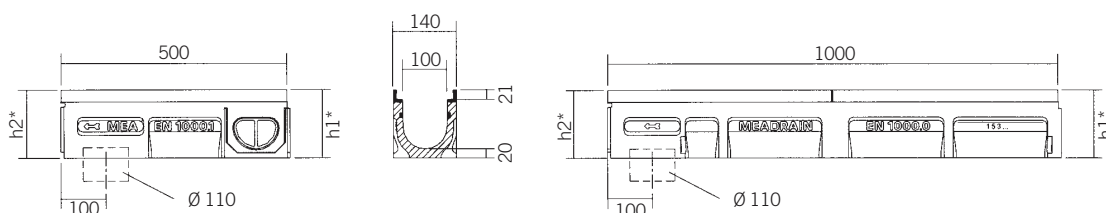


ALTHON Supreme Athlon HD 1000

Technical Data



Material properties

Channel body

- ◆ Polymer concrete based on polyester resin
- ◆ Compression resistance: > 90 N/mm²
- ◆ Flexural strength: > 22 N/mm²
- ◆ Water absorption: less than 0.05%
- ◆ Density: 2.1 - 2.3 kg/dm³
- ◆ Modulus of elasticity: 25 - 35 kN/mm²
- ◆ Water penetration level: 0 mm
- ◆ Material structure: capillary free

Edge protection

- ◆ Cast iron KTL-coated (cataphoretic painting)

Grating

- ◆ Galvanized steel: DX 51 D 275 NA to EN 10142
- ◆ Ductile iron
- ◆ Stainless steel AISI 304 materialNo: 1.4301

Description and sizes

- ◆ Drainage channel made of polymer concrete with sealable channel groove
- ◆ Approval of DIBt (German institute of technical approvals)
- ◆ Integrated cast iron edge protection
- ◆ Connection facility for vertical discharge (*) Ø 110 in 500 mm and 1000 mm channel
- ◆ The /A-marked channel elements include a HD-PE outlet connector Ø 110
- ◆ Interlocking joint system for an exact fitting of the channels
- ◆ Suitable for installation of MEADRAIN Top 1000 grating covers with PROFIX or CLIPPFIX boltless locking systems or standard locking mechanisms
- ◆ Fall type: linear fall till 20 m and without fall
- ◆ Loading classes: A 15 - F 900 to EN 1433 (D 400 unsuitable for cross drainage of high speed roads and motorways)
- ◆ Total height: 150 mm - 250 mm (see table)
- ◆ Total width: 140 mm
- ◆ Length: 500 mm and 1000 mm

(*) among the channel elements with fall, only the with ¹⁾ marked products

h1* = Total height 1

h2* = Total height 2

Channel units overview

Channels without fall

Product description	Length [mm]	Total height h1 [mm]	Total height h2 [mm]	Weight [kg]	Inlet sectional area** [cm²]	EDP Number 010...
EN 1000.0 ¹⁾	1000	150	150	17,1	98,27	157201
EN 1000.0/A ²⁾	1000	150	150	17,1	98,27	157203
EN 1000.1 ¹⁾³⁾	500	150	150	8,4	98,27	157205
EN 1005.0 ¹⁾	1000	175	175	19,1	123,27	157219
EN 1005.0/A ²⁾	1000	175	175	19,1	123,27	157221
EN 1005.1 ¹⁾³⁾	500	175	175	9,4	123,27	157223
EN 1010.0 ¹⁾	1000	200	200	20,1	148,27	157237
EN 1010.0/A ²⁾	1000	200	200	21,1	148,27	157239
EN 1010.1 ¹⁾³⁾	500	200	200	10,4	148,27	157241
EN 1015.0 ¹⁾	1000	225	225	22,1	173,27	157255
EN 1015.0/A ²⁾	1000	225	225	23,1	173,27	157257
EN 1015.1 ¹⁾³⁾	500	225	225	11,4	173,27	157259
EN 1020.0 ¹⁾	1000	250	250	24,1	198,27	157273
EN 1020.0/A ²⁾	1000	250	250	25,1	198,27	157275
EN 1020.1 ¹⁾³⁾	500	250	250	12,4	198,27	157277
EN 1030.0	1000	305	305	27,4	248,27	157279

