

RIKI Surface Drainage

COST-EFFECTIVE CHANNEL SYSTEMS FOR GREATER SAFETY

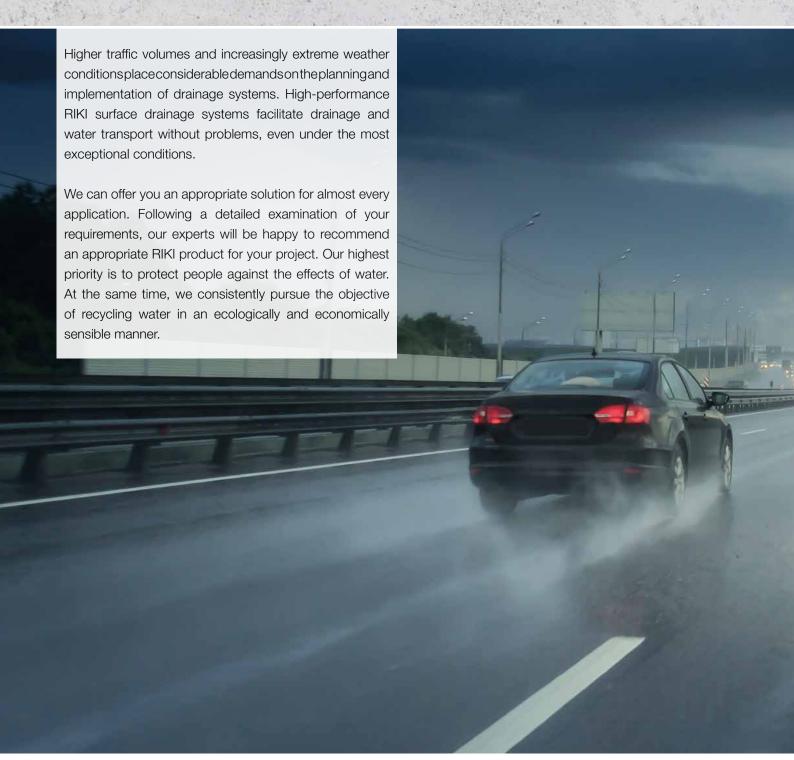
Pursuant to DIN-EN-1433 and DIN-V-19580

Pursuant to DIBT Authorisation No. Z-74.4-81 / Z-74.4-83 / Z-74.4-178



RIKI Surface Drainage

OUR SUSTAINABLE PRODUCTS FOR CURRENT AND FUTURE ENVIRONMENTAL CONDITIONS







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RIKI surface drainage systems

OUR SOLUTIONS FOR EVERY CHALLENGE



ROADS & MOTORWAYS

RIKI slotted channels ensure optimum linear drainage of the carriageway. The risk of aquaplaning is thus minimised as far as possible. High frost and de-icing salt resistance ensures the durability of the slotted channels.



FILLING STATIONS (PETROL STATIONS)

RIKI slotted channels have general building approval for SFH systems (these being systems for storing, filling and handling water-polluting substances). This means that they are resistant to hazardous substances and, consequently, ideal for use at filling stations (petrol stations). Durability and groundwater protection are assured by high-quality concrete materials. Traffic safety is also improved as a result, as any precipitation occurring can be speedily drained away.



INDUSTRIAL AREAS

On the one hand, RIKI slotted channels meet the requirements for extreme loads in situations in which industrial forklifts are used, for example. However, with the issuing of building approval for SFH systems, they also provide optimum groundwater protection for the drainage of water-polluting substances such as acids, lyes and alkaline solutions, oils and fuels.



INLAND PORTS & SEAPORTS

Slotted channels offer high safety assurance levels when installed in traffic areas subject to extremely high loads. Special solutions for larger forklifts (e.g. reach stackers) ensure reliable and enduring drainage in this manner.



TUNNELS

RIKI slotted channels provide invaluable services in tunnels. Here, hazardous substances and flammable liquids are safely diverted and drained away with special baffle shafts.



CAR PARKS

RIKI slotted channels ensure dependable drainage of large areas for pedestrians and vehicles. In addition to providing a high degree of safety, slotted channels with monolithic moulded kerbs in these areas represent a sophisticated overall solution, both technically and in terms of their appearance.



AIRPORTS

RIKI slotted channels meet all drainage criteria pursuant to the information sheet concerning airport drainage. These drainage systems for SFH facilities ensure that hazardous substances in the vicinity of de-icing or refuelling facilities are drained away in accordance with applicable regulations.



LOGISTICS AREAS

RIKI slotted channels with a level surface ensure optimum accessibility for vehicles. This is particularly helpful in the case of forklift trucks transporting heavy loads.





Application areas

RIKI drainage systems are employed in a wide range of traffic settings. Our innovative technologies are always designed to meet the increasing demands and challenges of the future, thus ensuring appropriate solutions for every project. Increasing traffic volumes and loads, changed environmental conditions, improved efficiency and more responsible use of water as a resource are the important factors we consider when designing a customised concept to address your project.

Comprehensive and competent service

Each and every project has its own requirements and challenges. Aside from our products, we also provide you with a comprehensive service, including everything from planning to support upon completion of your project.

The tendering process and the planning of drainage solutions can both encompass innumerable variants, whereby the key question here is which design will result in the most economically feasible and technologically sound solution. We assist you in the search for the best possible answer.

We provide you with on-site advice and support relating to your project, thus ensuring that all variants are successfully implemented between the planning and implementation stages of a RIKI system solution.

Take advantage of the many years of expertise we have gained and our know-how in the area of surface drainage, and listen to and learn from the advice provided by our experienced specialists.



OUR RIKI HIGH-PERFORMANCE CONCRETE: TOMORROW'S MATERIAL, BUT WE'RE USING IT TODAY!

CETON® is ultra high-strength concrete from RIKI with ductility that meets building inspectorate approval (AbZ) no. Z-74.4.178 as issued by the Deutsches Institut für Bautechnik (DIBt), the German technical authority in the construction sector.

Our **RIKI CETON®** channels therefore embody the latest generation of CONCRETE, a material that offers significant added value and persuasive advantages for your building projects!

red l	a G	reater	stability	
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Greater sustainability

Greater corrosion resistance

	RIKI CETON®	C40/50
Compressive strength (N/mm²)	129	58
Flexural strength (N/mm²)	16 - 20	5 - 7
Penetrating depth of water-polluting substances (e _w /mm)	0	12 - 15
De-icing salt resistance in (gr/m²)	Up to 50	Up to 500
Abrasion resistance (mm/m)	1.1	3.2
Fire protection pursuant to DIN 4102	F120	F90
Static elastic modulus (KN/mm²)	45	42
Statics pursuant to DIN EN standards	Safe up to F-900	Safe up to F-900
Load class pursuant to DIN EN 1433	Up to F-900/ Reach stackers	Up to F-900/ Reach stackers
Life cycle assessment		
Specific energy expenditure in MJ/kg	1.2	0.93
Specific CO2 emissions in CO2/kg	0.1	0.08
Recycling option in %	100	100

A further innovation involves the fact that our **RIKI CETON®** concrete in the **RIKI CETON® PRO** variant facilitates the production of structurally dimensioned components in line with the given application. What is special here is the complete absence of metallic reinforcement. Any risk of reinforcement corrosion is therefore avoided!



We can provide you with a guarantee against reinforcement corrosion for 30 years in individual cases.





Additional quality features for our products

When our RIKI channel elements are manufactured, the selection of a suitable material determines the functionality, durability, density and sustainability of the product, as well as its resistance to aggressive media.

PRODUCTION

We ensure that our high-quality products are manufactured in a modern and flexible production process.

REINFORCEMENT

Reinforcing steel of a controlled quality (e.g. BST 500 M/S) is employed for reinforcement. The high strength of our concrete coupled with the high yield strength of the reinforcement employed mean that RIKI drainage systems can reliably absorb the static and dynamic loads that occur.

QUALITY MONITORING

Continuous external and internal monitoring means we can guarantee a consistently high quality standard.

DIN/EN

The complete RIKI drainage system complies with EN 1433 in conjunction with DIN V 19580.

WATER-POLLUTING SUBSTANCES

The channel systems for dealing with water-polluting substances (e.g. fuels, oils or similar) that we manufacture comply with the German Water Resources Act (WHG), with DIBt approval nos. Z-74.4-81, Z-74.4-83 and Z-74.4-178.

EXPOSURE CLASSES

XA2 – Concrete corrosion due to a chemical attack, a moderately corrosive chemical environment (with the exception of attacks by sulphate > 900 mg/l).

XD3 - Reinforcement corrosion resulting from chlorides, with the exception of seawater. Environment: alternating damp and dry.

XF4 – Frost attack with and without de-icing agent. Environment: high water saturation and de-icing agent.

XC4 - Reinforcement corrosion caused by carbonation. Environment: alternating damp and dry.

XM2 – Concrete attacked due to severe wear stress.

XS3 - Reinforcement corrosion due to chlorides from seawater. Concrete in tidal areas and in spray water and atomised spray areas (e.g. dock walls in port facilities).

MOISTURE CLASS

WS - Concrete corrosion due to alkali-silica reaction (ASR). Environment: damp + alkali intake from outside + severe dynamic stress.

CERTIFICATIONS

Argus CERT BAU

- PZ-20.230.00-2.5
- PZ-20.230.00-2.5-C115

комо

• K 76982



Innovativel Patented!

Our channel systems with an integrated foundation

INNOVATIVE SPECIAL DESIGNS FOR TRAFFIC AREAS WITH HIGH LOAD-BEARING CAPACITIES

A concrete foundation cast on site is usually required for channels installed in areas with high loads (airports, container terminals, central median strip crossings on motorways and similar). We can supply you with a large number of our innovative slotted channels with integrated foundations. You can then dispense with on-site casting of the concrete foundation under certain circumstances.

Slotted channels with integrated foundations are customised solutions, and our specialists will be happy to advise you in this regard.



YOUR BENEFITS AT A GLANCE:

- **Shortened construction time**
- **Lower costs**
- **Easier handling**
- Ideal for time-critical construction projects
- Very durable system
- **Patented system**

PARTICULARLY SUITABLE FOR:



Airports (taxiways, apron areas)



Storage and logistical areas subject to extreme loads due to heavy traffic, forklifts and handling equipment such as reach stackers



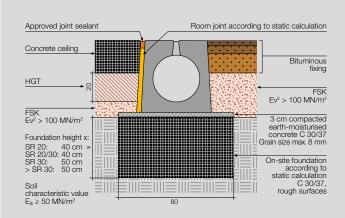
Central median strip crossings on motorways



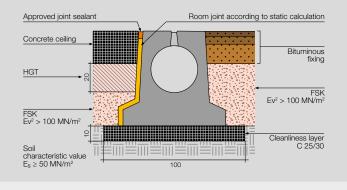
SUCCESSFUL USE

Slotted channel systems with integrated foundations are our own development. When combined with an appropriate concrete quality characterised by high compressive and flexural strength properties, this innovative static concept frequently makes it possible to dispense with costly and time-consuming on-site construction of concrete foundations.

