



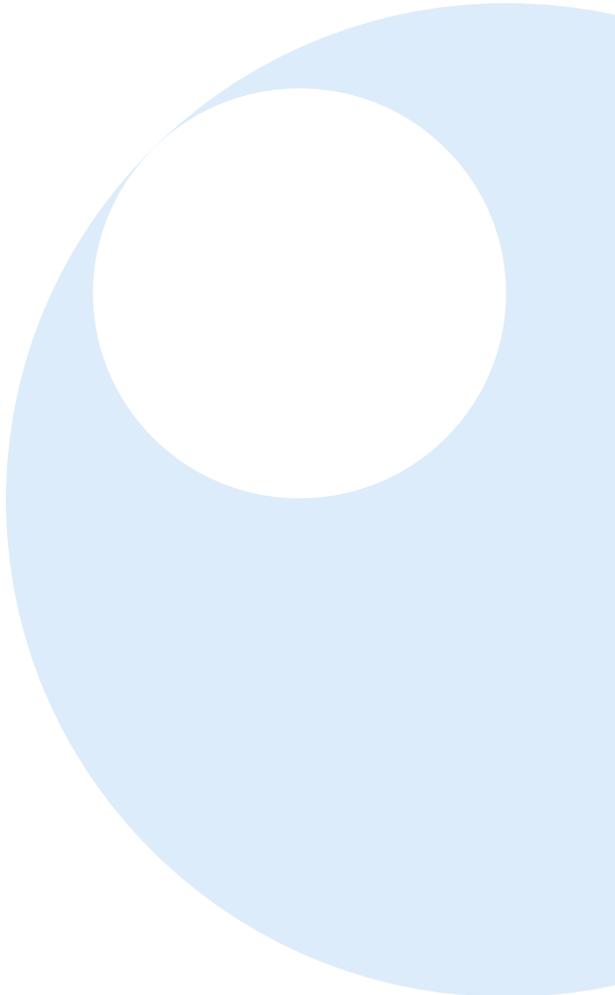
## **BASIKA**

Drainage channels





The BASIKA brand has been a byword for perfection in stainless steel for 80 years now. As the leading supplier to the sector, we react flexibly to your requirements and, because of the most innovative production facilities, we are able to guarantee the highest level of quality. Highly individual solutions and a passion for detail are at the forefront of all we do. Thanks to our employees' excellent craftsmanship, we combine efficient series production and artisan production to form customized solutions in extraordinary quality.



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# MAGUS 360

for customized channels

## Individually customized solutions

At MAGUS, each building project receives the attention it deserves. That is why we consciously decide in favour of comprehensive consultation, competent planning support and customized production. Therefore we design and manufacture every channel individually. And that is how we make sure that our products are tailored perfectly to your needs. We focus on holistic solutions from a single-source supplier.



## Consultation

With our innovative solutions covering every aspect of drainage technology we offer state-of-the-art housing technology that meets even the highest demands. Our consultation service includes demonstrating sustainable options and intelligent solutions for the task at hand. We support the implementation of building projects with comprehensive concepts and our wide-ranging and in-depth know-how.

## Planning

With our planning support we are able to succeed in creating tailor-made concepts to meet complex requirements. We always take a systematic approach to design discrete, first-class holistic solutions that exploit the full potential modern drainage concepts have to offer.



