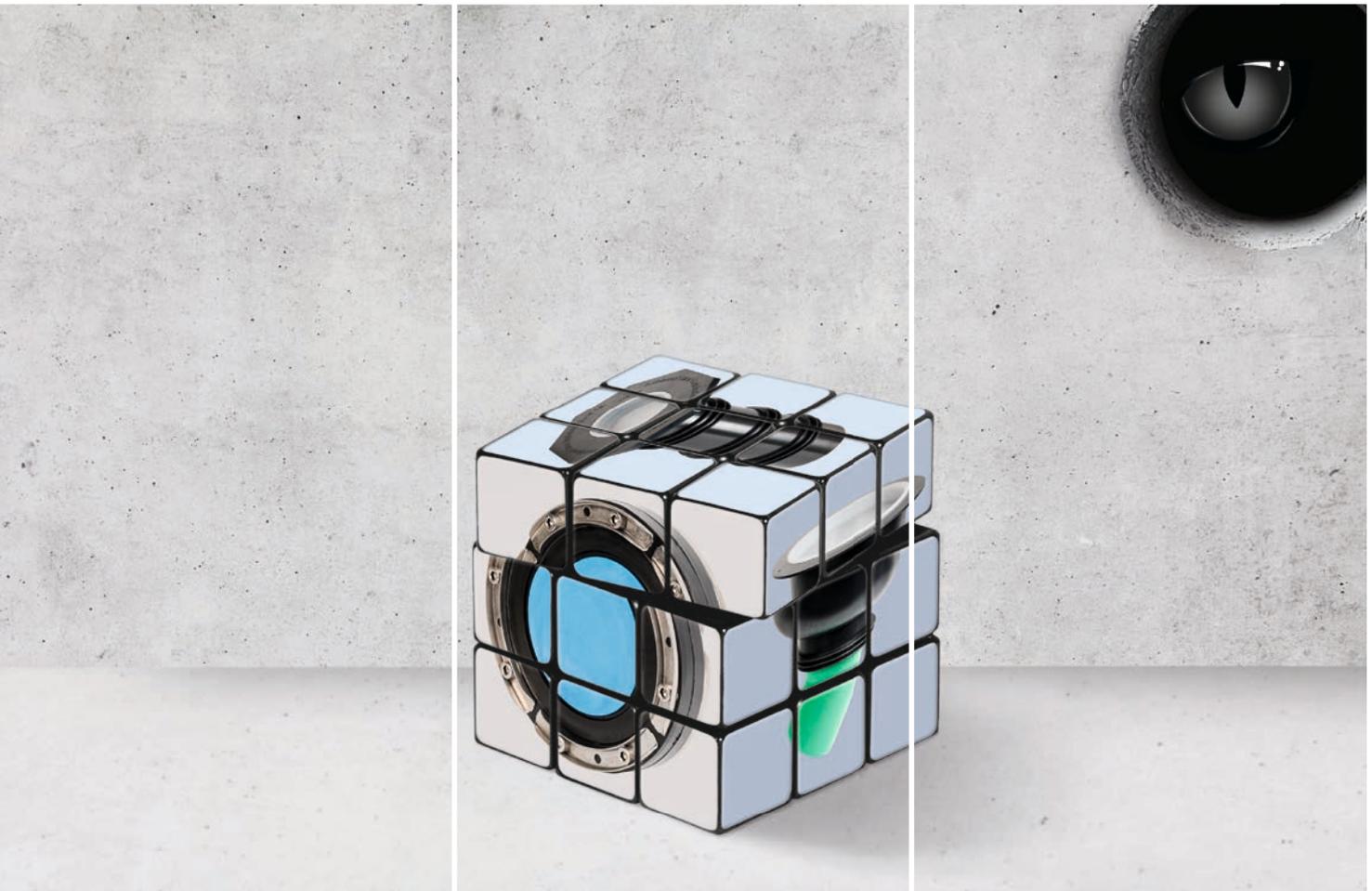


Always. Reliable. Tight.



