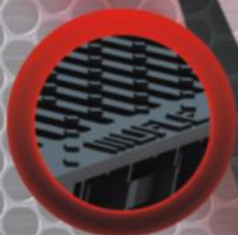


2011

MUFLE
PASSION FORDRAINAGE

MUFLESYSTEM
GENERAL CATALOGUE



WING

The System:

- it supports 4 load classes (D210, E400, F600, G900) in compliance with Standard AS3996
- it is made up of a HD-PE channel with a strengthening frame
- it is very compact, since the frame is perfectly anchored to the channel body. The frame is made from materials able to resist corrosion due to contact with the surrounding environment and the gratings. The anchoring system was designed to withstand any deformation due shearing or torsional stress
- it is wearproof and very solid thanks to the frame, which ensures a 4 mm - thick drive-over edge and a 2 mm - thick contact surface in compliance with Standard AS3996 on classes subject to heavy loads
- it comes complete with an innovative grating for draining asphalt in E400 which has slots in the upper and side sections in order to receive the liquids from the road surface - both surface liquids and liquids absorbed by the draining asphalt
- it has tie-rod and screw fixing systems; and a convenient drain gate
- it is ideal for medium-to-heavy uses, exhibition areas, parking decks, road carriageways, parking areas, service areas, industrial areas, ports and airports, areas where containers are (un)loaded
- it comes complete with drain gullies with siphon
- the range is made up of 8 channels with 3 widths and 6 heights(100/55, 100/80, 100/100, 100/160, 200/100, 200/160, 200/250, 300/300)
- the range is supplemented with the WING channel with ductile cast-iron strengthening frame - length 1.5m and usable dimensions 300mm x 300mm. Designed to drain large surfaces





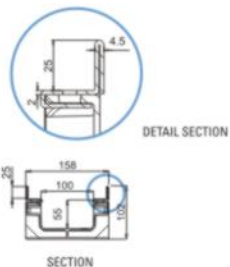
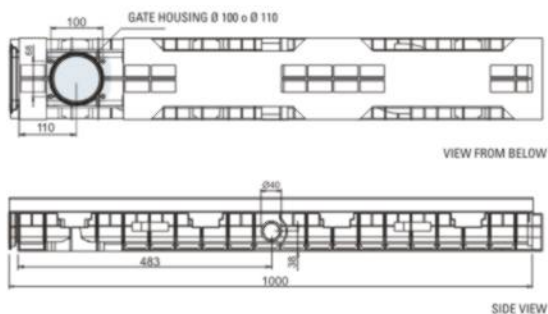
100



CHANNELS

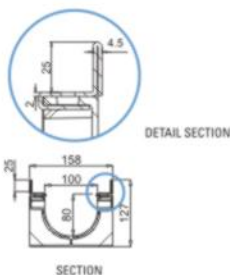
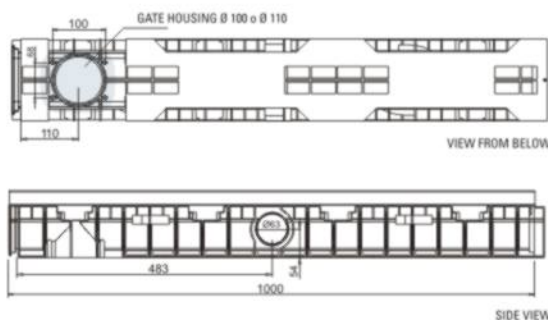


WING 100



WING 100/55

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm
703003	galvanised steel DX51D**	HD-PE	1000 x 158 x 102	1000 x 100 x 55	3.90	54.44	5.44	side 2 x Ø 40
703011	stainless steel AISI 304*							bottom*** 1 x Ø 100 ; 1 x Ø 110



WING 100/80

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm
703002	galvanised steel DX51D**	HD-PE	1000 x 158 x 127	1000 x 100 x 80	4.10	69.28	6.92	side 2 x Ø 63
703010	stainless steel AISI 304*							bottom*** 1 x Ø 100 ; 1 x Ø 110