CONVENTIONAL DESIGN WITH ON-SITE CONCRETE **FOUNDATION CONSTRUCTION**



RIKI SLOTTED CHANNEL WITH INTEGRATED FOUNDATION





nninger RIKI

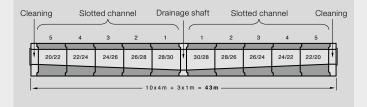


Technical information

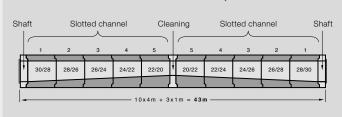
OUR SPECIAL DESIGNS FOR TRAFFIC ROUTES WITHOUT LONGITUDINAL GRADIENTS

In the absence of a site gradient, a slotted channel with its own gradient is required to ensure unimpeded drainage of surface water. Our RIKI channel elements have an integrated internal gradient of 0.5%. This generally means that channel lengths of up to 43 metres can be drained. The installation of additional channels without an internal gradient upstream of the shaft means that you can also extend overall channel lengths.

INSTALLATION EXAMPLE | LOW POINT



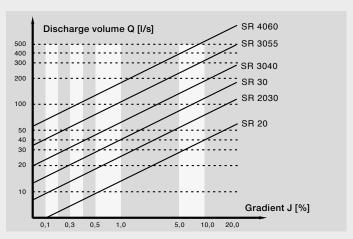
INSTALLATION EXAMPLE | HIGH POINT



HYDRAULIC PERFORMANCE **PURSUANT TO PRANDTL-COLEBROOK**

The hydraulic performance of our channels is calculated using the Prandtl-Colebrook formula based on the overall drainage cross-section, the gradient and the roughness coefficient (kst).

The diagram below merely represents a recommendation for the selection of a suitable profile.





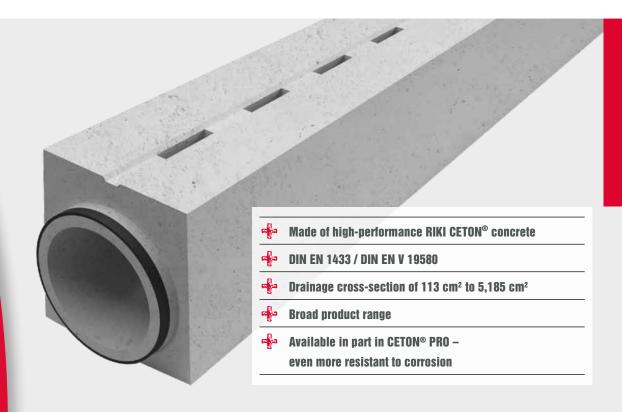


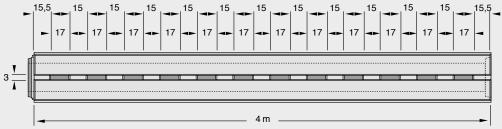
RIKI CETON® slotted channels

FOR ROADS AND INDUSTRIAL AREAS

		AB		1		
Channel type	Page	Drainage cross-section in cm ²	Internal gradient without with	top level	Surface slope to slot	with kerb
		•				
SR 12 OE 30x30	14	113	•	•		
SR 20 OE 32x38	14	314	•	•		
SR 20/25 OE 31x38	14	414	•	•		
SR 20/30 OE 32x45	15	514	• \	•		
SR 20/30 OE 32x45 IG	15	514-314	•	•		
SR 30 OE 40x46	15	706	•	•		
SR 30 GS 40x45	16	706	•		•	
SR 30 OE 40x46 IG	16	706-514	•	•		
SR 30 GS 40x45 IG	16	706-514	•		•	
SR 30 GS 40x45 H 3·7·12·15	17	706	•		•	•
SR 30 GS 40x45 IG H 3·7·12·15	17	706-514	•		•	•
SR 34 OE 80x58	17	907	•	•		
SR 30/40 OE 40x55	18	1006	•	•		
SR 30/40 OE 40x55 IG	18	1006-706	•	•		
SR 30/40 GS 40x55	18	1006	•		•	
SR 30/40 GS 40x55 IG	19	1006-706	•		•	
SR 30/40 GS 40x55 H 3·7·12·15	19	1006	•		•	•
SR 30/40 GS 40x55 IG H 3·7·12·15	19	1006-706	•		•	•
SR 30/55 GS 45x75	20	1450	•		•	
SR 40/50 OE 56x70	20	1660	•	•		
SR 40/60 OE 56x80	20	2060	•	•		
SR 50/80 OE 74x110	21	5185	•	•		



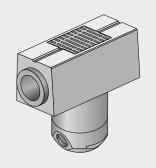




Our special design with an uninterrupted slot is available on request.

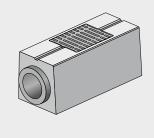
DRAINAGE SHAFT

Construction length: 1.00 m

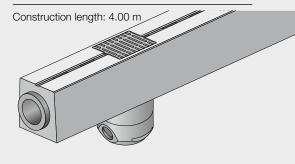


CLEANING CHANNEL

Construction length: 1.00 m



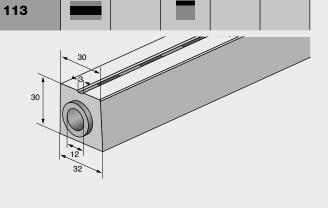
CHANNEL WITH INTEGRATED DRAINAGE SHAFT



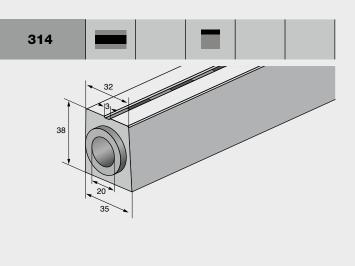


Drainage cross-section in cm ²	Internal without	gradient with	top level	Surface slope to slot	with kerb	
•						
						1

SR 12 OE 30x30					
Internal dimensions	Width	12 cm			
internal uniterisions	Height	12 cm			
Outer dimensions	Top width	30 cm			
	Bottom width	32 cm			
	Height	30 cm			
Kerb	_				
Weight	400 kg (2 m)				
Load	D-400				
Slot width	3/5 cm				
Fitted lengths	1.00 - 1.99 m				



Internal dimensions Width 20 cm Height 20 cm Top width 32 cm Bottom width 35 cm Height 38 cm Kerb - Weight 945 kg (4 m) Load D-400 F-900 Slot width 3/5 cm Fitted lengths 1,00 - 3,99 m	SR 20 OE 32x38					
Height 20 cm	Internal dimensions	Width	20 cm			
Outer dimensions Bottom width 35 cm Height 38 cm Kerb - Weight 945 kg (4 m) Load D-400 F-900 Slot width 3/5 cm		Height	20 cm			
Height 38 cm Kerb – Weight 945 kg (4 m) Load D-400 F-900 Slot width 3/5 cm	Outer dimensions	Top width	32 cm			
Kerb - Weight 945 kg (4 m) Load D-400 F-900 Slot width 3/5 cm		Bottom width	35 cm			
Weight 945 kg (4 m) Load D-400 F-900 Slot width 3/5 cm		Height	38 cm			
Load D-400 F-900 Slot width 3/5 cm	Kerb	_				
Slot width 3/5 cm	Weight	945 kg (4 m)				
	Load	D-400 F-900				
Fitted lengths 1.00 - 3.99 m	Slot width	3/5 cm				
	Fitted lengths	1.00 - 3.99 m				



SR 20/25 OE	31x38	RIKI CETON® HIGHWAY
Internal dimensions	Width	20 cm
Internal dimensions	Height	25 cm
	Top width	31 cm
Outer dimensions	Bottom width	34 cm
	Height	38 cm
Kerb	-	Special features:
Weight	785 kg (4 m)	Long slots
Load	D-400 F-900	(not suitable for bicycle travel!)
Slot width	3/5 cm	Bulge on the upper edges
Fitted lengths	1.00 - 3.99 m	for improved asphalt connection
		CONTRECTION





			Drainage cross-section in cm ²	Internal gradient without with	top level	Surface slope to slot	with kerb
SR 20/30 OE	32x45		514				
Internal dimensions	Width	20 cm		'			
	Height	30 cm		32			
	Top width	32 cm		3		لمر	
Outer dimensions	Bottom width	36 cm				Also for	OPA,
	Height	45 cm	45 30	0 ()		SLOT	tem
Kerb	_		1	1		(see	p. 48)
Weight	1,010 kg (4 m)					Also	in
Load	D-400 F-900			20		CETON with gua	IO PRO
Slot width	3/5 cm			36		with gue (see	p. 6)
Fitted lengths	1.00 - 3.99 m						

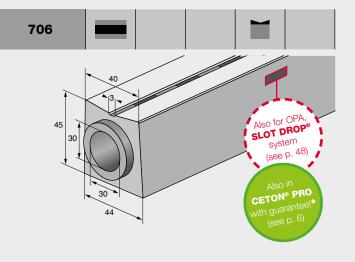
SR 20/30 OE	32x45 IG		514-314	-
Internal dimensions	Width	20 cm		
internal dimensions	Height	30 cm	32	
	Top width	32 cm	3	p de la constitución de la const
Outer dimensions	Bottom width	36 cm		Also for OPA, SLOT DROP®
	Height	45 cm	45 30	
Kerb	-			(see p. 48)
Weight	1,140 kg (4 m)			Also in
Load	D-400 F-900		20	CETON® PRO with guarantee!*
Slot width	3/5 cm		36	(see p. 6)
Fitted lengths	1.00 - 3.99 m			

SR 30 OE 40	x46		706
Internal dimensions	Width	30 cm	
internal dimensions	Height	30 cm	40
	Top width	40 cm	133
Outer dimensions	Bottom width	44 cm	Also for OPA, SLOT DROP SLOT DROP
	Height	46 cm	
Kerb	-		(see p. 48)
Weight	1,285 kg (4 m)		Also in
Load	D-400 F-900		Also #PRO CETON® PRO with guarantee!*
Slot width	3/5 cm		with guarante (see p. 6)
Fitted lengths	1.00 - 3.99 m		

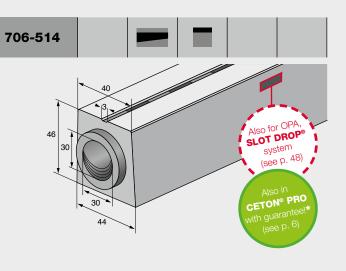


Drainage cross-section in cm ²	Internal without	gradient with	top level	Surface slope to slot	with kerb
•					

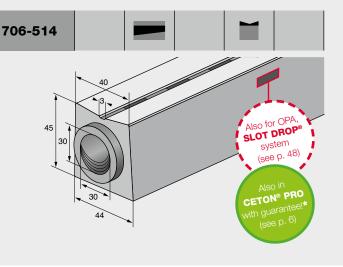
SR 30 GS 40x45			
Internal dimensions	Width	30 cm	
	Height	30 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	44 cm	
	Height	45 cm	
Kerb	_		
Weight	1,190 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		



SR 30 OE 40x46 IG			
Internal dimensions	Width	30 cm	
	Height	30 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	44 cm	
	Height	46 cm	
Kerb	_		
Weight	1,370 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		



SR 30 GS 40x45 IG			
Internal dimensions	Width	30 cm	
internal dimensions	Height	30 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	44 cm	
	Height	45 cm	
Kerb	-		
Weight	1,265 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		





Weight

Slot width

Fitted lengths

Load

1,255 - 1,470 kg (4 m)

D-400

3/5 cm

1.00 - 3.99 m



			Drainage cross-section in cm ²	Internal gradient without with		vith erb
SR 30 GS 40	x45 H 3·7·12·15		706			
Internal dimensions	Width	30 cm				
internal dimensions	Height	30 cm	0/7/40/45	40		
	Top width	40 cm	3/7/12/15			
Outer dimensions	Bottom width	44 cm			OPA	
	Height	45 cm	45		Also for OPA SLOT DROP	,
Kerb	3 cm 7 cm 12 cm 15 cm		30		system (see p. 48	