### **Production**

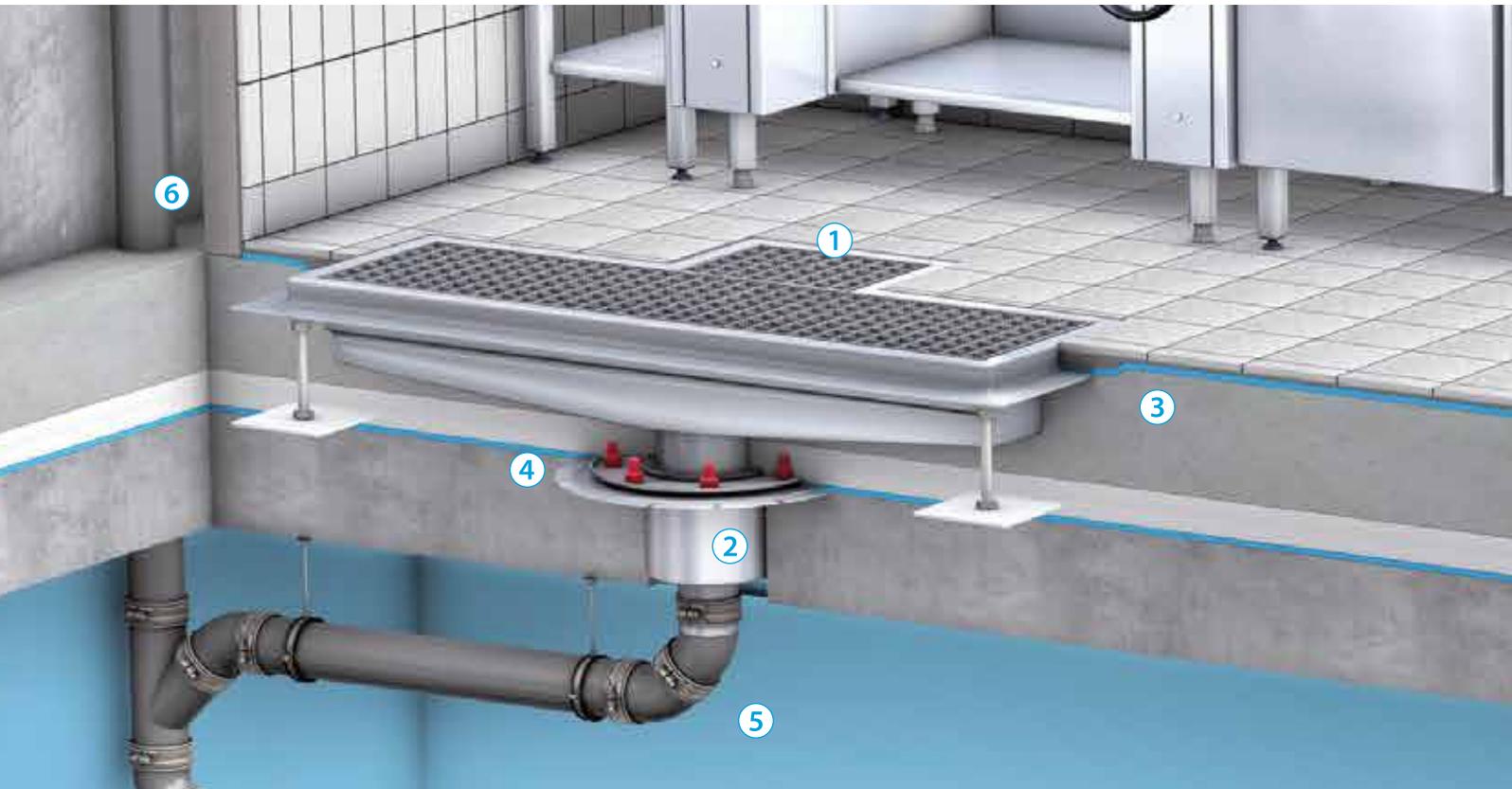
Our production is distinguished by an optimum combination of an experienced workforce and state-of-the-art machines and systems. The merits of excellent craftsmanship and technological precision flow jointly into flexible processes and guarantee the consistent high quality of our individually customized products.

### **Service**

With our know-how and comprehensive services we guarantee the success of the project from start to finish. The quality of our customer services is something you can rely on, no matter if measuring, taking the system into service and providing professional instructions or during maintenance and servicing.

# Application

Professional solutions with reliable functionality



## The system

- ① Drainage channel
- ② Drain body
- ③ Upper sealing level
- ④ Lower sealing level
- ⑤ Drain pipe
- ⑥ Ventilation

## Application

Drainage channels collect and transport water with the pollution load contained into the wider sewage system. This makes the drainage channel an important part of modern building drainage. Through the use of stainless steel as a material, our channels offer the ideal solution for applications in which high hygiene requirements have to be fulfilled and thermal loads compensated.

# The channel

Safety and protection with the BASIKA channel system



## ① Cover

The cover is integrated in the channel body and forms the area to be walked or driven over that can be easily removed for convenient cleaning and inspection. Different applications use the cover suitable for each case, such as the grid grate for commercial kitchens, through to the PVC roll grate for saunas and swimming pools.