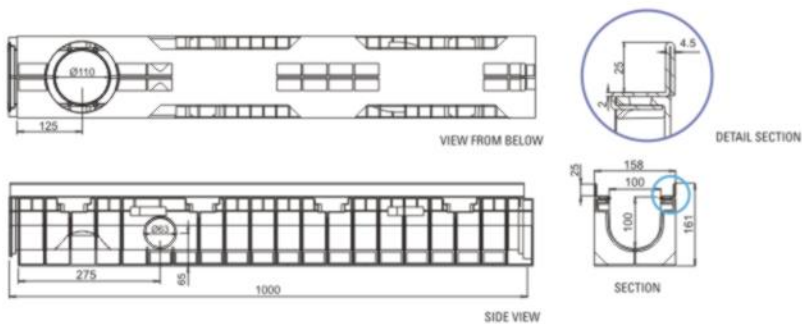
§ Waterproofing: in order to ensure the channels are waterproof, a bituminous adhesive sealant should be used. Heat-sealing the channel joints makes sure there will be no leakages through said joints. For further information please contact Mufle's Technical Department.
N.B. Sizes and weights are subject to usual manufacturing tolerance values.



CHANNELS

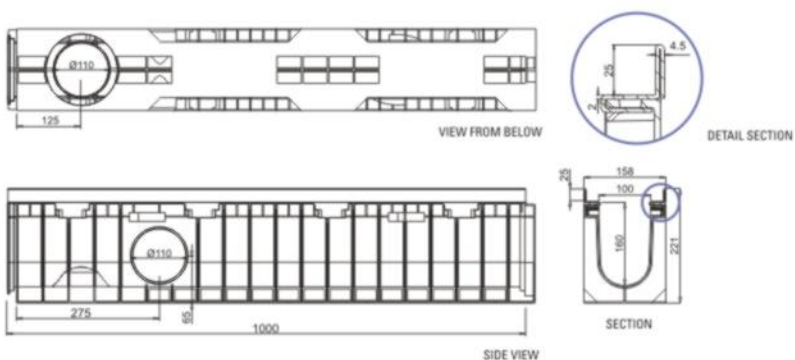


WING 100



WING 100/100

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm	
703001	galvanised steel DX51D**	HD-PE	1000 x 158 x 161	1000 x 100 x 100	4.40	89.56	8.95	side	2 x Ø 63
703009	stainless steel AISI 304*							bottom	1 x Ø 110



WING 100/160

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm	
703000	galvanised steel DX51D**	HD-PE	1000 x 158 x 221	1000 x 100 x 160	4.90	145.28	14.52	side	2 x Ø 110
703008	stainless steel AISI 304*							bottom	1 x Ø 110

§ 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 further information please contact Mufle's Technical Department.

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



GRATINGS

WING 100

APPLICATIONS OF DUCTILE IRON (dependent on load rating required)

Road Carriageways
Hard Shoulders
Lay-bys with thick and heavy-duty goods traffic
Petrol Stations
Industrial Areas - high axle loads
Underpasses
Port & Airport areas

SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503108	D210	GJS 500/7* ductile iron water based paint coated	498 x 148 x 25	4.65	1.94	82.0 x 20.0	

SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503109	E400	GJS 500/7* ductile iron water based paint coated	498 x 148 x 25	4.75	1.94	82.0 x 20.0	

SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503110	F600	GJS 500/7* ductile iron water based paint coated	498 x 148 x 25	5.10	1.94	82.0 x 20.0	