Also for OPA, SLOT DROP®

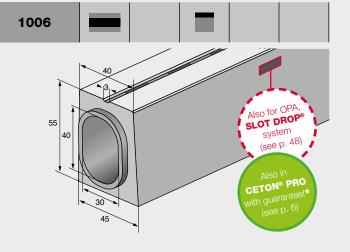
system

(see p. 48)

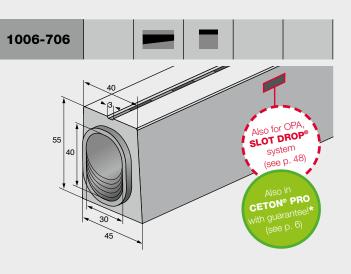


Drainage cross-section in cm²	Internal without	gradient with	top level	Surface slope to slot	with kerb

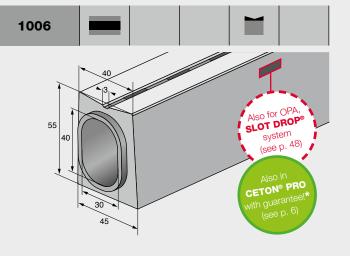
SR 30/40 OE 40x55			
Internal dimensions	Width	30 cm	
	Height	40 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	45 cm	
	Height	55 cm	
Kerb	_		
Weight	1,340 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		



SR 30/40 OE 40x55 IG			
Internal dimensions	Width	30 cm	
internal dimensions	Height	40 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	45 cm	
	Height	55 cm	
Kerb	_		
Weight	1,395 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		



SR 30/40 GS 40x55			
Internal dimensions	Width	30 cm	
internal dimensions	Height	40 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	45 cm	
	Height	55 cm	
Kerb	_		
Weight	1,320 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		





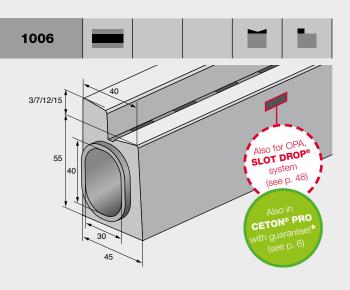


Drainage cross-section in cm ²	Internal without	gradient With	top level	Surface slope to slot	with kerb
•					

SR 30/40 GS 40x55 IG			
Internal dimensions	Width	30 cm	
internal dimensions	Height	40 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	45 cm	
	Height	55 cm	
Kerb	_		
Weight	1,395 kg (4 m)		
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		

1006-706		
55 40	40	Also for OPA, sLOT DROP® system (see p. 48) Also in CETON® PRO with guarantee!* (see p. 6)

SR 30/40 GS 40x55 H 3·7·12·15			
Internal dimensions	Width	30 cm	
	Height	40 cm	
	Top width	40 cm	
Outer dimensions	Bottom width	45 cm	
	Height	55 cm	
Kerb	3 cm 7 cm 12 cm 15 cm		
Weight	1,370 - 1,585 kg (4 m)		
Load	D-400		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		



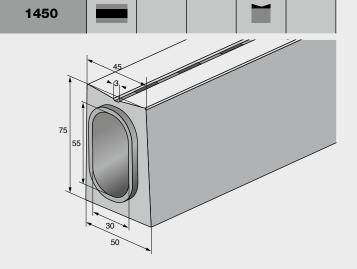
SR 30/40 GS	40x55 IG H 3·7·1	12-15
Internal dimensions	Width	30 cm
	Height	40 cm
Outer dimensions	Top width	40 cm
	Bottom width	45 cm
	Height	55 cm
Kerb	3 cm 7 cm 12 cm 15 cm	
Weight	1,440 - 1,660 kg (4 m)	
Load	D-400	
Slot width	3/5 cm	
Fitted lengths	1.00 - 3.99 m	



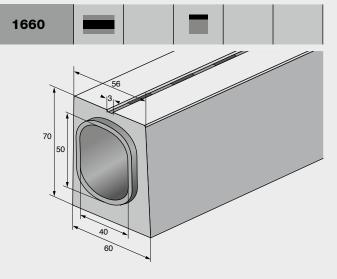


Drainage cross-section in cm ²	Internal without	gradient with	top level	Surface slope to slot	with kerb

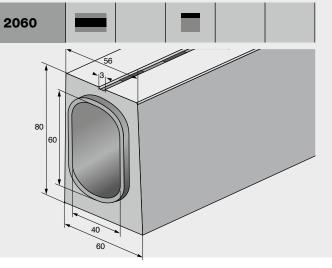
SR 30/55 GS	45x75	
Internal dimensions	Width	30 cm
	Height	55 cm
Outer dimensions	Top width	45 cm
	Bottom width	50 cm
	Height	75 cm
Kerb	-	
Weight	2,110 kg (4 m)	
Load	D-400 F-900	
Slot width	3/5 cm	
Fitted lengths	1.00 - 3.99 m	



56x70	
Width	40 cm
Height	50 cm
Top width	56 cm
Bottom width	60 cm
Height	70 cm
_	
2,395 kg (4 m)	
D-400 F-900	
3/5 cm	
1.00 - 3.99 m	
	Width Height Top width Bottom width Height - 2,395 kg (4 m) D-400 F-900 3/5 cm

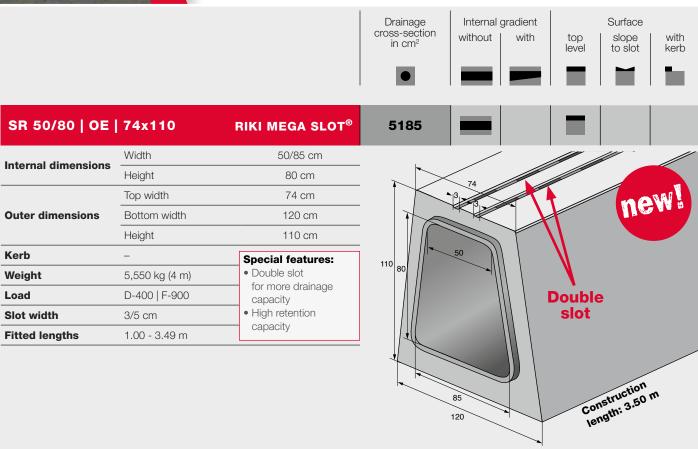


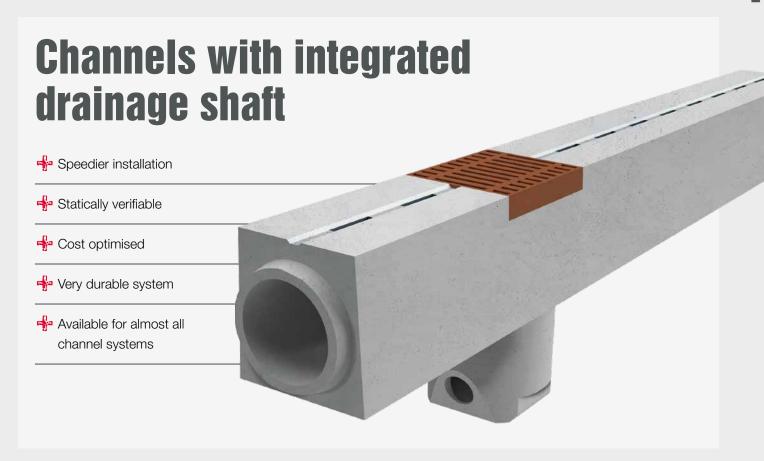
SR 40/60 OE 56x80					
Internal dimensions	Width	40 cm			
	Height	60 cm			
Outer dimensions	Top width	56 cm			
	Bottom width	60 cm			
	Height	80 cm			
Kerb	-				
Weight	2,580 kg (4 m)				
Load	D-400 F-900				
Slot width	3/5 cm				
Fitted lengths	1.00 - 3.99 m				









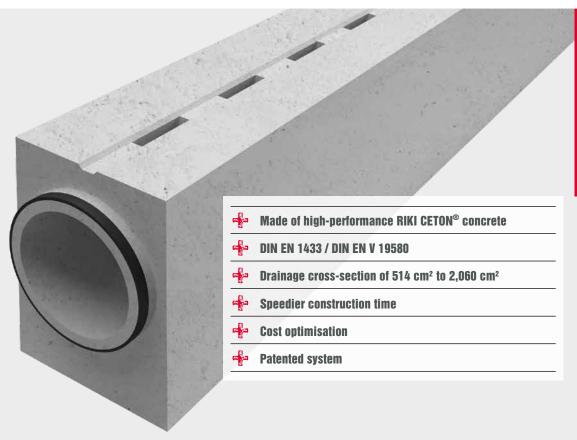


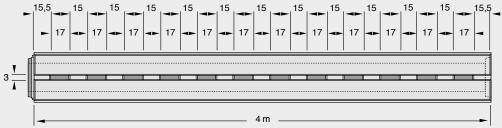


RIKI CETON® slotted channels with integr. foundation FOR ROADS AND INDUSTRIAL AREAS

Channel type	Page	Drainage	Internal gradient	Surface	with
		cross-section in cm²	without with	top slope level to slot	foun- dation
		•			
SR 20/30 OE 32x56 FU	24	514	•	•	•
SR 20/40 OE 32x60 FU	24	714		•	•
SR 30 GS 40x60 IFU	24	706	•	•	•
SR 30 GS 40x60 IG IFU	25	706-514		•	•
SR 30 OE 40x60 IFU	25	706	•	•	•
SR 30 OE 40x60 IG IFU	25	706-514	•	•	•
SR 30 GS 45x65 IFU	26	706	•	•	•
SR 34 OE 80x70 IFU	26	907	•	•	•
SR 30/40 GS 45x70 IFU	26	1006	•	•	•
SR 30/55 GS 45x85 IFU	26	1456	•	•	•
SR 40/50 OE 56x80 IFU	27	1660	•	•	•
SR 40/60 OE 56x90 IFU	27	2060	•	•	•
	1				1.
		A POINT		THE PERSON NAMED IN	



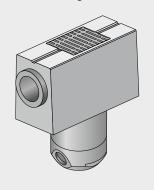




Our special design with an uninterrupted slot is available on request.