## ② Sludge trap

To protect the drainage system against coarse dirt entering, BASIKA sludge traps with large retention volumes can be used for easy cleaning.

## ③ Channel body

The channel body forms the catchment surface and volume for the waste water and surface water flowing in. It is integrated into the floor and forms a secure holder for the cover. The water is drained to the drain body through the connecting piece. The system size of the connecting piece is dependent on the dimensioning of the drain body. The channel bodies are individually adapted and produced according to the conditions.

## ④ Seal

The seals can assume different functions depending on the requirement and design. Leakage water arising is passed into the drain body as a leakage water ring. The sealing ring ensures protection against backflow between the drain body and the channel connecting piece.

## ⑤ BASIKA interim piece

The BASIKA interim piece serves to extend the channel connector in case of a thicker floor structure. In addition, an interim piece with integrated flange can be used for an additional sealing level.

## ⑥ BASIKA drain body

The drain body passes the water safely into the drainage system and at the same time protects against fire and odours. It also establishes the perfect connection with the sealing level. The correct dimensioning of the drain body is of crucial importance for the sustainable function of the entire drainage system and also defines the system size of the components to be inserted from above.

# Many advantages

Advancement down to the finest detail



## Material

The BASIKA drainage channels are made of high-quality V2A (grade 1.4301) stainless steel.

On request, all drainage channels can be manufactured from V4A (grade 1.4404). V4A is recommended on account of its higher quality.

## Stability

The optimal floor anchoring for reliable and durable installation and function is achieved with additional perforated strips on the channel floor and welded-on anchors.

The flexible tile connection angle was developed for perfect compensation of thermal expansion.

## Reliability

BASIKA drainage channels provide for lasting absolute leak tightness.

Even with larger dimensions, the channel body is manufactured from a continuous plate. Only above a length of 6 m are flange connections with special seals used for reasons of transportability.

# Individual is our standard

Perfection that inspires



## Synchro-grid grate – noticeably better

The innovative synchro-grid grate offers a high degree of hygiene, convenience and stability. The synchronised configuration of bearing bars and cross bars mean the balanced grid high points allow residue-free cleaning, great stability and convenient, stable standing – ergonomically simply perfect.



## BASIKA flange connections – intelligent and versatile

The BASIKA drainage channels with universal flange can be used flexibly depending on the building waterproofing (e.g. for synthetic resin floors, alternative sealants in thin-bed procedure, etc.).



## Adjustable levelling feet – precise installation

The precise alignment of the channel during installation is the basis for perfect incorporation in the floor. With the continuously adjustable levelling feet, the channel is aligned in the required position irrespective of the actual surface, such that water can flow away without accumulating.

## Fire protection

The highest level of fire safety protection is guaranteed through classified fire barriers in R 30 - R 120 quality in accordance with the German Wiring Systems Directive (LAR).

All BASIKA fire protection floor and ceiling drains with FireStop made of V4A stainless steel have the required national technical approvals (AbZ) and national technical test certificates (AbP).

## Hygiene

Sustainable and optimum hygiene is a requirement which is perfectly fulfilled by the BASIKA drainage channels. The intelligent component constructions and the meticulous processing steps in production ensure absolutely smooth surfaces and simple cleaning in use.

## Sound insulation

The solid design and noise-reduction concept effectively reduce vibroacoustic effects. In conjunction with the coordinated arrangement of bracing measures, the special construction offers semi-active damping and absorption of noise and sound.

# BASIKA box channels

The right channel for every application

BASIKA box channels are the result of decades of experience in drainage technology. The high-quality workmanship guarantees many years of trouble-free operation. BASIKA box channels are ideal for use in industry, commercial kitchens, butchers, dairies, swimming pools and sanitary areas. The advantages are obvious. They offer a large area for the inflow of water, they are hygienically unobjectionable and very resilient.

## BASIKA KRS box channels



### Application

- For swimming pools and sanitary areas
- Ideal for barefoot areas
- Narrow visible edge

### Technical properties

- Only 6 mm visible edge
- Channel width between 100 mm and 200 mm
- Drainage capacity up to 1.6 l/s per connector

The KRS line of channel systems offers the perfect solution for all swimming pools and sanitary areas. The small visible edge perfectly integrates the design-oriented channel in modern communal showers and other barefoot areas.