GRATINGS

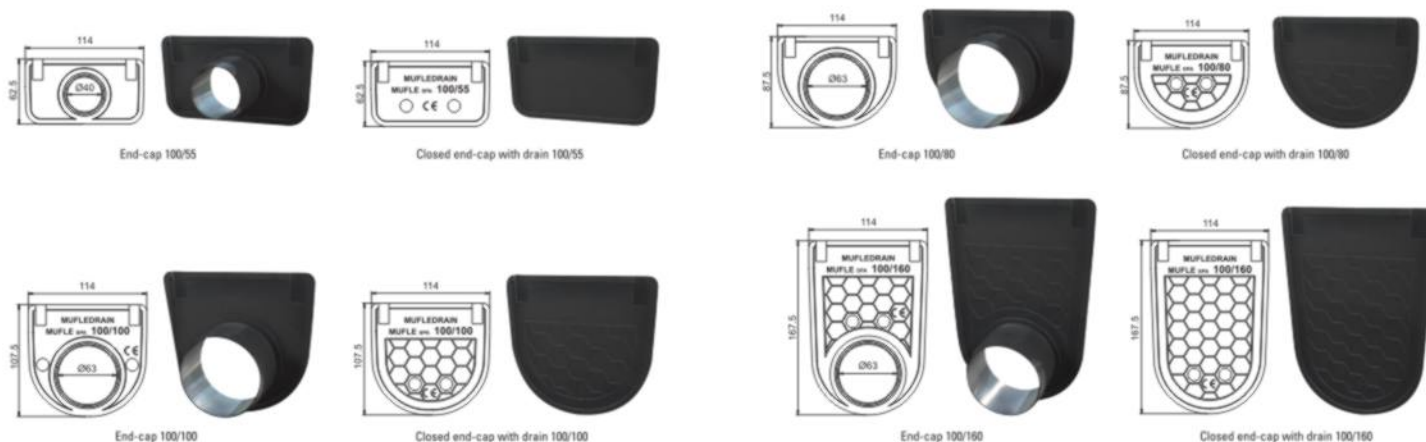
WING 100

HEELGUARD GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x Wx H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503418	F600	GJS 500/7* ductile iron water based paint coated	498 x 148 x 25	4.90	2.13	105.5 x 6,0	

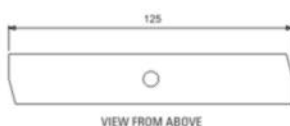
SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x Wx H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503173	G900	GJS 500/7* ductile iron water based paint coated	498 x 148 x 25	6.30	1.94	82.0 x 20.0	



END CAPS

CODE	TYPE	MATERIAL	VALID FOR CHANNELS	PREINSTALLED DRAINS mm
700500	end-cap with drain	HD-PE	100/55	1 x Ø 40
700508	closed end-cap	HD-PE	100/55	-
700501	end-cap with drain	HD-PE	100/80	1 x Ø 63
700509	closed end-cap	HD-PE	100/80	-
700502	end-cap with drain	HD-PE	100/100	1 x Ø 63
700510	closed end-cap	HD-PE	100/100	-
700503	end-cap with drain	HD-PE	100/160	1 x Ø 63
700511	closed end-cap	HD-PE	100/160	-



KIT TIE-ROD + SCREWS

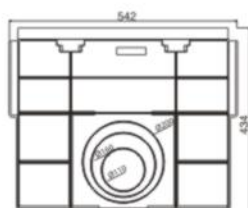
CODE	MATERIAL	VALID FOR GRATINGS	SCREW	KIT FOR 1 ml
500421	galvanised steel	WING galvanised steel	M8 x 55 TBL combi	2 tie-rods + 2 screws
500422	stainless steel	WING stainless steel	M8 x 55 TBL combi	2 tie-rods + 2 screws



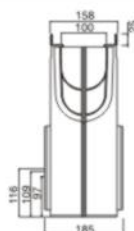
KIT SCREWS

CODE	MATERIAL	VALID FOR GRATINGS	SCREW	KIT FOR 1 ml
503312	black galvanised steel	WING ductile iron	M8 x 40 black with flanged hexagonal head	8
503313	galvanised steel	WING galvanised steel	M8 x 20 TBL combi	4
503314	stainless steel	WING stainless steel	M8 x 20 TBL combi	4

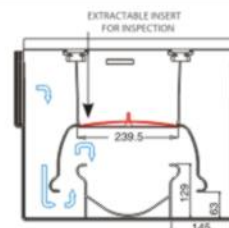
DRAIN BOX WITH SYPHON



FRONT VIEW



SIDE VIEW



SECTION

SMART 100

CODE	MATERIAL OF FRAME	MATERIAL OF OUTLET	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	MAXIMUM LARGE mm	HEIGHT OF OUTLETS mm	WEIGHT kg	PREINSTALLED DRAIN OUTLETS mm
703016	galvanised steel DX51D**	HD-PE	542 x 158 x 434	500 x 100 x 400	185	116 - 109 - 97	3.75	2 x Ø 110 ; 2 x Ø 160 ; 2 x Ø 200
703019	stainless steel AISI 304**	HD-PE	542 x 158 x 434	500 x 100 x 400	185	116 - 109 - 97	3.75	2 x Ø 110 ; 2 x Ø 160 ; 2 x Ø 200