A sealed basement in next to no time

Overview of sealing systems
for walls and base slabs

Wall collars and more - for wall entry

The crucial difference



With conventional wall entries in double plug-in sleeve design, the „flow direction“ is interrupted when the spigot of the underground sewer pipe (KG pipe) is inserted on the outside of the building. This can cause an „abutting edge“ if there are slight settlements which cannot be entirely eliminated in the area around the working space. The result: deposits form on the edge, which, over an extended period of time, can lead to a blockage in the waste water system.

Thanks to the construction of the UDM, there is no interruption in the flow direction. An „abutting edge“ does not develop if slight settlements occur which cannot be entirely eliminated in the area around the working space. The result: no deposits can build up, drainage is not affected. The integrated flange allows to apply surface sealing based on DIN 18195 part 4.

Create a wall entry on-site in less than 5 minutes



Universal sleeve UDM



Article code:
UDM (D)/X (- KG 2000)



UDM in concrete wall with outer seal

Features and technical data:

- application: DIN 18195, part 4 waterproof concrete stress class 1
- tested by MPA
- blind sealing ready for installation, watertight straight after concreting
- can be installed easily and quickly on-site
- available for KG and KG 2000 pipes, DN 100 and DN 150
- no interruption of the flow direction (see graphic)
- easy to store
- with patch flange for applying polymer modified bituminous thick coatings
- with integrated 3-ribbed seal

Scope of delivery/dimension:

- rubber sleeve (EPDM)
- clamping strap
- blind plate to be knocked out
- lamella plugs

When delivered as a set, the following are also included:

- KG (2000) pipe, DN 100/DN 150

	Nominal diam. of KG pipe	Type	Article code
without KG pipe	DN 100	KG / KG 2000	UDM 100
	DN 150	KG / KG 2000	UDM 150
with KG pipe	DN 100	KG	UDM 100/X
	DN 100	KG 2000	UDM 100/X - KG 2000
	DN 150	KG	UDM 150/X
	DN 150	KG 2000	UDM 150/X - KG 2000

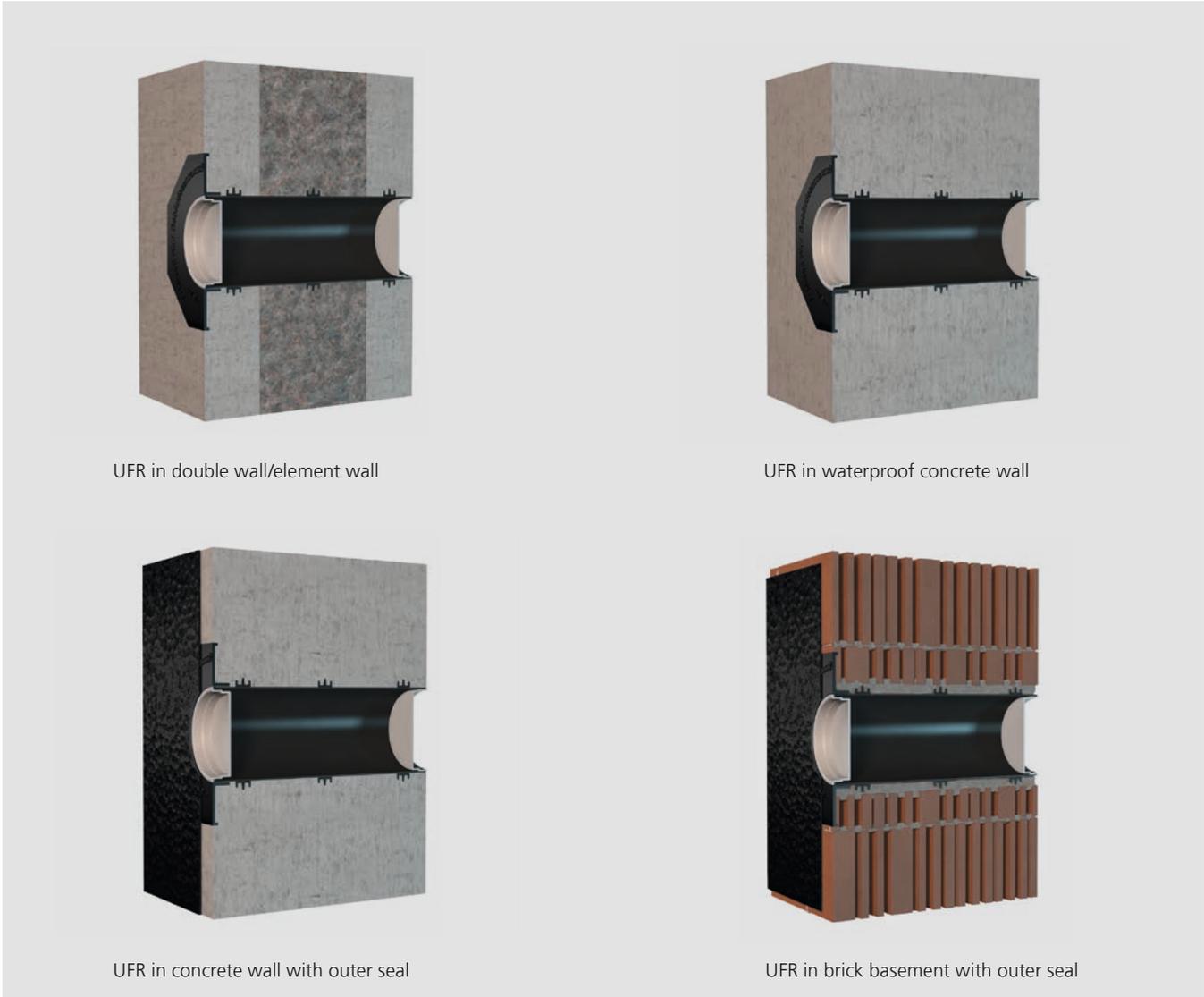
X= wall thickness in mm (200*, 240*, 250*, 300, 400)

