



G i d r o l i c a
Drainage system manufacturing

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GIDROLICA COMPANY

Gidrolica company is a trusted leader and one of the largest Russian manufacturers of surface drainage systems sold in Russia and the CIS countries.

Gidrolica company monitors and examines customer needs, develops and makes decisions that can solve drainage problems most effectively.

Gidrolica company supports project design of facilities, prepares industrial computations, offers recommendations and provides consultancy support, as well as supervised installation with specialist on-site visits.

OUR COMPANY IS A MANUFACTURER

We manufacture more than 3 million drainage gutters per year, constantly expanding the range of products. In addition, Gidrolica company is the largest manufacturer of grass pavers and dirt-guard systems, as well as a supplier of grate flooring from leading global producers.

Manufacturing capacity of Gidrolica company:

- ◆ Production lines for plastic, concrete and polymer concrete gutters and sand traps, as well as components for the manufacturing of professional drainage systems;
- ◆ Production lines for cast iron stormwater grates;
- ◆ Production lines for steel stormwater grates and gutter components;
- ◆ Production lines for grass pavers for ecoparking;
- ◆ Production lines for entrance dirt-guard systems.

JUST AROUND THE CORNER, NEVER OUT OF STOCK

Gidrolica company has storage facilities throughout Russia and the CIS countries, sufficient to provide stock reserves and to implement prompt shipments.

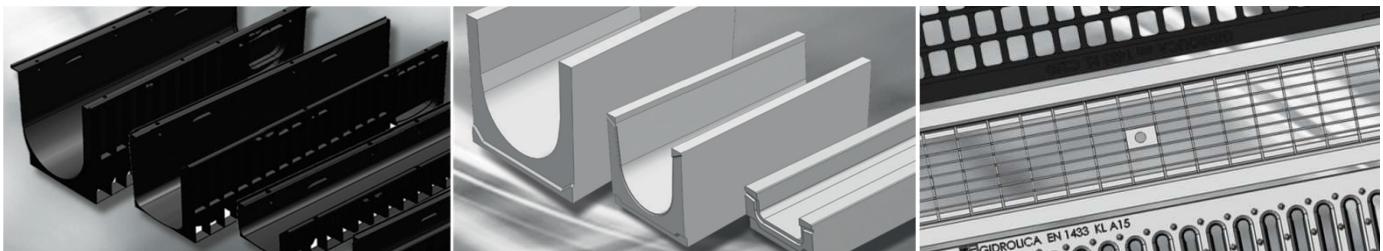
Gidrolica company has a wide dealer network of more than 800 companies representing our products in Russia and abroad. For the convenience of our customers, we deliver our products to any place in Russia, the CIS and Europe.



WIDE RANGE OF PRODUCTS

SURFACE DRAINAGE SYSTEMS GIDROLICA® AND BG GIDROLICA:

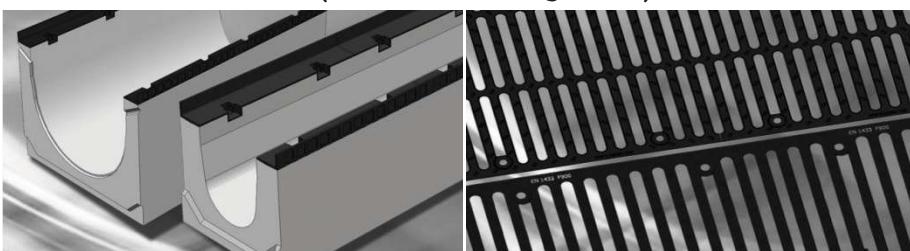
1. for private and civil construction (class of loading A15-C250)



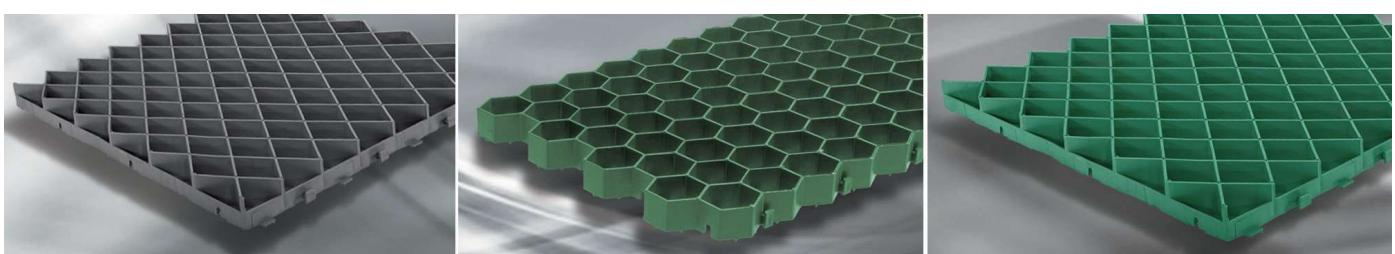
2. for industrial and road construction (class of loading D400-E600)



3. for airfield and road construction (class of loading F900)



GRASS PAVERS GIDROLICA®



ENTRANCE DIRT-GUARD SYSTEMS GIDROLICA®



MULTIPURPOSE GRATE FLOORING



DOMESTIC PRODUCTS OF INTERNATIONAL QUALITY

The products of Gidrolica company are certified and confirmed by test reports, including certificates of conformity GOST R of Gosstandart of Russia, "Opytnoye" LLC RSts and certificates of conformity with the European Quality Management System Standard ISO 9001:2008 and ISO 9001:2011.



We aim to develop continuously, for this reason, we not only expand the product range and increase manufacturing capacity, but also combine the experience of Russian and foreign experts in the area of development, design and production of drainage systems, entrance dirt-guard systems, and grass pavers.

In 2011, Gidrolica company began an effective cooperation with BG Graspointner GmbH (Austria), which allowed the company to present unique gutters for various classes of loading (from C250 to F900) and throughput capability from DN100 to DN500, manufactured by vibration pressing on the Russian market. They combined perfect European quality and affordable price for a domestic product. Created by BG Graspointner GmbH technologies, taking into account the characteristics of the Russian climatic and operational conditions, the products satisfy all the demands of the drainage systems market.

FREE CUSTOMER SUPPORT SERVICE

Our specialists provide no-cost consultations on the design and selection of outdoor drainage systems Gidrolica®, as well as prepare a complete set of documents with all the necessary calculations.

We are always ready to help you, providing:

- ◆ Consultancy support;
- ◆ Engineering design preparation;
- ◆ Pre-design concepts;
- ◆ Full project design support;
- ◆ Recommendations on installation of a drainage system;
- ◆ Supervised installation with specialist on-site visits.

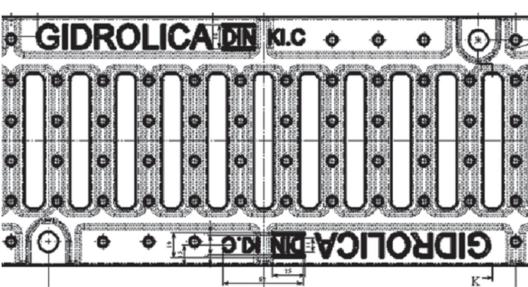
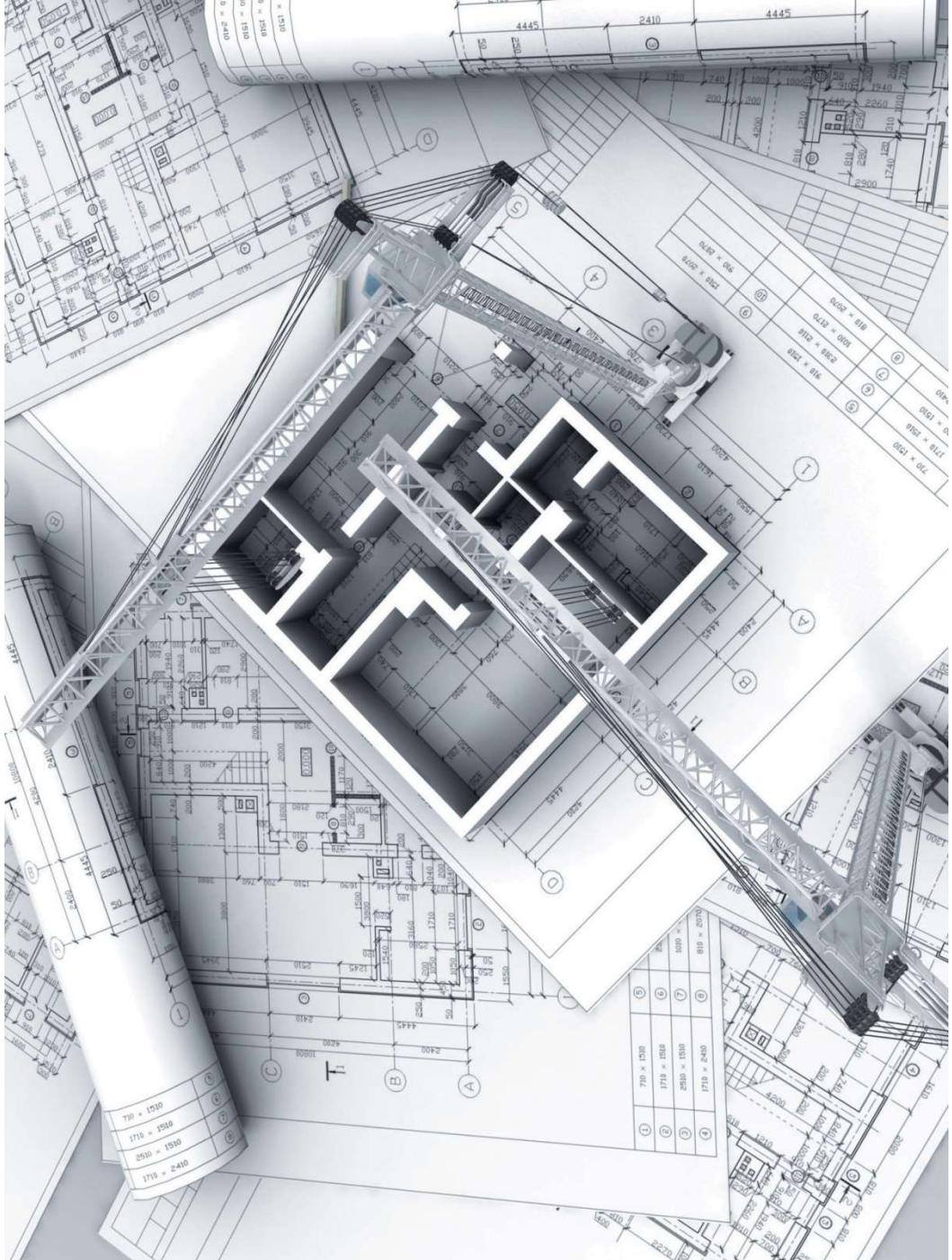
GIDROLICA IS A RELIABLE PARTNER

The advantage of our drainage systems has been appreciated by RosKosmos, RusGidro, RosAtom, Lukoil, Gazprom, SIBUR, Rosneft, Russian Railways, Norilsk Nikel and many other companies engaged in construction of federal facilities.

