



Heavy load channel for load classes A 15 to F 900
ACO DRAIN® Powerlock S 100 K to S 300 K

Heavy load channel SK – Safety in all conditions

Load classes		
■ A 15	■ C 250	■ E 600
■ B 125	■ D 400	■ F 900
in accordance with DIN EN 1433		
Nominal widths		
100, 150, 200, 300		
Material		
Polymer concrete with cast frame and cast iron grating		
Fields of application		
■ Motorways	■ Industrial sur-	
■ Runways and air-	faces	
fields at airports	■ Logistics areas	
■ Container hand-	and routes	
ling centres	■ Rest stops and	
	service stations	

The main areas of application for the ACO heavy load channel SK are within heavy-load areas up to load class F 900. The SK is a module of the successful ACO DRAIN® product family with an impressive combination of nominal widths, robust design, functionality and design freedom.

Slimline – The polymer concrete structure offers a slimline design without compromising on stability. The polymer concrete structure offers a slimline design without compromising on stability.

Robust – The extremely robust channel body is designed to withstand even the heaviest loads

Efficient – Channels with integrated bottom gradients available in various heights offer outstanding hydraulic performance to round off the range in style

Benefits

Liquid-tight and secure

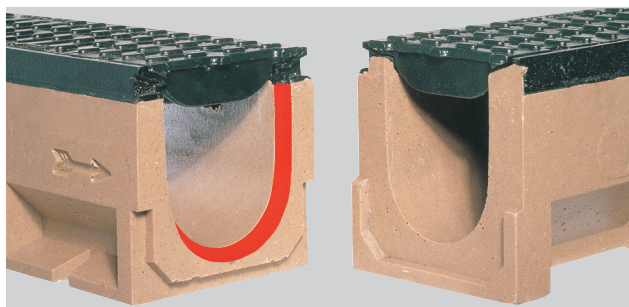
The ACO DRAIN® S 100 K to S 300 K system makes it possible to establish liquid-tight channel trains as well as liquid-tight connections to the surrounding surfaces. This is achieved thanks to the ACO safety seam on the outlet side of the channel elements, which extends through to the upper edge of the frame, and the specially formed back on the moulded multifunctional frame. As a result of its shape, the back of the frame forms a type of pressure joint between the surrounding surface coating and the frame, which is also sealed with the ACO sealant system.

Compact and stable

The outstanding level of stability is afforded by a variety of details: Reinforcing ribs increase the contact area and improve pressure dissipation in the base, while specially designed anchoring ribs provide the perfect grip in the concrete bed. What's more, the integrated anti-shifting device and the low centre of gravity combine to offer security even at installation level.

At 10 cm high, the paving edges mean unnecessary joints can be avoided, while the smooth side walls are free from protrusions.

This all means that any standard surface coatings such as plaster, asphalt or concrete can be handled with ease.



Tongue-and-groove system with safety seam for perfectly fitted transition elements



