

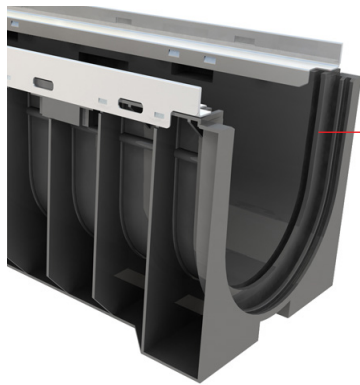
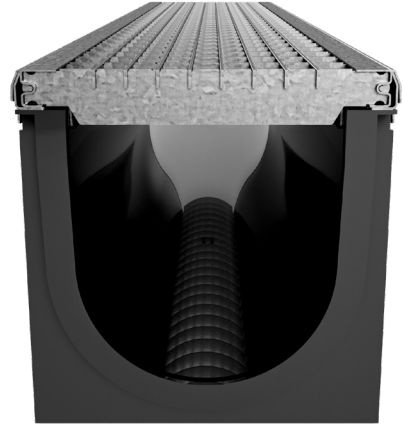


Mufledrain Smart
Drainage channel

Mufledrain Smart: steel rail safety

The **Mufledrain Smart** drainage system represents the perfect answer for the civil, industrial and infrastructural application needs. The versatility of these channels is a consequence of its steel rail (galvanized or stainless steel), necessary to improve the load distribution coming from the pavement surface or from underground forces. At the same time, it is the perfect protection for the complete system from all the forces coming from the surrounding areas.

The 2,5mm rail thickness in the traffic exposure area and 1,2 mm thickness in the grating support area, grants a C250 load class certification. The fixing system consists of 2 bars and bolts per each single meter.



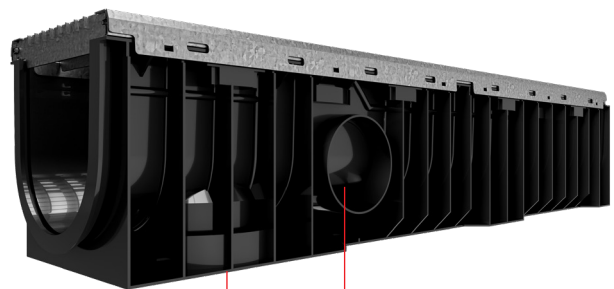
The steel rail is 20 mm high and 2.5 mm thick in the area exposed to vehicle transit. It holds the gratings and helps in an easy installation of the channel system.

Typical applications

- Private parking
- Sidewalks
- Access to ramps in underground floors
- Roadside drainage systems
- Parking areas
- Other applications for load class C250

