

FLat

The system:

- it supports 3 load classes (A15, B125, C250) in compliance with Standard EN 1433
- it is made up of a channel - entirely made from HD-PE - which needs no strengthening frame
- it has a wide usable section for drainage and uses lightweight gratings with optimised sizes
- it has a small size thanks to its flat bottom to which a convenient drain gate can be screwed, if needed
- it comprises 4 different types of gratings (with rungs, slots, square mesh, anti-heel mesh) made from galvanised steel, stainless steel and ductile iron
- it is supplemented with different fixing systems, which are ideal for all requirements and range from the classic tie-rod to a simple locking system using a protrusion inside the channel
- it is ideal whenever there is little installation space such as in underground car parks or parking decks, flat roofs, terraces
- it is ideal whenever high-quality aesthetic finishes are to be achieved, since the gratings rest directly on the channel's contact surface, thus covering it completely
- it comes complete with drain boxes with siphon
- the range is made up of 2 channels with 1 width and 2 heights (100/55 and 100/80)



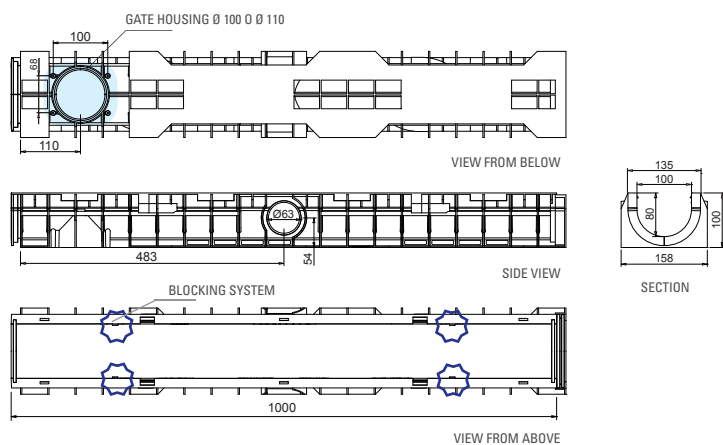


100

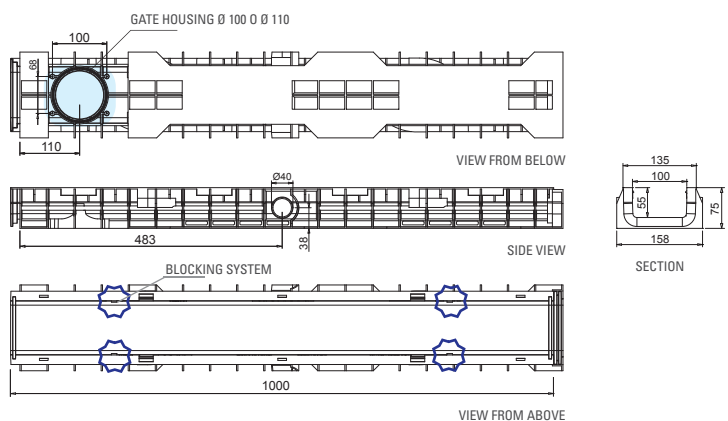


CHANNELS

**FLAT
100**



FLAT 100/80								
CODE	PRICE	MATERIAL	EXTERNAL DIMENSIONS L x l x h	INTERNAL DIMENSIONS L x l x h	WEIGHT	DRAINAGE SURFACE	CAPACITY	PREINSTALLED DRAIN
	€		mm	mm	Kg	cm ²		mm
706000		PE-HD	1000 x 158 x 100	1000 x 100 x 80	1,60	69,28	6,92	side 2 x Ø 63 bottom ¹ 1 x Ø 100; 1 x Ø 110



FLAT 100/55								
CODE	PRICE	MATERIAL	EXTERNAL DIMENSIONS L x l x h	INTERNAL DIMENSIONS L x l x h	WEIGHT	DRAINAGE SURFACE	CAPACITY	PREINSTALLED DRAIN
	€		mm	mm	Kg	cm ²		mm
706001		PE-HD	1000 x 158 x 75	1000 x 100 x 55	1,40	54,44	5,44	side 2 x Ø 40 bottom ¹ 1 x Ø 100; 1 x Ø 110

1- For drainage purposes use the drain gate with outlet kit (available in two versions Ø100 and Ø110).

