Bielbet®

LINEAR DRAINS

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CONTENTS

INTRODUCTION

Linear and point drains are a perfect solution to collect and drain rain water from pedestrian and vehicular traffic pavements.

Drains can be divided into two types according to the material the draining channel is made of: concrete drains, polymer concrete drains or plastic drains. Additionally, in terms of design, the drains can be monoliths (single piece) or channels with a cover – grate.

We recommend the following products of our portfolio:

- wide selection of linear drains in classes ranging from A15 to F900
- point drains such as: catch basins and downspout catch basins,
- gratings, drive-on lawn grid to harden and stabilize the ground.

Drains are used in residential housing areas, cycle lanes, footpaths, gardens, terraces, areas adjacent to building or garage entrances, parking lots, industrial plant yards, shop floors or filling stations.

Linear and point drains are manufactured according to the following standards: PN-EN 1433:2002/A1:2005, PN-EN124:2000, AT/2014-02-3066, AT/2015-02-3165
WARRANTY – 24 months

LOAD CLASS DEFINITION

Drains are classified according to their use
The choice of a particular load class depends on the place of its assembly
The designer is responsible for the choice of the correct load class
In doubt the choice of a higher class is suggested
Acccording to Polish Norm PNEN 1433 there exist assembly groups of drains

GROUP 1-MIN CLASS A15 A15

Static load 15 kN/cm^2 (1,5t)
The areas may only be used by pedestrians and cyclists

GROUP 2-MIN CLASS B125 B125

Static load 125kN/cm^2 (12,5t)
Pedestrian pavements, pedestrian zones and other similar areas,
car parks or car bays

GROUP 3-MIN CLASS C250 C250

Static load 250kN/cm^2(25t)
Kerb areas, roadside surface free of traffic and similar,
service stations for passenger cars

GROUP 4-MIN CLASS D400 D400

Static load 400kN/cm^2(40t)
Road pavements (including pedestrians), roadsides
and parks for all kinds of road vehicles

GROUP 5-MIN CLASS E600 E600

Static load 600kN/cm^2(60t)
Areas being subject to big loads due to vehicular traffic

GROUP 6-MIN CLASS F900 F900

Static load 900kN/cm^2(90t)
Areas being subject to particulary big loads due to vehicular
traffic e.g. aeroplane runways, military bases

CONCRETE DRAINS

MAIN CHARACTERISTICS OF CONCRETE LINEAR DRAINS:

- drains made of high-class concrete class C35/45
- drains reinforced with a reinforcing construction and polypropylene fiber
- lids bearing areas reinforced with a steel or galvanized strip, anti-corrosion paint
- screwed down lid (anti-theft)
- smooth surface provides fast flow of water
- correct installations ensures high resistance to load
- load class available from A15 to F900

ADDITIONAL ACCESSORIES:

- consolidated system drains
- full end drains
- drain end with place for a stub-pipe

USE:

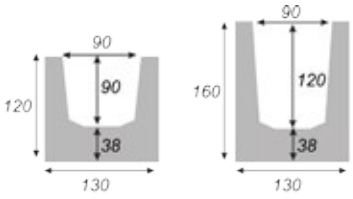
pedestrian and cyclist paths, housing areas, gardens, terraces, building entrances, garage entrances, car parks for cars and lorries, plant squares, production halls, petrol stations, airports.

CONCRETE LINEAR DRAINS 130

CONCRETE TROUGH
with a galvanised cover class A15
1000x130x120

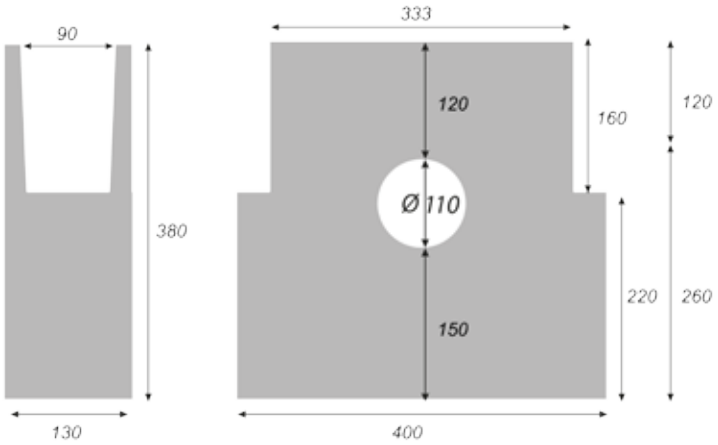
CONCRETE DRAIN
with a galvanised cover class A15
333x130x380

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
1000	130	120
1000	130	160

TECHNICAL SECTIONS OF DRAINS



LENGTH MM	WIDTH MM	HEIGHT MM
333	130	380

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON 	h 120	0001	23	30	
		h 160	0004	28	24	
A15	STAINLESS STEEL 	h 120	0009	23	30	
		h 160	0290	28	24	
B125	CAST IRON 	h 120	0026	29	30	
		h 160	0028	34	24	

DRAINS

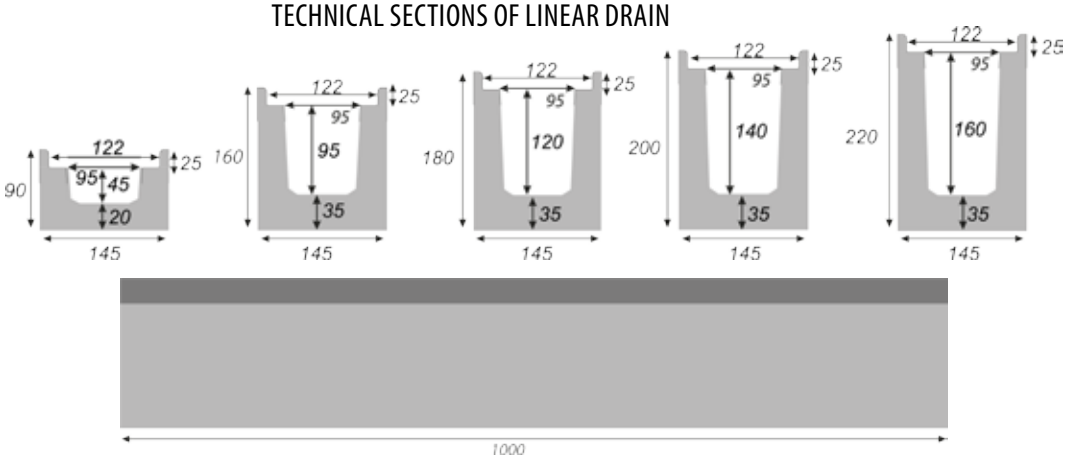
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON 	mini h 120	0046	7	
		h 120	0047	24	
		h 160	0048	22	
A15	STAINLESS STEEL 	h 120	0250	24	
		h 160	0654	22	
B125	CAST IRON 	h 120	0051	28	
		h 160	0052	26	

CONCRETE LINEAR DRAINS 145

CONCRETE TROUGH
with a cast iron cover class B125
1000x145x160

CONCRETE DRAIN
with a cast iron cover class B125
333x145x450

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
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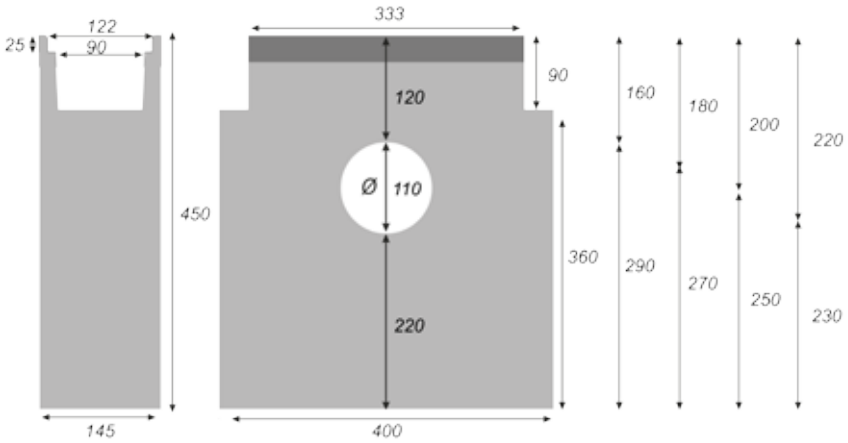
1000	145	160
1000	145	180
1000	145	200
1000	145	220

TECHNICAL SECTIONS OF DRAINS



LENGTH MM	WIDTH MM	HEIGHT MM
333	145	450

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON 	h 90	0236	17,5	30	
		h 160	0018	31,5	20	
		h 180	0019	33,5	20	
		h 200	0020	35,5	15	
		h 220	0021	38	15	
A15	PLASTIC 	h 90	0329	17	30	
		h 160	0234	30,5	20	
		h 180	0330	33	20	
		h 200	0331	34,5	15	
		h 220	0332	37,5	15	
B125	PLASTIC 	h 90	0333	18	30	
		h 160	0273	31,5	20	
		h 180	0334	34	20	
		h 200	0316	35,5	15	
		h 220	0335	38,5	15	
B125	CAST IRON 	h 90	0254	24	30	
		h 160	0188	38	20	
		h 180	0256	40	20	
		h 200	0257	42	15	
		h 220	0258	45	15	
C250	CAST IRON 	h 90	0238	25	30	
		h 160	0030	39	20	
		h 180	0031	41	20	
		h 200	0032	43	15	
		h 220	0033	46	15	
A15 C250	PLASTIC-SLOTTED 	h 90	0196	16	30	
		h 160	0197	30	20	
		h 180	0198	32,5	20	
		h 200	0205	34	15	
		h 220	0206	37	15	

DRAINS

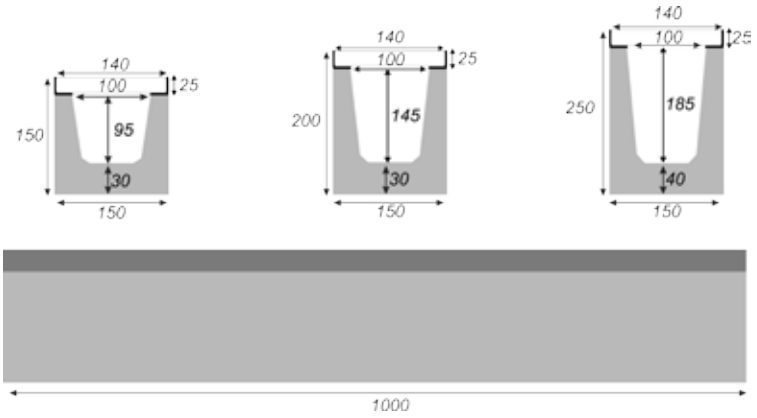
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON 	h 90	0671	35	
		h 160	0068	34	
		h 180	0069	33	
		h 200	0070	32	
		h 220	0071	31	
A15	PLASTIC 	h 90	0672	35	
		h 160	0235	34	
		h 180	0673	33	
		h 200	0674	32	
		h 220	0675	31	
B125	PLASTIC 	h 90	0677	35	
		h 160	0655	34	
		h 180	0678	33	
		h 200	0317	32	
		h 220	0679	31	
B125	CAST IRON 	h 90	0676	37	
		h 160	0259	36	
		h 180	0260	35	
		h 200	0261	34	
		h 220	0262	33	
C250	CAST IRON 	h 90	0342	38	
		h 160	0053	37	
		h 180	0054	36	
		h 200	0055	35	
		h 220	0056	34	
A15 C250	PLASTIC-SLOTTED 	h 90	0688	35	
		h 160	0636	34	
		h 180	0637	33	
		h 200	0638	32	
		h 220	0639	31	

CONCRETE LINEAR DRAINS 150

CONCRETE TROUGH
with a cast iron cover class B125
1000x150x150

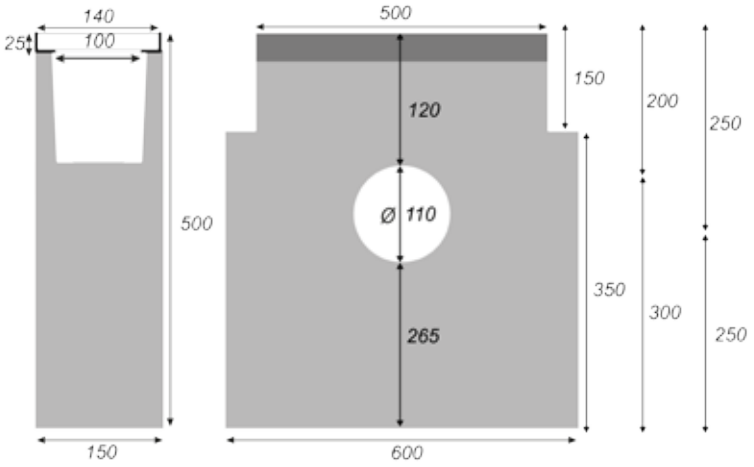
CONCRETE DRAIN
with a cast iron cover class B125
500x150x500

TECHNICAL SECTIONS OF LINEAR DRAIN



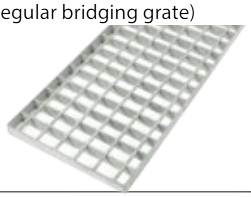
LENGTH MM	WIDTH MM	HEIGHT MM
1000	150	150
1000	150	200
1000	150	250

TECHNICAL SECTIONS OF DRAIN

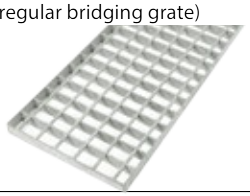


LENGTH MM	WIDTH MM	HEIGHT MM
500	150	500

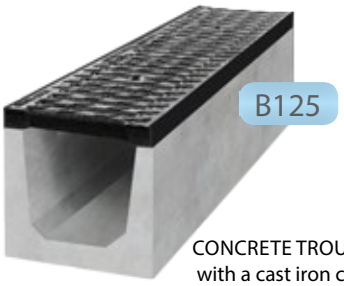
TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 150	0154	31,5	20	
		h 200	0167	39,5	15	
		h 250	0173	48,5	15	
B125	CAST IRON 	h 150	0222	41	20	
		h 200	0223	49	15	
		h 250	0224	58	15	
D400	CAST IRON 	h 150	0225	44,5	20	
		h 200	0226	52,5	15	
		h 250	0227	61,5	15	

DRAINS

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 150	0564	55	
		h 200	0313	54	
		h 250	0680	53	
B125	CAST IRON 	h 150	0488	58	
		h 200	0559	57	
		h 250	0605	56	
D400	CAST IRON 	h 150	0266	59	
		h 200	0284	58	
		h 250	0287	57	

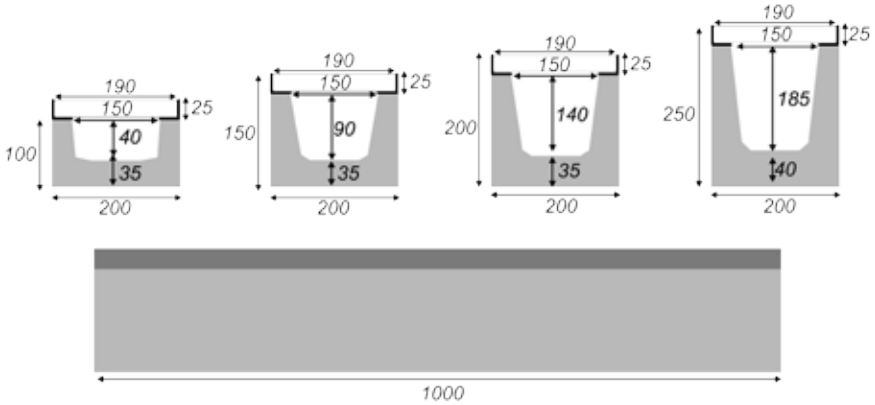
CONCRETE LINEAR DRAINS 200



CONCRETE TROUGH
with a cast iron cover class B125
1000x200x200

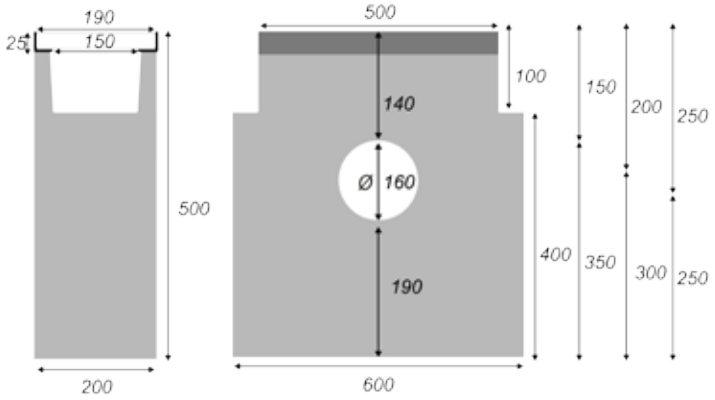
CONCRETE DRAIN
with a cast iron cover class B125
500x200x500