Among the customers of Gidrolica company there are large foreign DIY retail chains, such as Leroy Merlin, OBI, Castorama, STD Petrovich, etc.



- MATERIAL CHARACTERISTICS
- RECOMMENDATIONS ON SELECTION, INSTALLATION AND OPERATION
- CLASSES OF LOADING AND FIELD OF APPLICATION
- HYDRAULIC CALCULATION
- HYDRAULIC PROPERTIES OF DRAINAGE GUTTERS
- GENERAL RECOMMENDATIONS ON INSTALLATION AND OPERATION OF SURFACE DRAINAGE SYSTEMS
- GENERAL DIAGRAMS OF SURFACE DRAINAGE SYSTEM CONSTRUCTION



PRODUCT SPECIFICATIONS AND RECOMMENDATIONS ON INSTALLATION OF SURFACE DRAINAGE SYSTEMS GIDROLICA®



MATERIAL CHARACTERISTICS

To ensure the quality and long-term operation of surface drainage systems Gidrolica®, modern sound materials are used to manufacture them in accordance with GOST and building regulations.

Surface drainage systems Gidrolica® are the only systems that offer drainage gutters from all types of materials on the market today: concrete, polymer concrete, polymer sand, and frost-resistant plastic.

Concrete

Concrete is a well-known material characterized by resistance to high loads, moisture and frost resistance, reliability, high quality properties, which is successfully used for the manufacturing of drainage gutters Gidrolica®.

Concrete specification

PARAMETER NAME	NOMINAL VALUE
Compressive strength class	B60
Bending tensile strength class	B(tb) 5,7
Concrete grade according to frost resistance (acc. to the second method – 5% aqueous solution of sodium chloride)	F2300
Водопоглощение бетона, %	2,2%
Water-resistant concrete grade	W10

Plastic

When manufacturing surface drainage systems Gidrolica®, frost-resistant polypropylene with improved impact and freeze-thaw resistance is used.

Propylene copolymer specification (frost-resistant polypropylene), (according to GOST 26996-86)

PARAMETER NAME	NOMINAL VALUE
Density, kg/m ³	889
Water absorption for 24h, %	0,013
Melting temperature, °C	163
Brittle temperature, °C	-54
Flex modulus	1120
Rockwell hardness number,	46



GENERAL RECOMMENDATIONS ON SELECTION, INSTALLATION AND OPERATION OF SURFACE DRAINAGE SYSTEMS

In order for the surface drainage system to work efficiently for a long time, it is necessary:

- ◆ to select all components of the surface drainage system properly.
- ◆ To install the system correctly.
- ◆ To operate the system correctly.

To make a professional decision concerning drainage at your facility, we recommend you to contact the specialists of our company, who select the most suitable solution for your facility in accordance with the basic rules.

The first rule – compliance with classes of loading

The basic rule in selecting components of surface drainage systems is their compliance with the stated loading of the area where these systems are installed. Whether it is a pedestrian area, a passage zone for cars, trucks, or snow-cleaning equipment, you should always select gutters and grates, as well as sand traps and storm water basins according to the class of loading. Gidrolica company uses the load classification according to EN 1433.

The second rule – compliance with throughput capability

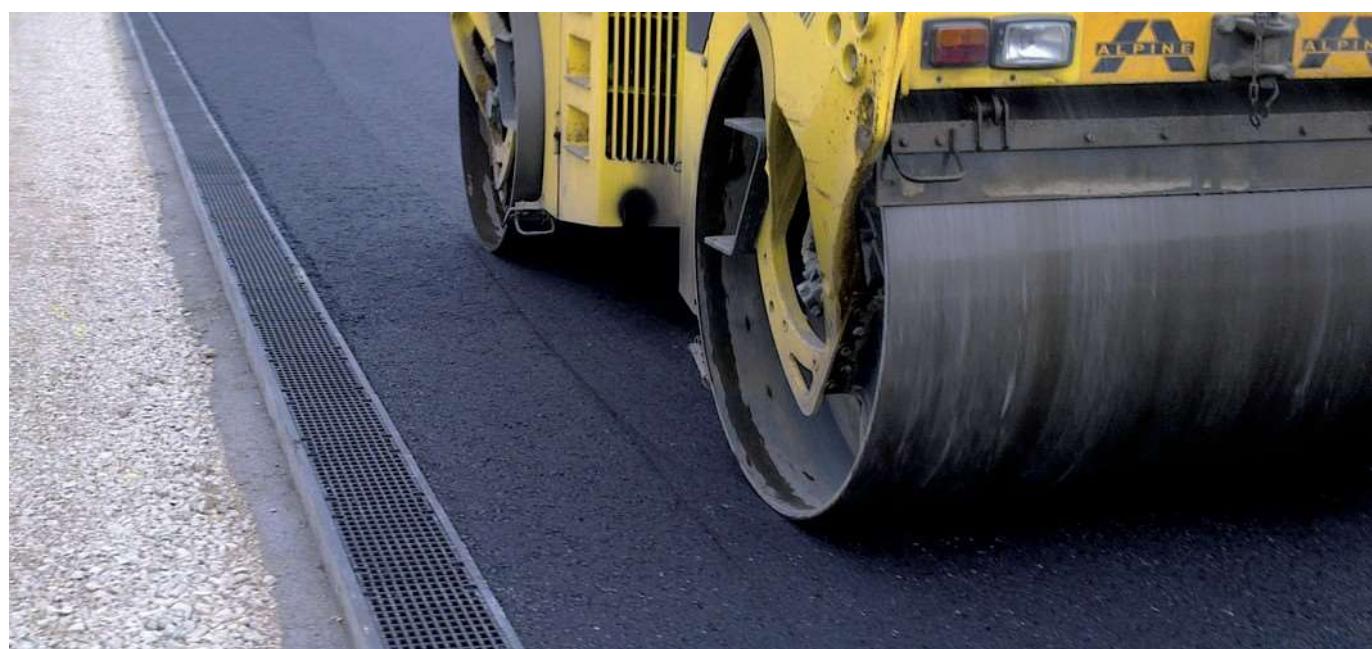
When designing surface drainage systems, it is necessary to take into account the water catchment area at your facility, slopes of the surfaces from which the catchment is performed, the volume of storm and melt water of your region. For this purpose, a hydraulic calculation is carried out, and experts select drainage gutters with the necessary throughput capability.

The third rule – compliance with installation requirements

In order for the surface drainage system to operate for many years, installation of the system should be carried out in accordance with the installation requirements. It is mandatory to install gutters in a concrete base. The thickness of the base depends on the intended load.

The fourth rule – compliance with operation requirements

For effective and smooth operation of the surface drainage system it is necessary to ensure its timely cleaning and constant monitoring of the clogging level. Cleaning of the system is very simple due to the removable storm water grates. The frequency depends on the facility, at average, cleaning should be carried out once a month.



Class of loading	Permissible loading kN/t	Application field	Plastic drainage systems	Concrete drainage systems	Soil protection and stabilization systems,	Class of loading
	A 15	15/1,5	Pedestrian areas? Sidewalks, public gardens, parks, bikeways, private house building	DN100 Gidrolica® Light PolyLight Gidrolica® Standart Gidrolica® Standart Plus Gidrolica® PolyStandart	BGF BGU	Gidrolica® Point Gidrolica® Garden Gidrolica® Street Gidrolica® Step Pro Gidrolica® Step
	B 125	125/12,5	Private house building private garages	DN150 Gidrolica® Standart Gidrolica® Standart Plus	BGF BGU	Gidrolica® Point Gidrolica® Eco Pro Gidrolica® Eco Standart
	C 250	250/25	Roadsides, parking lots, garages	DN200 Gidrolica® Standart Gidrolica® Standart Plus Gidrolica® PolyStandart	BGF BGU	Gidrolica® Point Gidrolica® Eco Pro Gidrolica® Eco Standart
	D 400	400/40	Fuel stations, carwashes, automobile companies, transport terminals, Industrial zones	DN300 Gidrolica® Standart Gidrolica® Pro	BGU	Gidrolica® Point Gidrolica® Eco Pro Gidrolica® Eco Standart
	E 600	600/60	Industrial facilities, moorings, storage facilities	DN400	BGU	
	F 900	900/90	Areas with high load on road carpet, airports, military bases, cargo terminals	DN500	BGU-XL	
				DN100 Gidrolica® Standart Gidrolica® Standart Plus Gidrolica® PolyStandart	BGF BGU	
				DN150 Gidrolica® Standart Gidrolica® Standart Plus Gidrolica® Pro	BGU	
				DN200 Gidrolica® Standart Gidrolica® Standart Plus Gidrolica® PolyStandart	BGF BGU	
				DN300 Gidrolica® Standart Gidrolica® Pro	BGU	
				DN400	BGU	
				DN500	BGU-XL	
				DN100 Gidrolica® Super	BGF-Z BGU-Z	
				DN150 Gidrolica® Super	BGF-Z BGU-Z	Gidrolica® Eco Super
				DN200 Gidrolica® Super	BGF-Z BGU-Z	
				DN300 Gidrolica® Super	BGF-Z BGU-Z	
				DN100 Gidrolica® Super	BGF-Z BGU-Z	
				DN150 Gidrolica® Super	BGF-Z BGU-Z BGZ-S	
				DN200 Gidrolica® Super	BGF-Z BGU-Z BGZ-S	
				DN300 Gidrolica® Super	BGZ-S	
				DN400	BGZ-S	
				DN500	BGZ-S BGM	
				DN200	BGM	
				DN300	BGM	
				DN400	BGM	
				DN500	BGM	

HYDRAULIC CALCULATION OF WATER DISPOSAL SYSTEMS

Hydraulic calculation of surface drainage systems is carried out according to SP 32.13330.2012 "Sewerage. Public utilities", revised edition of SNiP 2.04.03-85.