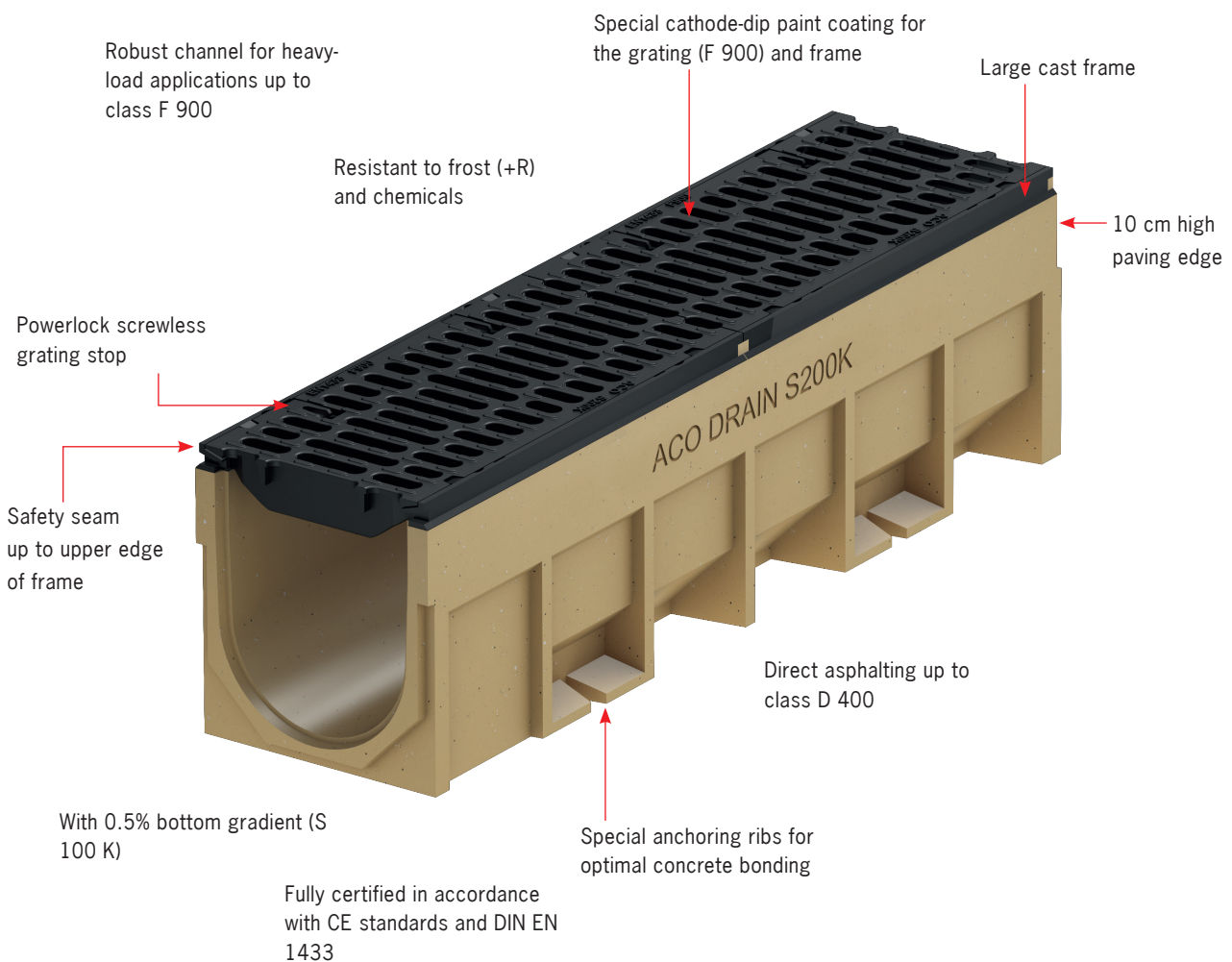
Channel body with anchoring and reinforcing ribs

Powerlock screwless safety catch

The heavy load channel uses the ACO DRAIN® Powerlock screwless locking system. Thanks to the grating hook, the Powerlock slide bolt with stainless steel locking spring is easy to open and just as easy to close. Time-consuming screw connections are replaced with four slide bolts per metre, making mounting and servicing tasks considerably more straightforward. Not only this, but the locking cams also provide protection against horizontal displacement of the manhole cover.



Powerlock slide bolt for easy opening and closing



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Design: Cast iron edge protection

Product information

ACO product benefits
With ACO DRAIN® safety seam (SF)
With Powerlock screwless stop
Channel body made of polymer concrete

- Channel system according to DIN EN 1433/DIN 19580
- Nominal width 100 mm
- Load classes A 15 – F 900 ¹⁾
- With 6 mm EN-GJS cast iron edge protection, with cathodic electrocoating
- With EN-GJS cast iron ladder grating
- Intake area 380 cm²/m
- Slot width 12 mm
- D 400 dip-coated
- F 900 with cathodic electrocoating



Channel body without bottom gradient, 1000 mm

Order information

	Dimensions			Type	Load class D 400		Load class F 900	
	Länge	Breite	Höhe		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With DN/OD 110 pre-moulding that can be knocked out								
	1000	160	165	0.0	35,5	78340	37,7	00841
			215	10.0	41,0	78341	43,2	00842
			265	20.0	44,4	74485	46,6	00843

¹⁾ Exception: Transverse drainage on heavily frequented roads. For these applications, we recommend ACO DRAIN® Monoblock RD 100/200 V.