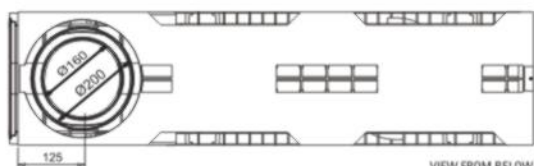
200



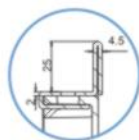
CHANNELS



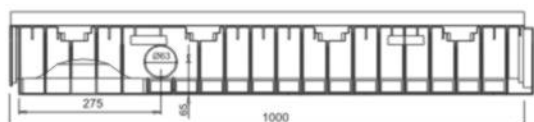
WING 200



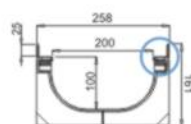
VIEW FROM BELOW



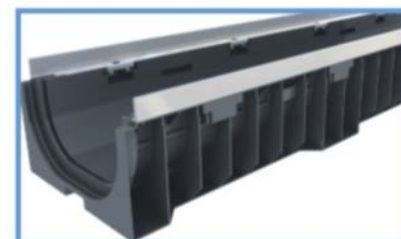
DETAIL SECTION



SIDE VIEW

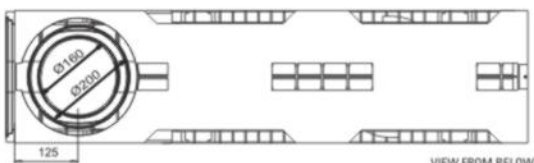


SECTION

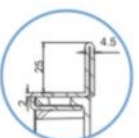


WING 200/100

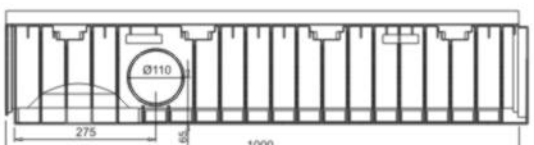
CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm
703007	galvanised steel DX51D**	HD-PE	1000 x 258 x 161	1000 x 200 x 100	5.15	178.73	17.87	side
703015	stainless steel AISI 304*							bottom 2 x Ø 110 1 x Ø 160; 1 x Ø 200



VIEW FROM BELOW



DETAIL SECTION



SIDE VIEW



SECTION



WING 200/160

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm
703006	galvanised steel DX51D**	HD-PE	1000 x 258 x 221	1000 x 200 x 160	5.75	275.87	27.58	side
703014	stainless steel AISI 304*							bottom 2 x Ø 110 1 x Ø 160; 1 x Ø 200

§ 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 further information please contact Mufle's Technical Department.

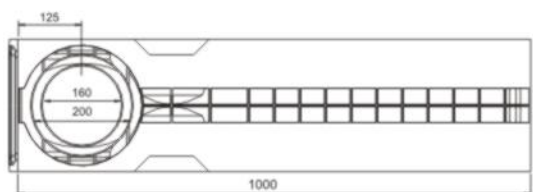
N.B. Sizes and weights are subject to usual manufacturing tolerance values.