* only for DN 100

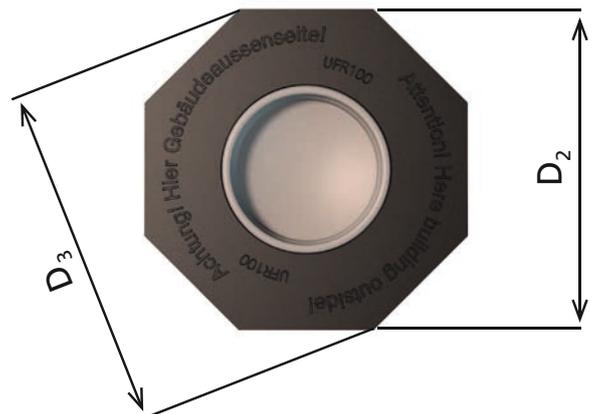
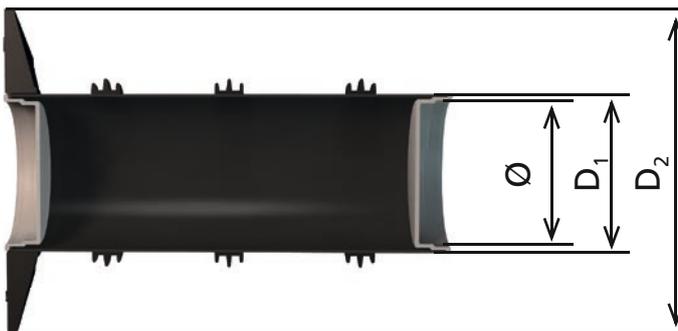
The new UDM universal sleeve offers maximum flexibility and sealing reliability. This innovative principle makes it possible to convert standard KG (2000) pipes in dimensions DN 100 and DN 150 into wall entries, adjusted to the wall thickness, on the building site itself. The piece of KG pipe which has been cut to size can easily be inserted into the sleeve and fixed with a clamping strap – it's as simple as that. A thoroughly tried and tested integrated 3-ribbed seal is used to provide a seal to the water-impermeable concrete. The UDM also makes it possible to reliably apply a polymer modified bituminous thick coating thanks to the integrated patch flange. Time-consuming and error-prone preparation of a groove into the polymer modified bituminous thick coating as connection to the KG pipe is thus avoided. Can be stored on-site as it can be adapted to individual applications.

The wall sleeve of the future

wall types / installation options



The three ribbed seals and the patch flange allow installation in four different wall types.