## BASIKA KR box channels



### Application

- For industrial and commercial applications
- Larger collection area and hydraulic output
- High stability from wider visible edge

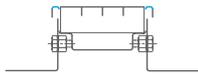
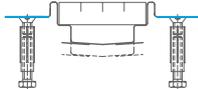
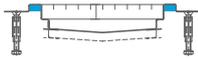
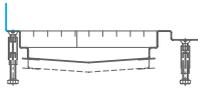
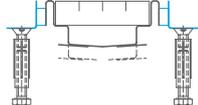
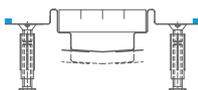
### Technical properties

- 25 mm visible edge
- Channel width above 250 mm
- Flexible drainage output depending on the drain body

The KR line channel system is perfectly suited for use in industrial environments. With ultra-modern design and high-quality workmanship, the BASIKA KR box channel meets even the highest demands in the professional domain.

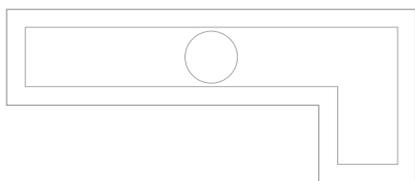
# Specifications of BASIKA KRS / KR box channels

Thanks to their special features and properties, BASIKA box channels are matched for optimal integration in the installation situation, quick and professional installation and the anticipated traffic load.

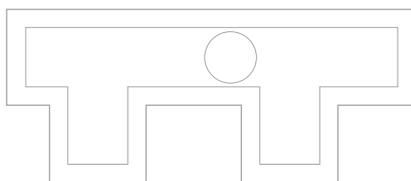
		KRS	KR
	Box channel	Type No.	Type No.
<p><b>Channel without flange</b></p> <p>The channel without flange is used where only one seal is present in the floor and there is no heavy traffic.</p>		3520000	3501000
<p><b>Channel with universal flange</b></p> <p>The universal flange provides for a wide range of applications, e.g. for synthetic resin floors, compound seals and many more.</p>		3522000	3510000
<p><b>Heavy traffic channel</b></p> <p>Heavy traffic channels are used wherever there is increased loading traffic, e.g. from forklift trucks, cars, lorries.</p>		3523000	3511100
<p><b>Cavity filling for improved hygiene</b></p> <p>Cavity filling of the U profile with resin mortar is advantageous in hygiene and kitchen areas, slaughterhouses, butchers and the beverage industry.</p>			3511000
<p><b>Single-sided wall/base connection</b></p> <p>A wall/base connection is used for optimal installation of a channel directly on a wall or a base.</p>		3522100	3514000
<p><b>Circumferential tile connection angle</b></p> <p>With the circumferential expansion joint there is sufficient space for the channel to expand under temperature load thus avoiding damage to the tiles.</p>		3521000	3512000
<p><b>Sanded flange</b></p> <p>This option gives the technical adhesive additional holding strength and ensures improved adhesion.</p>		optional	optional

## Form follows function

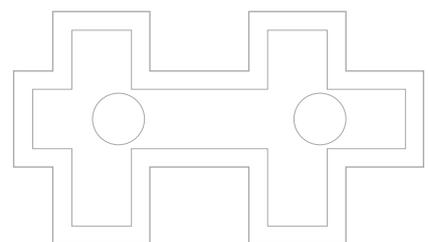
The BASIKA box channels are individually adapted to every requirement and situation. The connectors are each manufactured specifically in their form and structure, as well as position, and therefore fit perfectly into the application.



Box channel with one angled channel, with 1 connecting piece



Box channel with two branch channels, with 1 connecting piece



Box channel with four branch channels, with 2 connecting pieces

# BASIKA slot channels

The lean, streamline solution

If waste water accumulates where there is heavy traffic volume, the BASIKA slot channels are in their element. They are extremely robust and withstand even the highest loads. Application areas for the BASIKA slot channels include the separation of wet and dry areas, in commercial kitchens, in cooling and storage facilities and in front of lifts. The BASIKA slot channel solutions extend from one to four-arm channel systems.

