flow diversion | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 4,7 | 5,3 | 5,5 |
| 3472.S2 | Attica Super-2 drain | without wedge w. partial flow diversion | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 4,7 | 5,3 | 5,5 |
| 3434.S2.L | Attica Super-2 drain | with wedge w. partial flow diversion (long version) | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 4,7 | 5,3 | 5,5 |
| 3472.S2.L | Attica Super-2 drain | without wedge w. partial flow diversion (long version) | DN | 100 | 3,6 | 3,6 | 3,6 | 3,6 | 3,0 | 4,7 | 5,3 | 5,5 |
| 3431 | Attica Super drain | made of PUR | DN | 70 | 3,8 | 5,4 | 7,2 | 9,4 | 2,4 | 2,6 | 2,7 | 2,8 |
| 3433 | Attica Super drain | made of PUR | DN | 100 | 4,9 | 6,9 | 8,8 | 9,9 | 4,6 | 5,4 | 5,9 | 6,2 |
| 3470 | Attica Super drain | made of PUR | DN | 70 | 3,8 | 5,4 | 7,2 | 9,4 | 2,4 | 2,6 | 2,7 | 2,8 |
| 3471 | Attica Super drain | made of PUR | DN | 100 | 4,9 | 6,9 | 8,8 | 9,9 | 4,6 | 5,4 | 5,9 | 6,2 |
| 2432 | Attica Super drain | made of stainless steel | DN | 70 | 3,8 | 5,4 | 7,2 | 9,4 | 2,4 | 2,6 | 2,7 | 2,8 |
| 2434 | Attica Super drain | made of stainless steel | DN | 100 | 4,9 | 6,9 | 8,8 | 9,9 | 4,6 | 5,4 | 5,9 | 6,2 |
| 3436 | Attica Jumbo drain | made of PUR | 260 | x120 | - | - | - | - | 6,2 | 9,0 | 12,0 | 15,5 |
| 3436 + 3439 | Attica Jumbo drain | + adaptor | 260 | x120 | 6,1 | 9,2 | 12,2 | 15,7 | | | | |

| Art. No. | Product name | Name suffix | Nom. width suffix | Nominal width | Drainage capacities [l/s] | | | | Drainage capacities [l/s] | | | |
|------------|--|--------------------------------|-------------------|---------------|---------------------------|-------|-------|-------|---------------------------|-------|-------|-------|
| | | | | | at downpipe | | | | at free outlet | | | |
| | | | | | 35 mm | 45 mm | 55 mm | 65 mm | 35 mm | 45 mm | 55 mm | 65 mm |
| 3435 | Attica Plus drain | made of PUR | 280 | x85 | – | – | – | – | 5,0 | 6,5 | 8,0 | 9,6 |
| 3435 + FKS | Attica Plus drain | + flat sewer system | 280 | x85 | – | – | – | – | 2,0 | 2,6 | 3,6 | 4,4 |
| 3424 | Attica rectangular-emergency overflow | 400 mm long | 400 | 100 | – | – | – | – | 3,4 | 5,0 | 6,8 | 8,7 |
| 3424.6 | Attica rectangular-emergency overflow | 600 mm long | 400 | 100 | – | – | – | – | 3,4 | 5,0 | 6,8 | 8,7 |
| 3424.8 | Attica rectangular-emergency overflow | 800 mm long | 400 | 100 | – | – | – | – | 3,4 | 5,0 | 6,8 | 8,7 |
| 3426 | Attica rectangular-emergency overflow | 400 mm long | 600 | 100 | – | – | – | – | 5,2 | 7,5 | 10,2 | 13,1 |
| 3426.6 | Attica rectangular-emergency overflow | 600 mm long | 600 | 100 | – | – | – | – | 5,2 | 7,5 | 10,2 | 13,1 |
| 3426.8 | Attica rectangular-emergency overflow | 800 mm long | 600 | 100 | – | – | – | – | 5,2 | 7,5 | 10,2 | 13,1 |
| 3425 | Attica rectangular-emergency overflow | raised by 35 mm 400 mm long | 400 | 100 | – | – | – | – | 3,4 | 5,0 | 6,8 | 8,7 |
| 3425.6 | Attica rectangular-emergency overflow | raised by 35 mm 600 mm long | 400 | 100 | – | – | – | – | 3,4 | 5,0 | 6,8 | 8,7 |
| 3425.8 | Attica rectangular-emergency overflow | raised by 35 mm 800 mm long | 400 | 100 | – | – | – | – | 3,4 | 5,0 | 6,8 | 8,7 |
| 3427 | Attica rectangular-emergency overflow | raised by 35 mm 400 mm long | 600 | 100 | – | – | – | – | 5,2 | 7,5 | 10,2 | 13,1 |
| 3427.6 | Attica rectangular-emergency overflow | raised by 35 mm 600 mm long | 600 | 100 | – | – | – | – | 5,2 | 7,5 | 10,2 | 13,1 |
| 3427.8 | Attica rectangular-emergency overflow | raised by 35 mm 800 mm long | 600 | 100 | – | – | – | – | 5,2 | 7,5 | 10,2 | 13,1 |
| 2091 | Plug-in attachment f. emergency drainage | for extension element | | 103 | – | – | – | – | 6,8 | 9,1 | 11,0 | 12,7 |
| 2091.1 | Plug-in attachment f. emergency drainage | for basic element | | 125 | – | – | – | – | 6,8 | 9,1 | 11,0 | 12,7 |
| 3220 | Combi drain I | with ventilation | DN | 100 | 9,4 | 14,1 | 16,9 | 18,0 | – | – | – | – |
| 3221 | Combi drain II | with emergency drainage | DN | 100 | 9,4 | 14,1 | 16,9 | 18,0 | 7,0 | 11,1 | 15,0 | 18,0 |