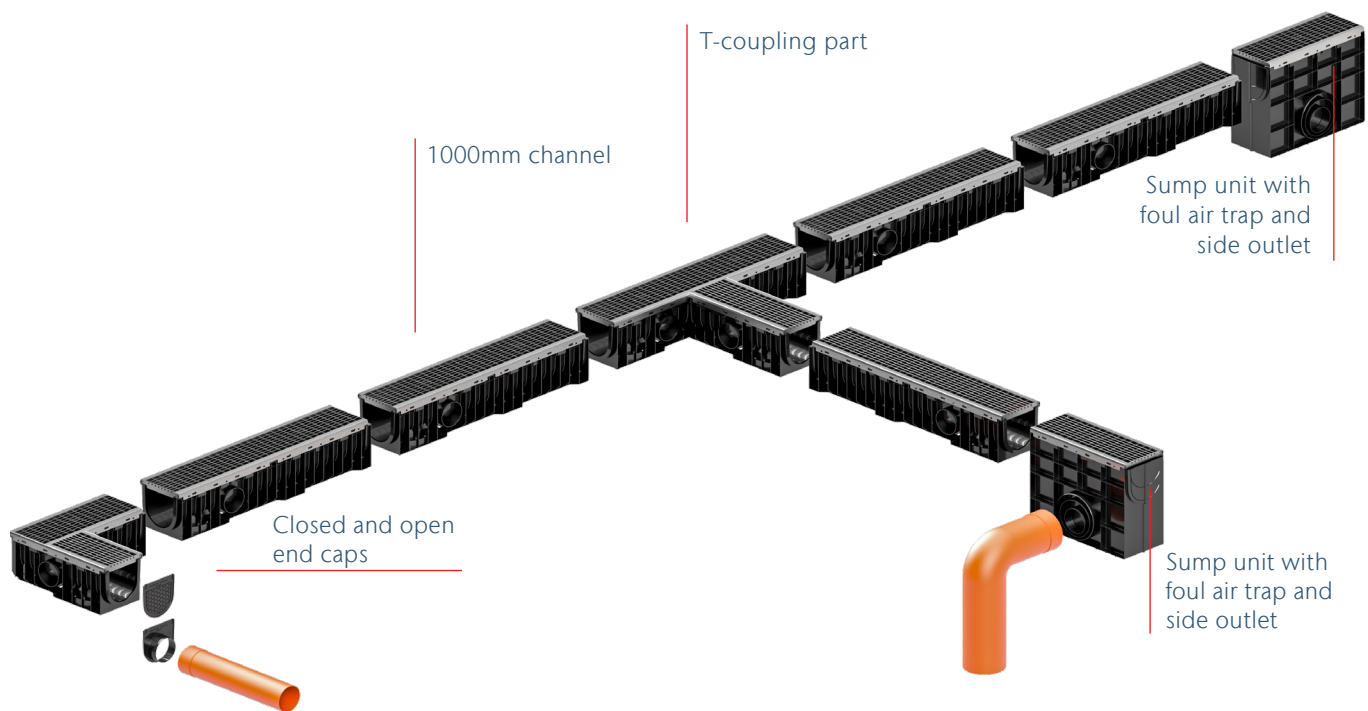
Main features

- The channel body is completely made of HD-PE certified for load class A15, B125 and C250 according to EN 1433: 2008
- Galvanized steel and stainless steel rail are standard for this product
- Available in three different nominal widths: 100, 150, 200 mm
- With vertical and lateral knockouts
- Vertical outlet kit Ø100 and Ø110 mm for channels H55 and H80 mm
- Sump unit with foul air trap
- Specific fixing systems on each grating.
- Special pieces for corners, "T" couplings and cross couplings are available



Vertical and lateral knockouts

System overview



Mufledrain Smart is available:

- With three different widths: from 100, 150 and 200 mm
- With two low height versions 55 mm and 80 mm for the channel internal width 100 mm.



Mufledrain Smart 100

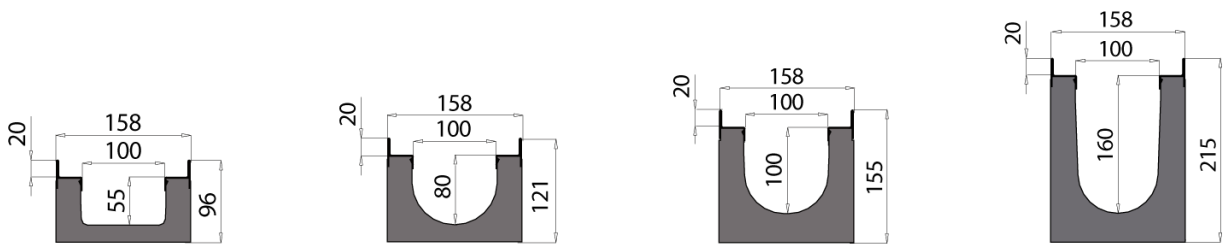
Product information

- HD-PE drainage channel, internal width: 100 mm
- Galvanized steel and stainless steel rail
- Load class D400, F900 according to EN 1433
- Sump unit with foul air trap
- Side and vertical knockouts
- Vertical outlet kit Ø100 and Ø110 mm for channel H55 and H80 mm; knockout on all other sizes
- M8 bolt fixing system for gratings
- Special parts for corners, T-couplings and cross-couplings are available on request








Mufledrain Smart 100 channel with galvanized and stainless steel rail

Length 1000 mm, total width 158 mm

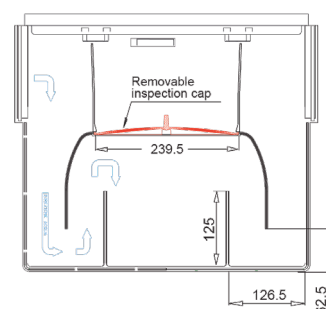
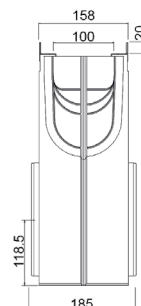
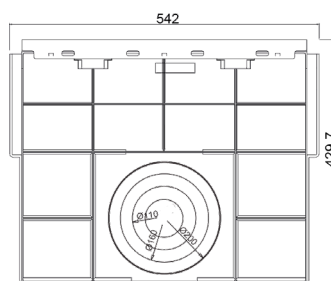