N.B. Waterproofing: in order to ensure the channels are waterproof, a bituminous adhesive sealant should be used. Heat-sealing the channel joints makes sure there will be no leakages through said joints for a very long time. For further information please contact MufleSystem's Technical Department.

N.B. Sizes and weights are subject to usual manufacturing tolerance values.



GRATINGS



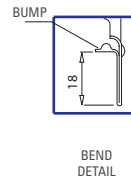
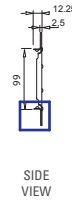
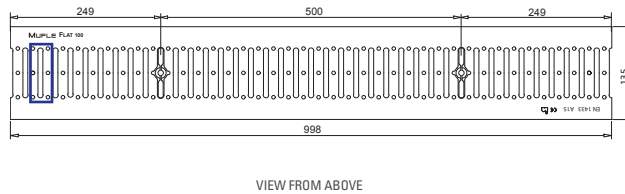
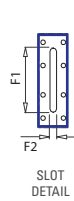
**FLAT
100**

APPLICATIONS OF GALVANISED STEEL

Green areas and parks
Pedestrian areas and/or cycle lanes
Sports facilities
Terraces

APPLICATIONS OF STAINLESS STEEL

Green areas and parks
Pedestrian areas and/or cycle lanes
Sports facilities
Terraces
Kitchens in hospitals, restaurants and similar facilities



SLOTTED GRATING



CODE	PRICE €	MATERIAL	DIMENSIONS L x l x h mm	WEIGHT Kg	DRAINAGE SURFACE cm ²	OPENINGS F1 X F2 mm	FIXING SYSTEM		
							tie-tod	clip	protrusion (no fixing) ⁴
506110		galvanised steel DX51D ³	998 x 135 x 2,5	1,30	2,35	83,0 x 8,5			
506111		pickled stainless steel AISI 304 ²							
506112		galvanised steel DX51D ³	498 x 135 x 2,5	0,65	1,175				
506113		pickled stainless steel AISI 304 ²							

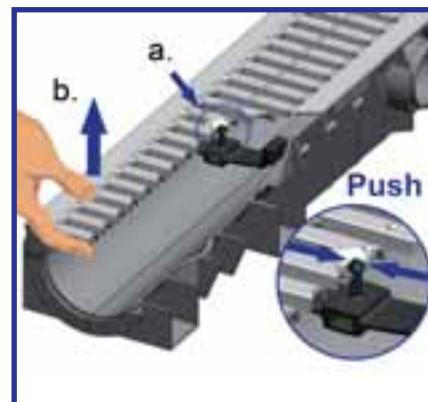
GRATING ASSEMBLY BY MEANS OF CLIPS

- Place the grating on the channel. Match the head of the FLAT clips with the special holes on the grating;
- Press by hand on the grating until it gets completely hooked.



DISASSEMBLY OF THE GRATING

- Press slightly on the head of the FLAT clips until the grating gets unhooked;
- Lift it out.



The FLAT clip makes it possible to fix the FLAT rung gratings quickly and safely with neither nuts nor bolts!!!

2- Classification according to American Standard ASTM.

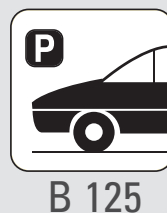
3- Classification according to Standard EN 10142 (2002) and symbolic designation according to EN 10027-1 (-2) (2006).

4- SHooking system using a protrusion inside the channel. The blocking system does not fix the grating to the channel. Either the tie-rod or the clip system should be used for steadyfixing.

N.B. Sizes and weights are subject to usual manufacturing tolerance values.



GRATINGS



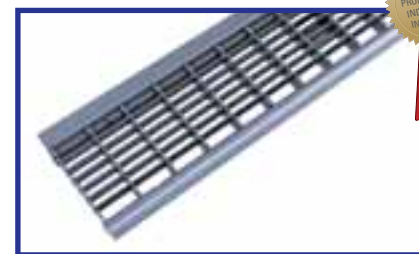
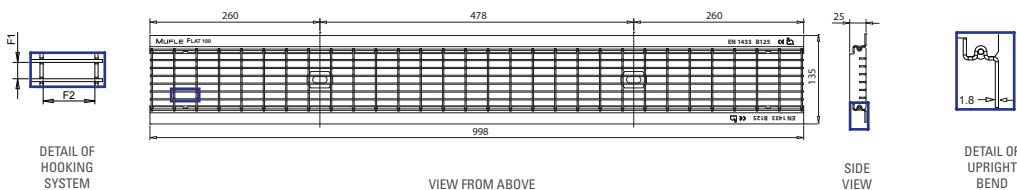
**flat
100**