| Abbrev. | Brand/Product | Type of collar | Producer |
|--------------|--|----------------|---------------------------------|
| AEG | Evalon V light grey | EVA | Alwitra GmbH. |
| AES | Evalon V slate grey | EVA | Alwitra GmbH |
| AEV | Evalastic V light grey | EPDM | Alwitra GmbH |
| AVG | Evalastic V slate grey | EPDM | Alwitra GmbH |
| AEW | Evalon V white | EVA | Alwitra GmbH |
| AGR | Austroplan FH+V | FPO | Agro Kunststofftechnik GmbH |
| ALP | Alkorplan A 35179010 | PVC | Renolit AG |
| BIT | Baruplan GV E 27 / MAT Fix S3R | Bitumen | Büsscher & Hoffmann / Axter |
| EXT | Extrupol F light grey | FPO | Schedetal Folien GmbH |
| FLA | Flagon EP/PV200* | FPO | Soprema GmbH |
| NOV | Novoproof DA-S | EPDM | COVERIT Abdichtungssysteme GmbH |
| OFO | without foil (ohne Folie) | | |
| POL | Polyfin 4020V light grey | FPO | Polyfin AG |
| PVB | PP fleece on top and bottom side on TPE sealing membrane | | Jäger GmbH |
| PVC | Silkaplan SGK | PVC | Sika Deutschland GmbH |
| REP | Rhepanol Hg* | PIB | FDT GmbH & Co. KG |
| RES | Resitrix CL* (Bitumen side on top) | EPDM/BIT | Carlisle CM GmbH |
| SON | Sondermarke | | |
| STG | Sarnafil TG 66-20* | FPO | Sika Deutschland GmbH |
| TEC.G | Tectofin RV grey | PVC | Wolfen Bautechnik GmbH |
| TEC.T | Tectofin RV titanium grey | PVC | Wolfen Bautechnik GmbH |
| TER.S | Thermoplan-T 20 silver grey* | FPO | Paul Bauder GmbH & Co. KG |
| TER | Thermoplan-T 20 pearl white* | FPO | Paul Bauder GmbH & Co. KG |
| TPO | TPO 2.0 F light grey | FPO | Köster Bauchemie AG |
| VAE | VAEPLAN Typ VB1040/D12 | EVA | Derbigum Deutschland GmbH |
| WOL | Wolfen IB | PVC/P BV | Wolfen Bautechnik GmbH |

*without fleece lamination on under-side

When ordering articles with adhesive collar, please specify the required connection surface!