Total height	Internal height	Ø side outlet	Ø vertical outlet	Weight	Pieces/pallet (100X120)	Stainless steel		Galvanized steel
[mm]	[mm]	[mm]	[mm]	[kg/pc]		Article number	Euro/pc	Article number
Channel with vertical outlet kit Ø100/110								
96	55	2 x Ø40	1 x Ø100/110	3,10	84	701011	31,15	701003
121	80	2 x Ø63	1 x Ø100/110	3,30	70	701010	32,15	701002
Channel with vertical outlet Ø110								
155	100	2 x Ø63	1 x Ø110	3,60	56	701009	33,90	701001
215	160	2 x Ø110	1 x Ø110	4,10	42	701008	35,25	701000

Mufledrain Smart 100 channel accessories


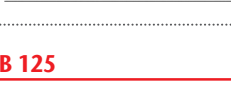


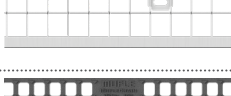
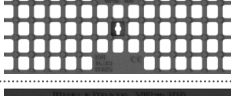




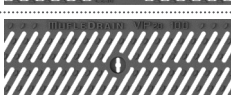

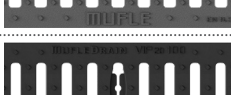

Image	Description	For channel internal height [mm]	Material	Article number
	Closed end-cap	55	PE	700508
		80	PE	700509
		100	PE	700510
		160	PE	700511
	Ø40 outlet end-cap	55	PE	700500
	Ø50 outlet end-cap	80	PE	700521
	Ø75 outlet end-cap	100	PE	700522
		160	PE	700523
	KIT Ø100 vertical outlet	55/80	PE	506114
	KIT Ø110 vertical outlet	55/80	PE	506115
	Step connectors from 100 mm to 160 mm	-	Composit	700516
	Bituminous sealant	-	-	500345

Mufledrain Smart 100 sump unit with galvanized/stainless steel rail

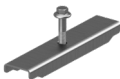



Description	Material	Height	Width	Length	Ø Side Outlet	Weight	Stainless Steel	Galvanized Steel
		[mm]	[mm]	[mm]	[mm]	[kg/pz]	Article number	Article number
Sump unit with female-female connection	PE	429,7	158	500	2xØ110 2xØ160 2xØ200	3,35	701019	701016

Mufledrain Smart 100 channel gratings

Image	Description	Fixing system	Width [mm]	Length [mm]	Slot/mesh [mm]	Weight [kg/pc]	Article number
A 15							
	Galvanized steel slot	Bolt and bar (not included)	148	998	83 x 8,5	1,60	502128
	Stainless steel slot	Bolt and bar (not included)	148	998	83 x 8,5	1,60	502129
B 125							
	Galvanized steel heel safe mesh	Bolt and bar (not included)	148	998	33 x 15	3,60	502126
	Stainless steel heel safe mesh	Bolt and bar (not included)	148	998	33 x 15	3,60	502150
	Galvanized steel square mesh	Bolt and bar (not included)	148	998	32,2 x 32,2	2,90	502127
	Stainless steel square mesh	Bolt and bar (not included)	148	998	32,2 x 32,2	2,90	502157
	Ductile iron mesh	Bolt and bar (not included)	148	498	21,5 x 17,5	3,40	502112
	Polyamide 16 mm slot	Bolt and bar (not included)	148	498	82 x 16	0,80	502307
C 250							
	Galvanized steel heel safe mesh	Bolt and bar (not included)	148	998	33 x 15	5,10	502152
	Stainless steel heel safe mesh	Bolt and bar (not included)	148	998	33 x 15	5,10	502175
	Ductile iron mesh	Bolt and bar (not included)	148	498	21,5 x 17,5	3,80	502115
	Ductile iron 7 mm slot	Bolt and bar (not included)	148	498	57 x 7	4,10	502105
	Ductile iron 20 mm slot	Bolt and bar (not included)	148	498	82 x 20	3,60	502113
	Polyamide 16 mm slot	Bolt and bar (not included)	148	498	82 x 16	1,30	502308