The design flow of rainwater Q_r , l/s, in sections of drainage lines that back away rain and melt water from residential areas and enterprise sites, should be determined by the method of limiting intensities according to the formula:

$$Q_r = \frac{\psi_{mid} A F}{t_r^n}, \quad (1)$$

where A, n – parameters characterizing the intensity and duration of rain for a particular area;

ψ_{mid} – average drain coefficient, determined as a weighted mean value depending on the value of ψ_i for various types of catchment surfaces;

F – nominal drain area, ha;

t_r^n – nominal duration of rain up to the calculated area, equal to the duration of surface water flow over the surface to the considered section of the gutter and along the gutter lines.

The parameters A and n are determined according to the formula:

$$A = q_{20} 20^n \left(1 + \frac{\lg P}{\lg m_r}\right)^y, \quad (2)$$

where q_{20} – rain intensity for a given area lasting 20 minutes at $P = 1$; P – period of single exceeding of the calculated rain intensity, years;

m_r – average amount of rain per year;

y – exponent that takes into account the climatic characteristics of the regions.

Nominal duration of rain t_r is determined according to the formula:

$$t_r = t_{con} + t_{can}, \quad (3)$$

where t_{con} – time of surface concentration of rainwater drain, min;

t_{can} – duration of the rainwater flow along rain gutters, min.

Duration of the rainwater flow along rain gutters t_{can} is determined according to the formula:

$$t_{can} = 0,021 \sum_{i=1}^n (l_{can} / v_{can}), \quad (4)$$

where l_{can} – length of gutter sections, m;

v_{can} – design flow rate at a section, m/s.

Average drain coefficient depends on the drain surface type z_{mid} and is determined according to the formula:

$$\psi_{mid} = \frac{z_{mid} A^{0,2}}{t_r^{0,2n-0,1}}, \quad (5)$$

where z_{mid} – average coefficient value characterizing the type of the drain surface (cover coefficient) is determined as a weighted mean value depending on the coefficients z_i for different types of surface.

When introducing the coefficient ψ_{mid} to the formula (1), main calculating formula to determine the rainwater flow rate, l/s, is the following:

$$Q_r = \frac{z_{mid} A^{1,2} F}{t_r^{1,2n-0,1}}, \quad (6)$$

Gutter filling degree, %:

$$\alpha = \frac{Q_r}{q_{can}} \cdot 100\%, \quad (7)$$

where q_{can} – gutter throughput capability, l/s.

Nominal size of gutter	SURFACE SLOPE ALONG GUTTER LINE, %										
	1	2	3	5	6	8	10	20	30	50	100
GIDROLICA® LIGHT											
DN90											
H = 96 mm	1.74	2.46	3.01	3.88	4.26	4.91	5.49	7.77	9.52	12.28	17.37
GIDROLICA® STANDART/STANDART PLUS											
DN100											
H = 63 mm	1.25	1.77	2.16	2.79	3.06	3.54	3.95	5.59	6.85	8.84	12.50
H = 80 mm	1.68	2.37	2.90	3.75	4.10	4.74	5.30	7.49	9.18	11.85	16.75
H = 100 mm	2.47	3.49	4.28	5.52	6.05	6.99	7.81	11.05	13.53	17.47	24.70
H = 120 mm	3.63	5.13	6.29	8.12	8.89	10.27	11.48	16.23	19.88	25.66	36.29
H = 135 mm	3.65	5.17	6.33	8.17	8.95	10.34	11.56	16.34	20.02	25.84	36.55
H = 185 mm	5.92	8.38	10.26	13.25	14.51	16.76	18.73	26.50	32.45	41.89	59.24
DN150											
H = 100 mm	4.47	6.32	7.74	9.99	10.94	12.64	14.13	19.98	24.47	31.59	44.68
H = 185 mm	11.45	16.19	19.83	25.60	28.04	32.38	36.20	51.20	62.71	80.95	114.48
DN200											
H = 100 mm	6.07	8.59	10.52	13.58	14.88	17.18	19.21	27.17	33.27	42.95	60.75
H = 185 mm	17.18	24.29	29.75	38.41	42.07	48.58	54.32	76.82	94.08	121.46	171.77
H = 235 mm	23.97	33.90	41.51	53.59	58.71	67.79	75.79	107.19	131.28	169.48	239.68
DN300											
H = 280 mm	41.05	58.05	71.10	91.79	100.55	116.10	129.81	183.57	224.83	290.25	410.48
H = 380 mm	68.54	96.94	118.72	153.27	167.90	193.87	216.76	306.54	375.44	484.69	685.45
H = 480 mm	96.83	136.93	167.71	216.51	237.18	273.87	306.19	433.02	530.34	684.67	968.27
GIDROLICA® SUPER											
DN100											
H = 82 mm	1.25	1.77	2.16	2.79	3.06	3.54	3.95	5.59	6.85	8.84	12.50
H = 98 mm	1.68	2.37	2.90	3.75	4.10	4.74	5.30	7.49	9.18	11.85	16.75
H = 118 mm	2.47	3.49	4.28	5.52	6.05	6.99	7.81	11.05	13.53	17.47	24.70
H = 138 mm	3.63	5.13	6.29	8.12	8.89	10.27	11.48	16.23	19.88	25.66	36.29
H = 154 mm	3.65	5.17	6.33	8.17	8.95	10.34	11.56	16.34	20.02	25.84	36.55
H = 203 mm	5.92	8.38	10.26	13.25	14.51	16.76	18.73	26.50	32.45	41.89	59.24
DN150											
H = 119 mm	4.47	6.32	7.74	9.99	10.94	12.64	14.13	19.98	24.47	31.59	44.68
H = 204 mm	11.45	16.19	19.83	25.60	28.04	32.38	36.20	51.20	62.71	80.95	114.48
DN200											
H = 119 mm	6.07	8.59	10.52	13.58	14.88	17.18	19.21	27.17	33.27	42.95	60.75
H = 204 mm	17.18	24.29	29.75	38.41	42.07	48.58	54.32	76.82	94.08	121.46	171.77
H = 253 mm	23.97	33.90	41.51	53.59	58.71	67.79	75.79	107.19	131.28	169.48	239.68
DN300											
H = 296 mm	41.05	58.05	71.10	91.79	100.55	116.10	129.81	183.57	224.83	290.25	410.48
H = 396 mm	68.54	96.94	118.72	153.27	167.90	193.87	216.76	306.54	375.44	484.69	685.45
H = 496 mm	96.83	136.93	167.71	216.51	237.18	273.87	306.19	433.02	530.34	684.67	968.27

Note: Throughput capability of gutters is specified in l/s and deigned for 100% filling of a gutter