TECHNICAL SECTIONS OF LINEAR DRAIN



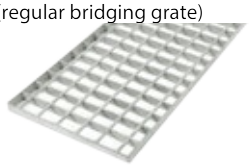
LENGTH MM	WIDTH MM	HEIGHT MM
1000	200	100
1000	200	150
1000	200	200
1000	200	250

TECHNICAL SECTIONS OF DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
500	200	500

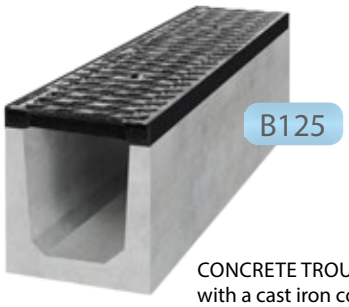
TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 100	0950	30	16	
		h 150	0319	37,5	16	
		h 200	0321	46,5	12	
		h 250	0323	57	12	
B125	CAST IRON 	h 100	0951	41	16	
		h 150	0228	48,5	16	
		h 200	0229	57,5	12	
		h 250	0230	68	12	
D400	CAST IRON 	h 100	0952	46	16	
		h 150	0231	53,5	16	
		h 200	0232	62,5	12	
		h 250	0233	73	12	
F900	CAST IRON 	h 200	0245	64,5	12	
		h 250	0246	75,2	12	

DRAINS

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 150	0440	76,5	
		h 200	0687	72	
		h 250	0681	67,5	
B125	CAST IRON 	h 150	0305	78	
		h 200	0128	73,5	
		h 250	0272	69	
D400	CAST IRON 	h 150	0310	79,5	
		h 200	0265	75	
		h 250	0278	70,5	

CONCRETE DOWNWARD TROUGH 200

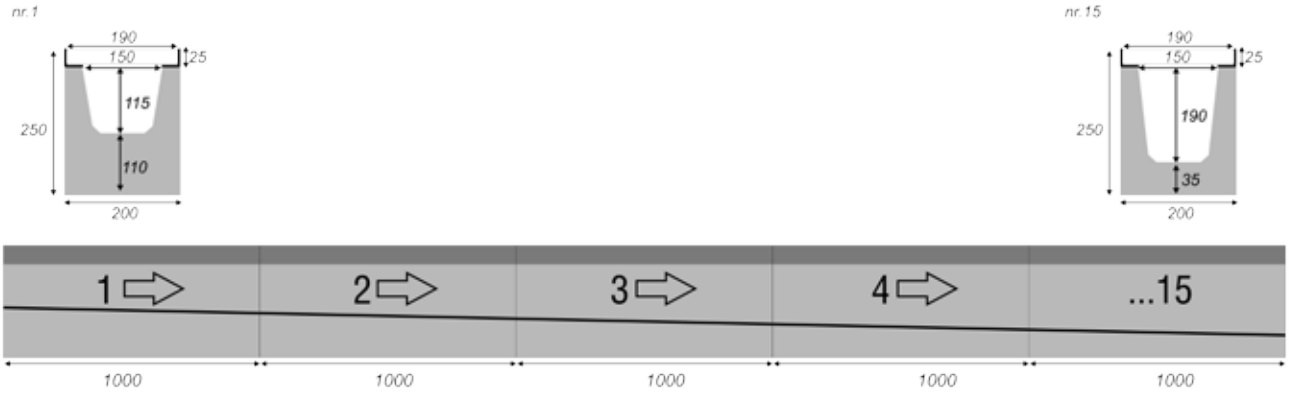


CONCRETE TROUGH
with a cast iron cover class B125
1000x200x250

CONCRETE DRAIN
with a cast iron cover class B125
500x200x500

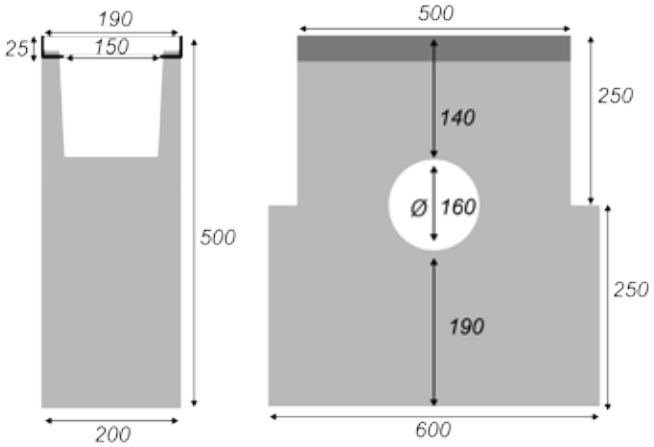
- 15 downward elements
- 0,5% fall per each trough

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
1000	200	250

TECHNICAL SECTIONS OF DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
500	200	500

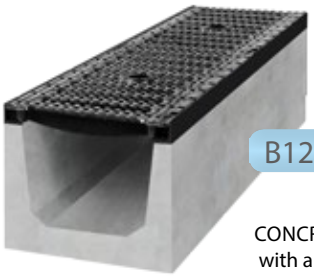
TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 250	0459	78-56,5	12	
B125	CAST IRON 	h 250	0461	89,5-68	12	
D400	CAST IRON 	h 250	0463	95-73,5	12	
F900	CAST IRON 	h 250	0603	97-75,5	12	

DRAINS

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 250	0681	67,5	
B125	CAST IRON 	h 250	0272	69	
D400	CAST IRON 	h 250	0278	70,5	
F900	CAST IRON 	h 250	0604	72,5	

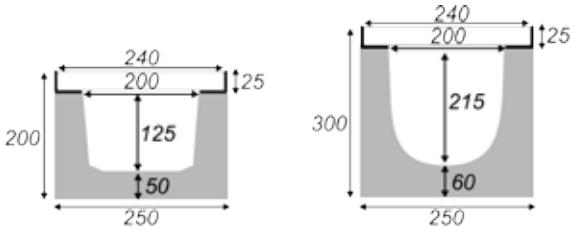
CONCRETE LINEAR DRAINS 250

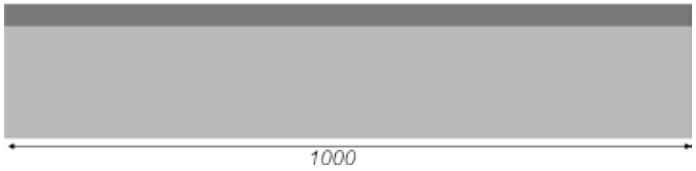


CONCRETE TROUGH
with a cast iron cover class B125
1000x250x250

CONCRETE DRAIN
with a cast iron cover class B125
500x250x700

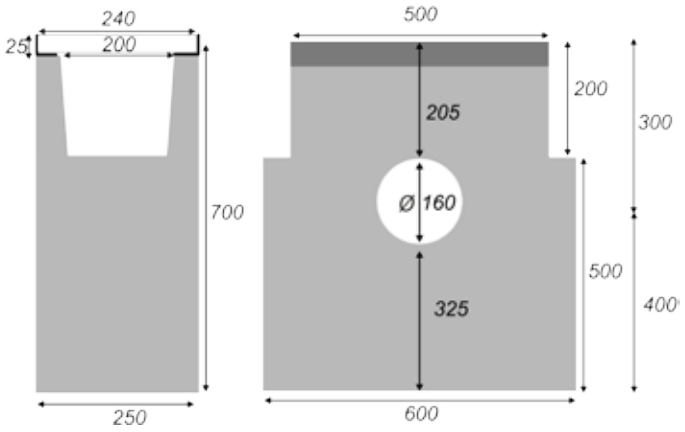
TECHNICAL SECTIONS OF LINEAR DRAIN





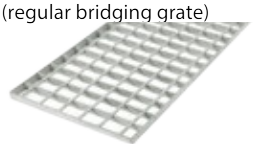
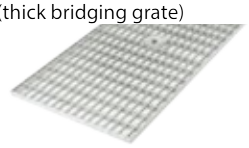
LENGTH MM	WIDTH MM	HEIGHT MM
1000	250	200
1000	250	300

TECHNICAL SECTIONS OF DRAIN

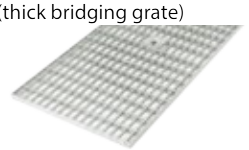


LENGTH MM	WIDTH MM	HEIGHT MM
500	250	700

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 200	0014	58,5	9	
		h 300	0010	77,5	6	
A15	GALVANISED IRON (thick bridging grate) 	h 200	0016	59,5	9	
		h 300	0012	78,5	6	
B125	CAST IRON 	h 200	0219	70	9	
		h 300	0179	89	6	
D400	CAST IRON 	h 200	0040	77,5	9	
		h 300	0038	97	6	
E600	CAST IRON 	h 200	0044	78,5	9	
		h 300	0042	97,5	6	

DRAINS

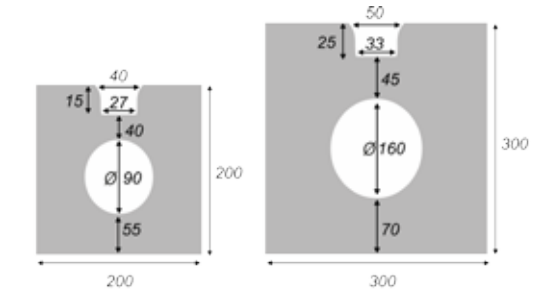
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 200	0466	122,5	
		h 300	0049	112,5	
A15	GALVANISED IRON (thick bridging grate) 	h 200	0311	123	
		h 300	0050	113	
B125	CAST IRON 	h 200	0220	127	
		h 300	0180	117	
D400	CAST IRON 	h 200	0130	129	
		h 300	0057	119	
E600	CAST IRON 	h 200	0131	133	
		h 300	0058	123	

CONCRETE SLOTTED TROUGH

CONCRETE SLOTTED
trough class D400
1000X300X300
1000X200X200

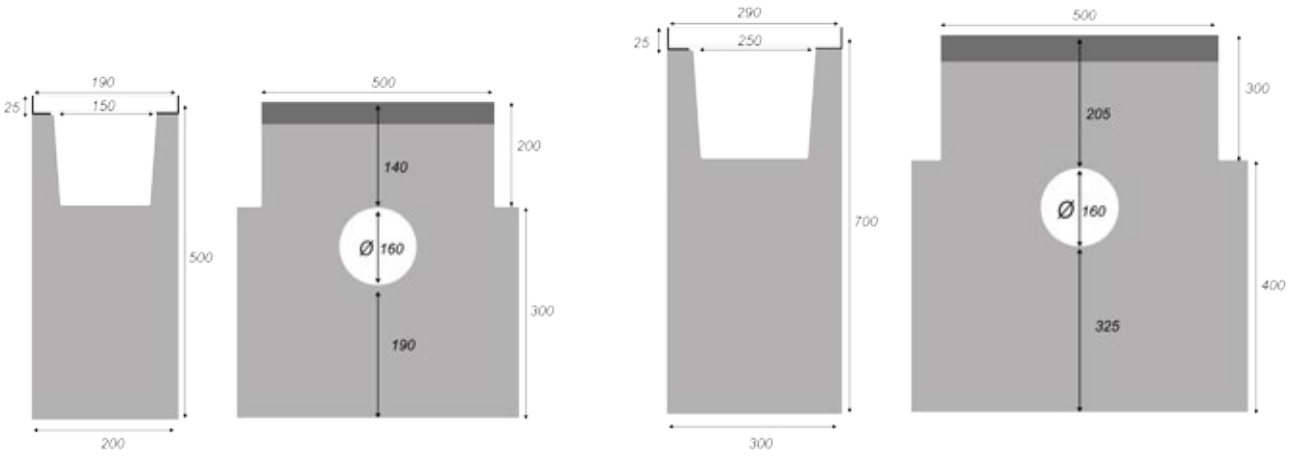
CONCRETE DRAIN
with a cast iron cover class B125
500x200x500
500X300X700

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
1000	200	200
1000	300	300

TECHNICAL SECTIONS OF DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
500	200	500
500	300	700

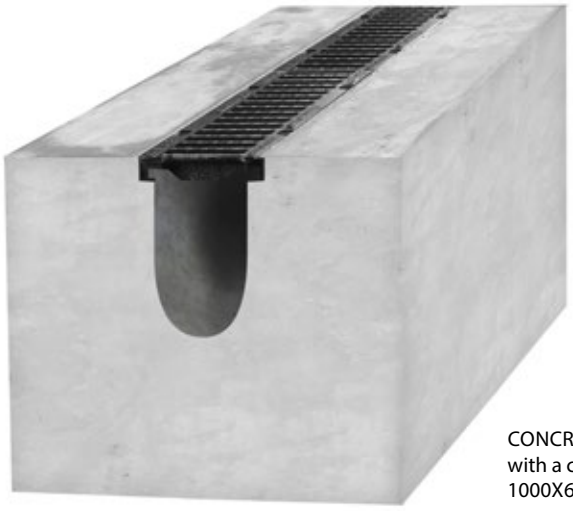
TROUGH

CLASS	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
D400	h 200	0725	78	12	
D400	h 300	0727	152	4	

DRAINS

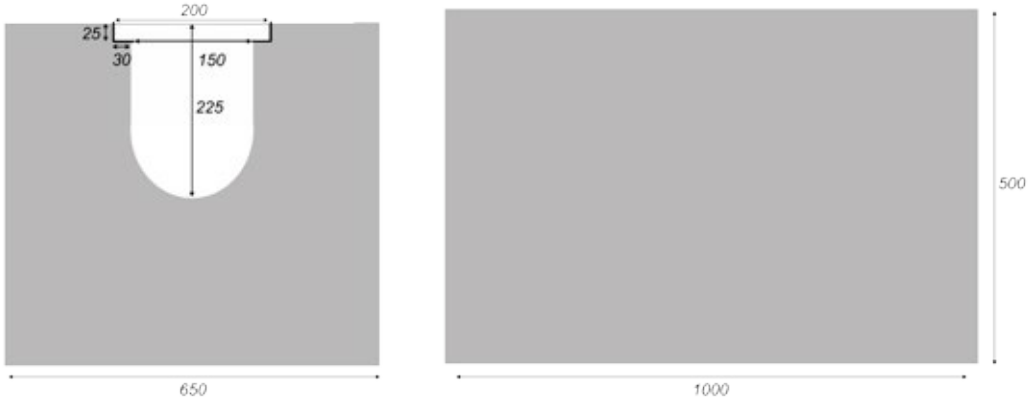
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
D400	CAST IRON 	h 200	0265	75	
D400	CAST IRON 	h 300	0890	153	