## BASIKA SR8 slot channels



### Application

- For swimming pools and sanitary areas
- For barefoot areas as a result of the small slot width
- Optimal for modern space concepts as a result of the narrow visible edge

### Technical properties

- Slot width of just 8 mm
- Only 15 mm visible edge
- The slot channel is completely visible from above for cleaning/hygiene, there are no hidden corners and edges.

The BASIKA SR 8 slot channel fits discreetly into the architecture and thus reduces visibility to a minimum. It is ideally suited for use in barefoot and sanitary areas and harmonises perfectly with the requirements of modern shower rooms.

## BASIKA SR20 slot channels



### Application

- For industrial and commercial applications
- Higher hydraulic output
- High stability from wider visible edge

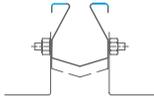
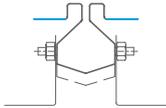
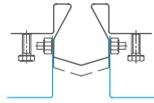
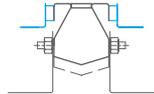
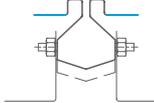
### Technical properties

- Slot width of 20 mm
- Visible edge of just 22.5 mm
- The slot channel is completely visible from above for cleaning/hygiene, there are no hidden corners and edges.

The BASIKA SR 20 slot channel is especially well suited for small to medium water volumes in the industrial environment, for example to separate wet and dry areas. Even in highly frequented areas, this linear drainage concept offers the perfect solution.

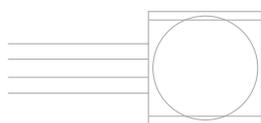
# Specifications for BASIKA SR8 / SR 20 slot channels

Thanks to their special features and properties, BASIKA slot channels are matched for optimal integration in the installation situation, quick and professional installation and the anticipated traffic load.

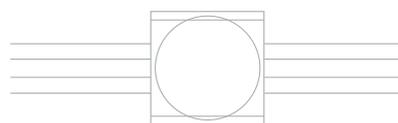
		SR8	SR 20
	Slot channel	Type No.	Type No.
<p><b>Channel without flange</b></p> <p>The channel without flange is used where only one seal is present in the floor and there is no heavy traffic.</p>			3530000
<p><b>Channel with universal flange</b></p> <p>The universal flange provides for a wide range of applications, e.g. for synthetic resin floors, compound seals and many more.</p>		3550000 (adhesive flange)	3540000
<p><b>Heavy traffic channel</b></p> <p>Heavy traffic channels are used wherever there is increased loading traffic, e.g. from forklift trucks, cars, lorries.</p>			3535000
<p><b>Cavity filling for improved hygiene</b></p> <p>Cavity filling of the U profile with resin mortar is advantageous in hygiene and kitchen areas, slaughterhouses, butchers and the beverage industry.</p>			3532000
<p><b>Circumferential tile connection angle</b></p> <p>With the circumferential expansion joint there is sufficient space for the channel to expand under temperature load thus avoiding damage to the tiles.</p>			3531000
<p><b>Sanded flange</b></p> <p>This option gives the technical adhesive additional holding strength and ensures improved adhesion.</p>		optional	optional

## Form follows function

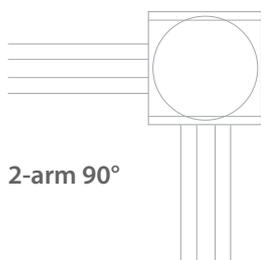
The BASIKA slot channels are individually matched to the requirements and conditions. The form and structure, as well as the position of the drains and connectors, are each manufactured specifically and therefore fit perfectly into the application.



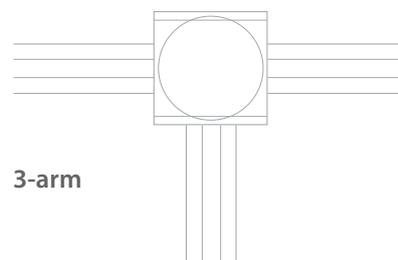
1-arm



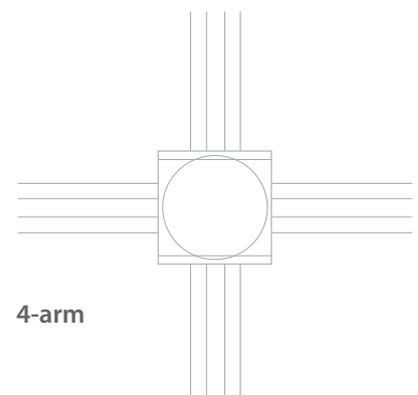
2-arm 180°



2-arm 90°



3-arm



4-arm

# Accessories for BASIKA channels

Individual adjustment to the use and prevailing conditions is ensured with a broad range of accessories. BASIKA allows covers, a broad selection of sludge traps and the suitable seal to be combined as a modular system to provide the right solution.