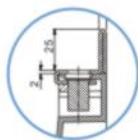
CHANNELS



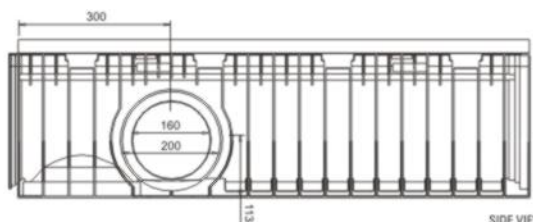
WING 200



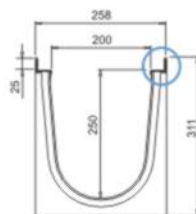
VIEW FROM BELOW



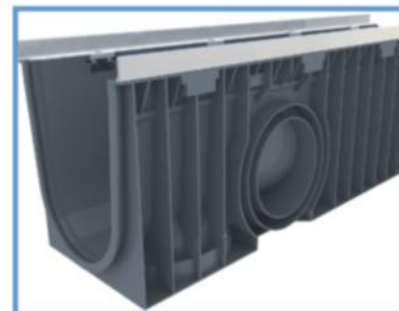
DETAIL SECTION



SIDE VIEW



SECTION



WING 200/250

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLET mm
503025	galvanised steel DX51D**	HD-PE	1000 x 258 x 311	1000 x 200 x 250	7.50	430.00	43.00	side
503028	stainless steel AISI 304*							bottom

§ 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 further information please contact Mufle Technical Department.

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

APPLICATIONS OF DUCTILE IRON

(dependent on load rating required)

Road Carriageways

Hard Shoulders

Lay-bys with thick and heavy-duty goods traffic

Petrol Stations

Industrial Areas - high axle loads

Underpasses

Port & Airport areas

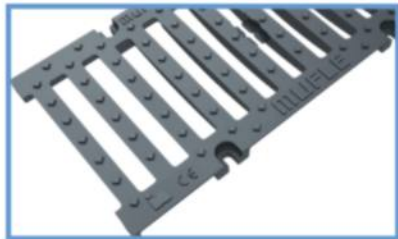
SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503114	D210	GJS 500/7* ductile iron water based paint coated	498 x 248 x 25	7	4.32	182.0 x 20.0	

MESH GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503184	E400	GJS 500/7* ductile iron water based paint coated	498 x 248 x 25	9.40	5.18	24.0 x 24.0	

SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503115	E400	GJS 500/7* ductile iron water based paint coated	498 x 248 x 25	8.50	4.32	182.0 x 20.0	

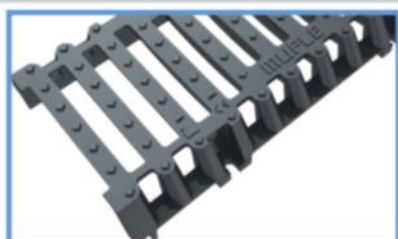
SLOTTED GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	FIXING SYSTEM screw
503116	F600	GJS 500/7* ductile iron water based paint coated	498 x 248 x 25	9.70	4.32	180.0 x 20.0	

SLOTTED GRATING

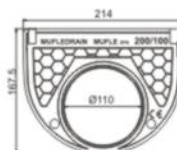
CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503175	G900	GJS 500/7* ductile iron water based paint coated	498 x 248 x 25	10.50	4.32	182.0 x 20.0	

DRAINING ASPHALT GRATING

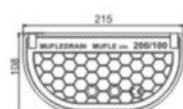
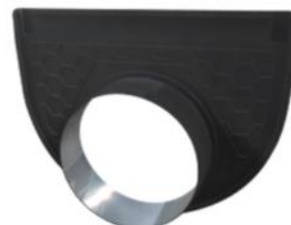
CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503181	E400	GJS 500/7* ductile iron water based paint coated	498 x 248 x 25	11.50	top 4,08 side 1.44	side 180.0 x 20.0	



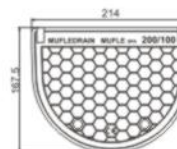
End-cap 200/100



End-cap 200/160



Closed end-cap with drain 200/100

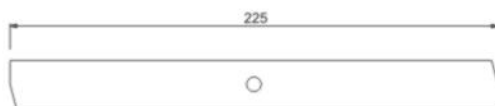


Closed end-cap with drain 200/160



END CAPS

CODE	TYPE	MATERIAL	VALID FOR CHANNELS	PREINSTALLED DRAINS
				mm
700506	end-cap with drain	HD-PE	200/100	1 x Ø 63
700514	closed end-cap	HD-PE	200/100	-
700507	end-cap with drain	HD-PE	200/160	1 x Ø 110
700515	closed end-cap	HD-PE	200/160	-
502414	end-cap with drain	galvanised steel and PVC	200/250	1 x Ø 160
502413	closed end-cap	galvanised steel	200/250	-