CONCRETE TROUGH BIG



CONCRETE TROUGH BIG
with a cast iron Class D400
1000X650X500

TECHNICAL SECTIONS OF TROUGH



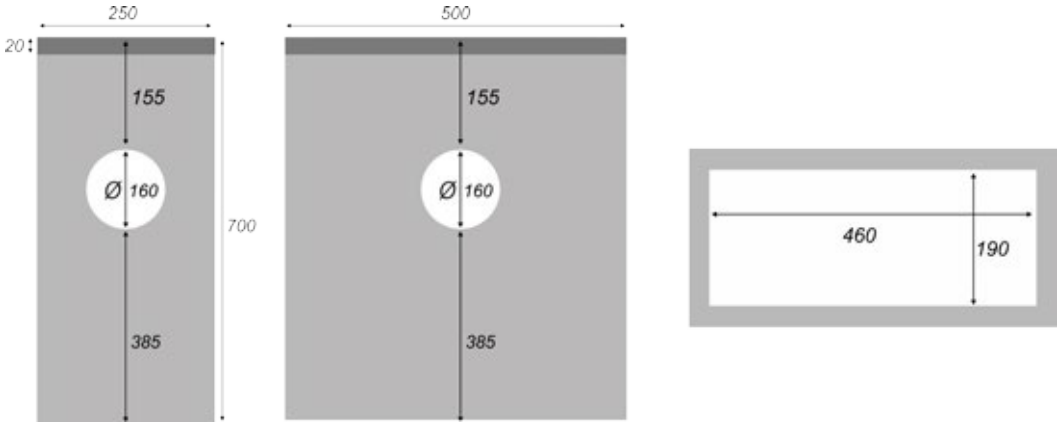
LENGTH MM	WIDTH MM	HEIGHT MM
1000	650	500

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
D400	CAST IRON 	h 500	0935	675	
F900	CAST IRON 	h 500	0936	678	

CONCRETE ROAD DRAIN

Concrete road drain
with a cast iron class D400
500x250x700

TECHNICAL SECTIONS OF DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
500	250	700

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
D400	CAST IRON 	h 700	0933	121	

CONCRETE DRAINAGE ACCESSORIES

Full end drain

Drain end with place for pipe

Drain end with place for a stub-pipe

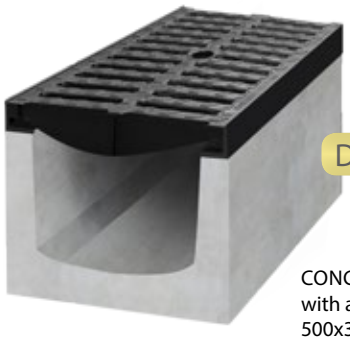
End available for all types of concrete drains
Drain end with a stub-pipe and an opening available Φ110 , Φ160, Φ200 (depending on type)

Bielbet

LINEAR DRAINS

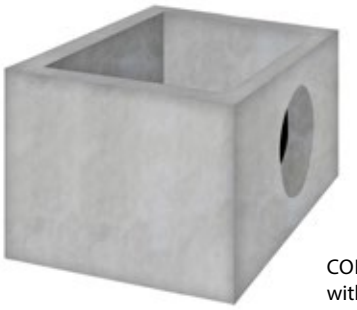
System® LARGE DRAIN

CONCRETE LINEAR DRAINS 300



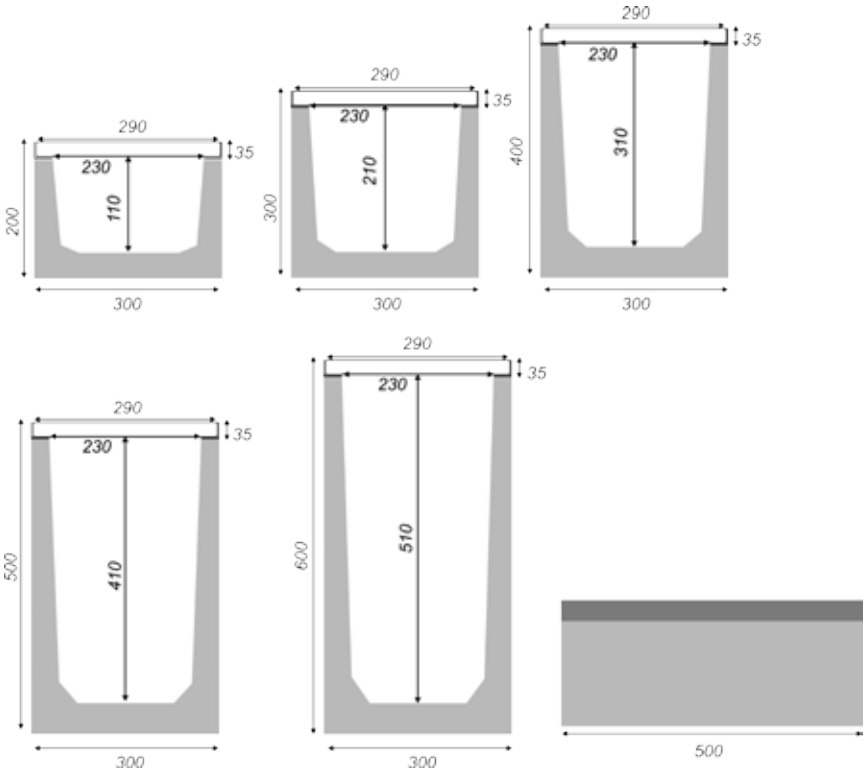
D400

CONCRETE TROUGH
with a cast iron cover class d400
500x300x300



CONCRETE DRAIN
without cover
500x300x300

TECHNICAL SECTIONS OF TROUGH

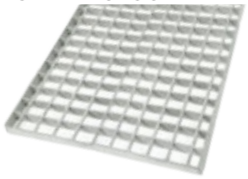


LENGTH MM	WIDTH MM	HEIGHT MM
500	300	200
500	300	300
500	300	400
500	300	500
500	300	600

TECHNICAL SECTIONS OF DRAIN

LENGTH MM	WIDTH MM	HEIGHT MM
500	300	300

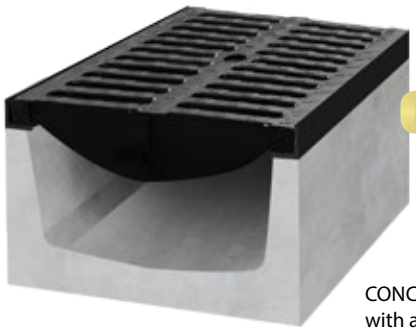
TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 200	0368	36,5	8	
		h 300	0369	48,5	8	
		h 400	0370	56	4	
		h 500	0371	66,5	4	
		h 600	0372	78	4	
D400	CAST IRON 	h 200	0373	48	8	
		h 300	0374	60	8	
		h 400	0375	67,5	4	
		h 500	0376	78	4	
		h 600	0377	89,5	4	

DRAIN

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
	WITHOUT COVER	h 300	0646	50,5	

CONCRETE LINEAR DRAINS 400

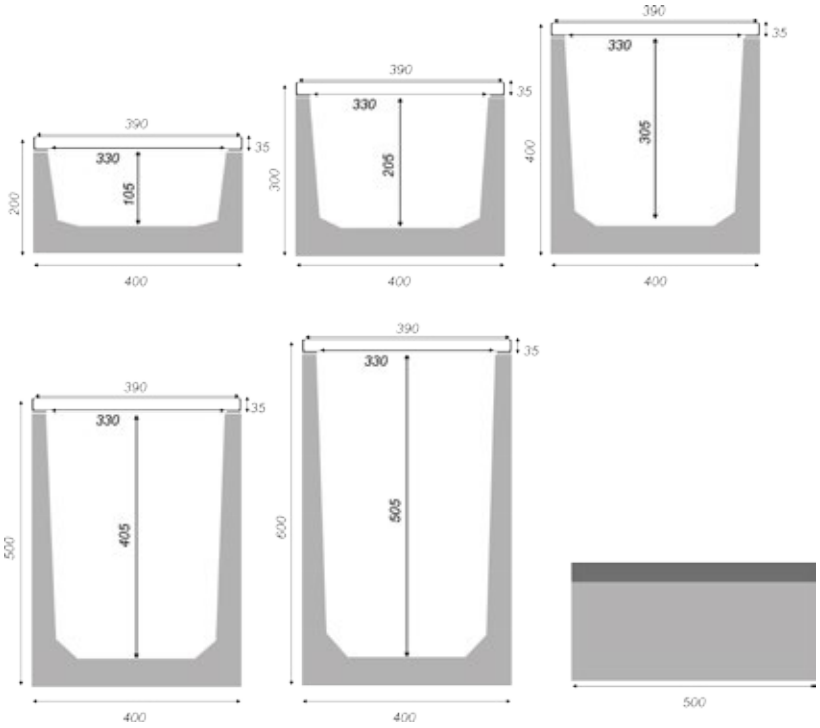


D400

CONCRETE TROUGH
with a cast iron cover class d400
500x400x300

CONCRETE DRAIN
without cover
500x400x300

TECHNICAL SECTIONS OF TROUGH

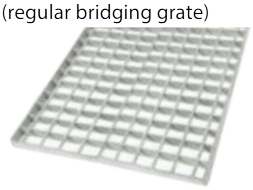


LENGTH MM	WIDTH MM	HEIGHT MM
500	400	200
500	400	300
500	400	400
500	400	500
500	400	600

TECHNICAL SECTIONS OF DRAIN

LENGTH MM	WIDTH MM	HEIGHT MM
500	400	300

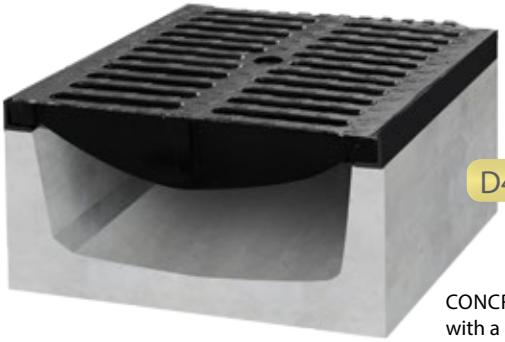
TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 200	0378	49,5	8	
		h 300	0379	62,5	8	
		h 400	0380	76	4	
		h 500	0381	83,5	4	
		h 600	0382	97,5	4	
D400	CAST IRON 	h 200	0383	65	8	
		h 300	0384	78	8	
		h 400	0385	91,5	4	
		h 500	0386	99	4	
		h 600	0387	113	4	

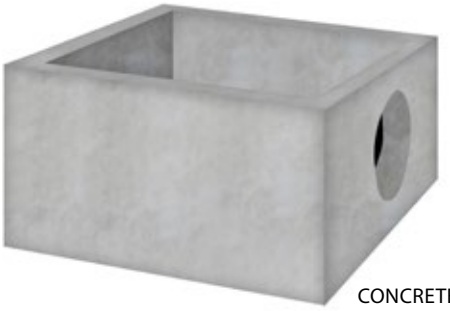
DRAIN

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
	WITHOUT COVER	h 300	0575	62,5	

CONCRETE LINEAR DRAINS 500

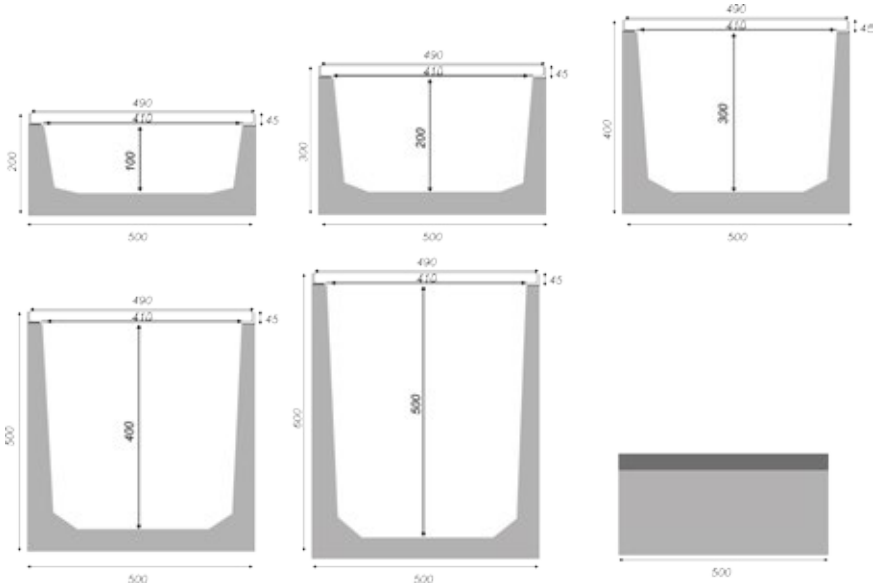


CONCRETE TROUGH
with a cast iron cover class
d400 500x500x300



CONCRETE DRAIN
without cover
500x500x300

TECHNICAL SECTIONS OF TROUGH

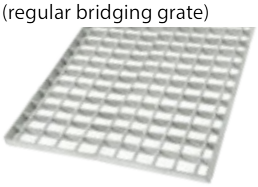


LENGTH MM	WIDTH MM	HEIGHT MM
500	500	200
500	500	300
500	500	400
500	500	500
500	500	600

TECHNICAL SECTIONS OF DRAIN

LENGTH MM	WIDTH MM	HEIGHT MM
500	500	300

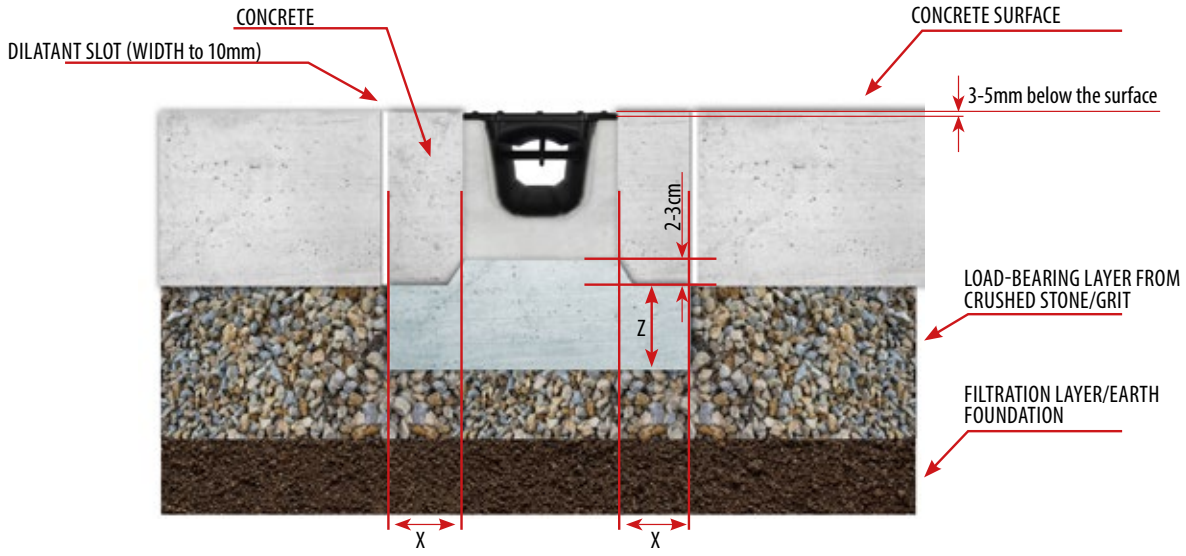
TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 200	0393	66	4	
		h 300	0394	78,5	4	
		h 400	0395	91	2	
		h 500	0396	105	2	
		h 600	0397	113	2	
D400	CAST IRON 	h 200	0398	84	4	
		h 300	0399	96	4	
		h 400	0400	108,5	2	
		h 500	0401	123	2	
		h 600	0402	130,5	2	

DRAIN

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
	WITHOUT COVER	h 300	0652	70,5	

CONCRETE TROUGH ASSEMBLY MANUAL
CLASS A-15-F900 IN CONCRETE



LOAD CLASS	A 15	B 125	C 250	D 400	E 600	F 900
Dimensions of the concrete berm X (MM)	100	150	150	200	200	200
Dimensions of the concrete berm Z (MM)	100	150	150	200	200	200
CONCRETE CLASS FOR THE BERM	C 35/45	C 35/45	C 35/45	C 35/45	C 35/45	C 35/45