In the table, the connecting surfaces and foils are labelled as follows::

- **Blue: standard foil: without supplement bitumen and PVC**
- **Red: special foil/special cuff**


Attention: Products with special foils/special cuffs, all sales are final, no returns accepted!

| | | | |
|-----------|--|-----------|--|
| 78 | Accessories for Grumbach Drains | 23 | Combi Drain type I for ventilation and drainage |
| 15 | Accessories for Redevelopment Drains | 23 | Combi Drain type II for main and emergency drainage |
| 27 | Alpha Drain (formerly known as Eco Drain) | 7 | Compact Collar Drain |
| 32 | Attica Balcony Drain with accessories | 90 | Connecting surfaces and special foils/cuffs |
| 39 | Attica Downpipe Connection round | 31 | Continouos Balcony Drain, lowerable |
| 57 | Attica Flat Drain with accessories | 86 | Drainage capacities acc. to DIN EN 1253-2 |
| 53 | Attica Jumbo Drain with accessories | 29 | Eccentric Drain |
| 43 | Attica Meso-2 Drain for water collection box | 71 | Fastening Bushings |
| 45 | Attica Meso-2 Drain with partial flow diversion | 70 | Fire Protection |
| 41 | Attica Meso Drain for medium capacities | 84 | Form: Main and emergency Drainage |
| 37 | Attica Plug-in Overflow | 11 | Garage/Balkony Drain with accessories |
| 60 | Attica Plus Drain with accessories | 67 | Green Roof Drainage |
| 55 | Attica Power Drain with accessories | 92 | Grumbach Area Sales Representatives |
| 64 | Attica Rectangular Emergency Overflow | 73 | Heating with accessoires |
| 49 | Attica Super-2 Drain for water collection box | 83 | Rainfall Statistics Germany |
| 51 | Attica Super-2 Drain with Partial flow diversion | 72 | Reach-through Elements |
| 47 | Attica Super Drain with accessories | 13 | Redevelopment Drains for redev. “in the pot” |
| 66 | Balkony Complete Drain with frostproof odour trap | 15 | Redevelopment Drains for redev. of old pipes |
| 9 | Balkony Drain DN 50 with accessories | 68 | Retention attachment |
| 84 | Calculation of the number of Drains required | 77 | Siphonic Drainage |
| 5 | Clamp Flange Drain DN 150 | 69 | Stainless Steel Drain |
| 6 | Collar Drain DN 150 | 76 | Stainless Steel Pipe System |
| 22 | Collar Drain DN 200 | 61 | Stainless Steel Sewer System |
| | | 74 | Trace Heating System calculation and planning |
| | | 3 | Universal Drain |
| | | 17 | Ventilation |

»Grumbach – the large range for flat roofs, balconies, terraces, green roofs and parking deck.«



Karl Grumbach GmbH & Co. KG
 Breiteilsweg 3 · 35581 Wetzlar
 GERMANY
 Phone +49 6441 9772-0
 Sales +49 6441 9772-18
 Telefax +49 6441 9772-20
www.grumbach.net
grumbach@grumbach.net

1 Team North
Field representative:
 Siegfried Lang
 Phone: +49 6441 9772-29
 Mobile: +49 163 4977200
 E-Mail: ad3@grumbach.net
 ZIP Codes: 03, 06–07, 10–16, 2 gesamt,
 3 gesamt, 44, 49, 53–59

Consulting engineer:
 Christopher Jung
 Bachelor of Engineering
 Phone: +49 6441 9772-52
 E-Mail: technik4@grumbach.net

2 Team South
Field representative:
Jörg Grumbach
 Phone: +49 6441 9772-19
 Mobile: +49 163 4977201
 E-Mail: ad1@grumbach.net
 ZIP Codes: 6 gesamt, 7 gesamt,
 8 gesamt, 9 gesamt

Consulting engineer:
 Jan-Niclas Weber
 Bachelor of Engineering
 Phone: +49 6441 9772-53
 Mail: technik3@grumbach.net

3 Trade representation
Peter and Christine Gröber
 Klever Straße 152–158 · 47839 Krefeld
 Phone: +49 21 51 590061
 Telefax: +49 21 51 503969
 Mobile: +49 171 4037537
 E-Mail: info@flachdachprodukte.com
 ZIP Codes: 01, 02, 04, 08, 09, 17–19,
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