VIEW FROM ABOVE



SIDE VIEW



KIT TIE-ROD + SCREWS

CODE	MATERIAL	VALID FOR GRATINGS	SCREW	KIT FOR 1 ml
500427	galvanised steel	WING galvanised steel	M8 x 55 TBL combi	2 tie-rods + 2 screws
500428	stainless steel	WING stainless steel	M8 x 55 TBL combi	2 tie-rods + 2 screws



KIT SCREWS

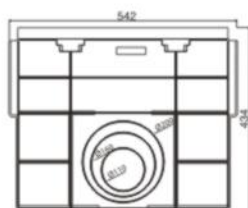
CODE	MATERIAL	VALID FOR GRATINGS	SCREW	KIT FOR 1 ml
503312	black galvanised steel	WING ductile iron	M8 x 40 black with flanged hexagonal head	8
503313	galvanised steel	WING galvanised steel	M8 x 20 TBL combi	4
503314	stainless steel	WING stainless steel	M8 x 20 TBL combi	4



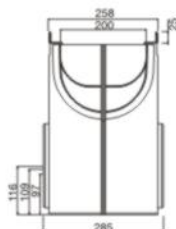
SPECIAL PIECES AND DRAIN BOX WITH SYPHON

WING 200

DRAIN BOX WITH SYPHON



FRONT VIEW



SIDE VIEW



SECTION

WING 200

CODE	MATERIAL OF FRAME	MATERIAL OF OUTLET	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	MAXIMUM LARGE mm	HEIGHT OF OUTLETS mm	WEIGHT kg	PREINSTALLED DRAIN OUTLETS mm
703018	galvanised steel DX51D**	HD-PE	542 x 258 x 434	500 x 200 x 400	285	116 - 109 - 97	4.20	2 x Ø 110; 2 x Ø 160; 2 x Ø 200
703020	stainless steel AISI 304*	HD-PE	542 x 258 x 434	500 x 200 x 400	285	116 - 109 - 97	4.20	2 x Ø 110; 2 x Ø 160; 2 x Ø 200



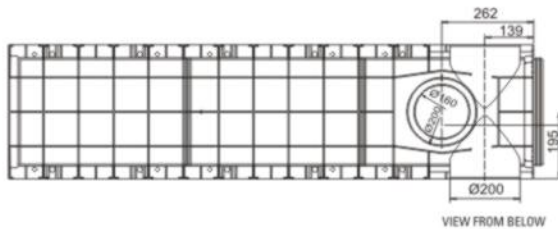
300



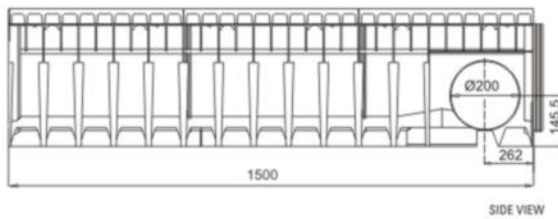
CHANNELS



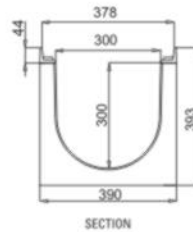
WING 300



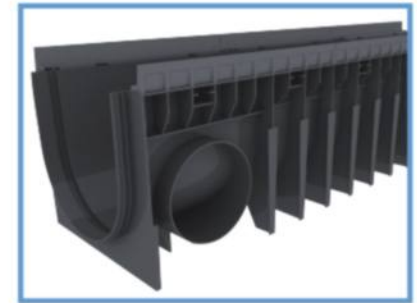
VIEW FROM BELOW



SIDE VIEW



SECTION



WING 300/300

CODE	MATERIAL OF FRAME	MATERIAL OF CHANNEL	EXTERNAL DIMENSIONS L x W x H mm	INTERNAL DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SECTION cm ²	CAPACITY dm ³	PREINSTALLED DRAIN OUTLETS	
								side bottom	mm
503018	GJS 500/7* ductile iron water based paint coated	HD-PE	1500 x 390 x 393	1500 x 300 x 300	20.90	796.00	79.60	side bottom	2 x Ø 200 1 x Ø 160; 1 x Ø 200