Channel body without bottom gradient, 500 mm

Specific product information

Optionally available with or without vertical, liquid-tight pipe connection
 With side pre-mouldings for corner, T and cross connections
 The type 2 channel bodies have two inlet sides

Order information

	Dimensions			Type	Load class D 400		Load class F 900	
	Länge	Breite	Höhe Anfang/Ende		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With DN/OD 110 pre-moulding that can be knocked out								
	500	160	165	0.1	18,8	74486	19,9	00844
			215	10.1	21,4	74479	22,5	00845
			265	20.1	24,8	74480	25,9	00846
With moulded NBR O-ring, DN/OD 110								
	500	160	205/225	0.2/1	-	-	22,5	00847
			255/275	10.2/1	-	-	25,0	00848
			305/325	20.2/1	-	-	27,5	00849

Channel body with bottom gradient, 1000 mm

Specific product information

With 0.5% bottom gradient

Types 10 and 20 with DN/OD 110 pre-moulding that can be knocked out

Order information

	Dimensions			Type	Load class F 900	
	Length	Width	Height start/finish		Weight	Item number
	[mm]	[mm]	[mm]		[kg]	
	1000	160	165/170	1	36,8	00821
			170/175	2	37,6	00822
			175/180	3	38,2	00823
			180/185	4	39,1	00824
			185/190	5	39,5	00825
			190/195	6	40,1	00826
			195/200	7	40,5	00827
			200/205	8	41,1	00828
			205/210	9	41,9	00829
			210/215	10	42,5	00830
			215/220	11	43,0	00831
			220/225	12	43,5	00832
			225/230	13	43,9	00833
			230/235	14	44,3	00834
			235/240	15	44,8	00835
			240/245	16	45,3	00836
			245/250	17	45,6	00837
			250/255	18	46,2	00838
			255/260	19	47,0	00839
			260/265	20	48,0	00840

500 mm inlet shafts

Specific product information

With NBR lip labyrinth seal (LLS) for horizontal, liquid-tight pipe connection
 With plastic (PP) sludge bucket

Suitable for heights of 0.0/10.0/20.0

Order information

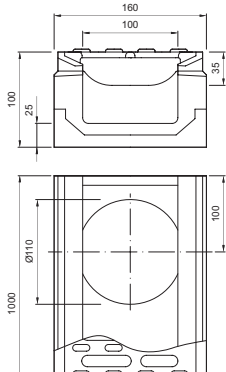
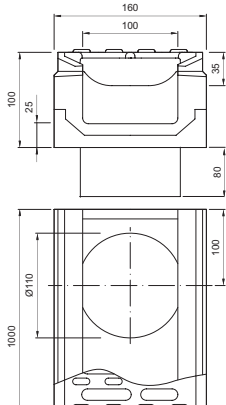
	Dimensions			Pipe connection DN/OD [mm]	Load class D 400		Load class F 900	
	Length	Width	Height		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
	500	160	520	110	37,3	74487	38,4	10545
				160	-	-	38,4	10546

Flat channels without bottom gradient, 1000 mm


Optionally available with or without vertical, liquid-tight pipe connection

Design with vertical, liquid-tight pipe connection with PE-HD pipe socket

Order information

	Dimensions			Load class F 900	
	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Item number
With DN/OD 110 pre-moulding that can be knocked out					
	1000	160	100	29,6	10080
With moulded PE-HD pipe socket, DN/OD 110					
	1000	160	100	29,7	10081