Nominal size of gutter	SURFACE SLOPE ALONG GUTTER LINE, %										
	1	2	3	5	6	8	10	20	30	50	100
BGF-Z											
DN100											
H = 100 mm	0.73	1.03	1.26	1.63	1.78	2.06	2.30	3.26	3.99	5.15	7.28
DN150											
H = 100 mm	1.21	1.71	2.10	2.71	2.96	3.42	3.83	5.41	6.63	8.56	12.10
DN200											
H = 100 mm	1.71	2.42	2.96	3.82	4.19	4.84	5.41	7.65	9.37	12.09	17.10
BGU-Z											
DN100											
H = 165 mm	2.02	2.86	3.50	4.52	4.95	5.71	6.39	9.04	11.07	14.29	20.20
H = 190 mm	2.75	3.89	4.76	6.15	6.73	7.77	8.69	12.29	15.05	19.43	27.48
H = 215 mm	3.49	4.93	6.04	7.80	8.54	9.86	11.03	15.60	19.10	24.66	34.88
DN150											
H = 215 mm	5.94	8.40	10.29	13.28	14.55	16.80	18.78	26.56	32.53	41.99	59.39
H = 240 mm	7.19	10.18	12.47	16.10	17.64	20.36	22.77	32.20	39.43	50.91	71.96
H = 265 mm	8.56	12.10	14.82	19.13	20.96	24.20	27.06	38.27	46.87	60.51	85.57
DN200											
H = 280 mm	12.62	17.85	21.87	28.23	30.92	35.71	39.92	56.46	69.14	89.26	126.24
H = 305 mm	15.01	21.23	26.00	33.56	36.77	42.45	47.46	67.12	82.21	106.13	150.09
H = 330 mm	17.20	24.32	29.78	38.45	42.12	48.64	54.38	79.90	94.19	121.59	171.96
BGZ-S											
DN150											
H = 240 mm	6.59	9.33	11.42	14.74	16.15	18.65	20.85	29.49	36.12	46.63	65.94
H = 265 mm	8.06	11.39	13.95	18.01	19.73	22.79	25.48	36.03	44.13	56.97	80.56
H = 290 mm	9.48	13.41	16.42	21.20	23.22	26.81	29.98	42.39	51.92	67.03	94.79
H = 315 mm	10.97	15.51	19.00	24.53	26.87	31.02	34.68	49.05	60.07	77.56	109.68
H = 340 mm	12.41	17.55	21.49	27.75	30.39	35.10	39.24	55.49	67.96	87.74	124.08
DN200											
H = 295 mm	13.17	18.62	22.81	29.44	32.25	37.24	41.64	58.88	72.12	93.10	131.66
H = 320 mm	15.47	21.88	26.80	34.60	37.90	43.76	48.90	69.19	84.74	109.40	154.71
H = 345 mm	17.80	25.17	30.83	39.80	43.60	50.34	56.28	79.60	97.48	125.85	177.98
H = 370 mm	20.14	28.48	34.89	45.04	49.34	56.98	63.69	90.07	110.32	142.42	201.41
H = 395 mm	22.50	31.82	38.97	50.31	55.11	63.63	71.14	100.61	123.22	159.08	224.98
DN300											
H = 395 mm	39.42	55.74	68.27	88.13	96.55	111.48	124.64	176.27	215.88	278.71	394.15
H = 420 mm	43.77	61.91	75.82	97.88	107.22	123.81	138.42	195.76	239.76	309.24	437.73
H = 445 mm	48.50	68.59	84.01	108.45	118.80	137.18	153.73	216.90	265.65	342.95	485.01
H = 470 mm	52.95	74.88	91.71	118.40	129.70	149.76	167.44	236.80	290.02	374.41	529.49
H = 495 mm	57.69	81.59	99.92	129.00	141.31	163.17	182.43	258.00	315.98	407.93	576.90
DN400											
H = 395 mm	56.38	79.74	97.66	126.07	138.10	159.47	178.29	252.15	308.82	398.68	563.82
H = 420 mm	63.45	89.73	109.90	141.88	155.42	179.46	200.64	283.75	347.53	448.65	634.49
H = 445 mm	70.59	99.83	122.27	157.85	172.91	199.66	223.23	315.70	386.65	499.16	705.92
H = 470 mm	77.80	110.02	134.75	173.96	190.57	220.05	246.02	347.92	426.12	550.11	777.98
H = 495 mm	85.06	120.29	147.32	190.19	208.35	240.58	268.98	380.39	465.88	601.45	850.57
DN500											
H = 450 mm	84.62	119.67	146.56	189.21	207.27	239.34	267.58	378.42	463.47	598.34	846.18
H = 475 mm	94.65	133.86	163.94	211.65	231.85	267.72	299.32	423.30	518.43	669.29	946.52
H = 500 mm	104.81	148.22	181.53	243.36	256.72	296.44	331.43	468.71	574.05	741.09	1048.07
H = 525 mm	115.06	162.72	199.30	257.29	281.85	325.45	363.86	514.58	630.23	813.62	1150.63
H = 550 mm	125.41	177.35	217.21	280.42	307.18	354.71	396.57	560.84	686.88	886.76	1254.07

Note: Throughput capability of gutters is specified in l/s and deigned for 100% filling of a gutter



Nominal size of gutter	SURFACE SLOPE ALONG GUTTER LINE, % _{oo}										
	1	2	3	5	6	8	10	20	30	50	100
BGM											
DN200											
H = 310 mm	10.65	15.06	18.44	23.81	26.08	30.11	33.67	47.61	58.31	75.28	106.47
H = 335 mm	12.85	18.17	22.25	28.73	31.47	36.34	40.62	57.45	70.36	90.84	128.47
H = 360 mm	15.20	21.50	26.33	34.00	37.24	43.00	48.08	67.99	83.27	107.51	152.04
H = 385 mm	17.52	24.78	30.35	39.18	42.92	49.56	55.41	78.36	95.97	123.90	175.22
H = 410 mm	19.72	27.89	34.16	44.10	48.31	55.79	62.37	88.21	108.03	139.47	197.24
DN300											
H = 310 mm	21.70	30.69	37.58	48.52	53.15	61.37	68.62	97.04	118.85	153.43	216.98
H = 410 mm	38.14	53.94	66.06	85.28	93.42	107.87	120.60	170.56	208.89	269.68	381.38
H = 450 mm	40.08	56.69	69.43	89.63	98.19	113.38	126.76	179.26	219.55	283.44	400.85
H = 475 mm	44.38	62.77	76.88	99.25	108.72	125.54	140.36	198.49	243.10	313.85	443.85
H = 500 mm	48.64	68.78	84.24	108.76	119.14	137.57	153.81	217.51	266.40	343.92	486.38
H = 525 mm	53.20	75.24	92.15	118.97	130.32	150.49	168.25	237.94	291.41	376.21	532.04
H = 550 mm	58.89	83.28	102.00	131.68	144.25	166.57	186.23	263.36	322.55	416.41	588.90
DN400											
H = 450 mm	63.25	89.45	109.56	141.44	154.94	178.90	200.02	282.87	346.45	447.26	632.52
H = 475 mm	70.38	99.53	121.90	157.37	172.39	199.06	222.56	314.74	385.48	497.65	703.79
H = 500 mm	77.57	109.70	134.35	173.45	190.01	219.40	245.30	346.90	424.87	548.50	775.69
H = 525 mm	83.81	118.53	145.17	187.42	205.30	237.06	265.05	374.83	459.07	592.66	838.15
H = 550 mm	90.08	127.40	156.03	201.43	220.66	254.79	284.87	402.86	493.40	636.98	900.83
DN500											
H = 450 mm	79.81	112.86	138.23	178.45	195.48	225.72	252.37	356.90	437.11	564.31	798.05
H = 475 mm	89.78	126.96	155.50	200.75	219.91	253.93	283.90	401.50	491.73	634.82	897.76
H = 500 mm	99.66	140.94	172.62	222.85	244.12	281.89	315.16	445.70	545.87	704.72	996.62
H = 525 mm	110.09	155.69	190.68	246.16	269.66	311.37	348.13	492.33	602.97	778.44	1100.87
H = 550 mm	120.06	169.79	207.95	268.46	294.08	339.57	379.66	536.91	657.58	848.94	1200.58
H = 575 mm	130.78	184.95	226.52	292.43	320.34	369.90	413.56	584.86	716.30	924.74	1307.78
H = 600 mm	140.66	198.93	243.63	314.53	344.55	397.85	444.81	629.06	770.43	994.62	1406.61
H = 625 mm	151.75	214.61	262.85	339.33	371.72	429.23	479.89	678.66	831.19	1073.06	1517.54
H = 650 mm	161.62	228.57	279.94	361.40	395.89	457.14	511.09	722.79	885.24	1142.84	1616.22

Note: Throughput capability of gutters is specified in l/s and deigned for 100% filling of a gutter

GENERAL RECOMMENDATIONS ON INSTALLATION AND OPERATION OF POINT DRAINAGE

1. Having determined the exact location of the storm water inlet, it is necessary to mark the direction of the pipeline's drainage gutter trench (connection is possible using pipes Ø50, Ø110, Ø160 mm). The direction should be selected on the basis of the connection possibilities to the surface inlets.
2. Before installation and pouring the concrete casing of the rainwater inlet, it is necessary to prepare the base. The bottom of the casing should rest on the drainage layer, i.e. the base of sand and gravel mix.
3. The formed gravel base is laid on asphaltic felt layer, then a concrete casing is arranged according to the recommended model.
4. To connect the discharge pipe directly to the rainwater inlet, it is necessary to cut a hole in the rainwater inlet wall of the required diameter according to the given templates. The junction of the pipe and inlet should be sealed.
5. Concreting of the rainwater inlet casing is carried out in layers: in the beginning it is performed to the upper edge of the pipe, then to the upper level of the rainwater inlet grate.
6. After concreting and complete drying of the rainwater inlet casing, traps are installed from the side of the drainage pipe joint as partitions (fig. a, b).



Fig. a



Fig. b

7. The basket is installed between partitions and is designed to collect garbage (fig. c).



Fig. c

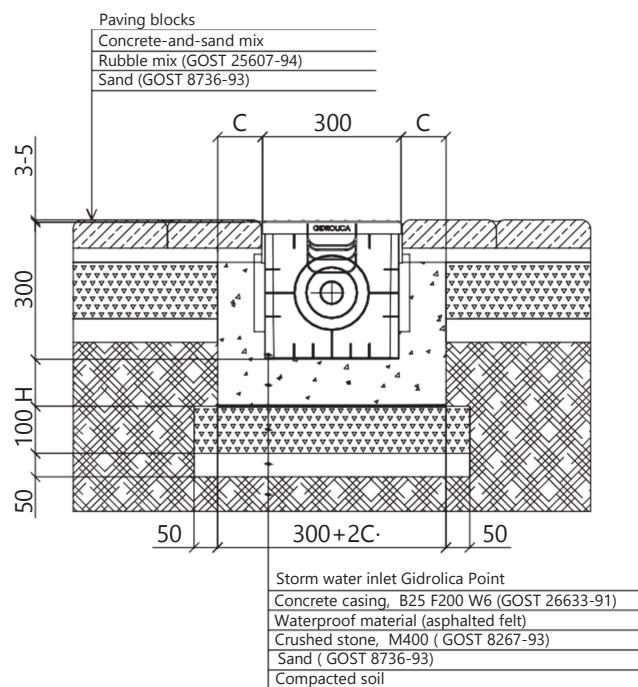
8. The rainwater inlet is covered with a grate, which absorbs mechanical loads, holds large debris, and performs a decorative function (fig. d).