APPLICATIONS OF GALVANISED STEEL

Pavements
Lay-bys and private car parks

APPLICATIONS OF STAINLESS STEEL

Pavements
Lay-bys and private car parks
Food factories
Chemically aggressive environments

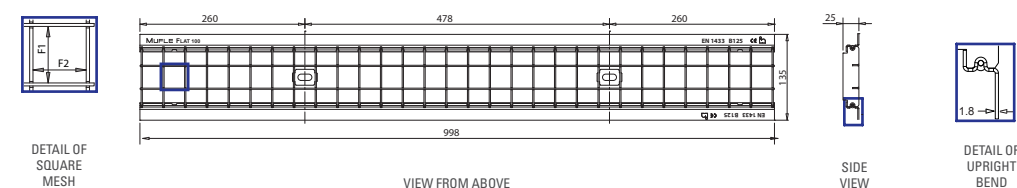


PATENT PRODUCT FOR INDUSTRIAL INVENTION

ANTI-HEEL MESH GRATING



CODE	PRICE €	MATERIAL	DIMENSIONS L x l x h mm	WEIGHT Kg	DRAINAGE SURFACE cm ²	OPENINGS F1 X F2 mm	FIXING SYSTEM	
							tie-tod	protrusion (no fixing) ⁴
506102		hot dip galvanised steel DD11 (1.0332) ⁵	998 x 135 x 1,8	3,30	7,05	10,2 x 32,2		
506106		pickled stainless steel AISI 304 ²						
506104		hot dip galvanised steel DD11 (1.0332) ⁵	498 x 135 x 1,8	1,65	3,525			
506108		pickled stainless steel AISI 304 ²						



PATENT PRODUCT FOR INDUSTRIAL INVENTION

SQUARE MESH GRATING



CODE	PRICE €	MATERIAL	DIMENSIONS L x l x h mm	WEIGHT Kg	DRAINAGE SURFACE cm ²	OPENINGS F1 X F2 mm	FIXING SYSTEM	
							tie-tod	protrusion (no fixing) ⁴
506103		hot dip galvanised steel DD11 (1.0332) ⁵	998 x 135 x 1,8	2,80	7,10	34,2 x 32,2		
506107		pickled stainless steel AISI 304 ²						
506105		hot dip galvanised steel DD11 (1.0332) ⁵	498 x 135 x 1,8	1,40	3,55			
506109		pickles stainless steel AISI 304 ²						

2- Classification according to American Standard ASTM.

4- Hooking system using a protrusion inside the channel. The blocking system does not fix the grating to the channel. Either the tie-rod or the clip system should be used for steady fixing.

5- Classification according to Standard EN 10111 (2008) and symbolic designation according to EN 10027-1 (-2) (2006).

N.B. Sizes and weights are subject to usual manufacturing tolerance values.



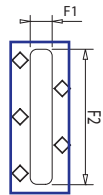
GRATINGS



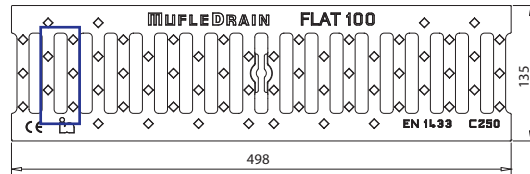
**FLAT
100**

APPLICATIONS OF DUCTILE IRON

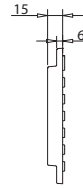
- Kerbs
- Historical town centres (slow traffic)
- Parking areas
- Parking decks