Accessories

	Description	To fit	Weight [kg]	Item number
	Universal closing end cap For male and female end Made of polymer concrete	With cast iron edge protection Length 30 mm	S 100 K 0./10./20. 2,2	00854
	End cap for channel end socket Made of polymer concrete With cast iron edge protection	With moulded NBR O-ring and PE-HD pipe socket, DN/OD 110 Length 30 mm	S 100 K 0. 1,3 S 100 K 10/10. 1,8 S 100 K 20/20. 2,3	00855 00856 00857
	Adapter to change flow direction Made from polymer concrete	With cast iron edge protection Length 30 mm	S 100 K 0./1 1,0 S 100 K 10./11 1,2 S 100 K 20. 1,4	00912 00913 00914
	Adapters For equalising height differences when installing on step slopes	Aus Polymerbeton	S 100 K 1,0	00853
	Universal closing end cap (flat channel) For male and female end Made of polymer concrete	Made of polymer concrete Length 30 mm	S 100 K Flat channel 0,9	76098
	Sludge bucket (flat channel) For DN/OD 110 vertical outlet	Made of stainless steel	S 100 K Flat channel 3,0	16190
	Grating hook For removing cover gratings	Galvanised steel	Cover gratings 0,3	01290

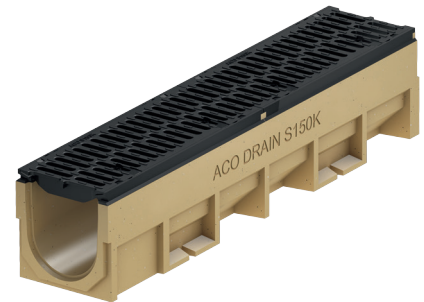
Design: Cast iron edge protection

Product information

ACO product benefits
With ACO DRAIN® safety seam (SF)
With Powerlock screwless stop
Channel body made of polymer concrete

Channel system according to DIN EN 1433/DIN 19580
 Nominal width 150 mm
 Load classes A 15 – F 900¹⁾
 With 6 mm EN-GJS cast iron edge protection, with cathodic electrocoating
 With EN-GJS cast iron ladder grating

- Slot width 14 mm
- Intake area 680 cm²/m
- D 400 dip-coated
- F 900 with cathodic electrocoating



Channel body without bottom gradient, 1000 mm

Order information

	Dimensions			Type	Load class D 400		Load class F 900	
	Length	Width	Height		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With DN/OD 160 pre-moulding that can be knocked out								
	1000	210	220	0.0	51,9	78342	54,1	03050
			270	10.0	58,1	78344	60,8	03051
			320	20.0	61,4	74488	63,6	03052

¹⁾ Exception: Transverse drainage on heavily frequented roads. For these applications, we recommend ACO DRAIN® Monoblock RD 100/200 V.

Channel body without bottom gradient, 500 mm

Specific product information

Optionally available with or without vertical, liquid-tight pipe connection
 With side pre-mouldings for corner, T and cross connections
 The type 2 channel bodies have two inlet sides

Order information

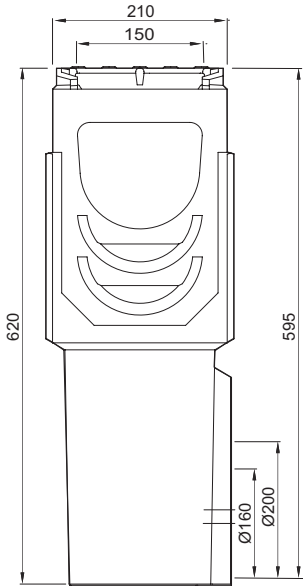
	Dimensions			Type	Load class D 400		Load class F 900	
	Length	Width	Height		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With DN/OD 160 pre-moulding that can be knocked out								
	500	210	220	0.1	28,9	74489	30,0	03053
			270	10.1	30,9	74481	32,0	03054
			320	20.1	32,8	74482	33,9	03055
With moulded NBR O-ring, DN/OD 160								
	500	210	260	0.2/1	-	-	33,2	03077
			310	10.2/1	-	-	36,2	03078
			360	20.2/1	-	-	38,2	03079

500 mm inlet shafts


Specific product information

With NBR lip labyrinth seal (LLS) for horizontal, liquid-tight pipe connection
 With plastic (PP) sludge bucket
 Suitable for heights of 0.0/10.0/20.0