The universal wall sleeve UFR

with patch flange for every wall type



Article code:
UFR (D)/X

Features and technical data:

- with patch flange for applying polymer modified bituminous thick coatings
- can be used in all wall types including element wall structures
- application: DIN 18195, part 4 waterproof concrete stress class 1
- tested in KIWA construction test
- can be cut to length on-site
- resistant to breakage
- simple installation in the shuttering
- for installation flush with the shuttering
- supplied with cover, ready for installation

Dimensions

Wall sleeve \varnothing_1 (mm)	Wall sleeve \varnothing_a (mm) D_1	Patch flange \varnothing_a (mm) D_2	Patch flange \varnothing_a (mm) D_3	Article code
100	110	210	227	UFR 100/X
150	162	260	282	UFR 150/X
200	214	311	336	UFR 200/X

The UFR is a plastic wall sleeve with a patch flange and 3-ribbed seal. When using polymer modified bituminous thick coatings and mineral sealing slurries (load case according to DIN 18195, part 4) the outer seal can be connected to the patch flange. The 3-ribbed seals ensure a reliable seal even with double walls/element walls and waterproof concrete.

The universal standard press seal for pipes HSD-SSG

advantages



Super segmented ring technology

- adjustment of the seal to pipe/cable diameter on-site
- segments with exact diameter marking
- predetermined separation lines for easy removal of segments
- split/divisible for subsequent sealing of cables/pipes already laid



U-profile press segments

- maximum stability with minimum material use
- corrosion-resistant due to high quality stainless steel V2A (AISI 304L)



Torque control

- integrated visual and tactile torque control
- additional safety during installation
- elimination of errors



High demands

- sealing width 40 mm
- waterproof concrete stress class 1
- high-quality EPDM rubber with a hardness of 55 shore, thus excellent resilience rate and long service life



Blind cover

- absolutely gas- and watertight, even when the pipes/cables have not yet been laid

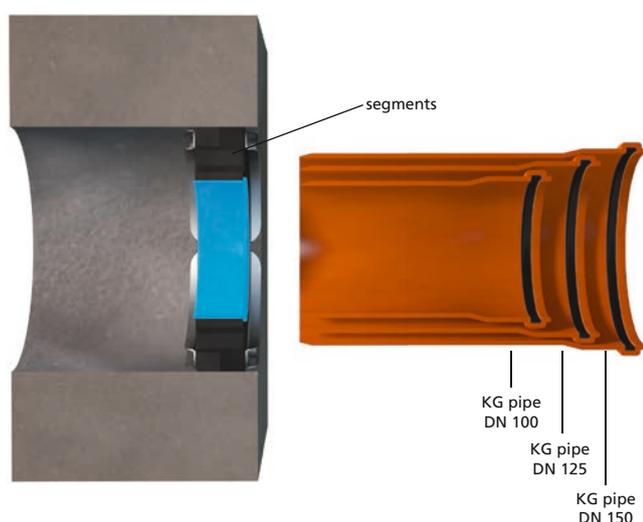
The universal standard press seal for pipes HSD-SSG with super segmented ring technology



Standard press seal	Core drilling Ø _a (mm)	Suitable for media pipe Ø _a (mm)	Article code
graduated	100	25, 32, 40, 50, 63	HSD 100 - SSG - 25-63 V2A*/EPDM
	150	75, 90, 110	HSD 150 - SSG - 75-110 V2A*/EPDM
	200	110, 125, 135, 160	HSD 200 - SSG - 110-160 V2A*/EPDM
infinitely	100	18 – 65	HSD 100 - SSG - 18-65-SL V2A*/EPDM
	150	70 – 112	HSD 150 - SSG - 70-112-SL V2A*/EPDM**
	200	110 – 162	HSD 200 - SSG - 110-162-SL V2A*/EPDM**
	250	159 – 211	HSD 250 - SSG - 159-211-SL V2A*/EPDM**
	300	200 – 252	HSD 300 - SSG - 200-252-SL V2A*/EPDM**

* available in V4A (AISI 316L)