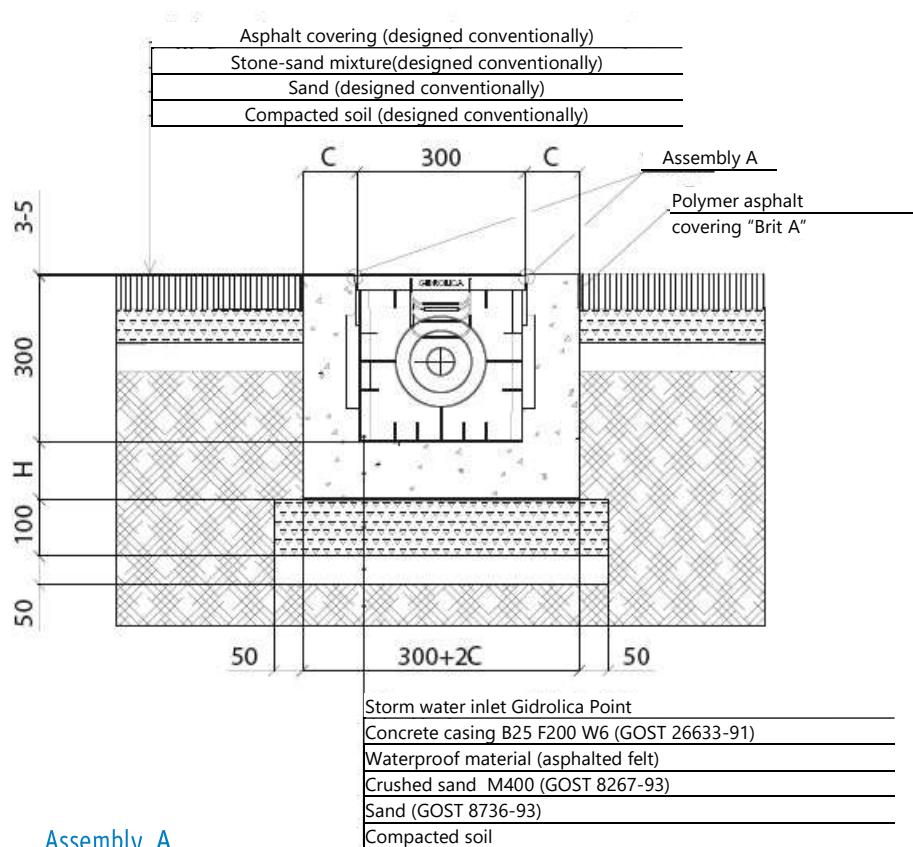
Fig. d

9. After installation, the level of the inlet sewer grate should be 3-5 mm lower than the level of the adjacent catchment surface.
10. To ensure the normal operation of the point drainage system, it is necessary to clean the drain box. The frequency is determined by the service conditions.

Installation diagram of plastic rainwater inlet in the stacked covering,
class of loading A15-C250



Installation diagram of plastic rainwater inlet in asphalt covering, class of
loading A15-C250



Dimension chart of concrete casing

CLASS OF LOADING	A15	B125	C250
Concrete casing width, C, mm	80	100	100
Concrete casing thickness, H, mm	100	100	150
Concrete blinding class			

Note: when changing concrete class, concrete casing dimensions change as well

GENERAL RECOMMENDATIONS ON INSTALLATION AND OPERATION OF SURFACE DRAINAGE SYSTEMS GIDROLICA®

Gutters are laid in a trench on a concrete foundation. Installation should begin with the installation of a sand trap at the bottom elevation of the route, from which it is possible to mark the laying line of the drainage channel.

1. The casing bottom should rest on the drainage blanket, i.e. the base of the compacted sand and gravel mix. The thickness of the artificial base is 10 cm.
2. Waterproofing material is laid on the chipping base M400 (GOST 8267-93) (such materials as asphaltic felt, "Gidroizol", can be used as waterproofing material). After that, a concrete blinding is made of cement concrete B25 F200 W6 (GOST 26633-91). The thickness of the base depends on the received load on the gutter during operation. Concrete should be laid to a level 5-10 mm lower than the design elevation of the gutter bottom.
3. If it is necessary to reinforce the concrete casing of the gutter, reinforcement bars are placed on the formed surface of the concrete blinding. The bars are made of reinforcing steel of the class A-II (GOST 5781-82). The connection of reinforcement bars at the intersections is made by binding wire.

To provide a protective layer, the lower row of reinforcement is laid on the plates of fine-grained concrete or plastic clamps located along the surface of concrete blinding. Protective layer of working reinforcement in the bottom plate of the casing and walls is not less than 30 mm.

4. After the installation of the concrete base, plywood form or ready made form is installed. Form should be reliable, rigid and stable under the influence of installation and transport loads, as well as loads during concreting. Plywood, sawn wood and other wood materials should be processed or covered with waterproof substances. The ends of sawn wood forms should be protected from moisture with a moisture-proof sealant and from mechanical damage – with plastic or metal casing. The installed form should not have vertical and horizontal deviations from the base of the installed gutter line.
5. Before application of the concrete mixture, all the pockets and inside surfaces of the form should be cleaned out of debris and foreign objects. A leveling blanket of cement and sand mix M150 with a thickness of 10 mm across the width of the gutter base is performed on the formed concrete base of the plate.
6. Gutter jointing is carried out at the tongue-and-groove connection. After the gutter installation, it is necessary to check its position by elevation from four sides along the top of the corner.
7. Having installed the sand trap and the adjacent gutters in the design position, joint grouting of the casing walls should be performed. In order to avoid channel displacement, concreting around the channels should be carried out in horizontal layers without a technological gap in one direction of all layers. Each subsequent layer of concrete mix should be laid before the initial set of concrete in the previous layer.

When grouting pockets of the concrete casing, grates or spacers should be installed in the channel during the laying and setting of the concrete. The grates should be wrapped with a film to protect against contamination and ingress of concrete into the channels.

To preserve the properties of concrete and accelerate the strength development, fresh concrete should be covered with a film until it develops strength of at least 70%.

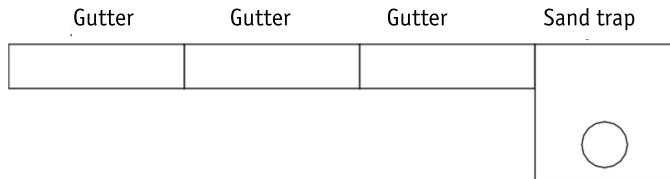
8. The form should be removed, when the concrete develops stripping strength.
9. If necessary, the gutter joints should be sealed (GOST 25945).
10. To make the sealing joint on the line between the grouting casing and gutter during the concreting, it is necessary to use flexible foam polystyrene form along both sides of the drainage gutters to form the joint chamber.

When the concrete develops design strength of the grouting casing, remove the temporary foam polystyrene pad. Pad removal should be performed mechanically using a metal brush. Before sealing the seam, clean it with a brushing machine, purge and dry it with hot air equipment. Drying the seam is a mandatory activity. Treat the seam walls with a primer, then fill the seam chamber with sealant (GOST 25945).

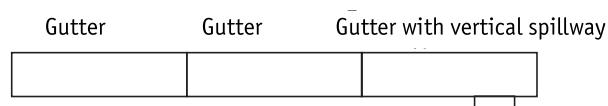
11. After installation, the level of sewer grate should be 3-5 mm lower than the road pavement level. When asphalting the territory, the asphalt spreader should not run into the line of channels.
12. If it is necessary to connect the gutters at an unspecified angle different from the angle of 90°, cut the gutters and grates at the joint point at an angle equal to half of the required angle.
13. To ensure the normal operation of the entire linear drainage system, it is necessary to clean the sand trap basket. The frequency is determined by the service conditions.

GENERAL CONSTRUCTION SCHEMES FOR SURFACE DRAINAGE SYSTEM

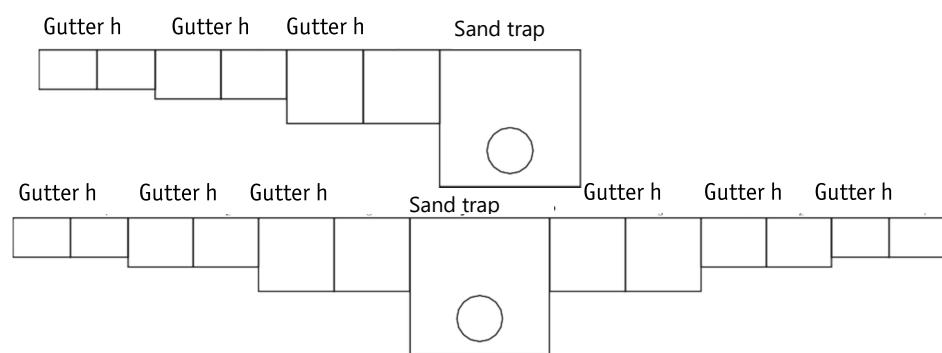
The construction scheme for linear drainage system with the discharge in the sewage facilities using sand traps