ASSEMBLY MANUAL

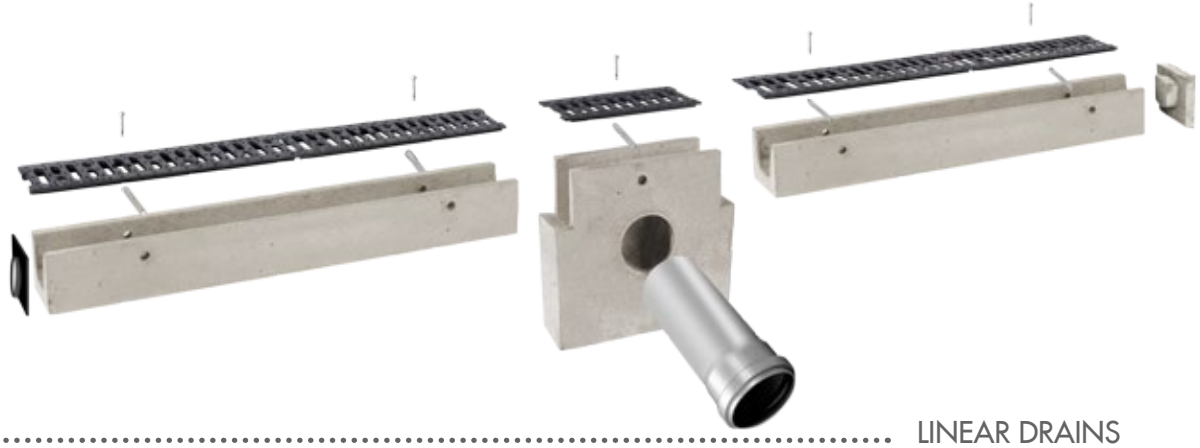
1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one
3. Prepare a trench with width and height increased to include the concrete casing. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare concrete and pour it on the trench bottom.
5. Place the first drain in a trench on the earlier prepared concrete so as to form a concrete band the trough.
6. Next drain parts should be placed carefully as it is not possible to correct the position after the concrete has dried off. Use fast drying grout e.g. Ceresit CX5. Remove the mortar excess so that it does not obstruct water flow in the drain. If necessary the channels can be cut to length using a grinder with a concrete grinding disc. Once cut protect the covers using anticorrosive paint.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

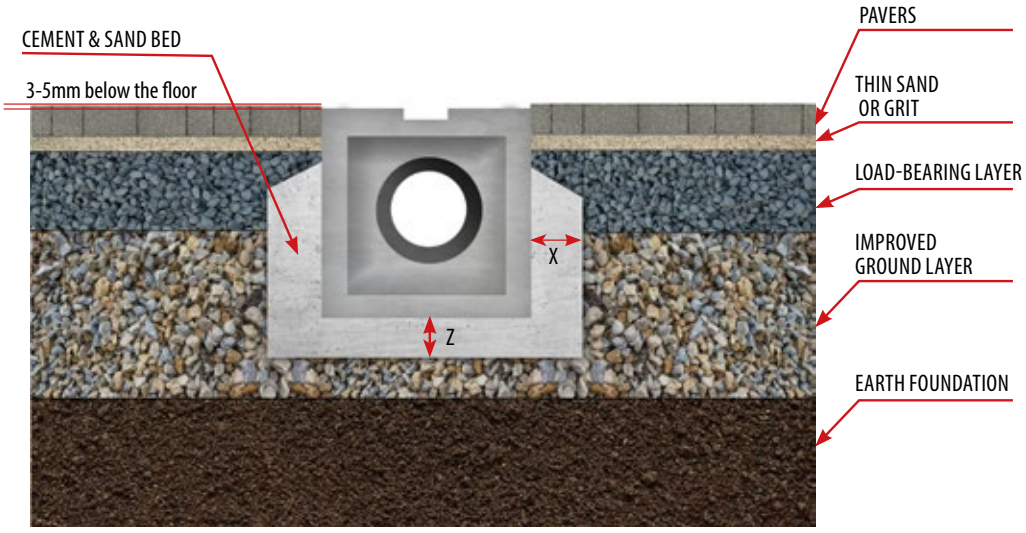
When grinding concrete floors remove the covers as they could be permanently damaged which is not covered by the warranty.
Concrete linear drains are not resistant to soiling therefore relevant proofing and care are recommended. Unclogging by removing the deposits or snow / ice in winter time. Do not use saline solutions as they would accelerate corrosion of covers.

The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains

WAY OF CONNECTING CONCRETE TROUGHS



CONCRETE SLOTTED TROUGH ASSEMBLY MANUAL CLASS A15-D400 IN PAVERS



LOAD CLASS	A 15	B 125	C 250	D 400
Dimensions of cement & sand bed X (MM)	50	50	50	50
Dimensions of cement & sand bed Z (MM	50	50	50	50

ASSEMBLY MANUAL

1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one
3. Prepare a trench with width and height increased to include the concrete casing. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare concrete and pour it on the trench bottom.
5. Place the first drain in a trench on the earlier prepared concrete so as to form a concrete band the trough.
6. Next drain parts should be placed carefully as it is not possible to correct the position after the concrete has dried off.Use fast drying grout e.g. Ceresit CX5. Place the grout on the front part of the drain and press with the next element.Remove the mortar excess so that it does not obstruct water flow in the drain.If necessary the channels can be cut to length using a grinder with a concrete grinding disc.Once cut protect the covers using anticorrosive paint.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

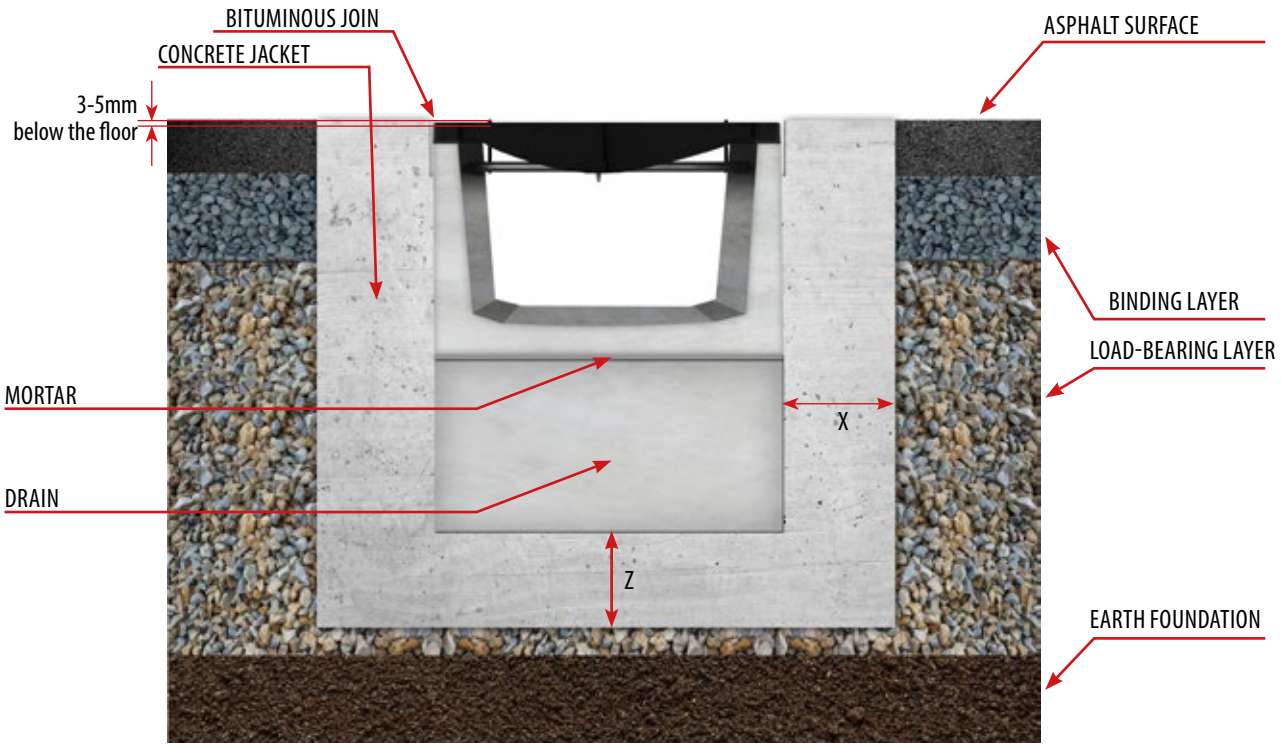
When grinding concrete floors remove the covers as they could be permanently damaged which is not covered by the warranty.

Concrete linear drains are not resistant to soiling therefore relevant proofing and care are recommended. Unclogging by removing the deposits or snow / ice in winter time. Do not use saline solutions as they would accelerate corrosion of covers.

The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains

WAY OF CONNECTING CONCRETE SLOTTED TROUGHS

ASSEMBLY MANUAL FOR THE LARGE DRAIN SYSTEM CLASS A15-D400 IN ASPHALT



Load class	A 15	B 125	C 250	D400
Dimensions of the concrete berm X (MM)	100	150	150	200
Dimensions of the concrete berm Z (MM)	100	150	150	200
Concrete class for the berm	C 35/45	C 35/45	C 35/45	C 35/45

ASSEMBLY MANUAL

1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one
3. Prepare a trench with width and height increased to include the concrete casing. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare concrete and pour it on the trench bottom.
5. Place the first drain in a trench on the earlier prepared concrete so as to form a concrete band the trough.
6. Next drain parts should be placed carefully as it is not possible to correct the position after the concrete has dried off. Use fast drying grout e.g. Ceresit CX5. Place the grout on the front part of the drain and press with the next element. Remove the mortar excess so that it does not obstruct water flow in the drain.If necessary the channels can be cut to length using a grinder with a concrete grinding disc.Once cut protect the covers using anticorrosive paint.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

When grinding concrete floors remove the covers as they could be permanently damaged which is not covered by the warranty.
Concrete linear drains are not resistant to soiling therefore relevant proofing and care are recommended. Unclogging by removing the deposits or snow / ice in winter time. Do not use saline solutions as they would accelerate corrosion of covers.

The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains

Polymer concrete linear drains

MAIN CHARACTERISTICS OF POLYMER CONCRETE LINEAR DRAINS:

- drains made of polymer concrete
- high mechanical durability
- frost resistant and non absorbent
- high chemical resistance
- smooth surface provides excellent
- hydraulic properties
- connecting drains using tongue and groove
- highly aesthetic
- durability classes from A15 to E600

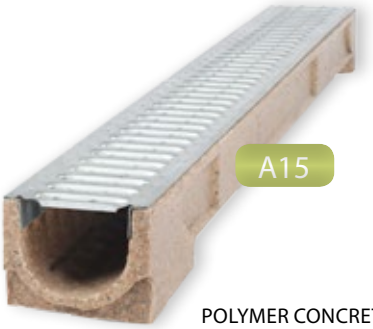
ADDITIONAL ACCESSORIES:

- consolidated system drains
- full end drains
- drain end with place for a stub-pipe

USE:

pedestrian and cyclist paths, housing areas, gardens, terraces, building entrances, garage entrances, car parks for cars and lorries, plant squares, production halls, petrol stations.

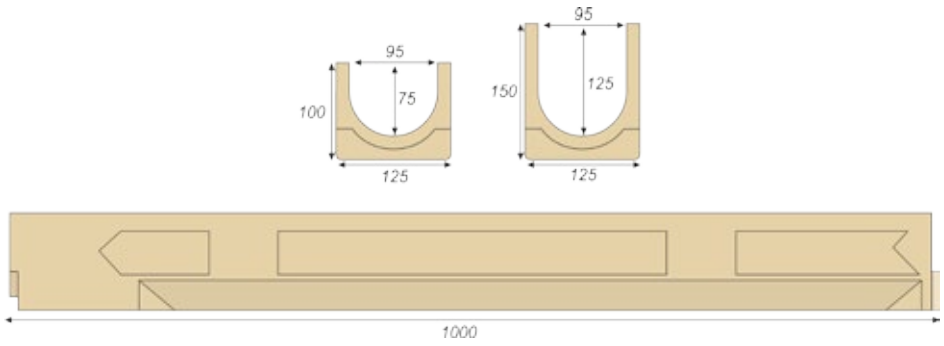
POLYMER CONCRETE LINEAR DRAINS 125



POLYMER CONCRETE TROUGH
with a galvanised cover class A15
1000x125x100

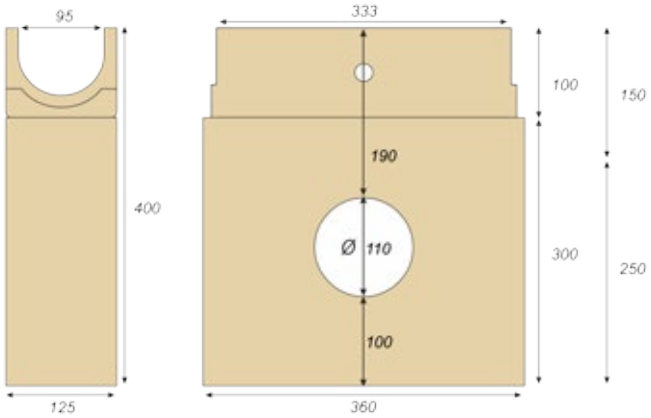
POLYMER CONCRETE DRAIN
with a galvanised cover class A15
360X125X400

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
1000	125	100
1000	125	150

TECHNICAL SECTIONS OF DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
333	125	400

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON 	h 100	0145	9	42	
		h 150	0937	10	42	
A15	STAINLESS STEEL 	h 100	0171	9	42	
		h 150	0938	10	42	
B125	CAST IRON 	h 100	0157	15,5	42	
		h 150	0939	14,5	42	

*It is possible to buy a channel with a connector pipe (dia. 110 mm) in the bottom.

DRAINS

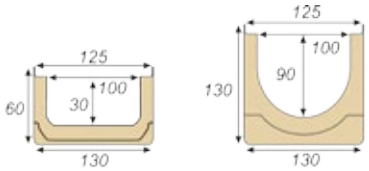
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON 	h 100	0146	9,5	
		h 150	0940	9	
A15	STAINLESS STEEL 	h 100	0189	9,5	
		h 150	0941	9	
B125	CAST IRON 	h 100	0165	11,5	
		h 150	0942	11	

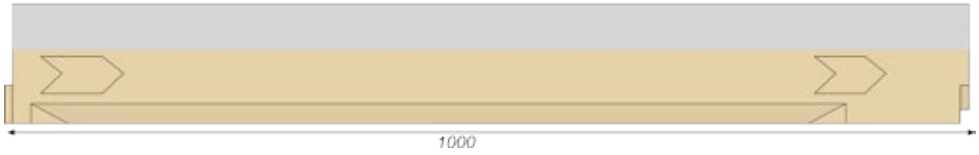
POLYMER CONCRETE LINEAR DRAINS 130

POLYMER CONCRETE TROUGH
with a cast iron cover class B125
1000x130x130

POLYMER CONCRETE DRAIN
with a cast iron cover class
A15 333x130x400

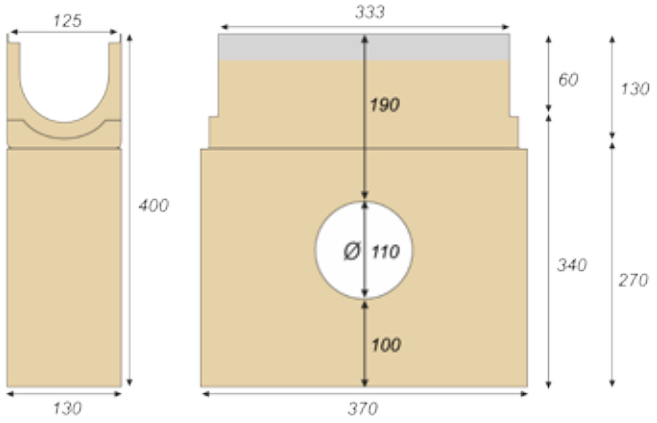
TECHNICAL SECTIONS OF LINEAR DRAIN





LENGTH MM	WIDTH MM	HEIGHT MM
1000	130	60
1000	130	130

TECHNICAL SECTIONS OF DRAINS



LENGTH MM	WIDTH MM	HEIGHT MM
333	130	400

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON 	h 60	0843	13	42	
		h 130	**0155**	**14**	**30**	
A15	PLASTIC 	h 60	1011	13	42	
		h 130	**0156**	**14**	**30**	
B125	PLASTIC 	h 60	0765	13	42	
		h 130	**0289**	**14**	**30**	
B125	CAST IRON 	h 60	0764	20	42	
		h 130	**0153**	**21**	**30**	
C250	CAST IRON 	h 60	0763	21	42	
		h 130	**0149**	**22**	**30**	
A15 C250	PLASTIC-SLOTTED 	h 60	0943	13	42	
		h 130	**0288**	**14**	**30**	

*It is possible to buy a channel with a connector pipe (dia. 110 mm) in the bottom.