Mufledrain Smart 100 grating accessories

Image	Description	Material	Valid for	Article number
	Bolt and bar kit + M8x40 TBL combi screw	Galvanized steel	Mufledrain Smart 100 galvanized steel gratings	500421 ⁽¹⁾
		Stainless steel	Mufledrain Smart 100 stainless steel gratings	500422 ⁽¹⁾
	Bolt and bar kit + M8x40 black hex head screw	Galvanized steel	Mufledrain Smart 100 ductile iron gratings	500423 ⁽¹⁾

⁽¹⁾Valid for 1 meter of channel

Mufledrain Smart 150

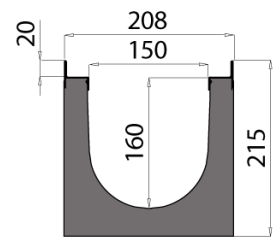
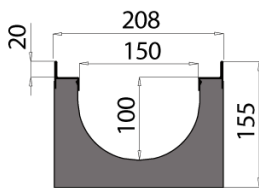
Product information

- HD-PE drainage channel, internal width: 150 mm
- Galvanized steel and stainless steel rail
- Load class D400, F900 according to EN 1433
- Sump unit with foul air trap
- Side and vertical knockouts
- M8 bolt fixing system for gratings
- Special parts for corners, T-couplings and cross-couplings are available on request





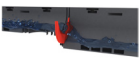

Mufledrain Smart 150 channel with galvanized/stainless steel rail

Length 1000 mm, total width 208 mm

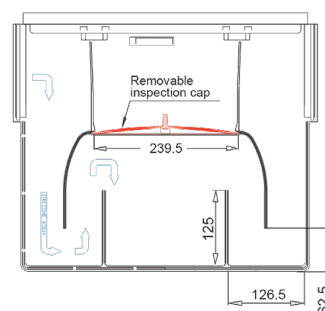
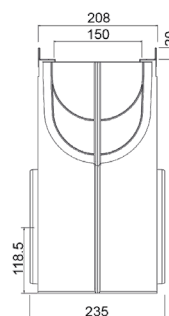
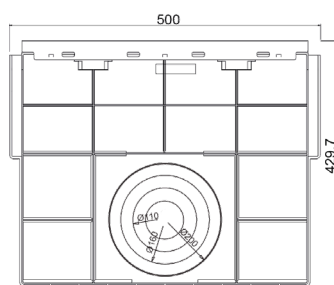


Total height	Internal height	Ø side outlet	Ø vertical outlet	Weight	Pieces/pallet (100X120)	Stainless steel	Galvanized steel
[mm]	[mm]	[mm]	[mm]	[kg/pc]		Article number	Article number
Channel with vertical outlet Ø110/160							
155	100	2 x Ø63	1 x Ø110/160	4,00	40	701013	701005
215	160	2 x Ø110	1 x Ø110/160	4,55	30	701012	701004

Mufledrain Smart 150 channel accessories

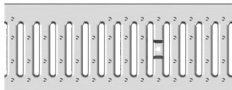

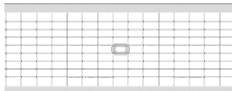

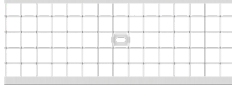
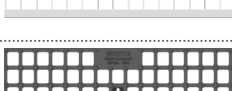
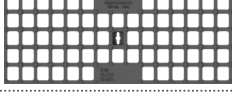
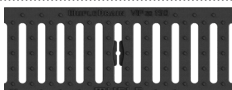
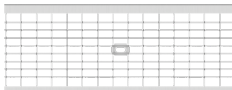
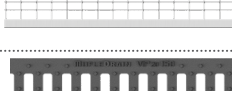

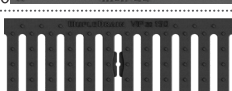

Image	Description	For channel internal height [mm]	Material	Article number
	Closed end-cap	100	PE	700512
		160	PE	700513
	Ø75 outlet end-cap	100	PE	700524
	Ø110 outlet end-cap	160	PE	700505
	Step connectors from 100 mm to 160 mm	-	Composit	700517
	Bituminous sealant	-	-	500345

Mufledrain Smart 150 sump unit with galvanized/stainless steel rail





Description	Material	Height	Width	Length	Ø Side Outlet	Weight	Stainless Steel	Galvanized Steel
		[mm]	[mm]	[mm]	[mm]	[kg/pc]	Article number	Article number
Sump unit with female-female connection	PE	429,7	208	500	2xØ110 2xØ160 2xØ200	3,70	701020	701017