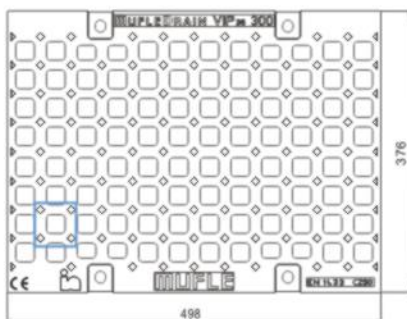
§ Waterproofing: in order to ensure the channels are waterproof, a bituminous adhesive sealant should be used. Heat-sealing the channel joints makes sure there will be no leakages through said joints. For further information please contact Mufle's Technical Department.
N.B. Sizes and weights are subject to usual manufacturing tolerance values.

APPLICATIONS OF DUCTILE IRON (dependent on load rating required)

Road Carriageways
Hard Shoulders
Lay-bys with thick and heavy-duty goods traffic
Petrol Stations
Industrial Areas - high axle loads
Underpasses
Port & Airport areas



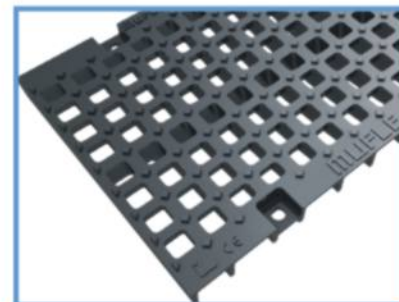
SLOT
DETAIL



VIEW FROM ABOVE



SIDE
VIEW

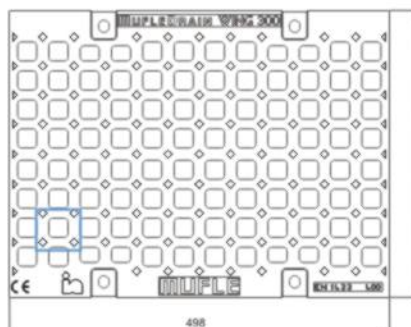


MESH GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503117	D210	GJS 500/7* ductile iron water based paint coated	498 x 376 x 35	16.50	5.96	25.0 x 25.0	