Order information

	Dimensions			Pipe connection DN/OD [mm]	Load class D 400		Load class F 900	
	Length	Width	Height		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With connection for lip labyrinth seal								
	500	210	620	160	53,0	74490	54,1	10547
				200	-	-	54,1	10548

Accessories

	Description	To fit	Weight [kg]	Item number
	Universal closing end cap For male and female end Made of polymer concrete With cast iron edge protection Length 30 mm	S 150 K 0./10./20.	3,1	00699
	End cap for channel end (socket) Made of polymer concrete With moulded NBR O-ring and PE-HD pipe socket, DN/OD 160 With cast iron edge protection	S 150 K 0. S 150 K 10. S 150 K 20.	2,2 3,1 3,7	00885 00886 00887
	Adapter to change direction of flow Made of polymer concrete With cast iron edge protection Length 30 mm	S 150 K 0. S 150 K 10. S 150 K 20.	1,4 1,8 2,2	00970 00971 00972
	Adapters For equalising height differences when instal- ling on step slopes Made of polymer concrete	S 150 K	1,0	00698
	Grating hook For removing cover gratings Galvanised steel	Cover gratings	0,3	01290

Design: Cast iron edge protection

Product information

ACO product benefits

With ACO DRAIN® safety seam (SF)
 With Powerlock screwless stop
 Channel body made of polymer concrete

Channel system according to DIN EN 1433/DIN 19580
 Nominal width 200 mm
 Load classes A 15 – F 900 ¹⁾
 With 6 mm EN-GJS cast iron edge protection, with cathodic electrocoating
 With EN-GJS cast iron ladder grating
 Slot width 18 mm
 Intake area 935 cm²/m
 D 400 dip-coated
 F 900 with cathodic electrocoating



Channel body without bottom gradient, 1000 mm

Order information

	Dimensions			Type	Load class D 400		Load class F 900	
	Length	Width	Height		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With DN/OD 160 pre-moulding that can be knocked out								
	1000	260	290	0.0	73,0	78343	80,6	00571
			340	10.0	77,6	74491	85,2	00572
			390	20.0	80,4	74492	88,0	00573

¹⁾ Exception: Transverse drainage on heavily frequented roads. For these applications, we recommend ACO DRAIN® Monoblock RD 100/200 V.

Channel body without bottom gradient, 500 mm

Specific product information

Optionally available with or without vertical, liquid-tight pipe connection
 With side pre-mouldings for corner, T and cross connections
 The type 2 channel bodies have two inlet sides

Order information

	Dimensions			Type	Load class D 400		Load class F 900	
	Length	Width	Height		Weight	Item number	Weight	Item number
	[mm]	[mm]	[mm]		[kg]		[kg]	
With DN/OD 160 pre-moulding that can be knocked out								
	500	260	290	0.1	42,4	74493	46,2	00574
			340	10.1	43,5	74483	47,3	00575
			390	20.1	44,4	74484	48,2	00576
With moulded NBR O-ring, DN/OD 200								
	500	260	330	0.2/1	-	-	46,3	02981
			380	10.2/1	-	-	49,3	02983
			430	20.2/1	-	-	51,3	02985

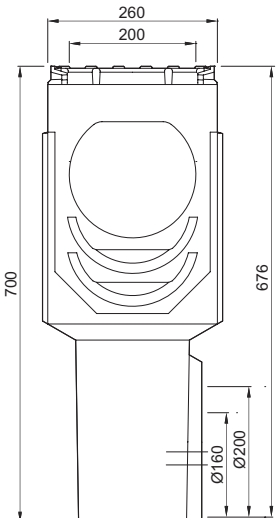
500 mm inlet shafts

Specific product information

With NBR lip labyrinth seal (LLS) for horizontal, liquid-tight pipe connection
 With plastic (PP) sludge bucket

Suitable for heights of 0.0/10.0/20.0

Order information

	Dimensions			Pipe connection DN/OD [mm]	Load class D 400		Load class F 900	
	Length [mm]	Width [mm]	Height [mm]		Weight [kg]	Item number	Weight [kg]	Item number
	With connection for lip labyrinth seal							
	500	260	700	160	65,9	74494	69,7	10549
				200	-	-	73,3	10550