DRAINS

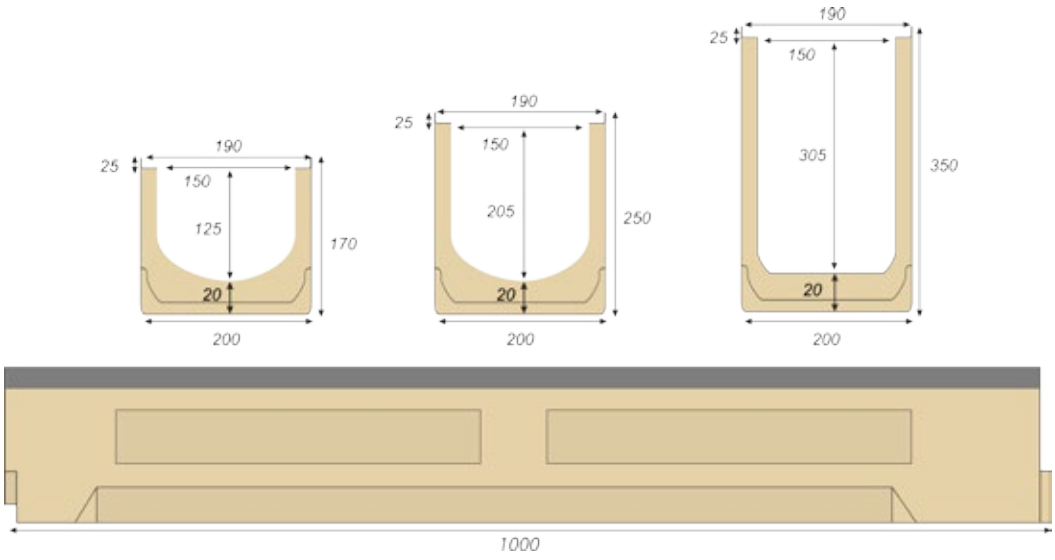
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON 	h 60	0944	14,5	
		h 130	0186	14	
A15	PLASTIC 	h 60	0945	14,5	
		h 130	0633	14	
B125	PLASTIC 	h 60	0946	14,5	
		h 130	0634	14	
B125	CAST IRON 	h 60	0947	16,5	
		h 130	0207	16	
C250	CAST IRON 	h 60	0948	17	
		h 130	0169	16,5	
A15 C250	PLASTIC-SLOTTED 	h 60	0949	14,5	
		h 130	0635	14	

POLYMER CONCRETE LINEAR DRAINS 200

POLYMER CONCRETE TROUGH
with a cast iron cover class B125
1000x200x170

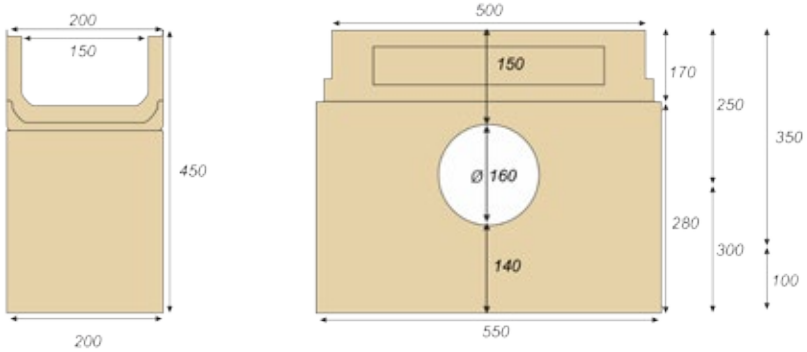
POLYMER CONCRETE DRAIN
h 170 with a cast iron cover class b125
500x200x450

TECHNICAL SECTIONS OF LINEAR DRAIN



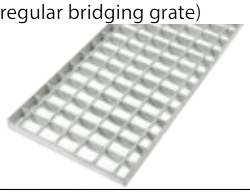
LENGTH MM	WIDTH MM	HEIGHT MM
1000	200	170
1000	200	250
1000	200	350

TECHNICAL SECTIONS OF DRAIN



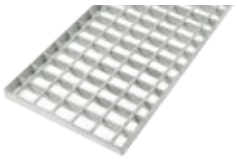
LENGTH MM	WIDTH MM	HEIGHT MM
500	200	450

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 170	0489	25	16	
		h 250	0960	31,5	8	
		h 350	0839	33	8	
B125	CAST IRON 	h 170	0565	36,5	16	
		h 250	0792	43	8	
		h 350	0793	44,5	8	
D400	CAST IRON 	h 170	0492	43,5	16	
		h 250	0961	50	8	
		h 350	0759	51,5	8	

* It is possible to buy a channel with a connector pipe (dia. 110/160 mm) in the bottom.

DRAINS

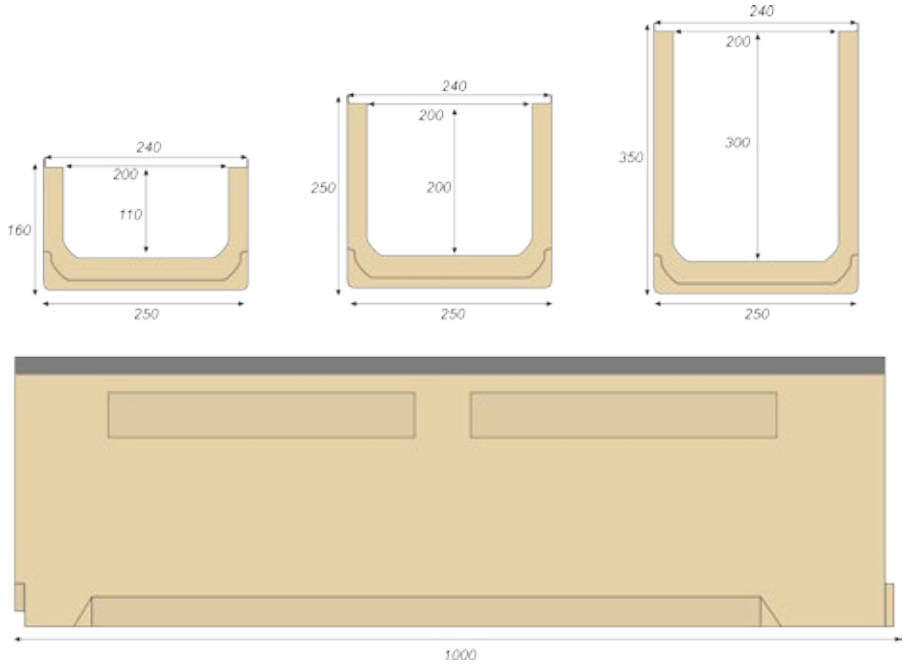
CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 170	0641	38	
		h 250	0962	34,5	
		h 350	0840	33	
B125	CAST IRON 	h 170	0558	39,5	
		h 250	0963	36	
		h 350	0841	34,5	
D400	CAST IRON 	h 170	0556	41,5	
		h 250	0964	38	
		h 350	0842	36,5	

POLYMER CONCRETE LINEAR DRAINS 250

POLYMER CONCRETE TROUGH
with a cast iron cover class B125
1000x250x160

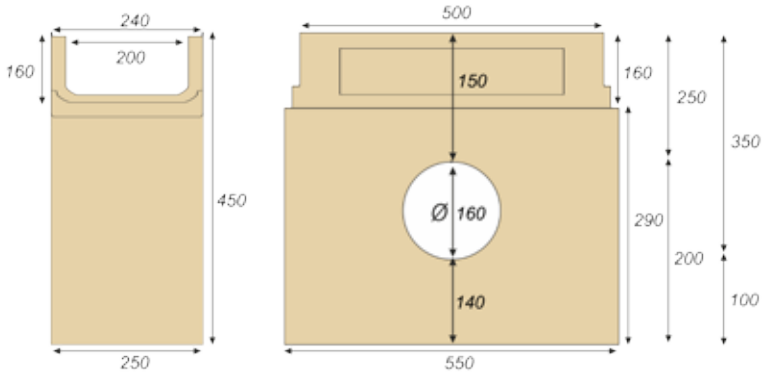
POLYMER CONCRETE DRAIN
h 170 with a cast iron cover
class b125
500x200x450

TECHNICAL SECTIONS OF LINEAR DRAIN



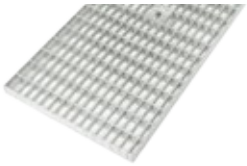
LENGTH MM	WIDTH MM	HEIGHT MM
1000	250	160
1000	250	250
1000	250	350

TECHNICAL SECTIONS OF DRAIN



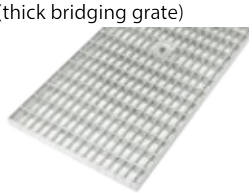
LENGTH MM	WIDTH MM	HEIGHT MM
500	250	450

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 160	0158	31	12	
		h 250	0326	40	9	
		h 350	0162	57	6	
A15	GALVANISED IRON (thick bridging grate) 	h 160	0159	32	12	
		h 250	0327	40	9	
		h 350	0163	58	6	
B125	CAST IRON 	h 160	0160	43	12	
		h 250	0275	50,5	9	
		h 350	0183	68,5	6	
D400	CAST IRON 	h 160	0151	50,5	12	
		h 250	0204	58,5	9	
		h 350	0164	76,5	6	
E600	CAST IRON 	h 160	0161	51	12	
		h 250	0328	59	9	
		h 350	0184	77	6	

It is possible to buy a channel with a connector pipe (dia. 110/160/200 mm) in the bottom.

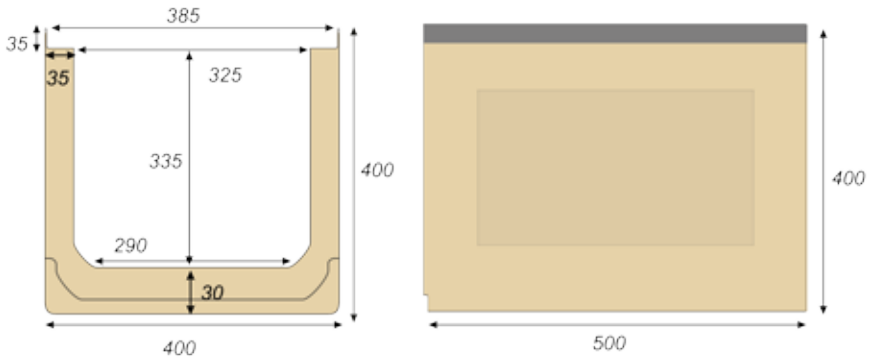
DRAINS

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	PRICE
A15	GALVANISED IRON (regular bridging grate) 	h 160	0682	40,5	
		h 250	**0683**	**37**	
		h 350	0576	36,5	
A15	GALVANISED IRON (thick bridging grate) 	**h 160**	**0300**	**41**	
		h 250	0684	37,5	
		h 350	**0685**	**37**	
B125	CAST IRON 	h 160	0566	45	
		h 250	**0519**	**41,5**	
		h 350	0549	41	
D400	CAST IRON 	**h 160**	**0152**	**46,5**	
		h 250	0264	43	
		h 350	**0520**	**42,5**	
E600	CAST IRON 	h 160	0174	50,5	
		h 250	**0185**	**47**	
		h 350	0686	46,5	

POLYMER CONCRETE TROUGH 400

Polymer concrete trough
with a cast iron cover class
D400 500x400x400

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
500	400	400

TROUGH

CLASS	COVER TYPE	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON (regular bridging grate) 	0965	36	8	
D400	CAST IRON 	0966	59,5	8	

POLYMER CONCRETE MONOLITH LINEAR DRAIN

POLYMER CONCRETE
MONOLITH TROUGH
500x140x60

POLYMER CONCRETE MONOLITH
TROUGH
with connection stub-pipe Ø 110

TECHNICAL SECTIONS OF MONOLITH LINEAR DRAIN

LENGTH MM	WIDTH MM	HEIGHT MM
500	140	60

CLASS	TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15 F900	MONOLITH 	h 60	0754	6,8	100	
A15 F900	MONOLITH WITH CONNEC-TOR STUB-PIPE Ø110 	h 60	0755	7	separately	

POLYMER CONCRETE DRAIN ACCCESSORIES

Full end drain

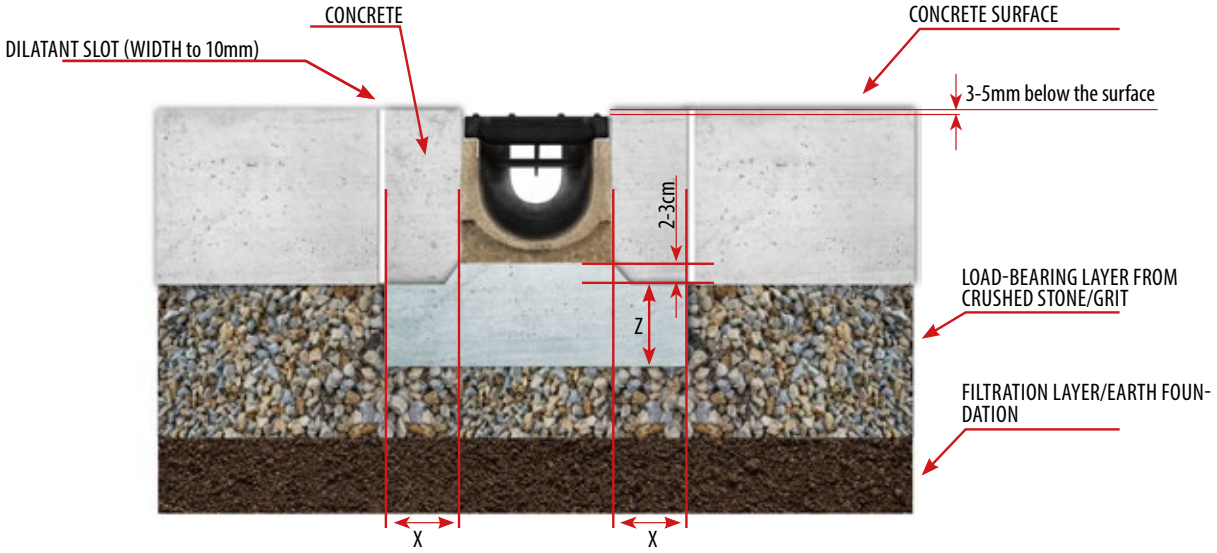
Full end drain

Drain end with a hole and gasket

Monolith end drain

End available for all types of polymer concrete drains
End with hole available Φ110 , Φ160, Φ200 (depending on type).