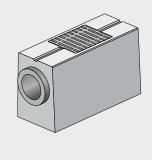
DRAINAGE SHAFT

Construction length: 1.00 m

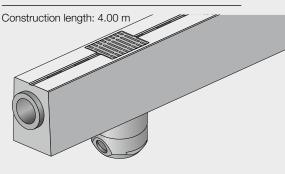


CLEANING CHANNEL

Construction length: 1.00 m



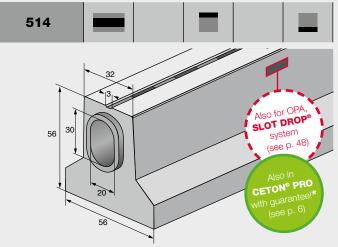
CHANNEL WITH INTEGRATED DRAINAGE SHAFT



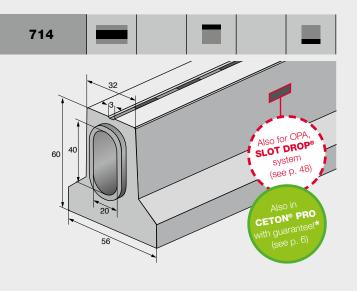


Drainage cross-section in cm²	Internal of without	gradient with	Sur top level	face slope to slot	with founda- tion
•					

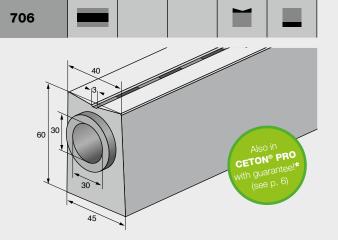
SR 20/30 OE	32x56 FU	
Internal dimensions	Width	20 cm
internal dimensions	Height	30 cm
Outer dimensions	Top width	32 cm
	Bottom width	56 cm
	Height	56 cm
Weight	1,685 kg (4 m)	
Load	D-400 F-900	
Slot width	3/5 cm	
Fitted lengths	1.00 - 3.99 m	



SR 20/40 OE	32x60 FU	
Internal dimensions	Width	20 cm
	Height	40 cm
Outer dimensions	Top width	32 cm
	Bottom width	56 cm
	Height	60 cm
Weight	1,690 kg (4 m)	
Load	D-400 F-900	
Slot width	3/5 cm	
Fitted lengths	1.00 - 3.99 m	



SR 30 GS 40	x60 IFU	
Internal dimensions	Width	30 cm
	Height	30 cm
Outer dimensions	Top width	40 cm
	Bottom width	45 cm
	Height	60 cm
Weight	1,825 kg (4 m)	
Load	D-400 F-900	
Slot width	3/5 cm	
Fitted lengths	1.00 - 3.99 m	







			Drainage	Internal gradient	Sur	face	with
			cross-section in cm ²	without with	top level	slope to slot	founda- tion
SR 30 GS 40	0x60 IG IFU		706-514				i
	Width	30 cm					
Internal dimensions	Height	30 cm	_	40			
	Top width	40 cm	-	131			
Outer dimensions	Bottom width	45 cm	-				
	Height	60 cm	_ 60 30				
Weight	1,880 kg (4 m)		_			Als	o in
Load	D-400 F-900		_				N® PRO larantee!*
Slot width	3/5 cm			30		with 90 (se	e p. 6)
Fitted lengths	1.00 - 3.99 m		_				

SR 30 OE 40	x60 IFU		706		
Internal dimensions	Width	30 cm			
internal dimensions	Height	30 cm		40	
	Top width	40 cm		3	
Outer dimensions	Bottom width	45 cm			
	Height	60 cm	60 30		
Weight	1,825 kg (4 m)				Also in
Load	D-400 F-900				CETON® PF with guarante
Slot width	3/5 cm		30		with guarding (see p. 6)
Fitted lengths	1.00 - 3.99 m		_ 4		

SR 30 OE 40	x60 IG IFU		706-514	
Internal dimensions	Width	30 cm		
Internal dimensions	Height	30 cm		40
	Top width	40 cm		3,
Outer dimensions	Bottom width	45 cm		
	Height	60 cm	60 30	
Weight	1,900 kg (4 m)			Also in
Load	D-400 F-900			CETON® PRO
Slot width	3/5 cm		_ 30	with guarding (see p. 6)
Fitted lengths	1.00 - 3.99 m			45





SR 30 GS 45x65 IFU					
Internal dimensions	Width	30 cm			
internal dimensions	Height	30 cm			
	Top width	45 cm			
Outer dimensions	Bottom width	50 cm			
	Height	65 cm			
Weight	2,360 kg (4 m)				
Load	D-400 F-900				
Slot width	3/5 cm				
Fitted lengths	1.00 - 3.99 m				

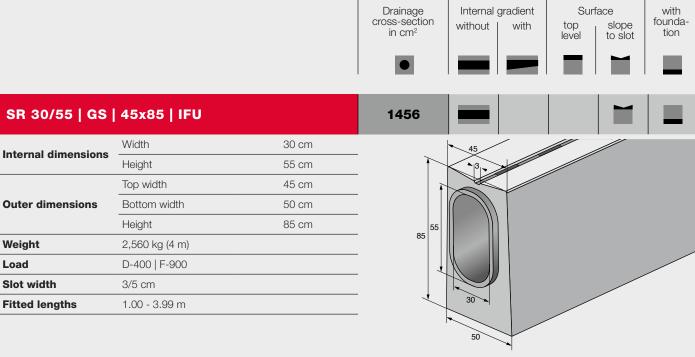


	Width	34 cm		_ _	
Internal dimensions	Height	34 cm	80		
	Top width	80 cm	A 31_		
Outer dimensions	Bottom width	80 cm			
	Height	70 cm	70 34		
Weight	4,690 kg (4 m)	Special features:	70 34		
Load	D-400 F-900	Surface with			
Slot width	3/5 cm	longitudinal broom finish	34		
Fitted lengths	1.00 - 3.99 m	External walls	34 7		
		vertical with no conicity	80	90°	

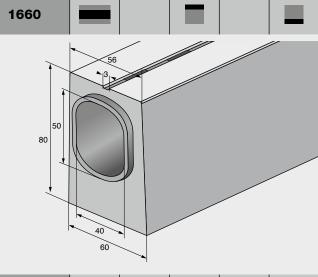
SR 30/40 GS	45x70 IFU		1006
lutamal dimanaiana	Width	30 cm	
nternal dimensions	Height	40 cm	45
	Top width	45 cm	3
Outer dimensions	Bottom width	50 cm	
	Height	70 cm	40
Weight	2,305 kg (4 m)		70
Load	D-400 F-900		Also in
Slot width	3/5 cm		CETON® PR
Fitted lengths	1.00 - 3.99 m		with gual and (see p. 6)



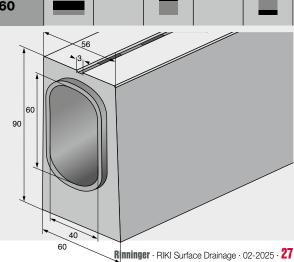




SR 40/50 OE	56x80 IFU	
Internal dimensions	Width	40 cm
internal dimensions	Height	50 cm
	Top width	56 cm
Outer dimensions	Bottom width	60 cm
	Height	80 cm
Weight	2,970 kg (4 m)	
Load	D-400 F-900	
Slot width	3/5 cm	
Fitted lengths	1.00 - 3.99 m	



SR 40/60 OE	56x90 IFU		2060
Internal dimensions	Width	40 cm	
internal dimensions	Height	60 cm	
	Top width	56 cm	
Outer dimensions	Bottom width	60 cm	
	Height	90 cm	90 60
Weight	3,160 kg (4 m)		30
Load	D-400 F-900		
Slot width	3/5 cm		
Fitted lengths	1.00 - 3.99 m		





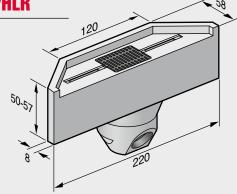
Basins RIKI SLOTTED CHANNEL BASINS **DBP PATENT NO. 100 28 977 Baffle shafts**

Trapezoidal basin · H/HL/HR/HLR

With kerb · H 7

Options:

- · Without lowering
- · Lowering left
- · Lowering right
- · Lowering on both sides



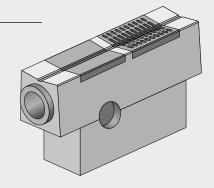
Inner diameter	ø 30 cm
Width	58 cm
Height	57 cm
Construction length	2.20 m
Kerb height	7 cm
Weight/piece	approx. 1,100 kg

Normal baffle shaft

With slope to slot Without internal gradient

Optional:

 With kerb 3 / 7 / 12 / 15 cm



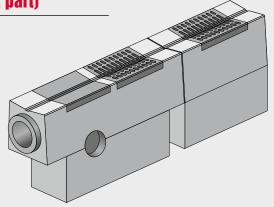
	SR 30	SR 30/40
Inner diameter	ø 30 cm	30 x 40 cm
Top width	40 cm	40 cm
Bottom width	45 cm	45 cm
Height	95 cm	105 cm
Construction length	1.5 m	1.5 m
Weight/piece	approx. 750 kg	approx. 850 kg

Baffle shaft with upstream sludge trap (2 part)

With slope to slot Without internal gradient

Optional:

 With kerb 3 / 7 / 12 / 15 cm



	SR 30	SR 30/40
Inner diameter	ø 30 cm	30 x 40 cm
Top width	40 cm	40 cm
Bottom width	45 cm	45 cm
Height	95 cm	105 cm
Construction length	2.5 m	2.5 m
Weight/piece	approx. 1,320 kg	approx. 1,450 kg



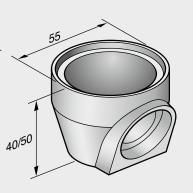


Accessories

FOR DRAINAGE SHAFT

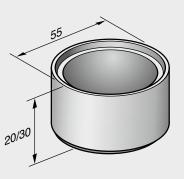
Base

For PVC KG connection DN 150 / 200 / 300

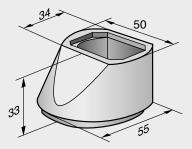




Intermediate part



Cone



Bucket





RIKI CETON® SMART slotted channels

FOR SFH SYSTEMS | Approval: DIBT No. Z-74.4-83 / Z-74.4-178

15				11 1			. · · · · · · · · · · · · · · · · · · ·	
7	Channel type	Page	Drainage cross-section in cm²	Internal without	gradient with	Sur top level	face slope to slot	
			•					
	SR-SMART 20 OE 40x40	32	314	•	OFFICE RATE	•		
	SR-SMART 20/30 OE 40x50	32	514	•	27.000000	· ANAMASIA	AMES	
6	SR-SMART 20/30 OE 40x50 IG	32	514-314	Leave Street			D/VOELCE	
	SR-SMART 30 OE 50x52	33	706					
	SR-SMART 30 FH OE 50x52	33	706		4 - 8			DAMES.
	SR-SMART 34 OE 80x58	33	907	•		- A-24	No constitution of	
	SR-SMART 30/40 OE 50x60	34	1006				2 - 110	W. Pa
	SR-SMART 30/40 OE 50x60 IG	34	1006-706		•	•		
	SR-SMART 50/80 OE 74x110	37	5185	•	-	•		

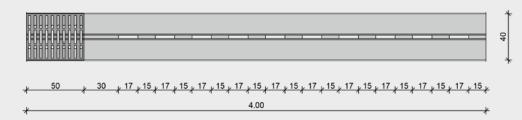
THE SAFE DRAINAGE SOLUTION FOR HANDLING HAZARDOUS SUBSTANCES

High demands are made of drainage systems, both as systems for the storage, filling and handling of water-polluting substances (SFH systems) and for drainage of highly aggressive and less aggressive liquids in environmentally sensitive areas.

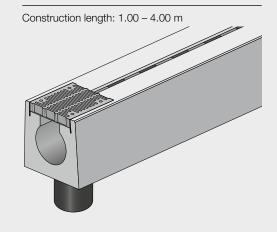
Building approvals Z-74.4-81 of 16.06.2020, Z-74.4-83 of 28.09.2020 and Z-74.4-178 of 24.09.2020 mean that our RIKI drainage systems meet the strict requirements and conditions of the Deutsches Institut für Bautechnik (DIBT), the German technical authority in the construction sector, and can therefore also be used in areas with water-polluting substances.