## BASIKA box channels



## BASIKA slot channels



## BASIKA covers

						
	Grid grate	Web grate	Checkered plate	Slot grate	PVC roll grate	Tileable channel
<b>KRS</b>	●	●	●	●	●	●
<b>KR</b>	●	●	●		●	
<b>SR</b>	●	●	●	●	●	●

The large number of covers allows for the right solution for every special application. Whether as anti-slip grid grate for commercial kitchens through to PVC roll grate for saunas and swimming pools - the extensive product range always has a perfect solution at hand.

## BASIKA sludge trap

					
	Daily sieve (Standard)	Sludge trap B	Sludge trap C	Sludge trap C + D (up to 3 l/s)	Sludge trap C + D (horizontal)
<b>KRS</b>	●	●			
<b>KR</b>	●	●	●	●	●
<b>SR 8</b>	●	●			
<b>SR 20</b>	●	●	●	●	●

The channels are equipped with a daily sieve as standard to protect the drainage system, consisting of channel and drain body, from coarse dirt entering. BASIKA sludge traps offer a larger retention volume and more convenient cleaning. The broad-ranging programme of BASIKA sludge traps covers all requirements. Even special constructions and screwed solutions are available.

## BASIKA seals



Leakage water ring



Sealing ring

Reliable drainage of the leakage water from ceramic floor coverings from the sealing level via the drain body is achieved by means of the leakage water ring, which necessitates sealing on the bare concrete floor.

The sealing ring ensures backflow protected sealing of the ring gap between the drain body and drain top.

# The right system

So that everything runs to plan

## Determining the system size

The drainage channel is an important component of drainage technology; consequently, it must integrate seamlessly into the drainage system to guarantee it functions properly in the long term. The channel serves as a catchment surface and conduit to the drain body.

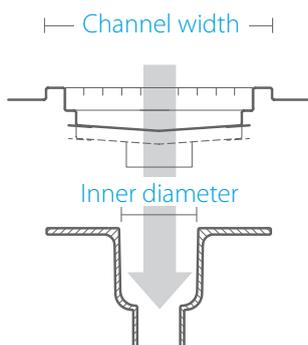
The hydraulic dimensioning of the channel system is achieved with the drain body, which includes important functions, such as fire protection and odour trapping. The drain body is developed and tested for the maximum hydraulic output and therefore has to be matched to the anticipated quantity of water. The maximum volume flow arising decides the suitable drain bodies, which can then be determined on the basis of specific properties, such as fire protection, type of flange and orientation of the connector.

The system size - A, B, C or D - is then defined, with which dimension the drainage components located above can be connected. A further option, if required, is to combine the appropriate interim piece. The connecting piece of the drainage channel has to correspond to just this system size determined.



Drainage output	① Drainage capacity	Connection	② System	System size
	1.4 l/s	DN 70	B	
1.6 l/s	DN 100	B		
2.0 l/s	DN 100	C		
3.0 l/s	DN 100	C		
7.0 l/s	DN 100	D		

## Dimensions of the system size



	A	B	C	D
Outer diameter channel connecting piece	98 mm	140 mm	185 mm	240 mm
System size	A	B	C	D
Inner diameter drain body	110 mm	150 mm	230 mm	280 mm

# The BASIKA drain bodies

The basis for professional drainage

The water collected in the drainage channels is passed through the BASIKA drain bodies into the drain pipes. The drain bodies have the task of making a secure connection of the flange with the lower sealing level. In addition, the system size of the drain body defines the dimension of the channel connecting piece. Any height difference can be compensated with a BASIKA interim piece in the relevant system size.