Channels with linear fall

Product description	Length [mm]	Total height h1 [mm]	Total height h2 [mm]	Weight [kg]	Inlet sectional area** [cm²]	EDP Number 010...
EN 1001	1000	150	155	17,1	103,27	157207
EN 1002	1000	155	160	17,1	108,27	157209
EN 1003	1000	160	165	17,6	113,27	157211
EN 1004	1000	165	170	17,6	118,27	157213
EN 1005 ¹⁾	1000	170	175	18,1	123,27	157215
EN 1005/A ²⁾	1000	170	175	18,1	123,27	157217
EN 1006	1000	175	180	19,1	128,27	157225
EN 1007	1000	180	185	19,1	133,27	157227
EN 1008	1000	185	190	19,6	138,27	157229
EN 1009	1000	190	195	19,6	143,27	157231
EN 1010 ¹⁾	1000	195	200	20,1	148,27	157233
EN 1010/A ²⁾	1000	195	200	20,1	148,27	157235
EN 1011	1000	200	205	21,1	153,27	157243
EN 1012	1000	205	210	21,1	158,27	157245
EN 1013	1000	210	215	21,6	163,27	157247
EN 1014	1000	215	220	21,6	168,27	157249
EN 1015 ¹⁾	1000	220	225	22,1	173,27	157251
EN 1015/A ²⁾	1000	220	225	23,1	173,27	157253
EN 1016	1000	225	230	23,1	178,27	157261
EN 1017	1000	230	235	23,1	183,27	157263
EN 1018	1000	235	240	23,6	188,27	157265
EN 1019	1000	240	245	23,6	193,27	157267
EN 1020 ¹⁾	1000	245	250	24,1	198,27	157269
EN 1020/A ²⁾	1000	245	250	25,1	198,27	157271

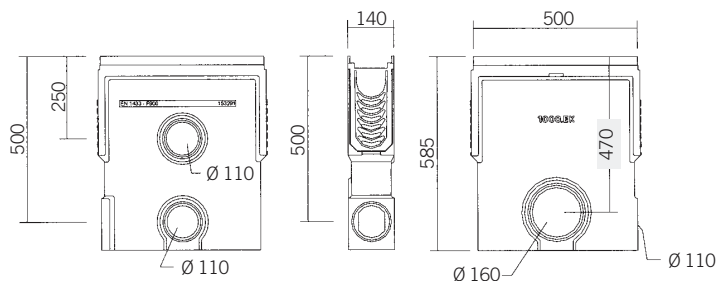
¹⁾ Channel element suitable for connection to a vertical Ø 110 outlet connector, a silt box or an end cap with an outlet connector

²⁾ Channel element with HD-PE outlet connector Ø 110 with sealing ring

³⁾ Channel element suitable for corner and cross junction connection

** Cross sectional area from the grating surface to the invert of the channel

Silt box EN 1000.EK

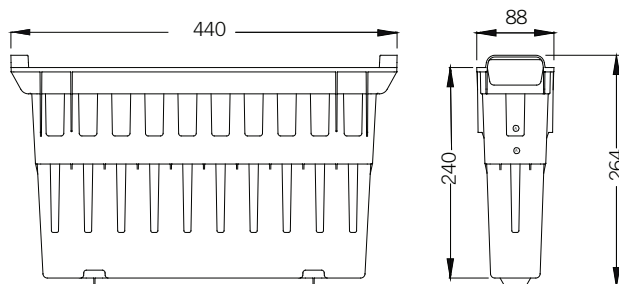


Description and sizes

- ◆ Integrated cast iron edge protection
- ◆ Sediment bucket included
- ◆ Suitable for installation of MEADRAIN Top 1000 grating covers with PROFIX or CLIPFIX boltless locking systems or standard locking mechanisms
- ◆ Pre-formed knockouts for breaking out, making the perfect connection of the channel types 1000, 1005, 1010, 1015, 1020 and 1030
- ◆ Connection facility for outlet connector Ø 110 and Ø 160

◆ EDP-Number:	010157291	◆ Length:	500 mm
◆ Total height:	585 mm	◆ Weight:	30,5 kg
◆ Total width:	140 mm		

Sediment bucket for silt box EN 1000.EK-S

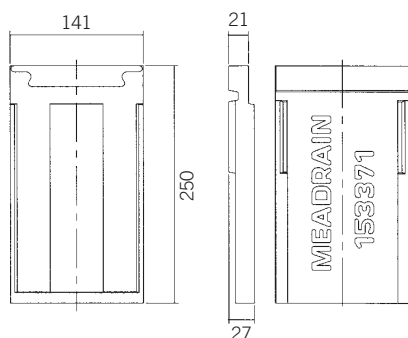


Description and sizes

- ◆ Optimized slot design for achieving best discharge rates
- ◆ Material: HD-PE
- ◆ Silt box EN 1000.EK already includes sediment bucket