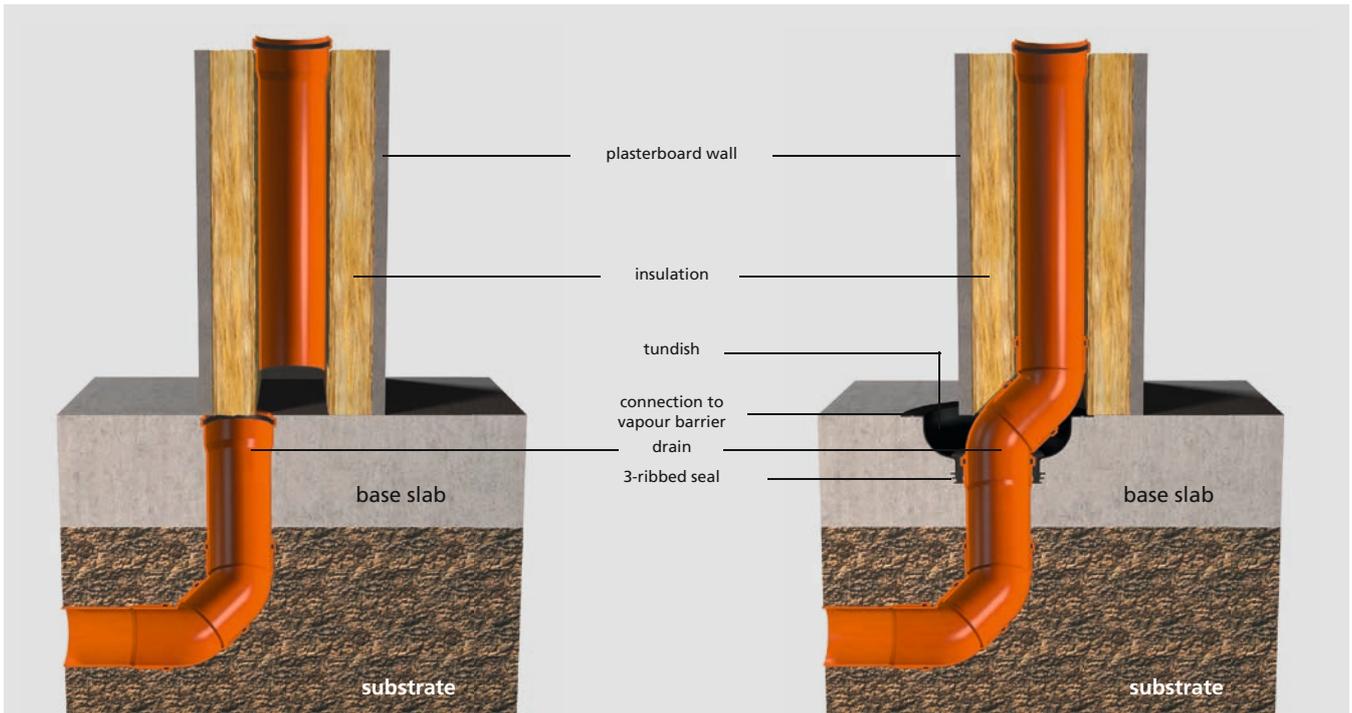
** available in NBR



The HSD-SSG range consists of 5 seal dimensions in 8 variants and is the universal solution for the sealing of cables/pipes with Ø 18 – 252 mm in core drillings/wall sleeves with Ø 100 – 300 mm. The graduated HSD-SSG variants are the ideal sealing solution for common standard pipe dimensions. The infinitely HSD-SSG-SL variants guarantee a stepless sealing of cables and pipes Ø 18 – 252 mm, even of non-standard pipe dimensions. Thanks to the super segmented ring technology the seal can be adapted to the required cable/pipe diameter on-site, and is therefore ideal for storing. All HSD-SSG variants are either split or can be split at a later date, a fact which makes them suitable even for sealing cables and pipes which have already been laid. Thanks to the marked segments and integrated torque control operating safety is increased and installation time substantially reduced.