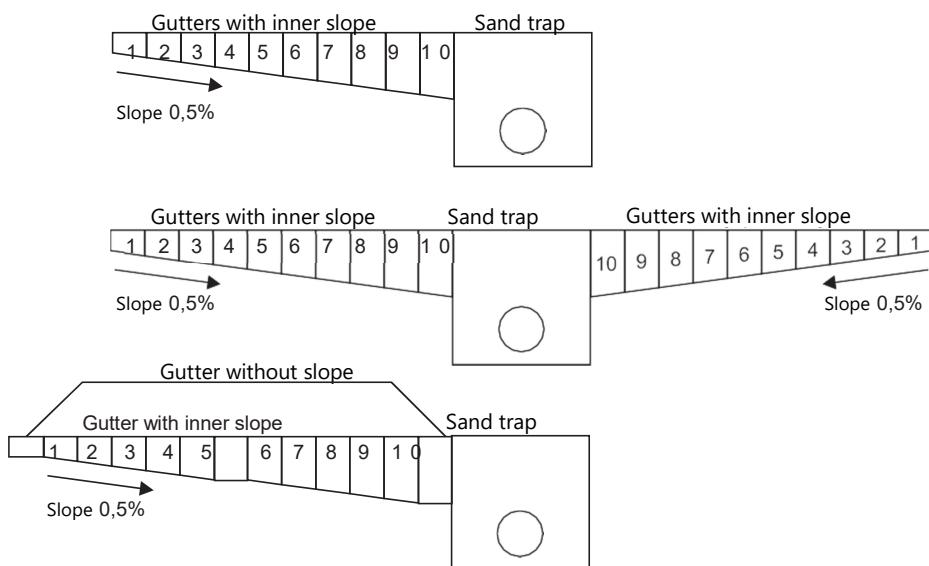
The construction scheme for linear drainage system with the discharge in the sewage facilities using a gutter with vertical spillway



The construction scheme for linear drainage system на местности без уклона с применением каскадного построения лотков

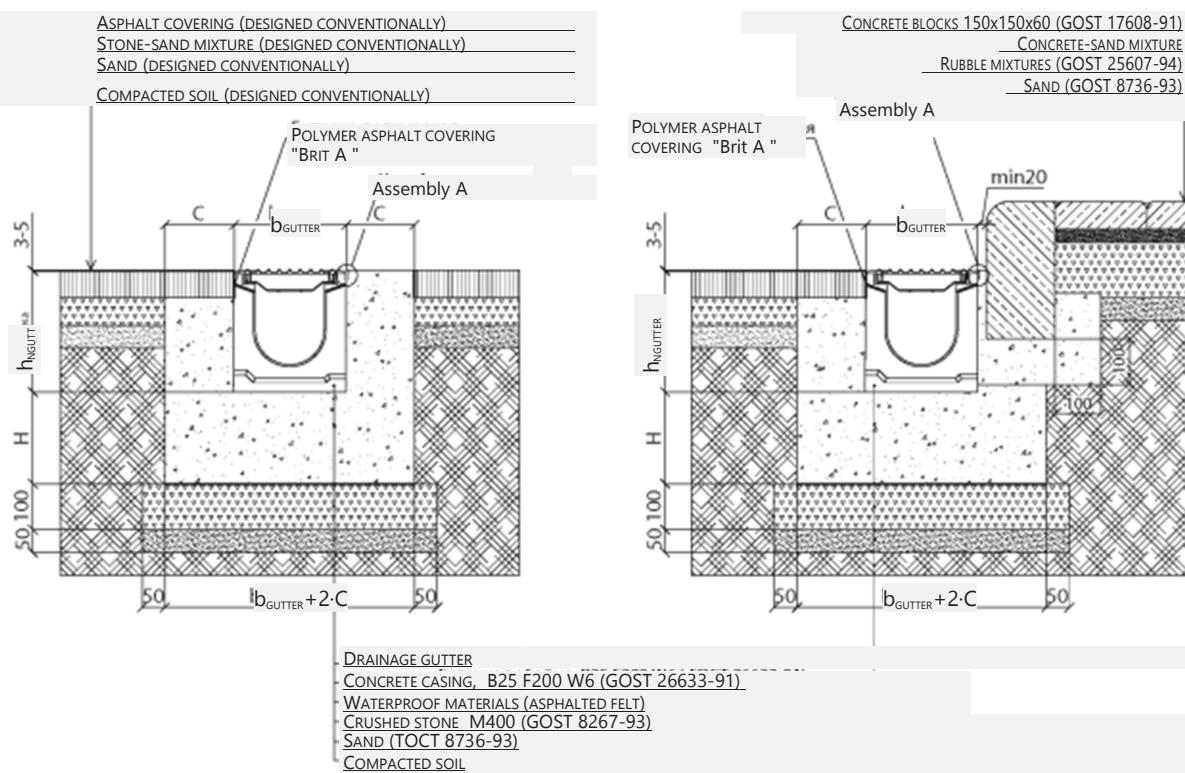


The construction scheme for linear drainage system at the territory without slopes using sloping gutters

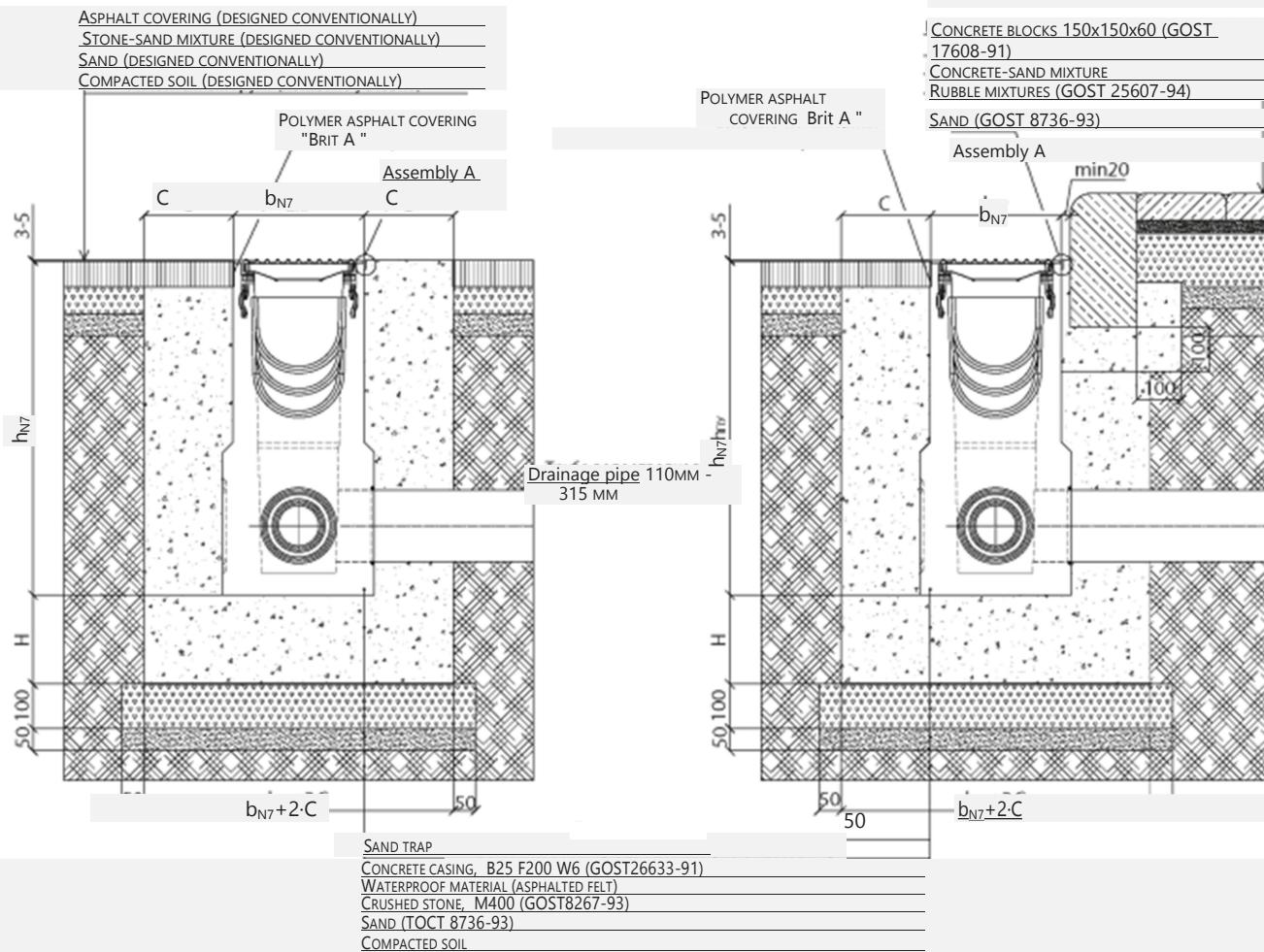




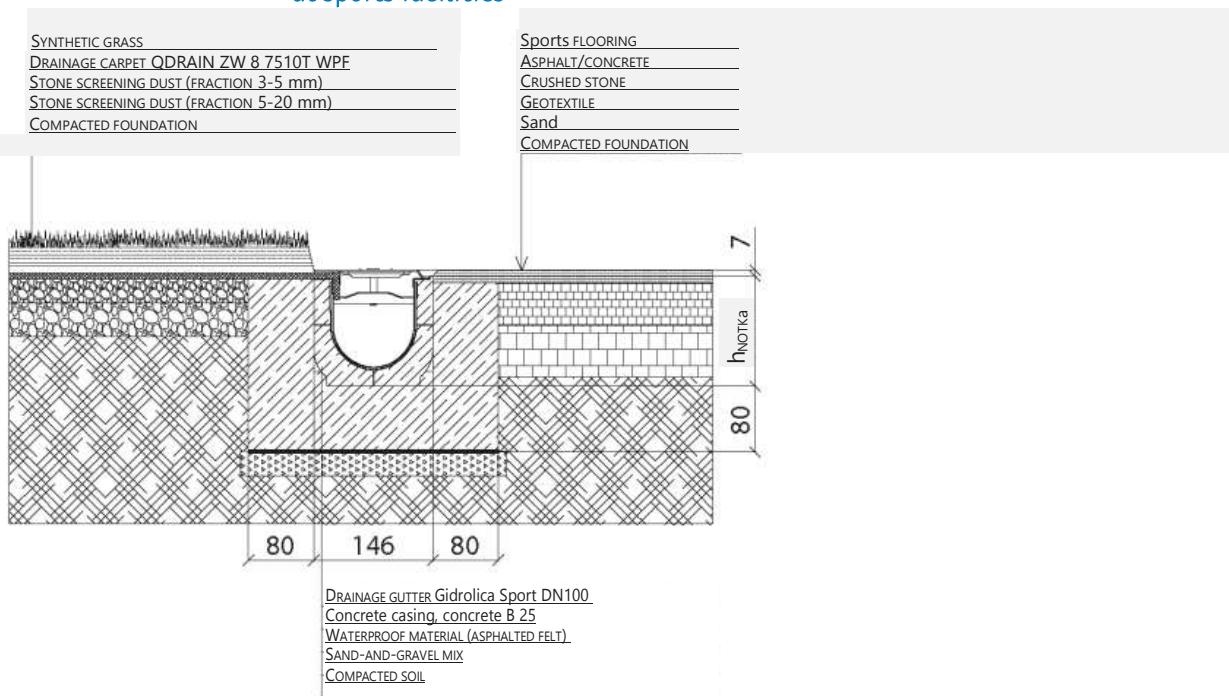
Installation diagram for concrete gutter, class of loading D400 – E600