Mufledrain Smart 150 channel gratings

Image	Description	Fixing System	Width [mm]	Length [mm]	Slot/Mesh [mm]	Weight [kg/pc]	Article number
A 15							
	Galvanized steel slot	Bolt and bar (not included)	148	998	83 x 8,5	1,60	502132
	Stainless steel slot	Bolt and bar (not included)	148	998	83 x 8,5	1,60	502133
B 125							
	Galvanized steel heel safe mesh	Bolt and bar (not included)	198	998	33 x 15	5,30	502130
	Stainless steel heel safe mesh	Bolt and bar (not included)	198	998	33 x 15	5,00	502158
	Galvanized steel square mesh	Bolt and bar (not included)	198	998	32,2 x 32,2	4,10	502131
	Stainless steel square mesh	Bolt and bar (not included)	198	998	32,2 x 32,2	4,10	502159
	Ductile iron mesh	Bolt and bar (not included)	198	498	29 x 24,5	4,90	502118
	Polyamide 16mm slot	Bolt and bar (not included)	198	498	132 x 16	1,70	502302
C 250							
	Galvanized steel heel safe mesh	Bolt and bar (not included)	198	998	33 x 15	7,50	502154
	Stainless steel heel safe mesh	Bolt and bar (not included)	198	998	33 x 15	7,50	502177
	Ductile iron 20mm slot	Bolt and bar (not included)	198	498	132 x 20	5,30	502120
	Polyamide 16mm slot	Bolt and bar (not included)	198	498	132 x 16	2,35	502303
	Ductile iron 8mm slot	Bolt and bar (not included)	198	498	81 x 7	7,10	502263

Mufledrain Smart 150 grating accessories

Image	Description	Material	Valid for	Article number
	Bolt and bar kit + M8x40 TBL combi screw	Galvanized steel	Mufledrain Smart 150 galvanized steel gratings	500424 ⁽¹⁾
		Stainless steel	Mufledrain Smart 150 stainless steel gratings	500425 ⁽¹⁾
	Bolt and bar kit + M8x40 black hex head screw	Galvanized steel	Mufledrain Smart 150 ductile iron gratings	500426 ⁽¹⁾

⁽¹⁾Valid for 1 meter of channel

Mufledrain Smart 200

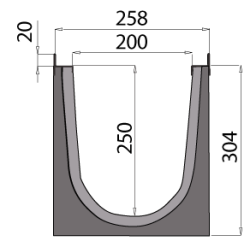
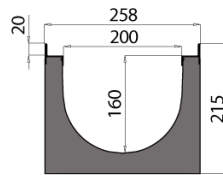
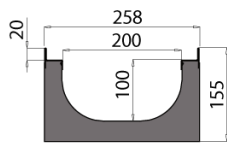
Product information

- HD-PE drainage channel, internal width: 200 mm
- Galvanized steel and stainless steel rail
- Load class B125 - C250, according to EN 1433
- Sump unit with foul air trap
- Side and vertical knockouts
- Bolt and bar fixing system for gratings
- Special parts for corners, T-couplings and cross-couplings are available on request








Mufledrain Smart 200 channel with galvanized/stainless steel rail

Length 1000 mm, total width 258 mm

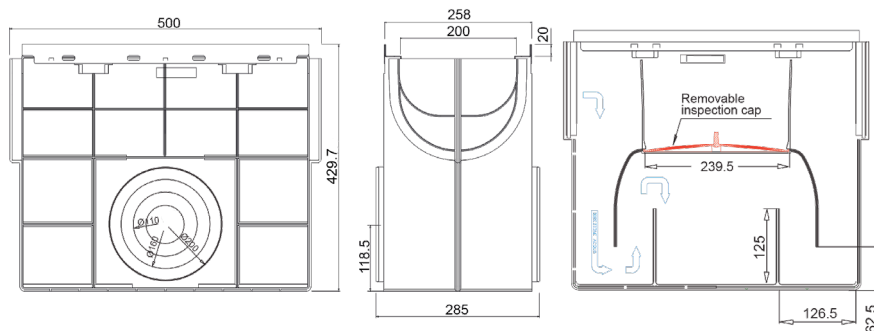
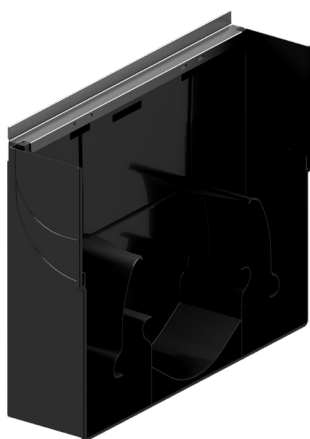