The floor entry

with tolerance compensation



The problem

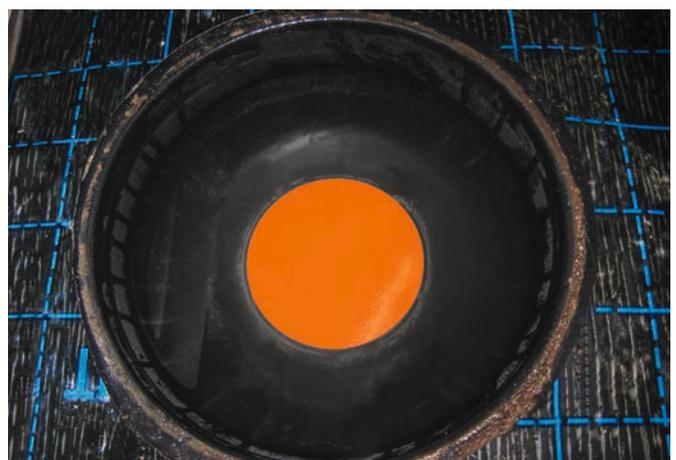
- connect downpipes to the KG pipe floor drains
- bridging the tolerances, mostly using rectangular recesses
- gastight and vapour-proof sealing and integration of the vapour barrier is very expensive

The solution

- tundish to connect KG pipes to compensate tolerances up to 90 mm (after concreting) in each direction between downpipe and floor drains
- makes recesses and resulting additional work unnecessary
- integrated adhesive ribbon to connect to vapour barrier



Difficulty: integrating the vapour barrier



Easy integration of the vapour barrier using the adhesive ribbon

Tundish AT



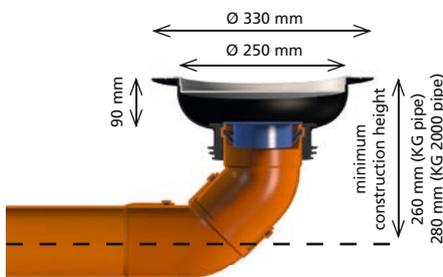
Article code:
AT 100/X

Features and technical data:

- application: waterproof concrete stress class 1
- tested by MPA
- pipe and pan connected via rubber sleeve, therefore flexible
- with integrated 3-ribbed seal
- tundish with pre-mounted underground sewer pipe – straight design or with 45° bend
- mounted ready for installation
- delivery includes sealing cover for protection against concrete and dirt
- tundish made of ABS
- pipe made of polyvinyl chloride (PVC-U, KG pipe) or polypropylene (PP, KG 2000 pipe)

Nominal diam. of KG pipe	Type	Design	Overall length x in mm	Article code
DN 100	KG	straight	approx. 590*	AT 100/590
		bent 45°		AT 100/45°
	KG 2000	straight	approx. 590*	AT 100/590 - KG 2000
		bent 45°		AT 100/45° - KG 2000

* other overall lengths from 250 mm up to 590 mm available on request



The KG pipe tundish is the ideal solution for perfectly-fitting waste water installation and heat connection adjustments between downpipes and KG floor drains. As the connection point between the waste water pipe and the continuing line is set deliberately low with the AT-100 tundish for KG pipes, it is possible to compensate for a misalignment of the connection axes using KG bends in the base slab itself. The KG pipe tundish can be mounted quickly and without using tools when laying the waste water pipes and before concreting the base slab.

Floor entry BDM

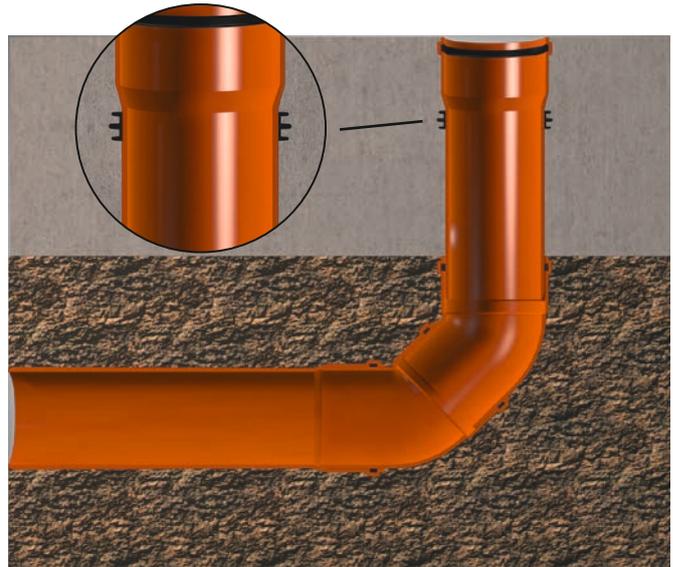
the water barrier for floor drains



Article code:
BDM (D)/500 (KG 2000)