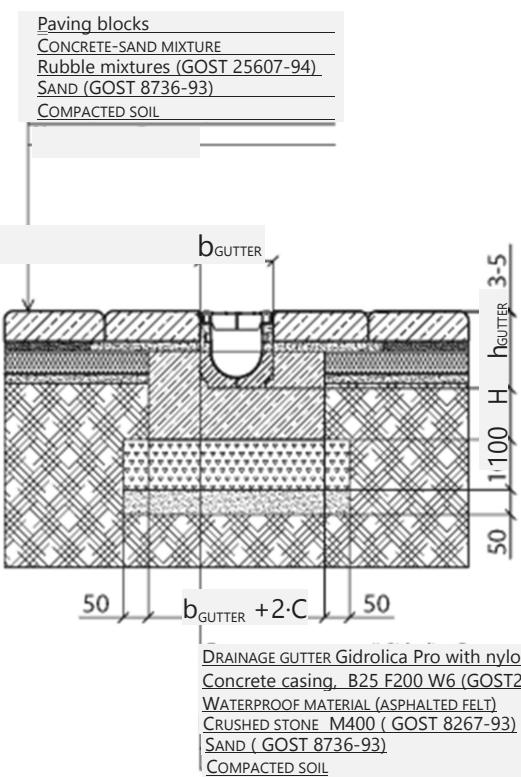
Installation diagram for concrete sand trap, class of loading D400-E600



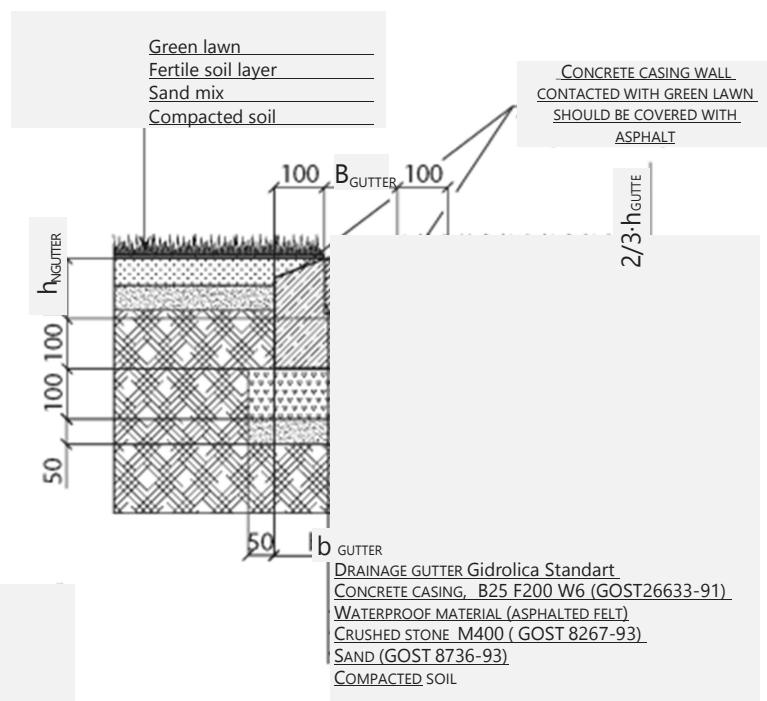
Installation diagram for plastic gutter Gidrolica Sport
at sports facilities



Installation diagram for plastic gutter
Gidrolica Pro
in stacked covering



Installation diagram for plastic gutter
Gidrolica Standart
in lawn covering



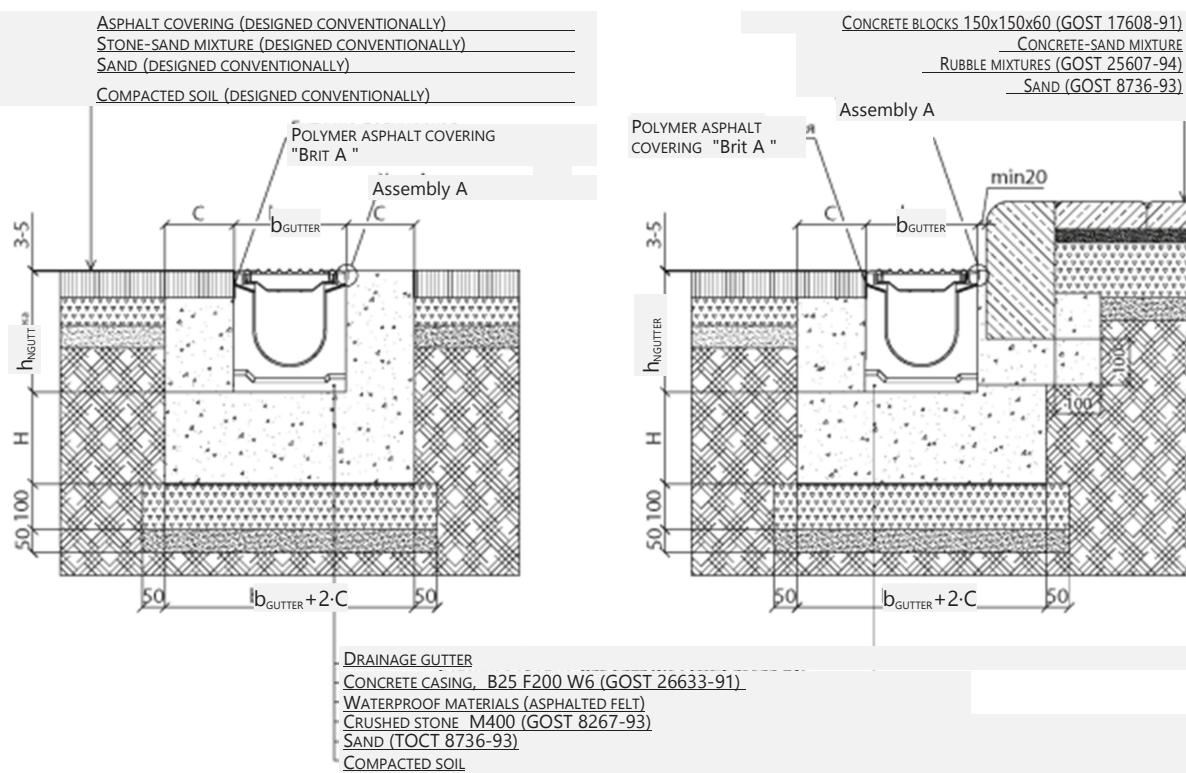
NOTE: INSTALLATION OF THE BLOCKS ADJACENT TO THE GUTTER SHOULD BE PERFORMED ON CONCRETE FOUNDATION