◆ EDP-Number:	010710065	◆ Length:	440 mm
◆ Total height:	264 mm	◆ Weight:	0,38 kg
◆ Total width:	88 mm		

End caps for channel start and channel end EN 1000.SE/EN 1030.SE



Description and sizes

- ◆ Edge protection: cast iron
- ◆ Suitable for channel types 1000.0 – 1020.0

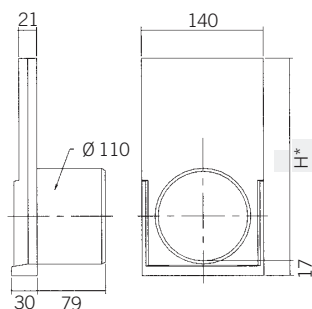
1030.0

EN 1000.SE

EN 1030.SE

- | | | |
|-----------------|-----------|-----------|
| ◆ EDP-Number: | 010153371 | 010153389 |
| ◆ Total height: | 250 mm | 305 mm |
| ◆ Total width: | 141 mm | 141 mm |
| ◆ Total weight: | 1,3 kg | 1,8 kg |

End caps for channel end EN 1000.E



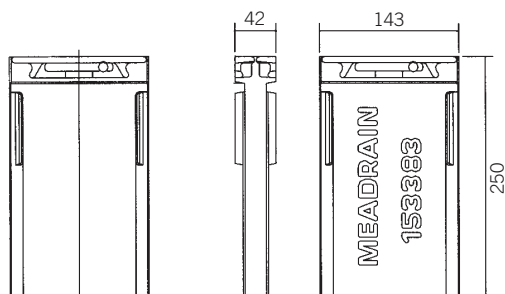
H* = internal channel height

Description and sizes

- ◆ Edge protection: cast iron
- ◆ HD-PE outlet connector Ø 110
- ◆ Suitable for channel types 1000, 1005, 1010, 1015 and 1020

- | | EN 1000.E | EN 1005.E | EN 1010.E | EN 1015.E | EN 1020.E |
|----------------|-----------|-----------|-----------|-----------|-----------|
| ◆ EDP-Number: | 010153373 | 010153375 | 010153377 | 010153379 | 010153381 |
| ◆ Height (H): | 133 mm | 158 mm | 183 mm | 208 mm | 233 mm |
| ◆ Total width: | 140 mm | 140 mm | 140 mm | 140 mm | 140 mm |
| ◆ Weight: | 1,1 kg | 1,3 kg | 1,6 kg | 1,8 kg | 2,0 kg |

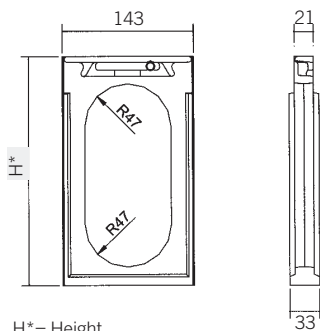
End caps for change at channel run high point EN 1000.RWH



Description and sizes

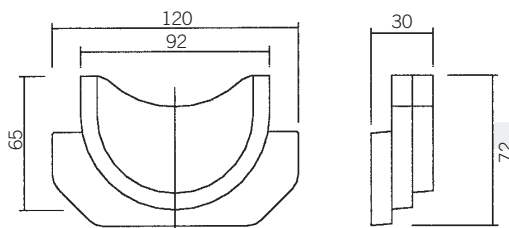
- ◆ Edge protection: cast iron
- ◆ Suitable for all channels EN 1000
- ◆ EDP-Number: 010153383
- ◆ Total height: 250 mm
- ◆ Total width: 143 mm
- ◆ Weight: 1,3 kg