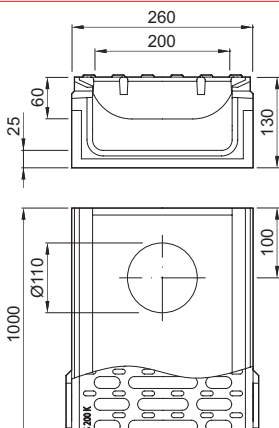
Flat channels without bottom gradient, 1000 mm

Specific product information

Optionally available with or without vertical, liquid-tight pipe connection

Design with vertical, liquid-tight pipe connection with PE-HD pipe socket

Order information

	Dimensions			Load class F 900	
	Length [mm]	Width [mm]	Height start/finish [mm]	Weight [kg]	Item number
With DN/OD 110 pre-moulding that can be knocked out					
	1000	260	130	60,1	08013

	Length [mm]	Dimensions		Load class F 900	
		Width [mm]	Height start/ finish [mm]	Weight [kg]	Item number
With DN/OD 110 pre-moulding that can be knocked out					
	1000	260	130	60,2	10036

Accessories

	Description	To fit	Weight [kg]	Item number
	Universal closing end cap For male and female end Made of polymer concrete With cast iron edge protection Length 30 mm	S 200 K 0./10./20.	4,5	00578
	End cap for channel end (socket) Made of polymer concrete With moulded NBR O-ring and PE-HD pipe socket, DN/OD 200 With cast iron edge protection Length 30 mm	S 200 K 0. S 200 K 10. S 200 K 20.	6,1 6,3 6,5	00565 00566 00567
	Adapter to change direction of flow Made of polymer concrete With cast iron edge protection Length 30 mm	S 200 K 0. S 200 K 10. S 200 K 20.	1,9 2,0 2,6	02991 02992 02993
	Adapters For equalising height differences when installing on step slopes Made of polymer concrete	S 200 K	1,9	00577
	Universal closing end cap (flat channel) For male and female end Made of polymer concrete With cast iron edge protection Length 20 mm	S 200 K flat channel	3,7	01516
	Grating hook For removing cover gratings Galvanised steel	ACover gratings	0,3	01290

Design: Cast iron edge protection

Product information

ACO product benefits

- With ACO DRAIN® safety seam (SF)
- With Powerlock screwless stop
- Channel body made of polymer concrete

- Channel system according to DIN EN 1433/DIN 19580
- Nominal width 300 mm
- Load classes A 15 – F 900 ¹⁾
- With 6 mm EN-GJS cast iron edge protection, with cathodic electrocoating
- With EN-GJS cast iron ladder grating
- Slot width 18 mm
- Intake area 1511 cm²/m
- With cathodic electrocoating



Channel body without bottom gradient, 1000 mm

Order information

	Dimensions			Type	Load class F 900	
	Length [mm]	Width [mm]	Height [mm]		Weight [kg]	Item number
With DN/OD 200 pre-moulding that can be knocked out						
	1000	360	400	0.0	112,5	02700

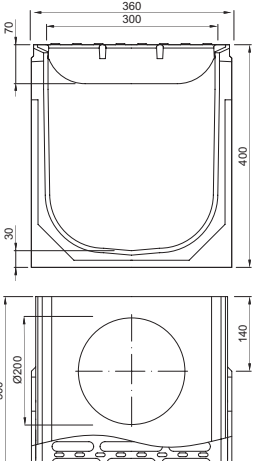
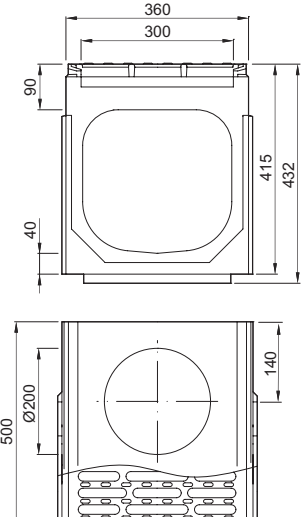
¹⁾ Exception: Transverse drainage on heavily frequented roads. For these applications, we recommend ACO DRAIN® Monoblock RD 100/200 V.