Total Height	Internal height	Ø side outlet	Ø vertical outlet	Weight	Pieces/pallet (100X120)	Stainless steel	Galvanized steel
[mm]	[mm]	[mm]	[mm]	[kg/pc]		Article number	Article number
Channel with vertical outlet Ø200/160							
155	100	2 x Ø63	1 x Ø200/160	4,35	32	701015	701007
215	160	2 x Ø110	1 x Ø200/160	4,95	24	701014	701006
304	250	2 x Ø160/200	1 x Ø200/160	6,30	16	701023	701022

Mufledrain Smart 200 channel accessories

Image	Description	For channel internal height [mm]	Material	Article number
	Closed end-cap	100	PE	700514
		160	PE	700515
	Ø75 outlet end-cap	100	PE	700526
	Ø110 outlet end-cap	160	PE	700507
	Closed end-cap with Ø160 knockout	250	PE	502416
	Step connectors from 100 mm to 160 mm	-	Composit	700519
	Step connectors from 160 mm to 250 mm	-	Composit	700518
	Bituminous sealant	-	-	500345



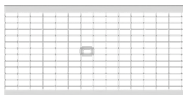


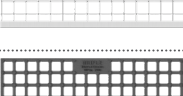
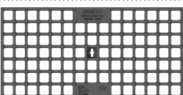

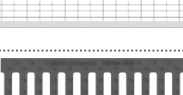


Mufledrain Smart 200 sump unit with galvanized/stainless steel rail



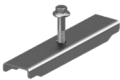

Description	Material	Height	Width	Length	Ø side outlet	Weight	Stainless steel	Galvanized steel
		[mm]	[mm]	[mm]	[mm]	[kg/pc]	Article number	Article number
Sump unit with female-female connection	PE	429,7	258	500	2xØ110 2xØ160 2xØ200	3,85	701021 ⁽¹⁾	701018 ⁽¹⁾

⁽¹⁾Not valid for channel height 250

Mufledrain Smart 200 channel gratings

Image	Description	Fixing system	Width [mm]	Length [mm]	Slot/Mesh [mm]	Weight [kg/pc]	Article number
A 15							
	Galvanized steel slot	Bolt and bar (not included)	148	998	83 x 8,5	1,60	502136
	Stainless steel slot	Bolt and bar (not included)	148	998	83 x 8,5	1,60	502198
B 125							
	Galvanized steel heel safe mesh	Bolt and bar (not included)	248	998	33 x 15	6,20	502134
	Stainless steel heel safe mesh	Bolt and bar (not included)	248	998	33 x 15	6,20	502160
	Galvanized steel square mesh	Bolt and bar (not included)	248	998	32,2 x 32,2	5,20	502135
	Stainless steel square mesh	Bolt and bar (not included)	248	998	32,2 x 32,2	5,20	502161
	Ductile iron grating mesh	Bolt and bar (not included)	248	498	25,5 x 24,5	6,25	502122
C 250							
	Galvanized steel heel safe mesh	Bolt and bar (not included)	248	998	33 x 15	9,50	502156
	Stainless steel heel safe mesh	Bolt and bar (not included)	248	998	33 x 15	9,50	502179
	Ductile iron 20mm Slot	Bolt and bar (not included)	248	498	180 x 20	7,00	502124
	Ductile iron 8mm Slot	Bolt and bar (not included)	248	498	107 x 7	9,00	502264

Mufledrain Smart 200 grating accessories

Image	Description	Material	Valid for	Article number
	Bolt and bar kit + M8x40 TBL combi screw	Galvanized steel	Mufledrain Smart 200 galvanized steel gratings	500427 ⁽¹⁾
		Stainless steel	Mufledrain Smart 200 stainless steel gratings	500428 ⁽¹⁾
	Bolt and bar kit + M8x40 black hex head screw	Galvanized steel	Mufledrain Smart 200 ductile iron gratings	500429 ⁽¹⁾

⁽¹⁾Valid for 1 meter of channel

Notes