SLOT
DETAIL



VIEW FROM ABOVE




SIDE
VIEW



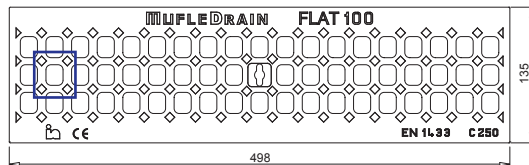
SLOTTED GRATING 13 mm



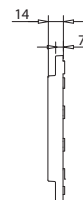
CODE	PRICE €	MATERIAL	DIMENSIONS L x l x h mm	WEIGHT Kg	DRAINAGE SURFACE cm ²	OPENINGS F1 X F2 mm	FIXING SYSTEM	
							tie-tod	no fixing
506100		GJS 500/7 ⁶ ductile iron water based paint coated	498 x 135 x 6	3,50	1,90	13,0 x 80,0		up to Class C250 as per Standard EN 1433



SLOT
DETAIL



VIEW FROM ABOVE

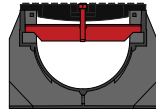


SIDE
VIEW



MESH GRATING



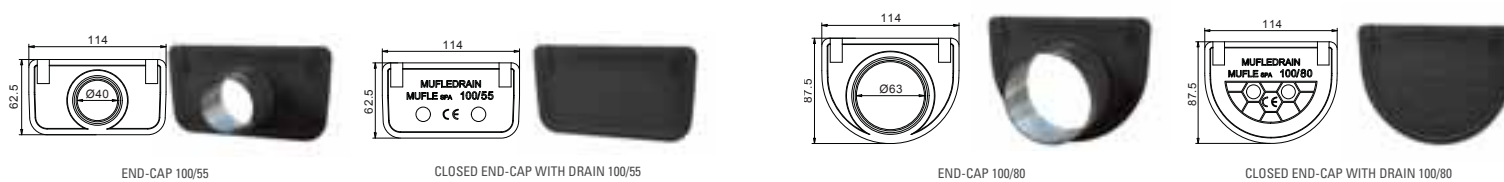
CODE	PRICE €	MATERIAL	DIMENSIONS L x l x h mm	WEIGHT Kg	DRAINAGE SURFACE cm ²	OPENINGS F1 X F2 mm	FIXING SYSTEM	
							tie-tod	no fixing
506101		GJS 500/7 ⁶ ductile iron water based paint coated	498 x 135 x 7	3,30	2,15	21,0 x 17,0		up to Class C250 as per Standard EN 1433

6- Classification according to Standard EN 1563 (2009).
N.B. Sizes and weights are subject to usual manufacturing tolerance values.



ACCESSORIES

**FLAT
100**



END-CAP 100/55

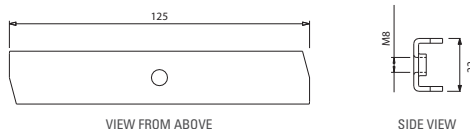
CLOSED END-CAP WITH DRAIN 100/55

END-CAP 100/80

CLOSED END-CAP WITH DRAIN 100/80

END CAPS

CODE	PRICE €	TYPE	MATERIAL	VALID FOR CHANNELS	PREINSTALLED DRAIN
700500		end-cap with drain	PE-HD	100/55	1 x Ø 40
700508		closed end-cap	PE-HD	100/55	-
700501		end-cap with drain	PE-HD	100/80	1 x Ø 63
700509		closed end-cap	PE-HD	100/80	-



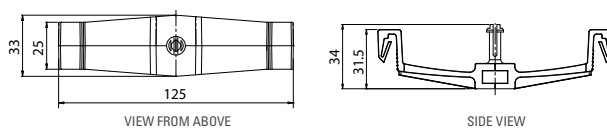
VIEW FROM ABOVE

SIDE VIEW



KIT TIE-ROD + SCREWS

CODE	PRICE €	MATERIAL	VALID FOR GRATINGS	SCREW	KIT FOR 1 ml
500412		galvanised steel	FLAT galvanised steel	M8 x 40 TBL combi	2 tie-rods + 2 screws
500413		stainless steel	FLAT stainless steel	M8 x 40 TBL combi stainless steel	2 tie-rods + 2 screws
500414		black galvanised steel	FLAT ductile iron	M8 x 40 black with hexagonal head	2 tie-rods + 2 screws



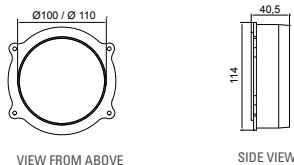
VIEW FROM ABOVE

SIDE VIEW



KIT CLIP

CODE	PRICE €	MATERIAL	VALID FOR GRATINGS	KIT FOR 1 ml
511212		PE-HD	FLAT slotted galvanised steel - stainless steel	2 clip



VIEW FROM ABOVE

SIDE VIEW



KIT OUTLET + SCREWS

CODE	PRICE €	MATERIAL	VALID FOR CHANNELS	DIAMETER mm	KIT FOR 1 ml
506114		PE-HD	100/55 - 100/80	Ø 100	1 outlet Ø 100 + 4 screws
506115		PE-HD	100/55 - 100/80	Ø 110	1 outlet Ø 110 + 4 screws

N.B. Sizes and weights are subject to usual manufacturing tolerance values.