## BASIKA interim pieces

		Compression-sealing flange		Extension pieces	
		Adhesive flange		with inflow	to extend
System	Interim piece	Interim piece	Interim piece		
<b>B</b>	BASIKA interim piece EB K 3190078	BASIKA interim piece EB P 3190077	BASIKA interim piece EB P 3190077	BASIKA extension piece with EB inflow 3190079	BASIKA extension piece EB 3190103
<b>C</b>	BASIKA interim piece EC K 3190080	BASIKA interim piece EC P 3190081	BASIKA interim piece EC P 3190081	BASIKA extension piece with EC inflow 3190082	BASIKA extension piece EC 3190104
<b>D</b>	BASIKA interim piece ED K 3190083	BASIKA interim piece ED P 3190084	BASIKA interim piece ED P 3190084	BASIKA extension piece with ED inflow 3190085	BASIKA extension piece ED 3190108

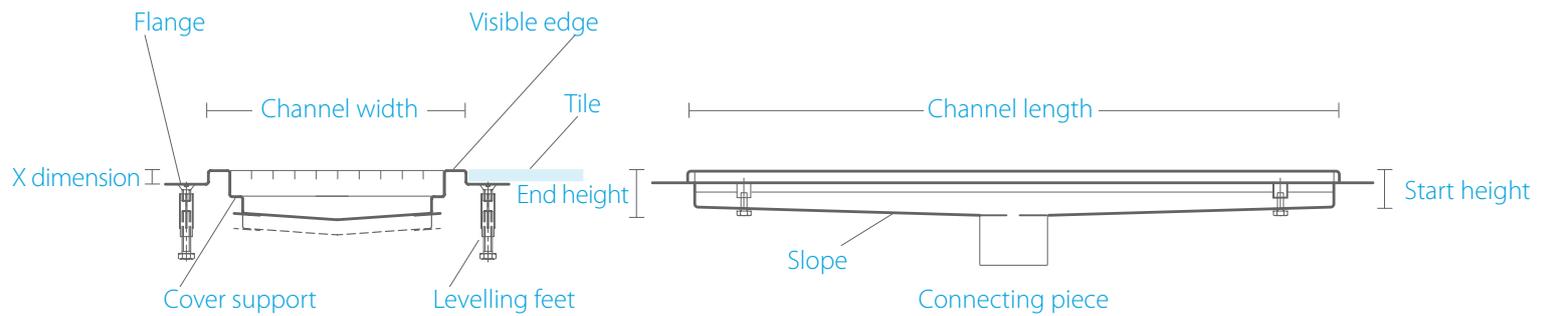
## BASIKA drain bodies

		Adhesive flange				Compression-sealing flange				
		Vertical connector		Horizontal connector	Vertical connector		Horizontal connector			
Performance	Connection	System	Fire protection	Fire protection	Fire protection	Fire protection	Fire protection	Fire protection		
<b>1.4 l/s</b>	<b>DN 70</b>	<b>B</b>	BASIKA drain body EB 1.4 DN 70 VK 302 20 01	BASIKA drain body EB 1.4 DN 70 VK – FS 302 20 62	BASIKA drain body EB 1.4 DN 70 VK – BFS 302 20 89	BASIKA drain body EB 1.4 DN 70 HK – FS 302 20 07	BASIKA drain body EB 1.4 DN 70 VP 302 30 01	BASIKA drain body EB 1.4 DN 70 VP – FS 302 30 46	BASIKA drain body EB 1.4 DN 70 VP – BFS 302 31 57	BASIKA drain body EB 1.4 DN 70 HP – FS 302 30 07
<b>1.6 l/s</b>	<b>DN 100</b>	<b>B</b>	BASIKA drain body EB 1.6 DN 100 VK 302 20 13	BASIKA drain body EB 1.6 DN 100 VK – FS 302 20 64		BASIKA drain body EB 1.6 DN 100 HK – FS 302 20 16	BASIKA drain body EB 1.6 DN 100 VP 302 30 12	BASIKA drain body EB 1.6 DN 100 VP – FS 302 30 48		BASIKA drain body EB 1.6 DN 100 HP – FS 302 30 14
<b>2.0 l/s</b>	<b>DN 100</b>	<b>C</b>	BASIKA drain body EC 2.0 DN 100 VK 303 20 02	BASIKA drain body EC 2.0 DN 100 VP – FS 303 20 16			BASIKA drain body EC 2.0 DN 100 VP 303 30 00	BASIKA drain body EC 2.0 DN 100 VP – FS 303 30 14		
<b>3.0 l/s</b>	<b>DN 100</b>	<b>C</b>	BASIKA drain body EC 3.0 DN 100 VK 303 20 04	BASIKA drain body EC 3.0 DN 100 VK – FS 303 20 17		BASIKA drain body EC 3.0 DN 100 HK – FS 303 20 06	BASIKA drain body EC 3.0 DN 100 VP 303 30 02	BASIKA drain body EC 3.0 DN 100 VP – FS 303 30 15		BASIKA drain body EC 3.0 DN 100 HP – FS 303 30 04
<b>7.0 l/s</b>	<b>DN 100</b>	<b>D</b>	BASIKA drain body ED 7.0 DN 100 VK 304 20 03			BASIKA drain body ED 7.0 DN 100 HK – FS 304 20 09	BASIKA drain body ED 7.0 DN 100 VP 304 30 00			BASIKA drain body ED 7.0 DN 100 HP – FS 304 30 03