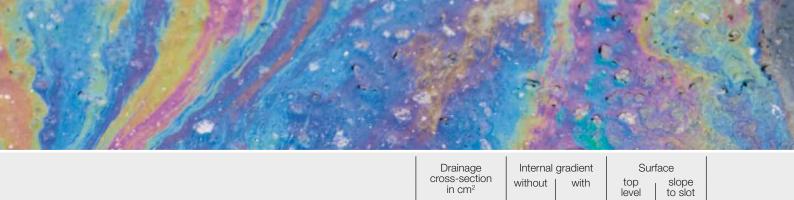




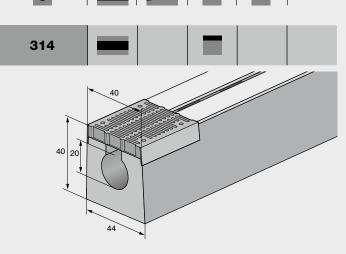
CHANNEL WITH INTEGRATED DRAINAGE SHAFT



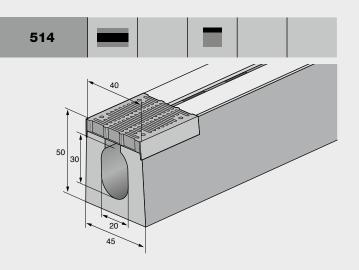
- Speedier installation
- Statically verifiable
- Cost optimised
- Very durable system
- Available for almost all channel systems



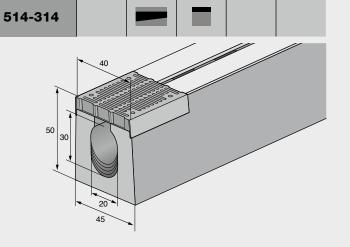
		ı				
SR-SMART 20 OE 40x40						
Internal dimensions	Width	20 cm				
internal dimensions	Height	20 cm				
	Top width	40 cm				
Outer dimensions	Bottom width	44 cm				
	Height	40 cm				
Weight	1,320 kg (4 m)					
Load	F-900					
Slot width	3/5 cm					
Fitted lengths	1.00 - 3.99 m					



SR-SMART 20/30 OE 40x50						
Internal dimensions	Width	20 cm				
internal uniterisions	Height	30 cm				
	Top width	40 cm				
Outer dimensions	Bottom width	45 cm				
	Height	50 cm				
Weight	1,585 kg (4 m)					
Load	F-900					
Slot width	3/5 cm					
Fitted lengths	1.00 - 3.99 m					

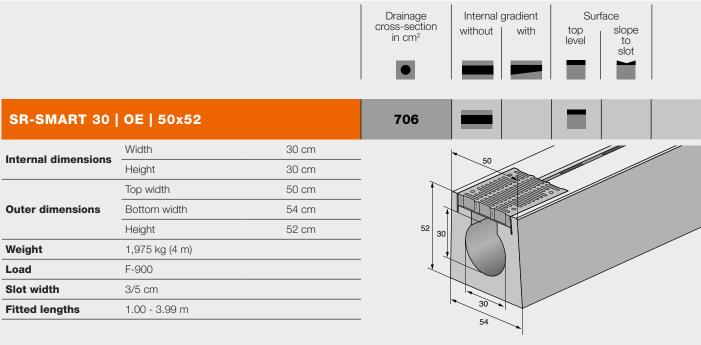


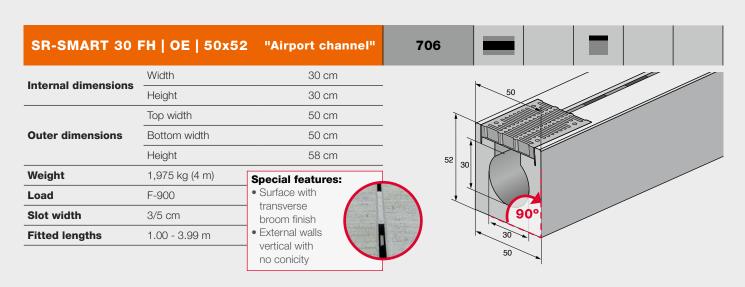
SR-SMART 20/30 OE 40x50 IG						
Internal dimensions	Width	20 cm				
	Height	30 cm				
Outer dimensions	Top width	40 cm				
	Bottom width	45 cm				
	Height	50 cm				
Weight	1,660 kg (4 m)					
Load	F-900					
Slot width	3/5 cm					
Fitted lengths	1.00 - 3.99 m					









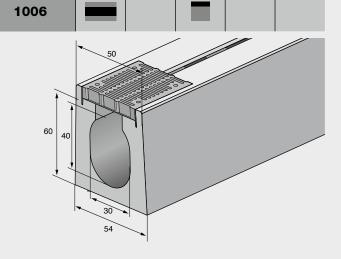


SR-SMART 34	OE 80x58	"Airport channel"	907			-
l	Width	34 cm				
Internal dimensions	Height	34 cm	•	8		
	Top width	80 cm				
Outer dimensions	Bottom width	80 cm				
	Height	58 cm		58		
Weight	3,680 kg (4 m)	Special features:		34		
Load	F-900	Surface with longitudinal broom finish				
Slot width	3/5 cm				34	
Fitted lengths	1.00 - 3.99 m	External walls			900	
		vertical with no conicity		8	0	

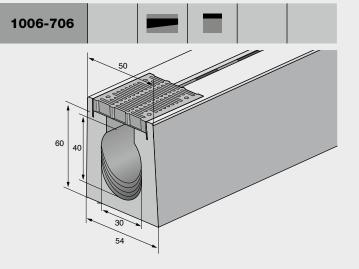


Drainage	Internal	gradient	Surface			
cross-section in cm ²	without	with	top level	slope to slot		

SR-SMART 30/40 OE 50x60						
Internal dimensions	Width	30 cm				
	Height	40 cm				
Outer dimensions	Top width	50 cm				
	Bottom width	54 cm				
	Height	60 cm				
Weight	2,085 kg (4 m)					
Load	F-900					
Slot width	3/5 cm					
Fitted lengths	1.00 - 3.99 m					

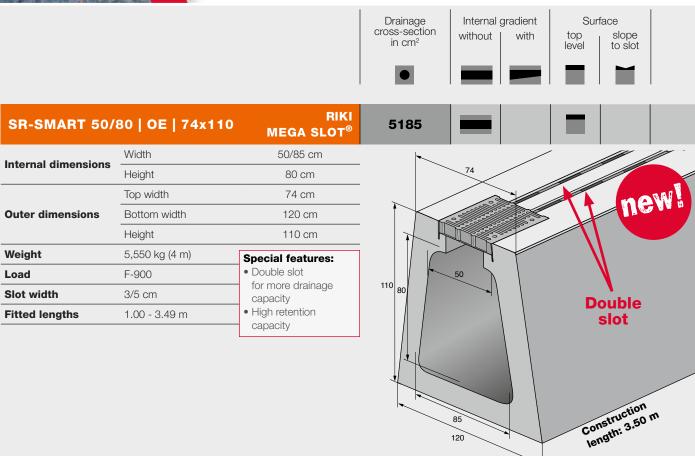


SR-SMART 30/40 OE 50x60 IG						
Internal dimensions	Width	30 cm				
	Height	40 cm				
Outer dimensions	Top width	50 cm				
	Bottom width	54 cm				
	Height	60 cm				
Weight	2,160 kg (4 m)					
Load	F-900					
Slot width	3/5 cm					
Fitted lengths	1.00 - 3.99 m					









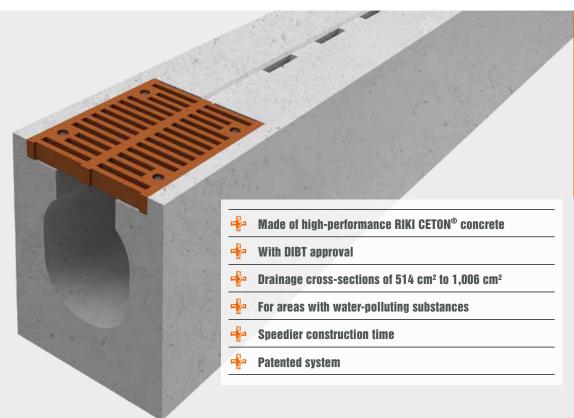
RIKI CETON® SMART slotted channels with integrated foundation

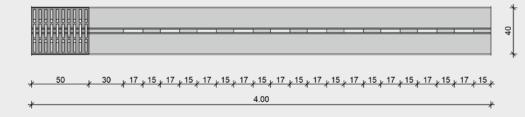
FOR SFH SYSTEMS | Approval: DIBT No. Z-74.4-81

								-	ul(m)
	Channel type	Page	Drainage cross-section in cm ²	Internal gr without	radient with	Sur top level	face slope to slot	with foun- dation	
			•						
	SR-SMART 20/30 OE 40x60 IFU	38	514	•	Photo Inches	•		•	
	SR-SMART 20/30 OE 40x60 IG IFU	38	514-314		•	•		•	
	SR-SMART 30 GS 50x70 FU	38	706	•		200	•	•	
	SR-SMART 30 OE 50x70 IFU	39	706	• 3		•		•	
ME	SR-SMART 34 OE 80x70 IFU	39	907	•		•		•	
	SR-SMART 30/40 OE 50x70 IFU	39	1006	•	7 7			•	
	SR-SMART 30/40 OE 50x70 IG IFU	40	1006-706		•	•		•	一九
	SR-SMART 30/40 GS 50x70 FU	40	1006	•			•	•	
	SR-SMART 30/40 GS 50x70 IG FU	40	1006-706		•		•	•	
			Section			*		W.	
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THE PERSON NAMED IN			100		-		**	STATE OF THE PARTY.	
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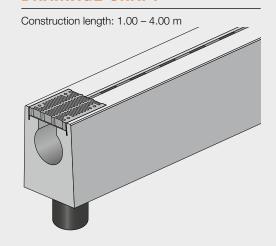




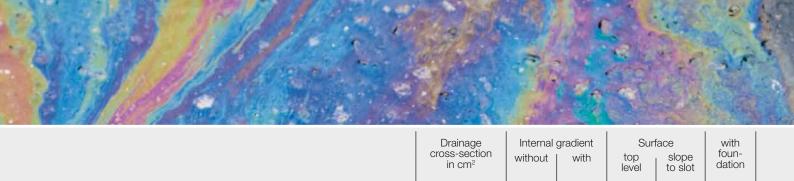




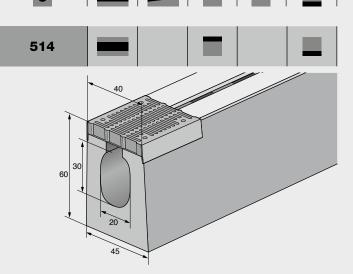
CHANNEL WITH INTEGRATED DRAINAGE SHAFT



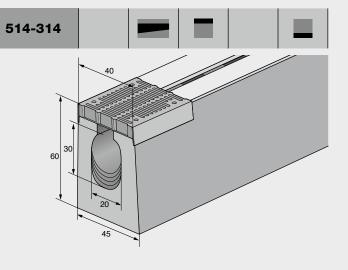
- Speedier installation
- Statically verifiable
- Cost optimised
- Very durable system
- Available for almost all channel systems



SR-SMART 20/30 OE 40x60 IFU				
Internal dimensions	Width	20 cm		
internal dimensions	Height	30 cm		
Outer dimensions	Top width	40 cm		
	Bottom width	45 cm		
	Height	60 cm		
Weight	2,010 kg (4 m)			
Load	F-900			
Slot width	3/5 cm			
Fitted lengths	1.00 - 3.99 m			