POLYMER CONCRETE TROUGHS ASSEMBLY MANUAL CLASS A-15-E600 IN CONCRETE



LOAD CLASS	A 15	B 125	C 250	D 400	E 600
Dimensions of the concrete berm X (MM)	100	150	150	200	200
Dimensions of the concrete berm Z (MM)	100	150	150	200	200
Concrete class for the berm	C 35/45	C 35/45	C 35/45	C 35/45	C 35/45

ASSEMBLY MANUAL

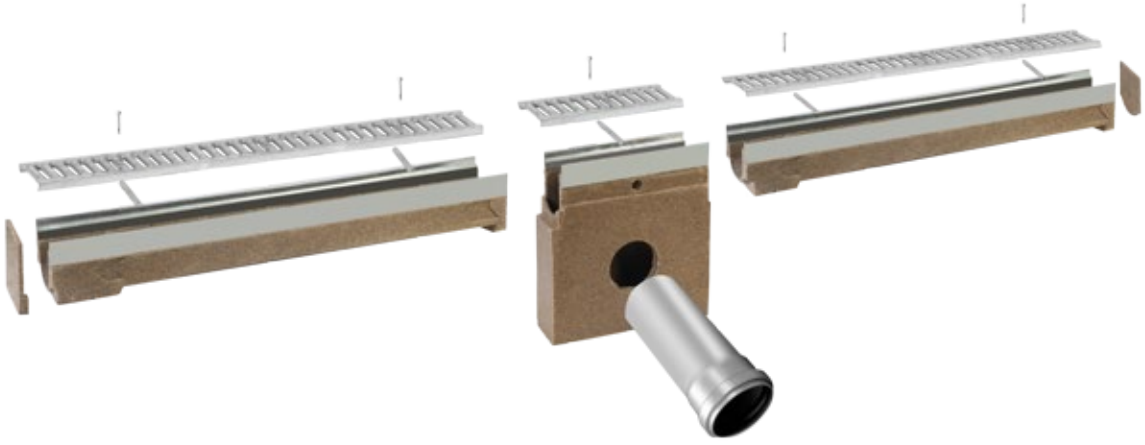
1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one
3. Prepare a trench with width and height increased to include the concrete casing. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare concrete and pour it on the trench bottom.
5. Place the first drain in a trench on the earlier prepared concrete so as to form a concrete band the trough.
6. Next drain channel sections should be joined by tongue and groove connection.Use fast drying grout e.g. Ceresit CX5. Place the grout on the front part of the drain and press with the next element. Remove the mortar excess so that it does not obstruct water flow in the drain.Once cut protect the covers using anticorrosive paint.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

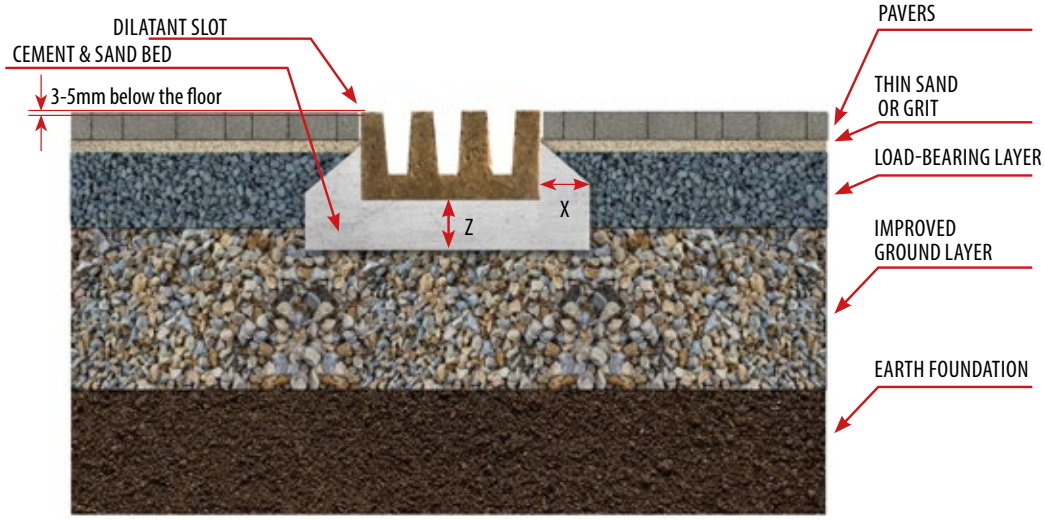
When grinding concrete floors remove the covers as they could be permanently damaged which is not covered by the warranty. Unclogging by removing the deposits or snow / ice in winter time. Do not use saline solutions.

The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains

WAY OF CONNECTING POLYMER CONCRETE TROUGHS



POLYMER CONCRETE MONOLITH TROUGHS ASSEMBLY MANUAL CLASS A-15-F900 IN PAVERS



LOAD CLASS	A 15	B 125	C 250	D 400	E 600	F900
Dimensions of cement & sand bed X (MM)	50	50	50	50	50	50
Dimensions of cement & sand bed Z	50	50	50	50	50	50

ASSEMBLY MANUAL

1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one.
3. Prepare a cement and sand bed with width and height increased to include the cement & sand bed. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare cement & sand bed and cover the trench bottom with it.
5. Place the first drain in a trench.
6. Next drain parts should be placed carefully as it is not possible to correct the position after the concrete has dreid off.use fast drying grout e.g. Ceresit CX5. Place the grout on the front part of the drain and press with the next element.Fill the remaining part of the trench with cement and sand mixture to provide stabilization for the drains.If necessary the channels can be cut to length using a grinder with a concrete grinding disc.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

Unclogging by removing the deposits or snow / ice in winter time. Do not use saline solutions.

The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains

WAY OF CONNECTING MONOLITH CONCRETE TROUGHS

Plastic linear drain

MAIN CHARACTERISTICS OF PLASTIC LINEAR DRAINS:

- drains made of plastic (polypropylene)
- non-soaking
- smooth surface provides excellent
- hydraulic properties
- high chemical resistance
- highly aesthetic
- small weight makes transport and assembly of the drains easy
- connecting drains using tongue and groove
- lids screwed down
- correct assemblyguarantees high load durability
- durability classes from A15 to C250

ADDITIONAL ACCESSORIES:

- consolidated system drains
- full end drains
- drain end with place for a stub-pipe
- lower outlet
- s-bend

USE:

pedestrian and cyclist paths,gardens, terraces, parks, entrances to the property

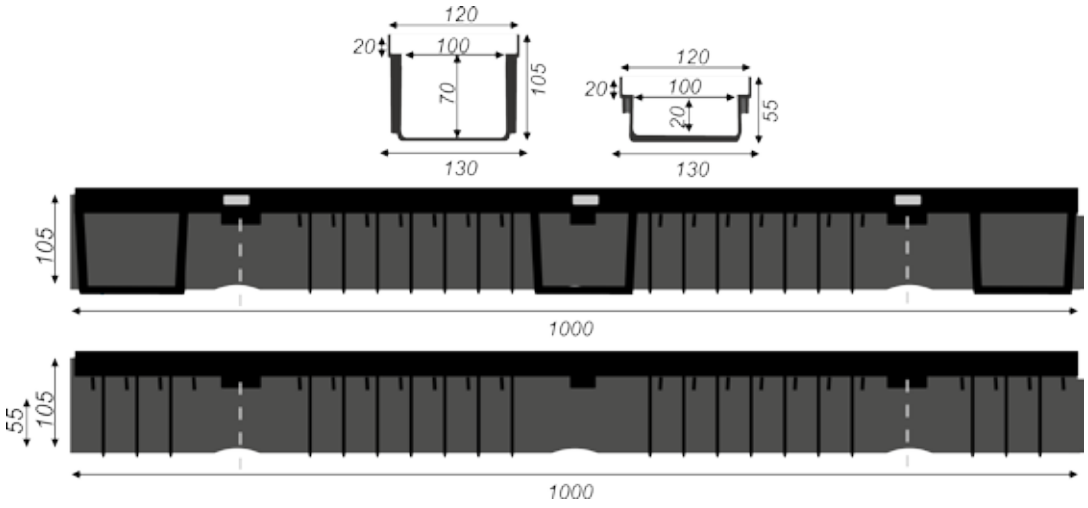
PLASTIC LINEAR DRAIN 130

PLASTIC TROUGH
with a galvanized push in cover
class A15 1000x130x105

PLASTIC TROUGH
with a galvanized cover class
A15 1000x130x105

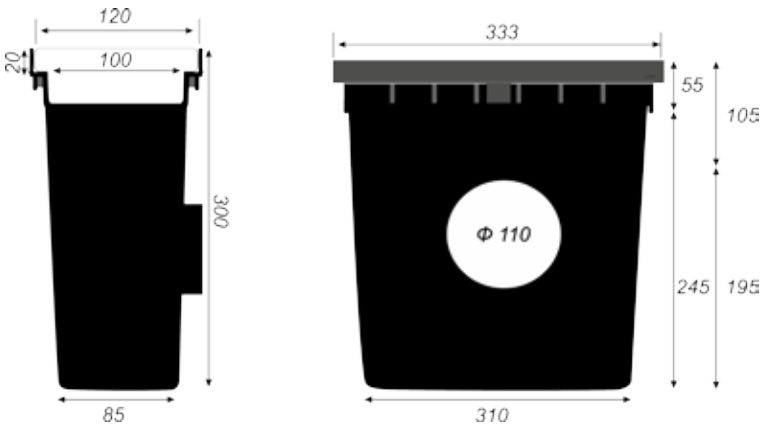
PLASTIC DRAIN
with a galavanized cover Class
A15 333x130x300

TECHNICAL SECTIONS OF LINEAR DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM	VERTICAL OUTLET
1000	130	105	3 x Ø 110
1000	130	55	3 x Ø 110

TECHNICAL SECTIONS OF DRAIN



LENGTH MM	WIDTH MM	HEIGHT MM
333	120	300

TROUGH

CLASS	COVER TYPE	HEIGHT	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON 	h 105	0072	2,5	84	
		h 55	0076	2	120	
A15	STAINLESS STEEL 	h 105	0085	2,5	84	
		h 55	0086	2	120	
A15	PLASTIC 	h 105	0073	2	84	
		h 55	0077	1,65	120	
B125	PLASTIC 	h 105	0213	3	84	
		h 55	0214	2,5	120	
B125	CAST IRON 	h 105	0074	10	48	
		h 55	0078	9,8	60	
C250	CAST IRON 	h 105	0075	10,6	48	
		h 55	0079	10,2	60	
A15 C250	PLASTIC-SLOTTED 	h 105	0215	2	84	
		h 55	0216	1,65	120	

TROUGH WITH PUSH-IN COVER

A15	GALVANISED IRON 	h 105	0957	2,2	84	
A15	PLASTIC 	h 105	0958	1,56	84	

DRAINS

CLASS	COVER TYPE	HEIGHT	CODE	WAGA KG	PRICE
A15	GALVANISED IRON 	h 105	0132	1,3	
		h 55	0136	1,4	
A15	STAINLESS STEEL 	h 105	0208	1,35	
		h 55	0237	1,45	
A15	PLASTIC 	h 105	0133	1,2	
		h 55	0137	1,3	
B125	PLASTIC 	h 105	0217	1,5	
		h 55	0218	1,6	
B125	CAST IRON 	h 105	0134	3,6	
		h 55	0138	3,7	
C250	CAST IRON 	h 105	0135	3,9	
		h 55	0139	4	
A15 C250	PLASTIC-SLOTTED 	h 105	0304	1,5	
		h 55	0653	1,6	

DRAIN ACCCESSORIES

Full end drain
h105,
Code: 0110

Drain end h105 with place for a stube-pipe Φ 110 ,
Code: 0117

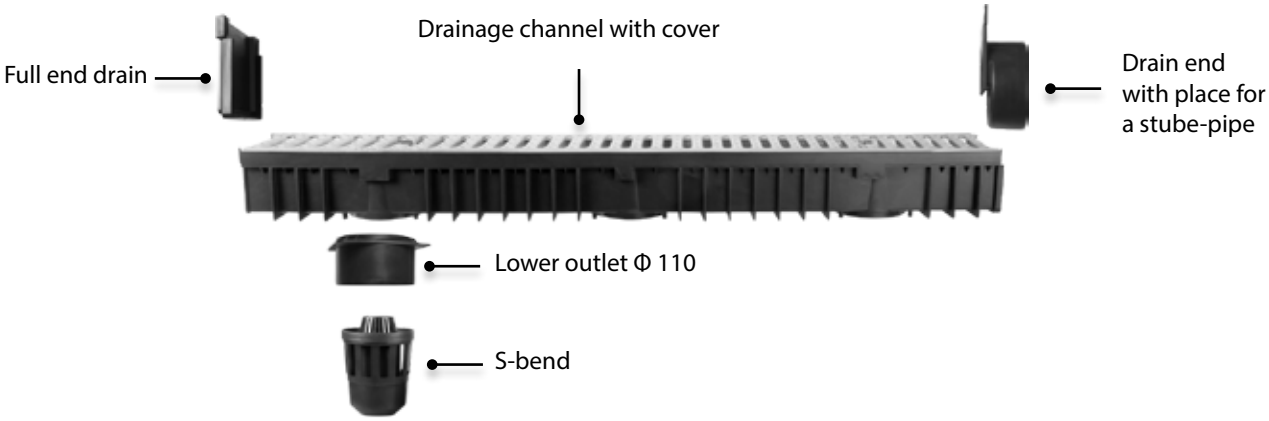
Connector h 105
galvanised
steel cover, code 0271
plastic, code 0270

Lower outlet
h 55
CODE: 0187

Drain end h55 with place for a stube-pipe Φ 75
CODE: 0296

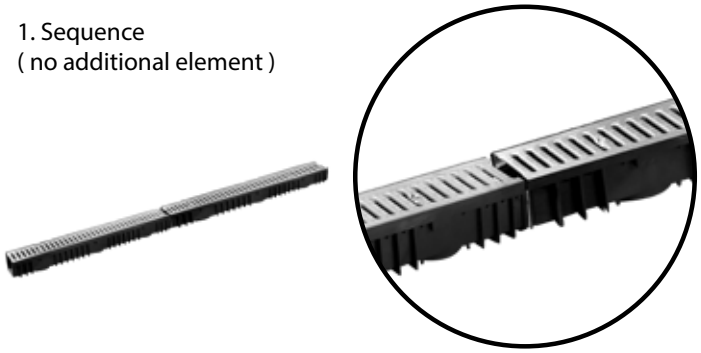
Lower outlet Φ 110
CODE: 0177

S-bend
CODE: 0253

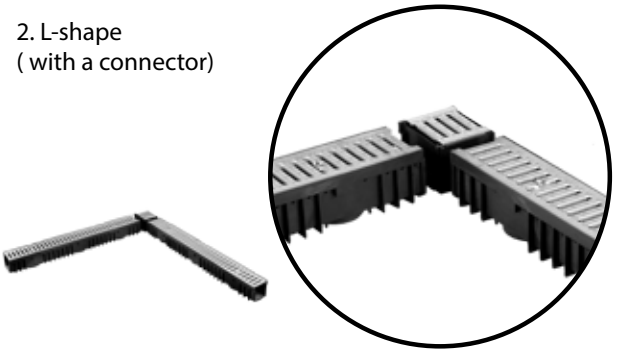


WAY OF CONNECTING TROUGHS H105

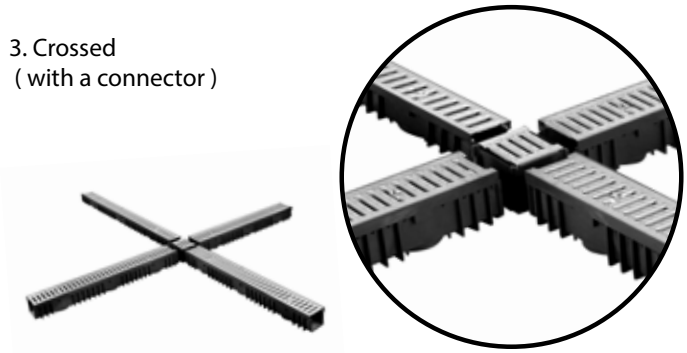
1. Sequence
(no additional element)



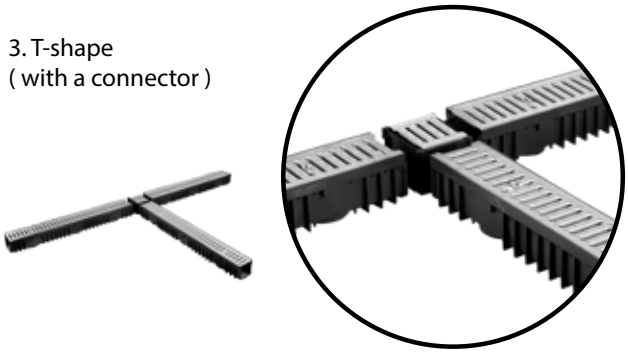
2. L-shape
(with a connector)