# TECHNICAL APPENDIX

## Good to know

A drainage channel has many details and properties that need to be observed, defined and integrated. The most important aspects are summarised here to gain the best understanding of the drainage channels.



### Channel length/width

The area visible after installation of the channel defines the channel length/width, which also includes the visible edges.

### Visible edge

Visible edges are the visible borders of the channel body following installation.

### Levelling feet

The continuously adjustable levelling feet allow precise alignment of the channel during installation.

### Cover support

The cover lies precisely and securely in the channel on the shaped cover support.

### Connecting piece

The connecting piece passes the water collected in the channel into the drain body. The system size of the connecting piece is dependent on the dimensioning of the drain body.

### Start height

The start height is given by the difference between the upper edge of the channel and the outside channel floor from where the slope to the drainage connector begins.

### End height

The end height is given by the difference between the upper edge of the channel and the lowest point of the channel floor.

### Flange

The flange offers the possibility of optimally incorporating the channel in the floor structure.

### X dimension

The X dimension is the height difference between the upper edge of the channel and the surface of the flange and is therefore the height for the upper floor covering.

### Slope

The channel floor has a slope between 0.5% and 1% towards the connecting piece, such that the water can flow away completely.

### Load classes

- K3: Loadable to max. 300 kg, areas without vehicular traffic (e.g. public washing and shower facilities / swimming pools)
- L15: Loadable to max. 1.5 t, areas with light vehicular traffic without forklift trucks (e.g. commercially used rooms)
- M125: Loadable to max. 12.5 t, areas with vehicular traffic (e.g. car parks, factories, workshops)

Depending on the application, certain channel types are especially suitable. In order that the function and safety in operation is ensured conveniently and sustainably, the covers are also of special importance. Both the structure and the stability must be matched to the anticipated traffic load and types of load.

	KRS box channel						KR box channel			SR slot channel			
	Anti-slip grid grate	V4A anti-slip grid grate	Anti-slip checkered plate	V4A slot grate without anti-slip	Anti-slip PVC roll grate	Anti-slip tiles / natural stone	Anti-slip grid grate	V4A anti-slip grid grate	Anti-slip PVC roll grate	Anti-slip brushed slot grate	Anti-slip grid grate	V4A anti-slip grid grate	Anti-slip PVC roll grate
Production of margarine, edible fats and oils	●		●				●						
Milk treatment and processing, cheese production	●						●			●			
Chocolate and confectionery manufacture	●						●						
Production of baked goods	●		●				●						
Slaughter, meat treatment and processing	●	●					●	●					
Craft business with sales	●						●						
Treatment and processing of fish and delicatessen products		●						●			●		
Vegetable treatment and processing	●						●						
Kitchens, canteens	●						●						
Cold stores – deep-freeze facilities	●						●						
Sales areas	●						●						
Commercial laundries		●						●					
Concentrate feed production	●	●					●	●					
Agriculture	●						●						
Paint shops	●						●						
Ceramic industry	●						●						
Concrete plants	●						●						
Workshops for vehicles, aircraft, vessels	●						●						
Sewage treatment plants	●						●						
Fire stations	●						●			●			
Schools and nurseries	●						●						
Parking areas		●	●					●			●	●	
Swimming pools, sauna				●	●	●			●	●			●



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