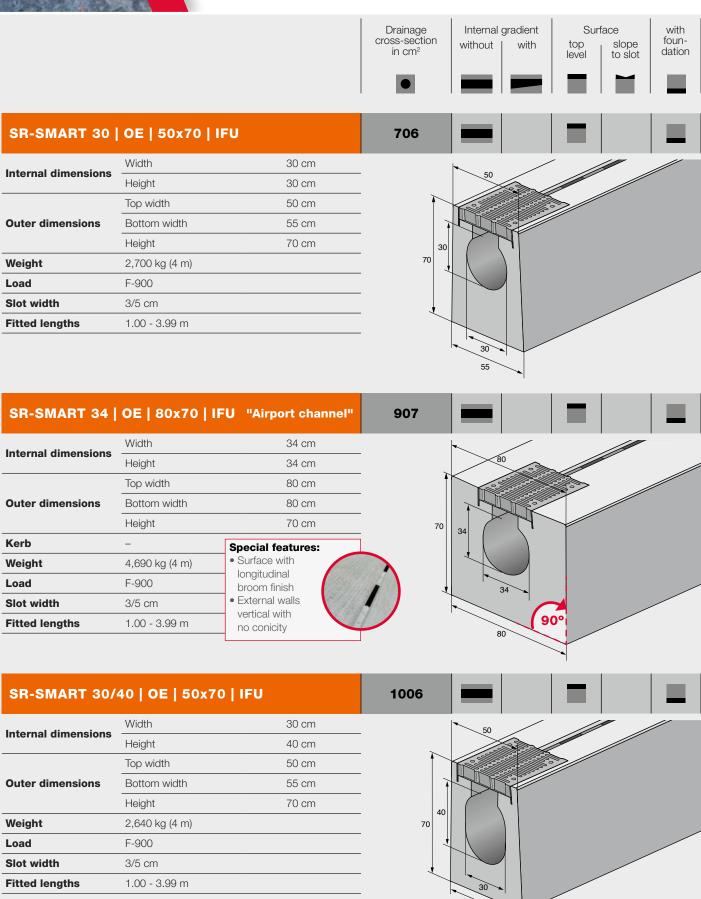
SR-SMART 20/30 OE 40x60 IG IFU				
Internal dimensions	Width	20 cm		
	Height	30 cm		
Outer dimensions	Top width	40 cm		
	Bottom width	45 cm		
	Height	60 cm		
Weight	2,085 kg (4 m)			
Load	F-900			
Slot width	3/5 cm			
Fitted lengths	1.00 - 3.99 m			

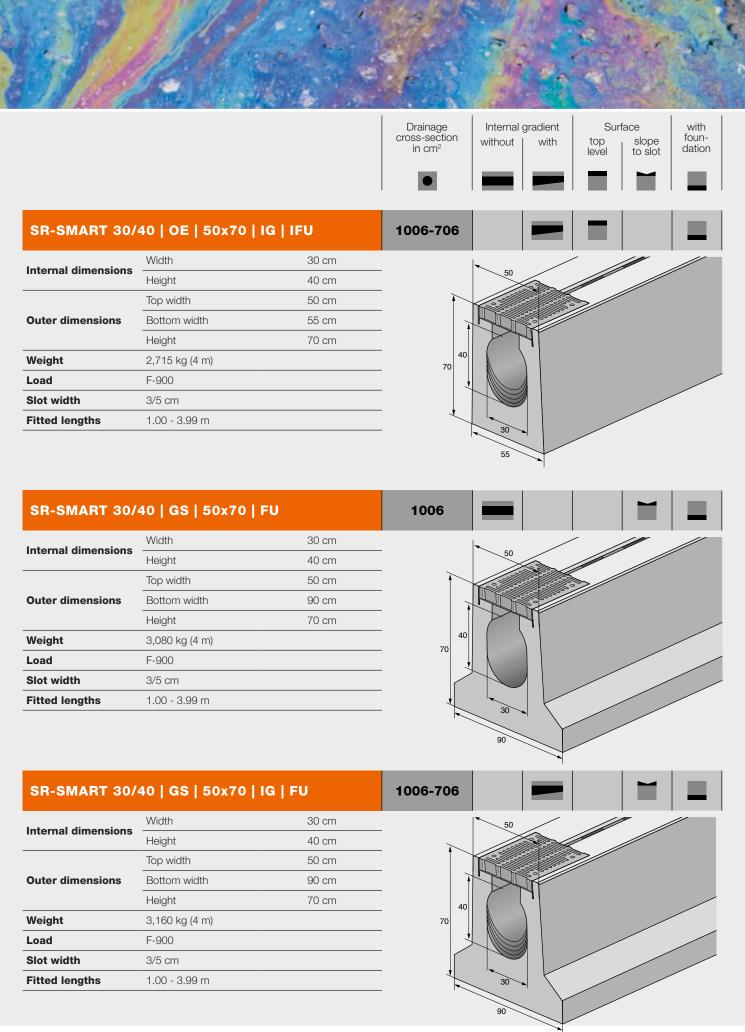


SR-SMART 30	GS 50x70 Fl	J	706			
Internal dimensions	Width	30 cm		50		
internal dimensions	Height	30 cm	<u></u>			
	Top width	50 cm				
Outer dimensions	Bottom width	90 cm				
	Height	70 cm	70			
Weight	3,380 kg (4 m)		70	! \		
Load	F-900				1	
Slot width	3/5 cm			30		
Fitted lengths	1.00 - 3.99 m		1			
			'		\	













LIST OF LIQUIDS

List of liquids against which prefabricated components of the channel system are impermeable and chemically resistant during use

- in systems for the **s**torage, **filling** and **h**andling (SFH systems) of water-polluting substances for:
 - · load level "medium" during storage and
 - · load level "medium" during filling and handling

pursuant to the Technical Rule for Substances Harmful to Water TRwS 7863 "Implementation of sealed surfaces" and

• in filling areas pursuant to the Technical Rules for Substances Harmful to Water TRwS 781 "Fuel stations for motor vehicles" and TRwS 782 "Loading of rail vehicles" and filling and handling areas pursuant to TRwS 784 "Fuelling of aircraft".

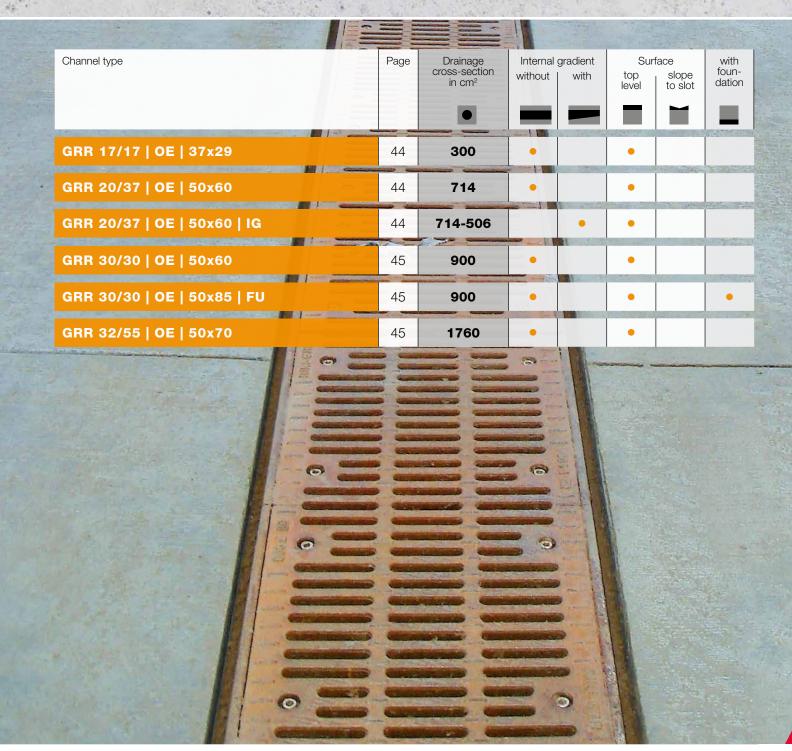
Designation	Liquids
1	Petrol fuels pursuant to DIN EN 228-10 with a maximum (bio) ethanol content with a percentage by volume of 5 vol% pursuant to DIN EN 15376
1a	Petrol fuels pursuant to DIN EN 228 with added biofuel components pursuant to RL 2009/28/EC up to a total content with a percentage by volume of max. 20 vol%
2	Aviation fuels
3	 EL heating oil pursuant to DIN 51603-1 Unused combustion engine oils Unused motor vehicle transmission oils Mixture of saturated and aromatic hydrocarbons with an aromatic content ≤ 20 %mass. and a flash point > 60°C
3b	Diesel fuels pursuant to DIN EN 590 with added biodiesel pursuant to DIN EN 14214 up to a total content with a percentage by volume of max. 20 vol%
4a	Aliphatic and cycloaliphatic hydrocarbons
4c	Used combustion engine oils and used motor vehicle transmission oils with a flash point > 60°C
7a	 Fatty acid methyl esters (FAME) pursuant to DIN EN 14214 Vegetable oil fuel – rapeseed oil pursuant to DIN 51605 and vegetable oil fuel pursuant to DIN 51623
-	80% aqueous glycol solution
-	20% aqueous sodium chloride solution
and	Liquids that do not attack concrete and whose surface tension and dynamic viscosity fulfil the following equation: $\sqrt{(\sigma/\eta)} \le 7.20 \; (e_{144,k} \le 12 \; \text{mm})$ with: σ = surface tension at 20°C in mN/m · η = dynamic viscosity at 20°C in mN*s/m²



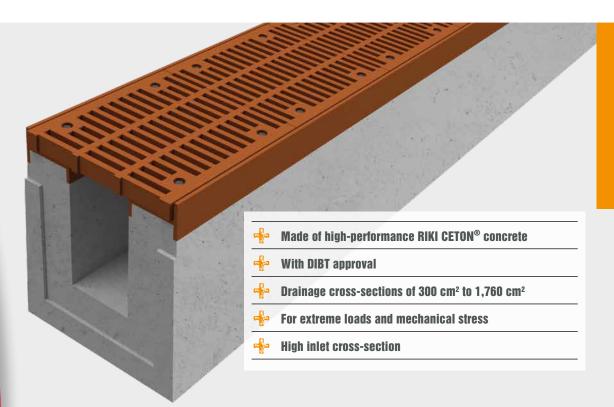
RIKI CETON® cast iron channels

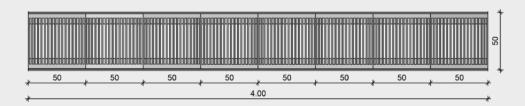
FOR AREAS WITH EXTREME LOADS,

FOR SFH SYSTEMS | Approval: DIBT No. Z-74.4-81

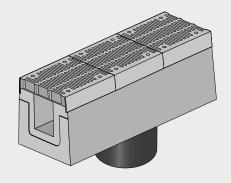








DRAINAGE SHAFT





		AND THE PERSON OF THE PERSON O		SARR MINE		
			Drainage cross-section in cm ²	Internal gradient without with	Surface top slope level to slot	with foun- dation
GRR 17/17 OF	≣ 37x29		300			
Internal dimensions	Width	17 cm	_			
internal dimensions	Height	17 cm		37		
	Top width	37 cm	_			
Outer dimensions	Bottom width	37 cm	_			
	Height	29 cm				
Weight	2,024 kg (4 m)		_			
Load	F-900		_			
Fitted lengths	1.00 - 3.50 m in 0.5 m	stages		37		
			_			