3. Crossed
(with a connector)



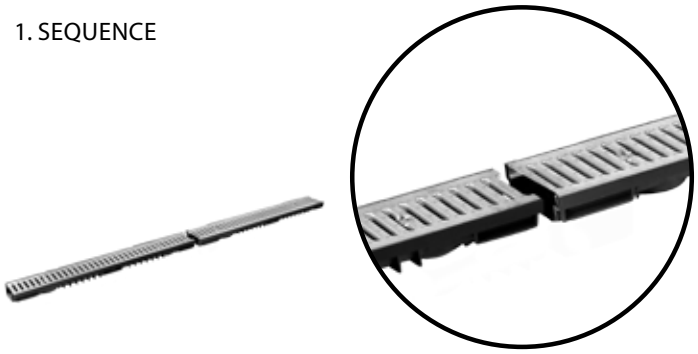
3. T-shape
(with a connector)



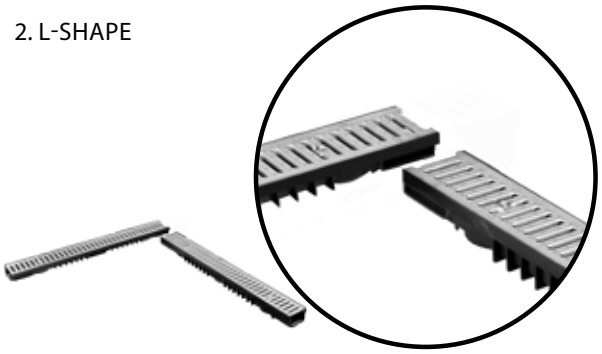
Way of connecting troughs H55 and 105

(no additional element)

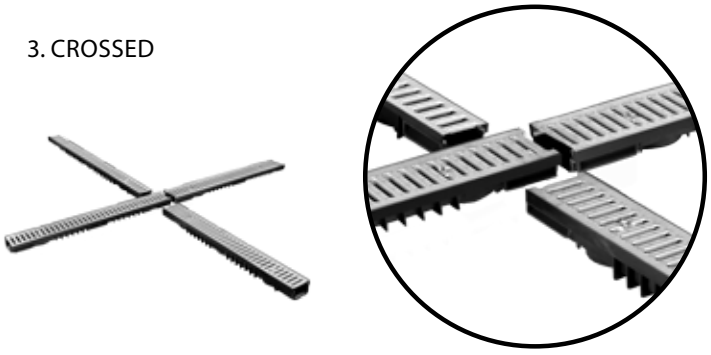
1. SEQUENCE



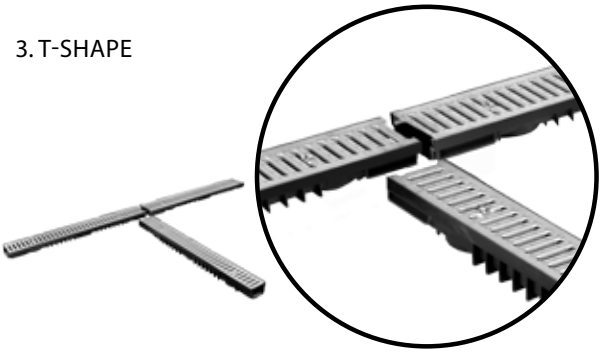
2. L-SHAPE



3. CROSSED



3. T-SHAPE



PLASTIC TROUGH ASSEMBLY MANUAL CLASS A-15-C250 IN CONCRETE

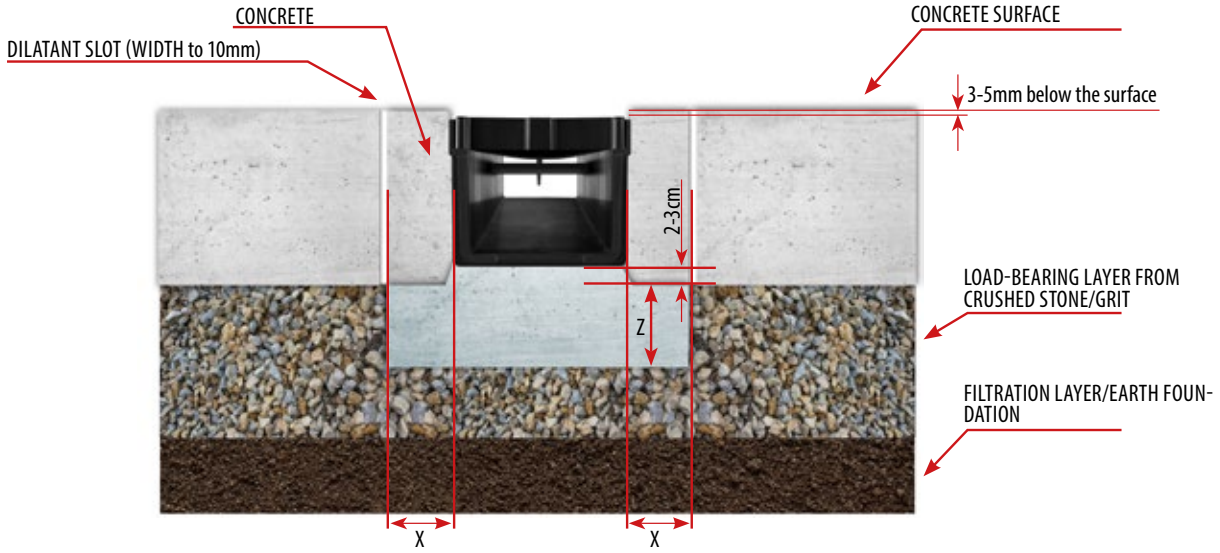
ASSEMBLY MANUAL

1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one.
3. Prepare a trench with width and height increased to include the cement & sand bed. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare concrete and pour it on the trench bottom.
5. Place the first drain in a trench on the earlier prepared concrete so as to form a concrete band the trough.
6. Next drain channel sections should be joined by tongue and groove connection.Seal the joints with sanitary silicone.If necessary the channels can be cut to length using a grinder with a concrete grinding disc.Once cut protect the covers using anticorrosive paint.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

The cover must be screwed on.
When grinding concrete floors remove the covers as they could be permanently damaged which is not covered by the warranty.
Unclogging by removing the deposits or snow / ice in winter time. Do not use saline solutions as they would accelerate corrosion of covers.

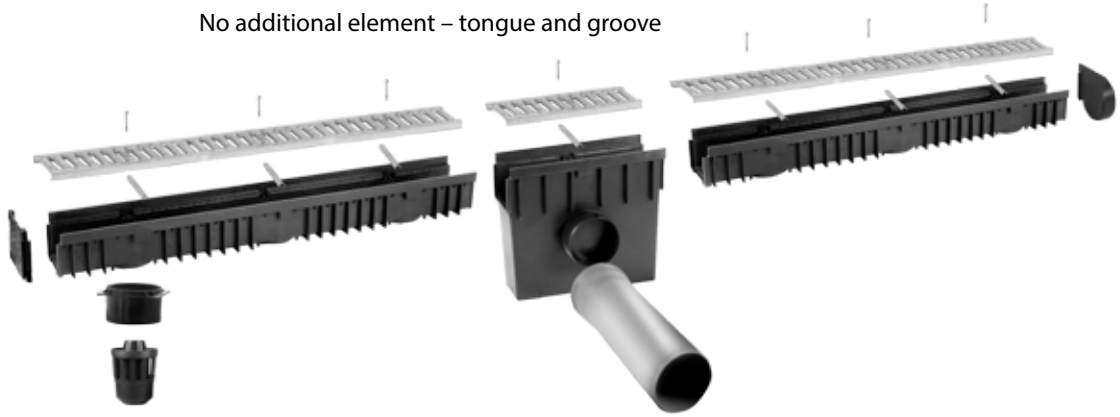
The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains



LOAD CLASS	A 15	B 125	C 250
Dimensions of the concrete berm X (MM)	100	150	200
Dimensions of the concrete berm Z (MM)	100	150	200
Concrete class for the berm	C 35/45	C 35/45	C 35/45

WAY OF CONNECTING PLASTIC TROUGHS

No additional element – tongue and groove



PLASTIC SLOTTED TROUGH ASSEMBLY MANUAL CLASS B125-C250 IN PAVERS

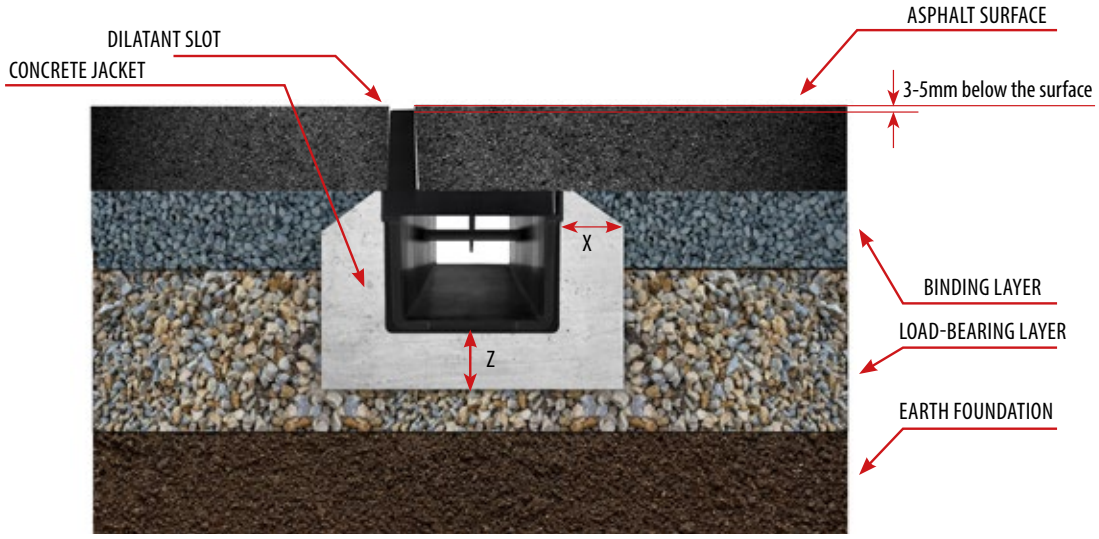
ASSEMBLY MANUAL

1. Prepare appropriate substrate in line with the design and according to the soil type.
2. Mark the future position of the draining system with pegs and nylon lines stretched from one peg to the other one
3. Prepare a trench with width and height increased to include the concrete casing. The channels should be laid 3-5 mm below the ground level so that no horizontal forces are transferred to the side walls.
4. Prepare concrete and pour it on the trench bottom.
5. Place the first drain in a trench on the earlier prepared concrete so as to form a concrete band the trough.
6. Next drain channel sections should be joined by tongue and groove connection.Use fast drying grout e.g. Ceresit CX5. Place the grout on the front part of the drain and press with the next element. Remove the mortar excess so that it does not obstruct water flow in the drain.Once cut protect the covers using anticorrosive paint.
7. Checking the correctness of assembly means checking if the troughs are placed rectilinearly and checking tightness with the use of water.

WARNING!

The cover must be screwed on.
Unclogging by removing the deposits or snow / ice in winter time.

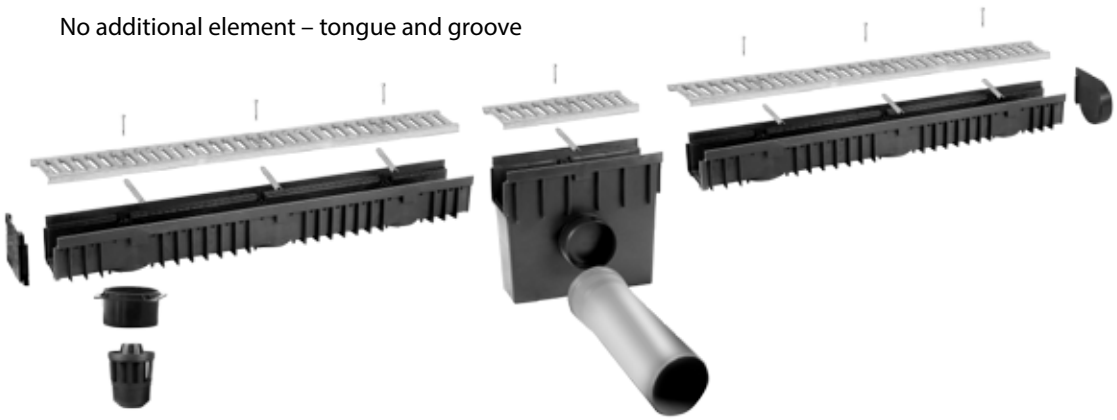
The producer is in no way responsible for any damaged occurring due to incorrect assembly of drains



LOAD CLASS	A 15	B 125	C 250
Dimensions of the concrete berm X (MM)	100	150	200
Dimensions of the concrete berm Z (MM)	100	150	200
Concrete class for the berm	C 35/45	C 35/45	C 35/45

WAY OF CONNECTING PLASTIC TROUGHS

No additional element – tongue and groove



OTHER

UNDER SPOUT DRAIN

Under spout drain it is used to drain rain water through spouts from the roof to the sewer system

ADVANTAGES

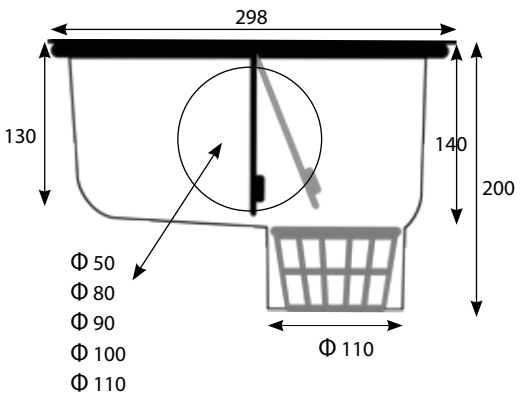
- made of high quality material (polypropylene)
- protects the building against moist
- inspection function for the sewage system
- universal dimensions for spouts and sewage pipes
- aesthetic look
- easy assembly

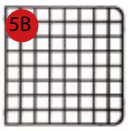
The drain cover is composed of the spout cover and full cover. The spout cover has pressed spots ready to prepare openings for spouts/pipes diameter Ø 50, Ø 80, Ø 90, Ø 100, Ø 110mm. Full cover enables inspecting and removal of dirt. The body of the under spout drain has a vertical outlet for sewage pipes diameter 110mm. Inside there is a basket preventing the dirt from entering the sewage system and an anti-odour lid.

On the sides of the body there are additional pressed spots for sewage pipes diameter Ø 50, Ø 90, Ø 100, Ø 110mm which may be cut out and side outlet may be connected. The set contains an additional lid – grate to collect surface water serving as the ground water drain.

CLASS	COLOR	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	black 	0201	0,56	200	
A15	grey 	0202	0,56	200	
A15	brown 	0203	0,56	200	

LENGTH MM	WIDTH MM	HEIGHT MM
300	160	200

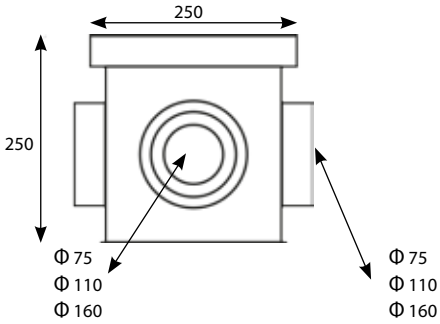




1.body
2. basket
3. gutter cover
4. inner flap
5A. full cover
5B. surface water collecting grate (interchangeably)

YARD DRAIN

Yard drain dedicated to spot collecting of water and removing water from hard surfaces.