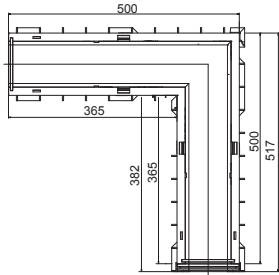


SPECIAL PIECES

**FLAT
100**

LEFT CORNER

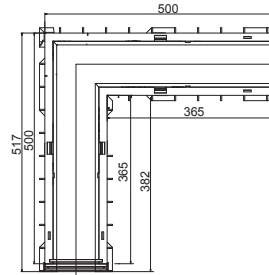
FLAT 100



CODE	PRICE €	MODEL
706100		100/80
706101		100/55

RIGHT CORNER

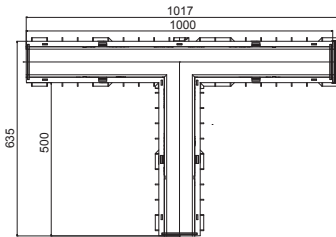
FLAT 100



CODE	PRICE €	MODEL
706102		100/80
706103		100/55

LEFT TI

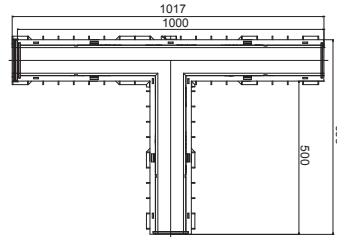
FLAT 100



CODE	PRICE €	MODEL
706104		100/80
706105		100/55

RIGHT TI

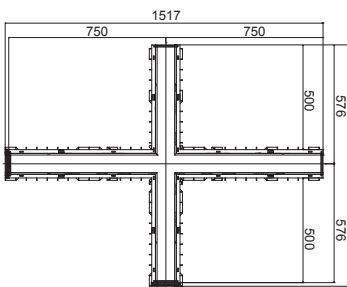
FLAT 100



CODE	PRICE €	MODEL
706106		100/80
706107		100/55

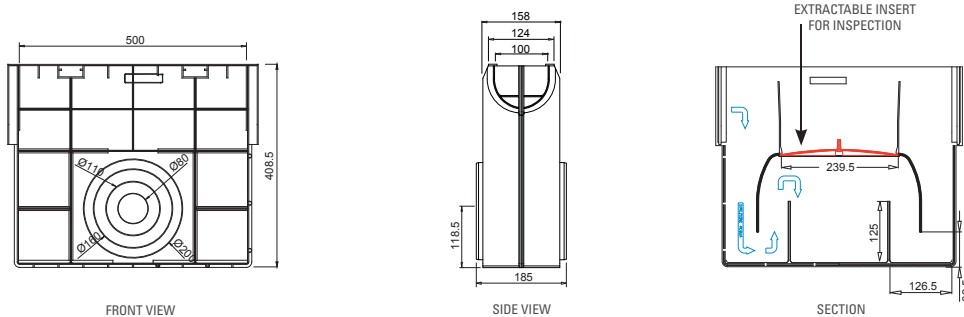
CROSS

FLAT 100



CODE	PRICE €	MODEL
706108		100/80
706109		100/55

DRAIN BOX WITH SYPHON



FLAT 100

CODE	PRICE €	MATERIAL	EXTERNAL DIMENSIONS L x l x h mm	INTERNAL DIMENSIONS L x l x h mm	MAXIMUM LARGE mm	HEIGHT OF OUTLETS mm	WEIGHT Kg	PREINSTALLED DRAIN mm
706002		PE-HD	500 x 124 x 408,5	500 x 100 x 400	158	118,5	2,50	2 x Ø 80; 2 x 110 2 x Ø 160; 2 x Ø 200

N.B. Sizes and weights are subject to usual manufacturing tolerance values.