Internal dimensions Width Height Top width Outer dimensions Bottom wid	20 cm 37 cm			<i></i>
Height Top width	37 cm		1	
			50	
Outer dimensions Bottom wid	50 cm			
Dottom wic	Ith 54 cm	<u> </u>		
Height	60 cm			
Weight 2,210 kg (4	- m)	60	37	
Load F-900				
Fitted lengths 1.00 - 3.50	m in 0.5 m stages		1 121	

	Width	20 cm			
Internal dimensions	Height	37 cm	_	50	
	Top width	50 cm	_		
Outer dimensions	Bottom width	54 cm	_		
	Height	60 cm			
Weight	2,240 kg (4 m)			37	
Load	F-900				
Fitted lengths	1.00 - 3.50 m in 0.5 m stages				



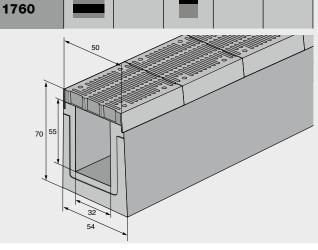


			Drainage cross-section in cm ²	Internal gradient without with	with foun- o slot dation
GRR 30/30 OI	≣ 50x60		900		
	Width	30 cm			
Internal dimensions	Height	30 cm	<u> </u>	50	
	Top width	50 cm			
Outer dimensions	Bottom width	54 cm	_		
	Height	60 cm	_ }		
Weight	2,025 kg (4 m)		60 30		
Load	F-900		_		
Fitted lengths	1.00 - 3.50 m in 0.5 m stages		_ ,		
			_	30 54	

GRR 30/30 OE 50x85 FU				
Internal dimensions	Width	30 cm		
internal dimensions	Height	30 cm		
	Top width	50 cm		
Outer dimensions	Bottom width	90 cm		
	Height	85 cm		
Weight	4,550 kg (4 m)			
Load	F-900			
Fitted lengths	1.00 - 3.50 m in 0.5 m stages			

900			
85	50		

GRR 32/55 OE 50x70				
Internal dimensions	Width	32 cm		
internal dimensions	Height	55 cm		
	Top width	50 cm		
Outer dimensions	Bottom width	54 cm		
	Height	70 cm		
Weight	1,710 kg (4 m)			
Load	F-900			
Fitted lengths	1.00 - 3.50 m in 0.5 m stages			



RIKI trough channels

FOR TRAFFIC AREAS WITH
WATER FLOW FLUSH WITH THE SURFACE



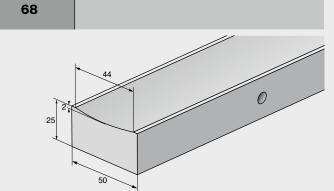


Drainage cross-section in cm²

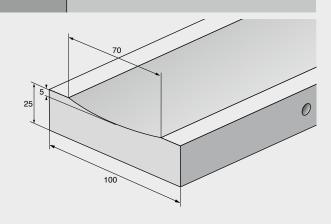


232

MR 50				
	Top/bottom width	50 cm		
Outer dimensions	Trough width	44 cm		
	Height	25 cm		
Weight	1,185 kg (4 m)			
Load	LM1 pursuant to EC2			
Fitted lengths	1.00 - 3.99 m			



MR 100		
	Top/bottom width	100 cm
Outer dimensions	Trough width	70 cm
	Height	25 cm
Weight	2,270 kg (4 m)	
Load	LM1 pursuant to EC2	
Fitted lengths	1.00 - 3.99 m	

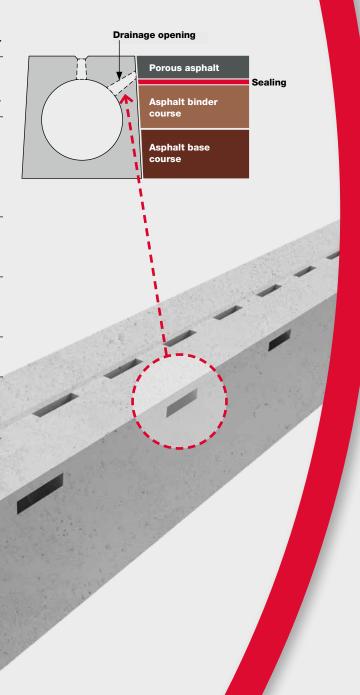


RIKI SLOT DROP® system

OUR PERFECT SOLUTION FOR OPEN-PORED ASPHALT (OPA)

- Special design for RIKI slotted channels with or without a kerb for carriageways with open-pored asphalt (OPA).
- 📥 Rapid and safe drainage of rainwater through slots on the surface and, additionally, inlet openings on the side.
- Large inlet cross-section (3.5 x 16 cm) for maximum drainage of surface and seepage water:
 - · 75 cm²/m for single-sided design
 - · 150 cm²/m for double-sided design
- Hydraulically optimised inflow angle in the area of the OPA layer.
- 📥 High frost and de-icing salt resistance also in the vicinity of the side openings.

Compatible with the RIKI slotted channel system.





OPTIONAL - FOR ALL SLOTTED CHANNELS

Surface design

Sandblasted | Broom finish: Increased slip resistance up to R13 through surface treatment





Pie insert: Flexible design of the surfaces through use of dies





Coloured concrete: Customised solutions through the use of coloured concrete





OPTIONAL - FOR ALL SLOTTED CHANNELS

Slot and edge protection

Slot and edge protection for increased loads (e.g. due to forklifts). Available in galvanised steel or stainless steel.







RIKI special channels

OUR FLEXIBLE SOLUTIONS FOR SPECIAL APPLICATIONS

If our diverse range of channels does not include the right solution for your project, there's no need to worry.

That's because our specialists will work with you and everyone else involved in the project to develop a customised solution.

Our many years of experience in the area of drainage enables us to meet your special requirements in almost every case.

Box channel, 2-part

- Large drain cross-section
- Special formats possible
- Subsequent inspections possible



V-channel

- Mainly used in airport construction (e.g. for snow depots, peripheral areas of runways)
- 📥 Major run-in capacity
- 🏲 Easy to clean







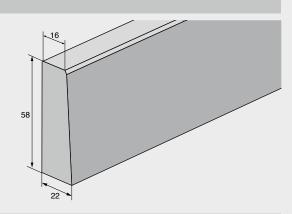
Tunnel kerb

- System component aligned with RIKI channels
- Single-source planning for all components
- Made of high-performance RIKI CETON® concrete
- ♣ Variable height and length

new!

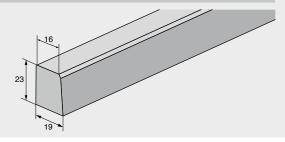
Tunnel kerb type 1

	Top width	16 cm	
Outer dimensions	Bottom width	22 cm	
	Height	58 cm	
Weight	1,140 kg (4 m)		
Fitted lengths	1.00 - 3.99 m		



Tunnel kerb type 2

	Top width	16 cm
Outer dimensions	Bottom width	19 cm
	Height	23 cm
Weight	210 kg (1.98 m)	
Fitted lengths	1.00 - 1.97 m	





Roads & motorways





RIKI slotted channels ensure optimum linear drainage of the carriageway. The risk of aquaplaning is thus minimised as far as possible. High frost and de-icing salt resistance ensures the durability of the slotted channels.

BAB A6 Wiesloch – Weinsberg

12,000 m

- RIKI CETON® PRO SR 20/30, partially SLOT DROP® version
- RIKI CETON® PRO SR 30 H7
- RIKI CETON®PRO SR 30/40, SLOT DROP® version

BAB A7 Göttingen – Hanover

7,000 m

- RIKI CETON® SR 20/30
- RIKI CETON® PRO SR 30

BAB A96 Oberpfaffenhofen – Germering

2,000 m | 6-lane expansion

- RIKI CETON® SR 30/40 FU, partially SLOT DROP® version
- RIKI CETON® SR 30 H7

BAB A3 Leverkusen

1,500 m | 8-lane expansion

• RIKI CETON® SR 20/30

BAB A9 Coswig RF Berlin

• RIKI CETON® SR 30 H7 with and without internal gradient, 2,500

BAB A72 Böhlen

• RIKI CETON® PRO SR 30 H7, 6,000 m

BAB A7 AS Kitzingen – AS Rothenburg

• RIKI CETON® PRO SR 30/40, 6,500 m

B – Liege, E25 urban motorway

- RIKI CETON® SR 30 50x52, 3,000 m
- RIKI CETON® SR 30 50x52 H12, 1,000 m





Airports -





RIKI slotted channels meet all drainage criteria pursuant to the information sheet concerning airport drainage. These drainage systems for SFH facilities ensure that hazardous substances in the vicinity of de-icing or refuelling facilities are drained away in accordance with applicable regulations.

Munich, Franz-Josef-Strauss Airport

Implementation for diverse aprons and terminals

- Special V-channel, 1,000 m
- Special channel, Munich Airport, RIKI CETON® SMART SR 34 with integrated foundation, 3,000 m

📥 Hamburg Airport

Apron renewal

• RIKI CETON® SMART SR 30/40 with integrated foundation, 3,600 m

BE Brussels Airport, Zaventem

Runway refurbishment

• RIKI CETON® SMART SR 30 with integrated foundation, 7.000 m

📥 🛮 Athens / Düsseldorf / Frankfurt / Hanover / Wunstorf / ... **Various military airfields**

Largely designed using individual special solutions, with/without integrated foundation, various drainage cross-sections, with/without German Water Resources Act (WHG) approval

NATO Airport Wittmund

Runway refurbishment

- RIKI CETON® SR 30 IFU, 900 m
- RIKI CETON® SMART SR 30 IFU, 11,000 m

Frankfurt Fraport

Ramp 9 + 12 reconstruction

- RIKI CETON® SMART SR 30 FH 50x52, 700 m
- RIKI CETON® SR 20, 2,100 m



Industrial areas -







On the one hand, RIKI slotted channels meet the requirements for extreme loads in situations in which industrial forklifts are used, for example. However, with the issuing of building approval for SFH systems, they also provide optimum groundwater protection for the drainage of waterpolluting substances such as acids, lyes and alkaline solutions, oils and fuels.

Liebherr company, Ehingen

- Special GRR 20/37 channel with internal gradient and integrated foundation (extreme load due to tracked vehicles), 250 m
- RIKI CETON® SR 20 with full-surface stainless steel plating for extreme mechanical loads, approx. 1,000m > see image below on left

Liebherr company, Dettingen

- Special RIKI CETON® SR 30/55 channel with integrated foundation, 150 m line length without drainage, conveying channel with large drainage cross-section
- Special GRR 32/55 channel, 150 m line length without drainage, conveying channel with large drainage cross-section

WDI company, Hamm

• RIKI CETON® SR 20/30, 400 m

Bima Materialdepot company, Zeithain

• RIKI CETON® SR 20/30 reach stacker with slot protection

NL-Steunpunten (salt store)

• RIKI CETON® SMART SR 20 Den Bosch 220 m, Zevenaar 230 m, Staphorst 120 m





Inland ports & seaports ==







RIKI slotted channels offer high safety assurance levels when installed in traffic areas subject to extremely high loads. Special solutions for larger forklifts (e.g. reach stackers) ensure reliable and enduring drainage in this manner.