Features and technical data:

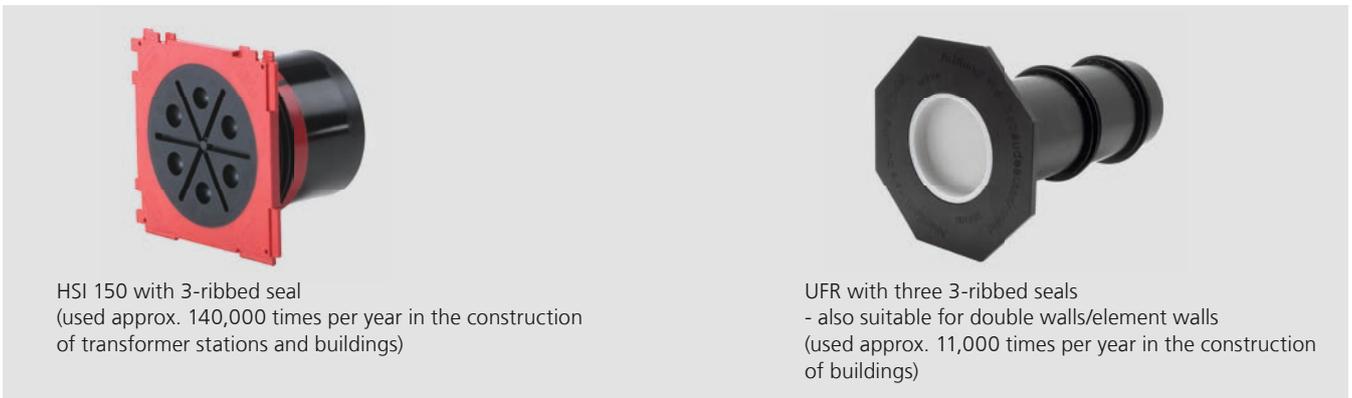
- application: waterproof concrete, stress class 1
- tested by MPA
- quick and easy installation
- high-quality and robust 3-ribbed seal made of EPDM, preassembled



The 3-ribbed seal – safe, proven and reliable triple sealing.

- absolutely watertight
- reliable, pressure-tight seal against concrete
- tested by MPA

Ø _i in mm	Overall length in mm	Pipe type	Article code
100	500	KG	BDM 100/500
		KG 2000	BDM 100/500 KG 2000
150		KG	BDM 150/500
		KG 2000	BDM 150/500 KG 2000



HSI 150 with 3-ribbed seal
(used approx. 140,000 times per year in the construction of transformer stations and buildings)

UFR with three 3-ribbed seals
- also suitable for double walls/element walls
(used approx. 11,000 times per year in the construction of buildings)

The BDM is a KG pipe floor drain with a 3-ribbed seal as water barrier flange. The 3-ribbed seal is embedded in the concrete and protects the building from rising water thanks to capillary cracks between concrete and KG pipe.

Wall collar HMK

the water barrier for floor drains



Article code:
HMK - DN (D)



Features and technical data:

- application: waterproof concrete stress class 1
- tested in KIWA construction test
- quick installation
- suitable for all standard conduit materials
- 2 stainless chromium steel straps to tighten the wall collar

Dimensions

Wall collars \varnothing_a in mm	Pipe OD in mm	Diameter range		Article code
		from \varnothing (mm)	up to \varnothing (mm)	
198	110	105	116	HMK-DN 110
213	125	120	130	HMK-DN 125
228	140	135	148	HMK-DN 140
247	160	154	166	HMK-DN 160
282	200	195	210	HMK-DN 200

Wall collars HMK are suitable for all applications where conduits pass through concrete walls, shafts or base slabs and where tightness against pressing water is required. As they are embedded in the concrete, the wall collars provide an ideal solution when a wall sleeve or core drilling is not an option. The HMK wall collars are used when installing standard plastic conduits made from PVC or PE. However, they are also compatible with all other standard conduit materials. They are installed on clean, smooth conduit surfaces using 2 stainless chromium steel strips.

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