End caps for change at channel run low point EN 1000.RWT



H* = Height

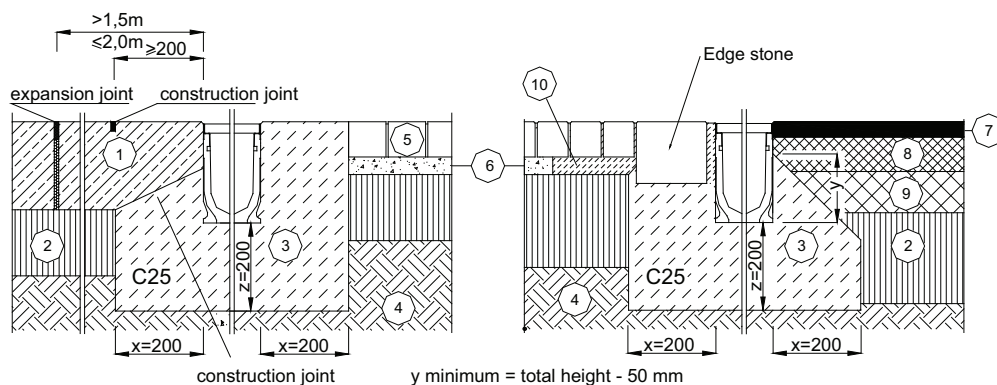
Connecting element for EN 1020.0 to EN 1030.0: EN 1000.EU



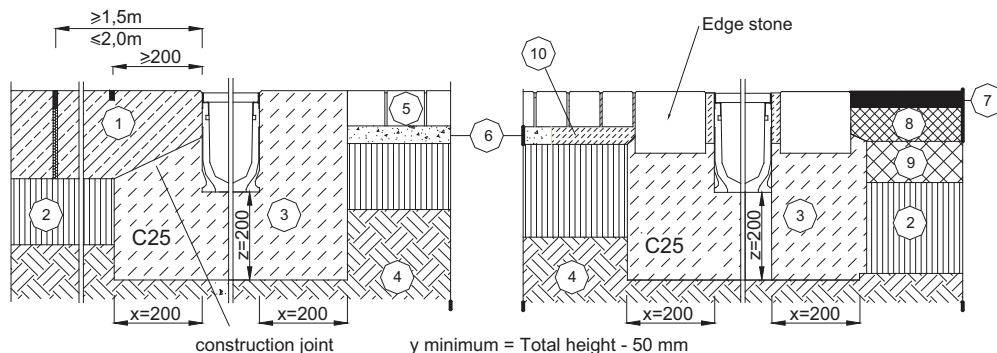
Description and sizes

- | | | | |
|------------------------------|-------------------------|-------------------------|------------------------|
| ◆ Edge protection: cast iron | | | |
| ◆ Suitable for channels: | EN 1015.RWT for EN 1015 | EN 1020.RWT for EN 1020 | EN 1020.0 to EN 1030.0 |
| | EN 1015.RWT | EN 1020.RWT | EN 1000.EU |
| ◆ EDP-Number: | 010153385 | 010153387 | 010153391 |
| ◆ Total height: | 225 mm | 250 mm | 73 mm |
| ◆ Total width: | 143 mm | 143 mm | 120 mm |
| ◆ Weight: | 1,1 kg | 1,1 kg | 0,5 kg |

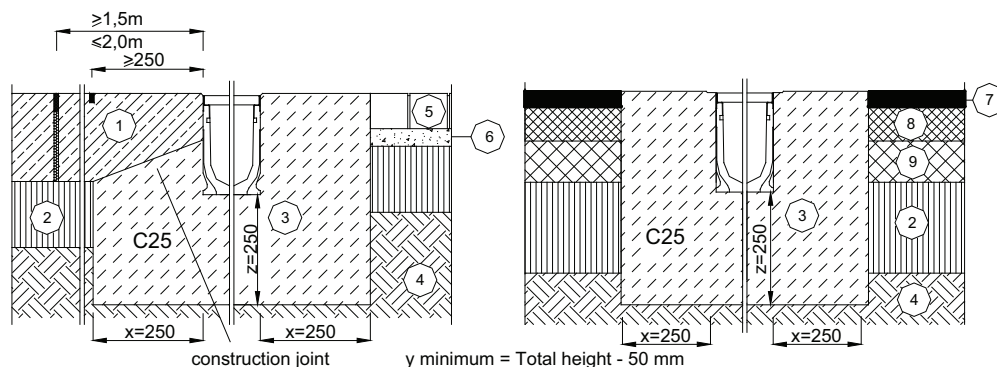
Supreme Loading class D 400*



Supreme Loading class E 600



Supreme Loading class F 900



- | | |
|-------------------|--------------------------|
| ① Concrete | ⑥ Sand layer |
| ② Sub-base | ⑦ Asphalt |
| ③ Concrete haunch | ⑧ Base course |
| ④ Earth | ⑨ Bituminous base course |
| ⑤ Block paving | ⑩ Mortar |

The adjacent surfaces to the channels are to be constructed in such a way that no horizontal forces affect the channel items. Please allow for an overbuild of 3-5mm above the grating surface.

* D 400 unsuitable for cross drainage of high speed roads and motorways