Channel body without bottom gradient, 500 mm

Specific product information

Optionally available with or without vertical, liquid-tight pipe connection
 With side pre-mouldings for corner, T and cross connections
 The type 0.2/1 channel body has two inlet sides

Order information

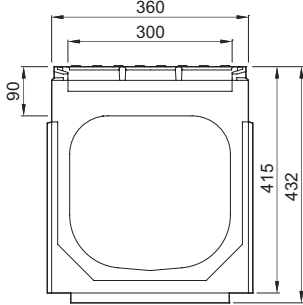
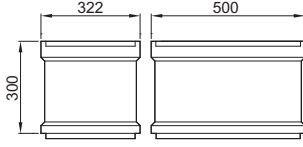
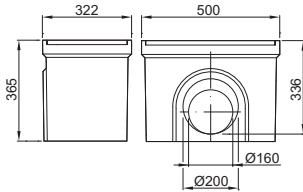
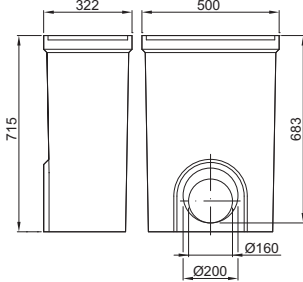
	Dimensions			Type	Load class F 900	
	Length [mm]	Width [mm]	Height [mm]		Weight [kg]	Item number
With DN/OD 200 pre-moulding that can be knocked out						
	500	360	400	0.1	65,1	02703
With moulded NBR O-ring, DN/OD 200						
	500	360	432	0.2/1	66,6	02740

500 mm inlet shafts



Specific product information

Lower part with NBR lip labyrinth seal (LLS) for horizontal, liquid-tight pipe connection
 Upper part suitable for type 0.

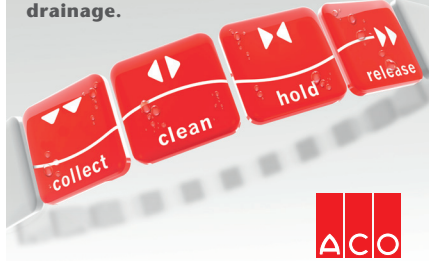
Order information

	Dimensions			Pipe connection DN/OD [mm]	Load class F 900	
	Length [mm]	Width [mm]	Height [mm]		Weight [kg]	Item number
Upper part						
	500	360	415	-	56,3	00670
Intermediate part						
	500	322	300	-	20,7	01697
Short form bottom part, with LLS pipe connection						
	500	322	365	160	28,5	01614
				200	27,0	06190
Long form bottom part, with LLS pipe connection						
	500	322	715	160	49,9	03217
				200	49,9	08565

Accessories

	Description	To fit	Weight [kg]	Item number
	Universal closing end cap For channel start and end Made of polymer concrete With cast iron edge protection Length 30 mm	S 300 K 0.	9,8	00677
	End cap for channel end (socket) Made of polymer concrete With moulded NBR O-ring and PE-HD pipe socket, DN/OD 200 With cast iron edge protection Baulänge 30 mm	S 300 K 0.	8,0	01490
	Adapter für Fließrichtungswechsel Aus Polymerbeton Mit Kantenschutz Gusseisen Length 30 mm	S 300 K 0.	3,0	01493
	Adapter to change direction of flow Galvanised steel	S 300 K inlet shaft		
		<input type="checkbox"/> Short form	4,7	01616
		<input type="checkbox"/> Long form	6,2	01617
	Grating hook For removing cover gratings Galvanised steel	Cover gratings	0,3	01290

ACO. The future of drainage.



Every ACO Tiefbau product supports the ACO system series

- Drainage channels
- Road gullies and yard drains
- Gully tops
- Manhole covers
- Separators
- Water protection
- Bulk storage and bulk percolation
- Pumping stations
- Tree protection

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