Rostock, Overseas Port

• RIKI CETON® SR 20/30 with integrated foundation, 2,000 m

Cuxhaven, Elbhafen Grodener Wettern port

• RIKI CETON® SR 20/30 reach stacker, 800 m

Saarlouis-Dillingen, Saarhafen Am Südkai port

• RIKI CETON® SR 30, 650 m

🐈 Riesa, Binnenhafen Döllnitz inland port

• RIKI CETON® SR 30 reach stacker, 100 m

Mukran, ferry port

• RIKI CETON® SR 30, 200 m

📥 🛮 Kiel, Ostuferhafen port

• RIKI CETON® SR 20, 180 m

Aken. Elbhafen port

• RIKI CETON® SR 30, 1,000 m

Regensburg Bayernhafen port

- RIKI CETON® SR 20/30 OE FU for reach stackers, 300 m
- RIKI CETON® SR 20/30 OE IG, 250 m

Straubing KV-Terminal combined transport terminal

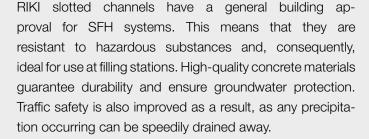
• RIKI CETON® SR 30 50x70 FU, 700 m



Filling stations







- Visselhövede, Hoyer Tankanlage filling station
 - RIKI CETON® SMART SR 20, 200 m
- Fulda Nord, Autohof service station
 - RIKI CETON® SMART SR 30, 220 m
- BAB A5 Bühl, filling and service station
 - RIKI CETON® SMART SR 30, 1,000 m
- Nattheim, Total-Tankstelle filling station • RIKI CETON® SMART SR 30, 100 m
- Various smaller filling stations (petrol stations): Berlin, Dresden, Fulda, Karlsruhe, Kempten, Landau, Stuttgart, Wolfsburg,







Logistics areas







RIKI slotted channels with a level surface ensure optimum accessibility for vehicles. This is particularly helpful in the case of forklift trucks transporting heavy loads.

Bremen, Koblenz, Lohfelden, Neumünster, Öhringen, etc. **Dachser Spedition freight-forwarding company**

- RIKI CETON® SR 30, 500 m
- RIKI CETON® SR 30 with internal gradient, 1,000 m
- RIKI CETON® SR 30/40, 500 m
- Special components

Kamen, Logistikpark Fa. Gleeds logistics park

• RIKI CETON® SR 20/30, 1,100 m

Achim / Gersthofen / Mönchengladbach, Amazon

- RIKI CETON® SR 20, 800 m
- RIKI CETON® SR 30, 800 m

🐈 Oranienburg, Rewe

- RIKI CETON® SR 20/30, 30 m
- RIKI CETON® SR 30 H 15, 300 m
- RIKI CETON® SR 30/40, 250 m

Rastatt, Logistikhalle Am Rotacker logistics warehouse

• RIKI CETON® SR 30, 900 m

Aschheim, Augsburg, Bochum, Bremen, Hanover, Leipzig, etc. **DHL** parcel centres

- RIKI CETON® SR 20, 600 m
- RIKI CETON® SR 20/30, 350 m
- RIKI CETON® SR 30, 850 m / 1,200 m / 650 m / 900 m
- \bullet RIKI CETON® SR 30 H15, 100 m / 250 m / 250 m



REFERENCES

Tunnels







RIKI slotted channels provide invaluable services in tunnels. Here, hazardous substances and flammable liquids are safely diverted and drained away with special baffle shafts.

Hessisch-Lichtenau, Tunnel Hirschhagen

• RIKI CETON®-PRO SR 30 H3, 7,000 m

🗫 Oberau, Garmisch-Partenkirchen, bypass tunnel

8,000 m

- RIKI CETON® SR 30/40 H3
- RIKI CETON® SR 30/45 H3
- Special channel RIKI CETON® SR 30/55 H3
- Channel with releasing mechanism for support manhole cover

Bremerhaven, harbour tunnel

2.000 m

- RIKI CETON® SR 30 H3
- RIKI CETON® SR 30/40 H3

🐕 🛮 Friedrichshafen-Waggershausen, bypass tunnel

• RIKI CETON® SR 30 H7, 1,000 m

Dinkelsbühl, Virngrund Tunnel BAB A7 motorway

• RIKI CETON® SR 30/40 IFU, 1,200 m

Vötting-Freising, bypass tunnel

• RIKI CETON® SR 30 H3, 1,000 m

Pforzheim, Arlinger Tunnel

• RIKI CETON® SR 30/40 H3, 1,000 m

📥 🛮 A44, Alberberg Tunnel

2,000 m

- RIKI CETON® SR 30
- RIKI CETON® PRO SR 30 H3

🐈 🛮 Hamburg-Altona, BAB A7 motorway

• RIKI CETON® SR 30/40 H3, 4,500 m





REFERENCES

Car parks P







RIKI slotted channels ensure dependable drainage of large areas for pedestrians and vehicles. In addition to providing a high degree of safety, slotted channels with monolithic moulded kerbs in these areas represent a sophisticated overall solution, both technically and in terms of their appearance.

Gersthofen, AMAZON

• RIKI CETON®-PRO SR 20, 600 m



Essen, Zollverein-Parkplatz BAB A2 motorway

• RIKI CETON® SR 30/40, 350 m



Essen, WRL car park

• RIKI CETON® SR 30, 300 m



Coburg, main car park of Kaeser company

• RIKI CETON® SR 30, 750 m



Regensburg, new ARENA car park construction

- RIKI CETON® SR 30, 200 m
- RIKI CETON® SR 30/40 H3, 150 m

FURTHER PRODUCTS FROM OUR CIVIL ENGINEERING RANGE

RIKI amphibian protection systems

Amphibian protection = species conservation

Migrating amphibians need to cross roads inmany places to reach their spawning grounds. Given the density of the road network in Central Europe, it is essential that migrating amphibians be protected on roads. New road construction projects, particularly for urban bypasses, frequently cut through amphibian habitats which, to date, had been free of such impediments. Equally, the increase in road traffic on formerly quiet routes often results in an increase in amphibians being run over by vehicles.

A permanent protective system not only ensures that amphibians have a safe route to their spawning grounds; it also protects young animals after they emerge and during migration, providing a good basis for a successful amphibian population strategy.

- Sturdy design
- Few individual elements
- A proven design
- Structurally verified
- 📥 Durable and resistant to rotting

Our amphibian protection products:

- Guide stones
- Stop channels and reversal elements
- Passage elements and tunnels for small animals
- Portals

We are a full-service provider with system expertise – a veritable one-stop shop!









www.rinninger.de under Downloads, or you can order our brochure via

email.

FURTHER PRODUCTS FROM OUR CIVIL ENGINEERING RANGE

RIKI rectangular profiles RIKI shaft structures

We know how it's done!

We know how it's done! When it comes to special concrete products, nobody can pull the wool over our eyes. On the contrary, we specialise in customised designs that meet customer requirements and can be manufactured with any desired geometry. Two aspects are particularly important for us in this respect.

Firstly, a perfect solution tailored to suit the customer and, secondly, consideration of the costs involved. That's because the design of our customised constructions with a high level of precision, as well as the accompanying guidance and advice, should remain cost effective, despite everything being made to order. We therefore ensure that installation times are kept short and installation costs remain predictable.

- Cost-effective sewer solutions for rainwater, wastewater and sewer overflows
- High drainage cross-sections
- Low installation depths
- Minimised covering
- Flexible size matrix
- Resistant to pressurised water; stable connection
- Simple and speedy installation

Application areas:

- Channels with minimised covering Bridge projects
- Sewer overflow Infrastructure ducts
- Ventilation ducts and much more.









Our comprehensive product brochure can be viewed on our website at www.rinninger.de under Downloads, or you can order our brochure via email.



Slotted channel order form

project		Channel type		Class	
		Channels	Channels with internal slope see page 2		
Offer number	Order number	Order date		Desired delivery date	

	Name	St	reet	Postcode	Town
Retailer					
Client/ Contractor					
Construction site address					
	Name	Telephone/mobile E-mail			
Site manager					
Polisher					
Remarks		Date		Signature	

Designation	Quantity/piece	Quantity/rm.		
Normal channel I=4,00 m				
Drainage shaft I=1,00 m				
Outlet PP DN				
Outlet PE HD DA				
Cleaning channel I=1,00 mtr.				
Fitting channel Please specify length	1.			
Please specify length	2.			
	3.			
	4.			
	5.			
	6.			
End plate pointed				
End plate sleeve				

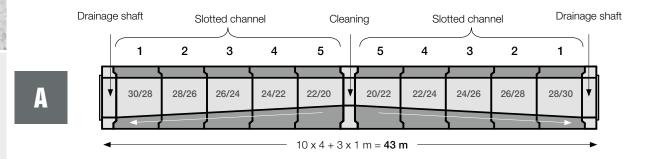
Designation	Qua	antity/piece	
		DN 150	
Floor part Connection PVC		DN 200	
		DN 300	
Intermediate ring H30 with fold for SR20 a. SR20/30 - 32x45 cm			
Intermediate ring H20 with fold			
Bucket			
Bucket, narrow for SR20 a. SR20/30 - 32x45 cm			

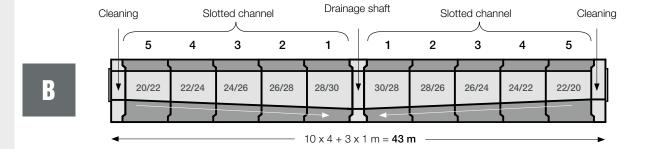
Assembly material	Quantity/ piece	
Transfer hanger		
Lubricant	5 kg / Bucket	
Assembly stop 8 mm	100 Stk./ Bag	
Adhesive tape		
PE Round cord Thickness 1 cm	100 m / Role	
Primer for joint sealant	250 ml / Can	
Joint sealant 1K	600 ml / Tubular bag	
Manual cartridge press	for tubular bag	

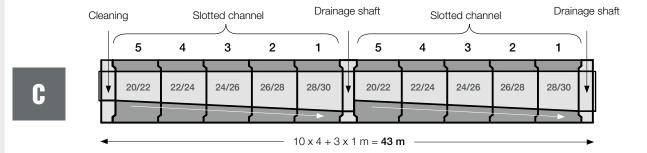


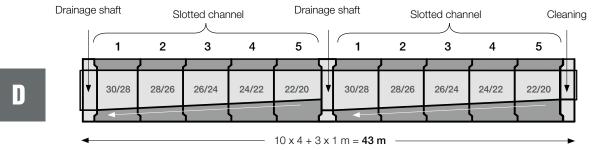
Building project			Channel type		Class		
Offer		Order		Order		Desired	
number	r	number		date		delivery date	

Laying examples for channels with internal slope | SR 20/30 or SR 30









Note:

The channel elements have a built-in internal gradient of 0.5%. This means that, as a rule, lengths of up to 43 m can be drained. The sections can be extended by installing additional channels without an internal slope in front of the manhole.

An on-site installation plan is required for non-reproducible continuous solutions!

Your innovative partner for sustainable construction

Hans Rinninger u. Sohn GmbH u. Co. KG Stolzenseeweg 9 D-88353 Kißlegg / Allgäu

Phone +49 7563 932-0 Fax +49 7563 3072 Email info@rinninger.de

Please also visit our website. You will find detailed product, project and company information, draft tenders, data sheets and brochures on our website.

www.rinninger.de







Concrete in shape – with tradition and know-how

As a fourth-generation family enterprise, we stand for innovation, expertise and reliability. With 220 employees and a company history that goes back more than 110 years, we are invested in concrete as a sustainable construction material, and in its versatility as regards application options. Our modern and efficient facilities develop and manufacture high-quality concrete elements and prefabricated components for every area of construction. Our services are comprehensive, encompassing everything from planning to realisation and competent professional advice as an integral part of our quality philosophy, and this is reflected in the success we enjoy all over Europe.