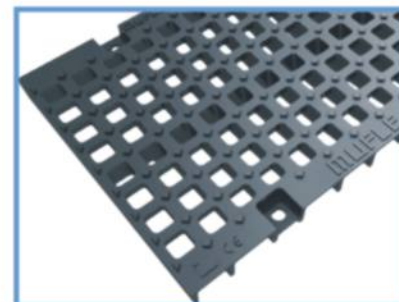
SLOT
DETAIL



VIEW FROM ABOVE

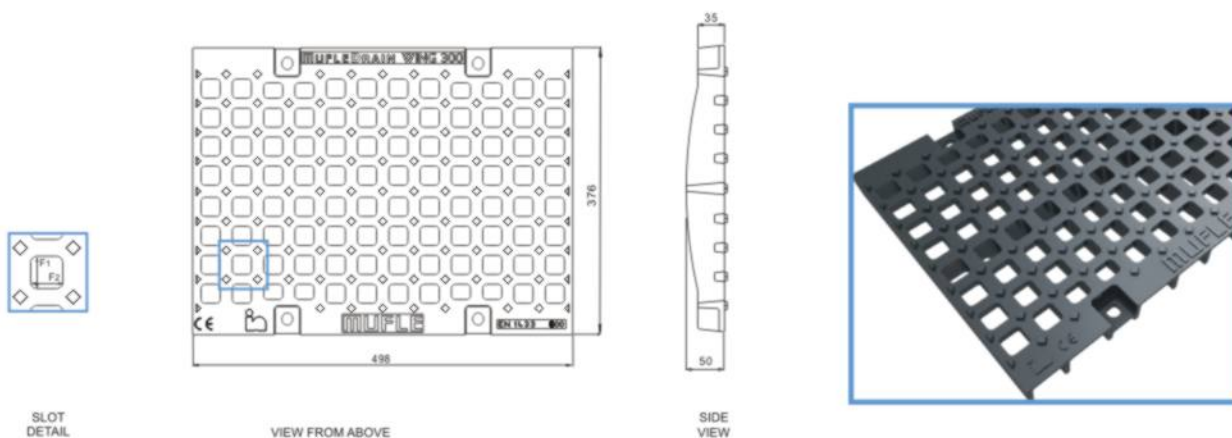


SIDE
VIEW



MESH GRATING

CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503118	E400	GJS 500/7* ductile iron water based paint coated	498 x 376 x 35	21.70	5.96	25.0 x 25.0	

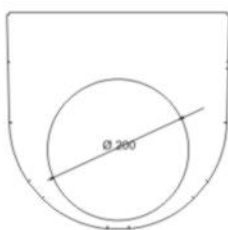


MESH GRATING

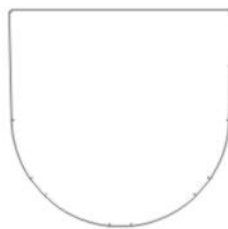
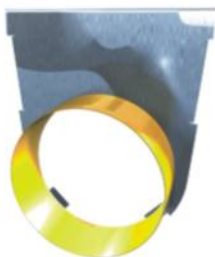
CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503119	F600	GJS 500/7* ductile iron water based paint coated	498 x 376 x 35	21.70	5.96	25.0 x 25.0	

SLOTTED GRATING

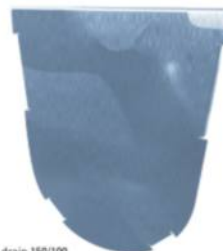
CODE	LOAD CLASS	MATERIAL	DIMENSIONS L x W x H mm	WEIGHT kg	DRAINAGE SURFACE dm ²	OPENINGS mm	
503120	G900	GJS 500/7* ductile iron water based paint coated	498 x 376 x 35	27.50	8.50	130.0 x 24.0	



End-cap 150/100



Closed end-cap with drain 150/100



END CAPS

CODE	MATERIAL	TYPE END-CAP	PREINSTALLED DRAIN OUTLETS
			mm
503411	galvanised steel	closed end-cap 300/300	—
503412	galvanised steel e PVC	end-cap with drain 300/300	1 x Ø 200



KIT NUTS

CODE	MATERIAL	VALID FOR GRATINGS	NUT	KIT FOR 1,5 ml
503309	galvanised steel	WING galvanised steel	Blind hexagonal M10 with spherical cap	8 nuts + 8 washer*
503310	black galvanised steel	WING ductile iron	Blind hexagonal M10 with spherical cap	12 nuts + 12 washer*



SPECIFICATIONS

WING

1. Supply and installation of WING.....(100 or 200) type HD-PE drainage channel with external stiffening ribs and male-female coupling system allowing the assembly between one channel and the next with the relevant pre-assembled gratings. The channel will have the following dimensions: length 1,000 mm, internal net gap ____mm, internal height ____ mm.
2. Supply and installation of MufleDrain WING 300 type HD-PE drainage channel with external stiffening ribs and male-female channel coupling system. The channel will have the following dimensions: length 1,500mm, internal net gap 300mm, internal height 300 mm.
3. Supply and installation of..... ductile cast-iron GJS 500/7 covering gratings according to AS3996 for MufleDrain WING.....(100, 200 or 300) drainage channels with screw fixing system, load class (D210, E400, F600, G900) according to AS3996, slot width 20 mm, length 498 mm, width.....mm.
4. Supply and installation of HD-PE end caps for MufleDrain drainage channel with coupling system into the special channel housing.

MLFLE

Perth Depot

46 Ledger Road
Balcatta, Perth
Western Australia, 6021
Ph: (08) 9240 6170
Fax: (08) 9240 6175
E-mail: sales@burdens.net.au

ISO 9001:2000 Certified Company



Queensland Depot

3505 Pacific Highway
Slacks Creek
Queensland, 4127
Ph: (07) 3290 6121
Fax: (07) 3290 5486
E-mail : qldsales@burdens.net.au