ADVANTAGES:

- prevents forming puddles
- perfect for garden taps
- aesthetic look
- small weight – easy transport and assembly

The yard drain is equipped with rings on each side wall of the body of diameter 75,110,160 mm. The yard drain may be used as a single one or as a module in order to have a bigger depth depending on the needs. For this purpose there are bottom edges prepared for cutting if needed.

The yard drain is available in colours black and grey.

CLASS	COVER TYPE	KOLOR	CODE	WEIGHT KG	AMOUNT ON THE PALLET	PRICE
A15	PLASTIC (ladder-type) 	black	0209	1,60	72	
		grey	0210	1,60	72	
B125	CAST IRON 	black	0239	5,06	72	
A15	PLASTIC (full, serves as a cable box) 	black	0306	1,62	72	
		grey	0458	1,62	72	

LENGTH MM	WIDTH MM	HEIGHT MM
250	250	250

ACCESSORIES	COLOR	CODE	WEIGHT KG	PRICE
catch basin extension	black	0295	0,2	
odour eliminator	black	0298	0,1	
	grey	0299	0,1	

LAWN-ROAD GRID

BIELBET LAWN-ROAD GRID:
- it is a modern solution for surface hardening and stabilising
- enables expanding biologically active areas
- during rain the grid stabilizes the ground and protects vehicles against getting stuck in
- enables natural circulation of water
- construction of the grid provides excellent condition for grass vegetation
- improves the load capability of driveways and grass lawns
- small weight of the grid makes assembly and transport easy

BIELBET LAWN-ROAD GRID
It is composed of chambers creating hexagonal structures. It has connectors used to assembly the elements into one smooth surface stable both horizontally and vertically. Made from polythene of high density, symbol HDPE, also received from the recycling process of plastic scrap. Available in dimensions 335x338x40mm is usually produced in colours black or green.

USE:

CATEGORY I
- Surface of lorry parks and bays
- Surface dedicated for traffic and roadsides :

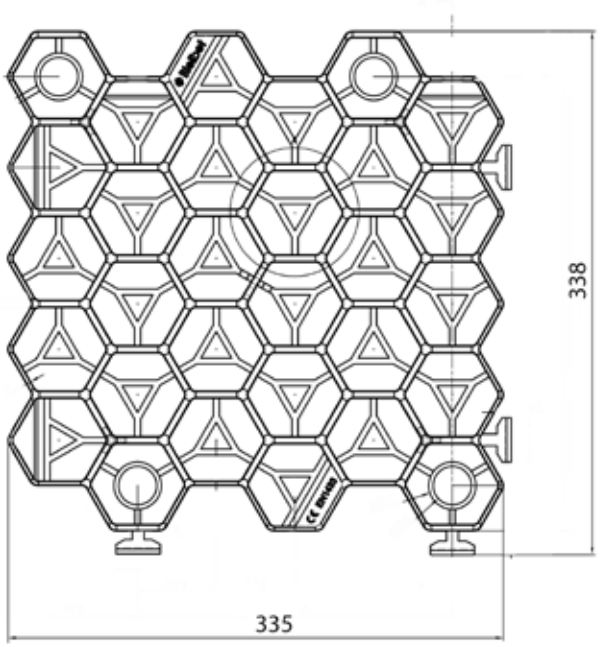
- roadsides,
-housing estates driveways to houses, driveways to office buildings and production halls,
-driveways and place manoeuvre along blocks of flats and production buildings.

CATEGORY II
- Surface of pavements and car parks for vehicles – 2500kg:

-pedestrian paths in parks (only with grass)
-garage entrances,
-caravan parking spots
-car parks
- Protection and hardening

-covering the area around trees growing along pavementsl;
-hardening of drains,
-protects escarpments against erosion,

In case of car park spots for lorries and surface for manoeuvre the grid may be used in a system together with other concrete slab elements.



TERMS OF USE :

Terms of use Bielbet Lawn-road grid may be used:
- with aggregate Category I
- with grass Category II

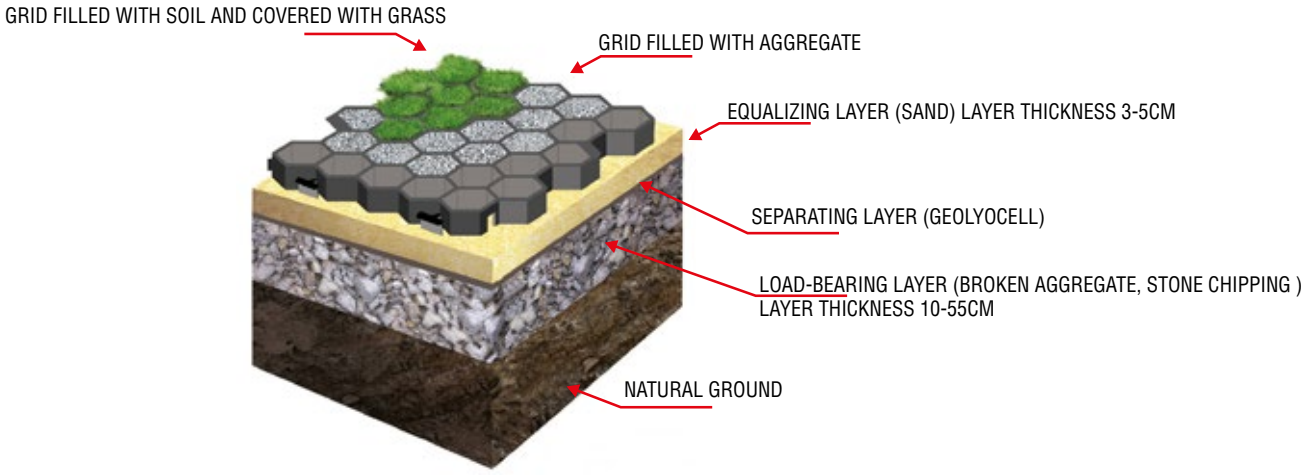
LENGTH MM	WIDTH MM	HEIGHT MM	COLOR	CODE	PRICE
335	338	40	black	0443	
335	338	40	green	0444	

LAWN-ROAD GRID ASSEMBLY MANUAL

1. Designate the planned area of Bielbet lawn-road grid construction using pegs and strings.
2. Remove soil for the desired dept-depending on intended use
3. Fill the trench with the supporting layer i.e. broken aggregate or stone chipping – smooth and compress well
4. Put geolyocell on the smooth and compressed supporting layer so that the sand layer is not rinsed away during water filtration and to protect against grass overgrowing (especially in the case of using aggregate)
5. Put the equalizing layer – sand (3-5cm) – smooth and compressed
6. Put the grids on the prepared layer and connect together using connectors
7. After placing the lawn-road grids, fill the chambers with lawn soil consisting of grass seeds and fertilizer or aggregate.
8. The height of the soil filler or aggregate should be high enough to ensure that after the aggregate self-consolidates, the surface of the filling will be 5 mm below the upper edge of the Bielbet lawn-road grid
9. The surface with the lawn-road grid may be limited by a rim, moulding a set of pavers and so on.
10. When the grass start growing, the surface should not be used, to help the grass vegeration. Lawn vegetation rules should be applied to look after the grass

The foundation layer depends on the future use and soil natural conditions. In particular ground conditions the way of assembly will be chosen by the designer. On less pervious grounds (clay) the foundation should be increased by about 20cm. Correct preparation of the load-bearing layer and the equalizing layer ensures that the grids will not be damaged under car wheels and furrows will not be formed.

The producer is in no way responsible for any damaged occurring due to incorrect assembly of Bielbet Lawn- road grid.



USE	THICKNESS OF THE LOAD-BEARING LAYER	THICKNESS OF THE EQUALIZING LAYER
Pedestrain traffic – protection of trees, hardening of escarpments and drains	10-15 cm	3-5 cm
Cars	20-30 cm	3-5 cm
Internal roads	45-55 cm	3-5 cm
Lorries, public roads	45-55 cm	3-5 cm

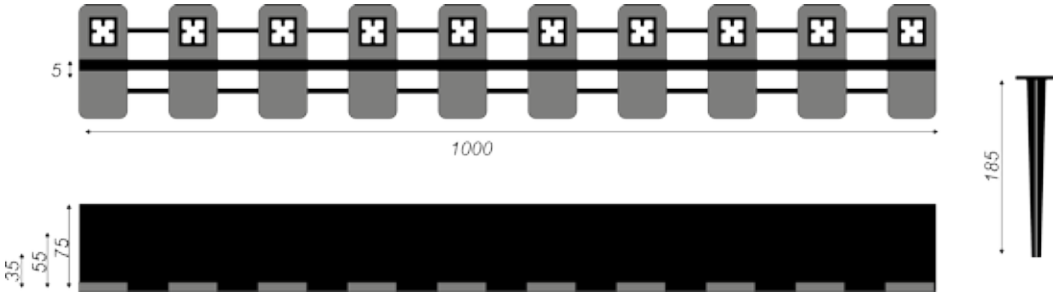
GRASS BELT

Bielbet grass belt are a part of garden and park architecture and they provide finish to concrete setts by separating gravel paths from lawns and stabilizing lanes and walkways. They offer flexibility allowing the creation of curves and circles. They are user-friendly for landscapers.

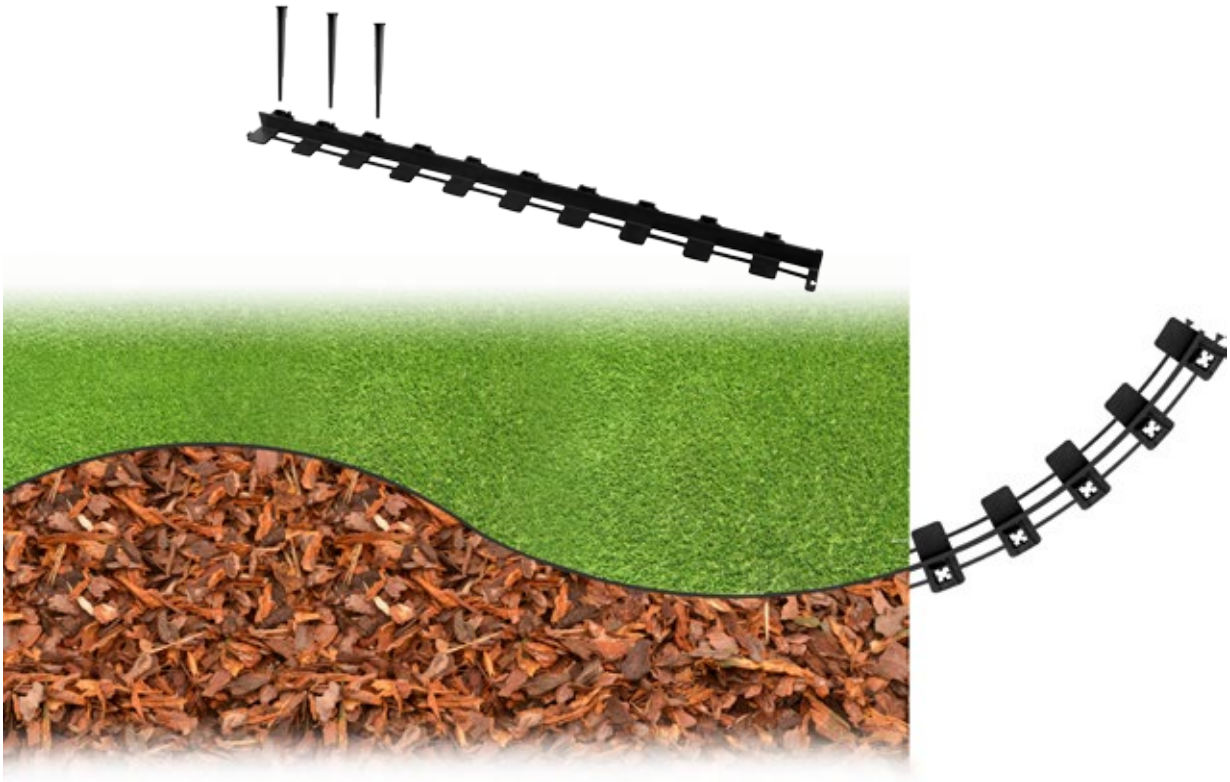
ADVANTAGES:

- easy assembly (no dugouts)
- screwed down to the ground with assembly pins
- optically invisible after the assembly

TECHNICAL SECTIONS OF GRASS BELT



The edge is assembled with the use of connectors, it is stabilised in the ground with assembly pins. Made from high-quality plastic (polypropylene) and are characterised by high quality, durability and resistance to atmospheric conditions.



LENGTH MM	HEIGHT MM	CODE	PRICE
1000	35	0481	
1000	55	0450	
1000	75	0493	

DOORMAT

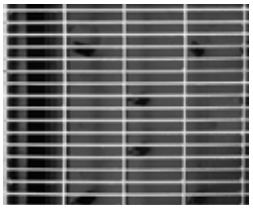
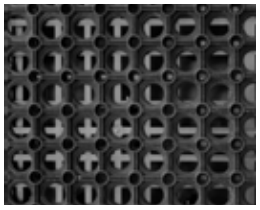
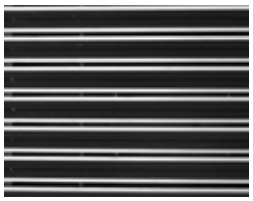
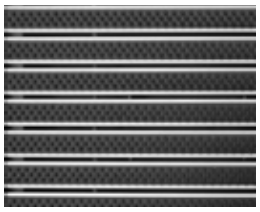
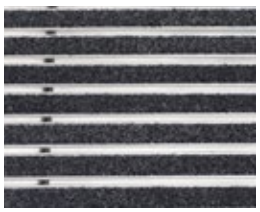
The doormat is dedicated to spot collecting and removing water from pedestrian surfaces, makes it easier to clean footwear mud, soil particles and sand. Resistance to road salt, chemicals that do not contain chlorine
The doormat is composed of the base of the doormat made of plastic and a selection of covers to choose from. The base of the doormat has outlets 110,75,50

ADVANTAGES:

- significantly reduces costs of keeping building entrance area clean.
- aesthetic look,
- made of abrasion resistant material
- easy assembly

USE:

- outside construction in front of entrances to buildings
- dedicated to pedestrian traffic zones only

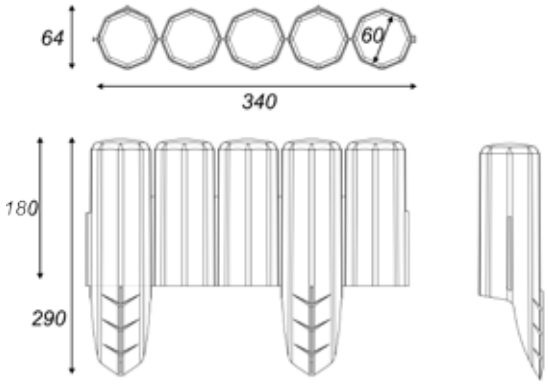
CLASS	TYPE	DIMENSIONS MM	CODE WITH COVER	WEIGHT WITH COVER	AMOUNT ON THE PALLET	PRICE
A15	GALVANISED IRON 	580x370x100	0120	5,16	60	
A15	RUBBER-HONEYCOMB 	580x370x100	0320	3,00	60	
A15	ALIMINIUM-RUBBER 	580x370x100	black 0441 grey 0767	4,44	60	
A15	ALUMINIUM-BRUSH 	580x370x100	black 0468 grey 0515	4,34	60	
A15	ALUMINIUM-TEXTILE 	580x370x100	anthracite 0521	4,44	60	

BIELBET PALISADE

Bielbet palisade is a modern solution for all gardens.
It is made of the highest quality elastic material and provides the possibility of various shaping and it is easy to assemble. The design is very interesting – available in dark brown.

MAIN CHARACTERISTICS :

- unrepeatable shape,
- it fits in the ground perfectly due to its special structure
- excellent quality,
- resistance to atmospheric conditions



COLOR	LENGTH MM	HEIGHT MM	CODE	PRICE
grey	340	180	0690	
brown	340	180	0690	

Bielbet®

www.bielbet.eu