Dimension chart of concrete casing

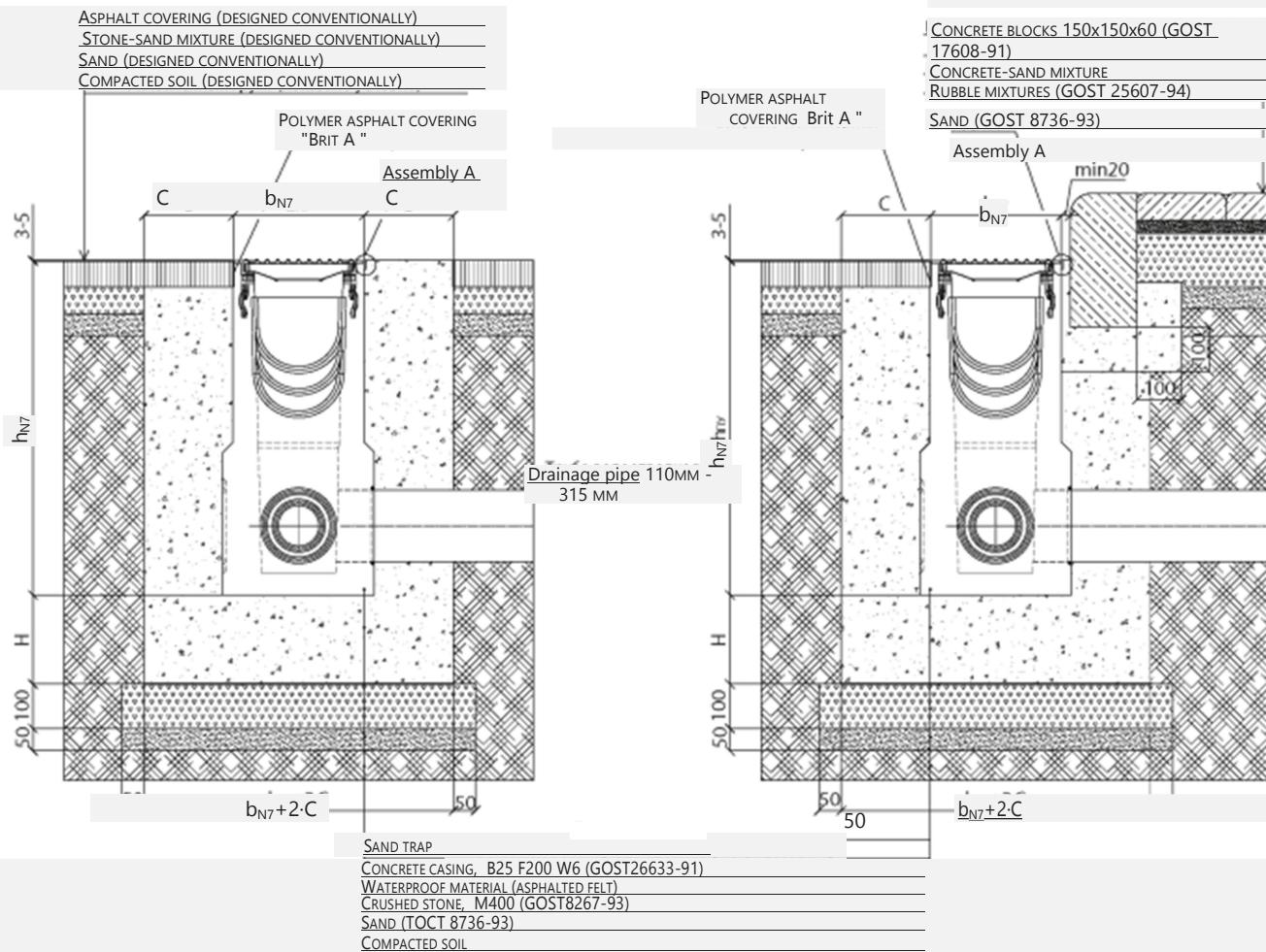
CLASS OF LOADING	A15	B125	C250
Concrete casing width, C, mm	80	100	100
Concrete casing thickness, H, mm	100	100	150
Concrete blinding class	B25	B25	B25



Installation diagram for concrete gutter, class of loading D400 – E600



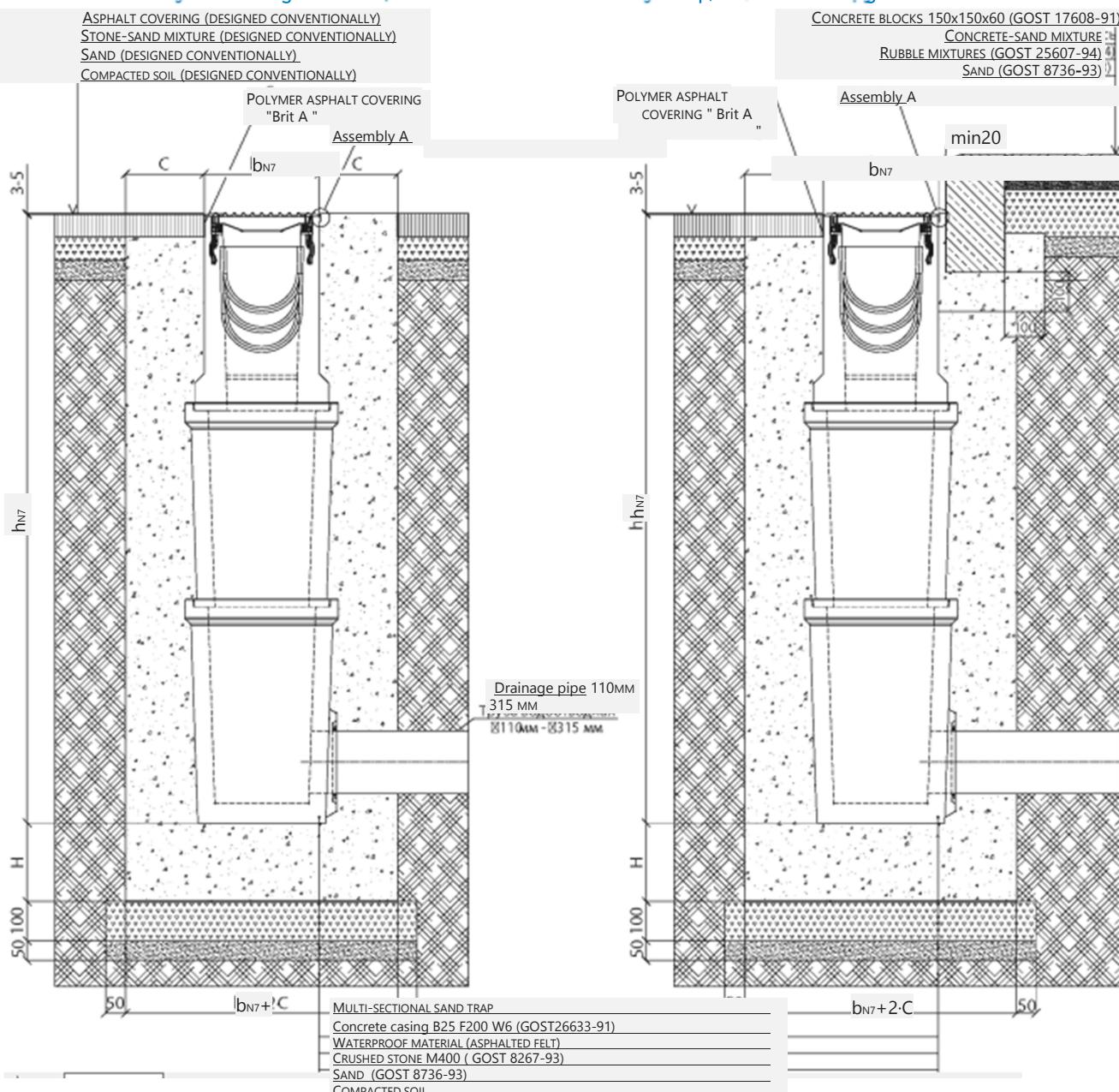
Installation diagram for concrete sand trap, class of loading D400-E600



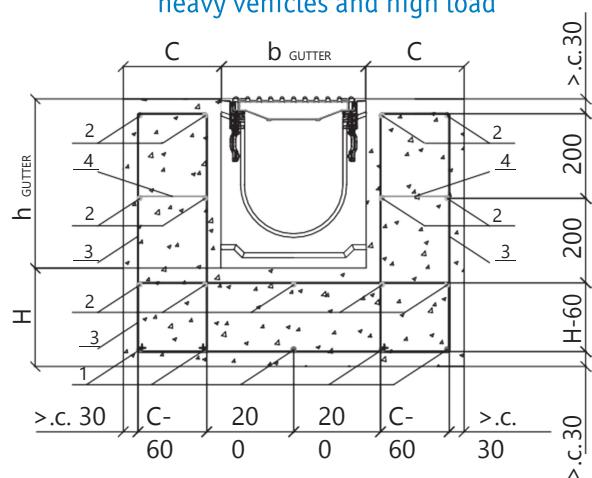
RECOMMENDATIONS

Construction scheme for surface drainage system

Installation diagram for multisectioal concrete sand trap, class of loading D400 – E600



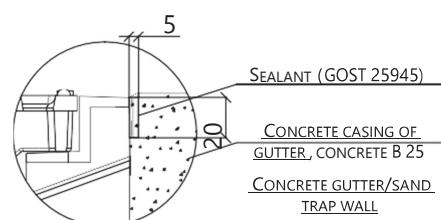
Reinforcement design of concrete casing of drainage gutter of BGZ-S series, class of loading E 600-F900, for the territories with cross-run of heavy vehicles and high load



1. REINFORCED STEEL 12-A-III (A400) GOST 5781-82
2. REINFORCED STEEL 10-A-III (A400) GOST 5781-82

3. REINFORCED STEEL 8- A-III (A400) GOST 5781-82
4. REINFORCED STEEL 6- A-I (A240) GOST 5781-82

Assembly A



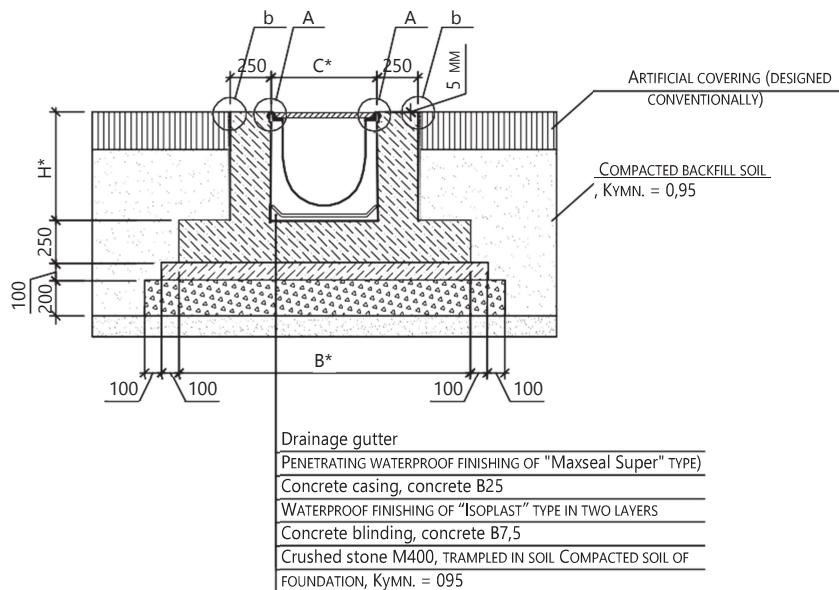
Dimension chart of concrete casing

CLASS OF LOADING	D400	E600
Concrete casing width, C, mm	150	200
Concrete casing thickness, H, mm	200	200
Concrete blinding class	B25	B25

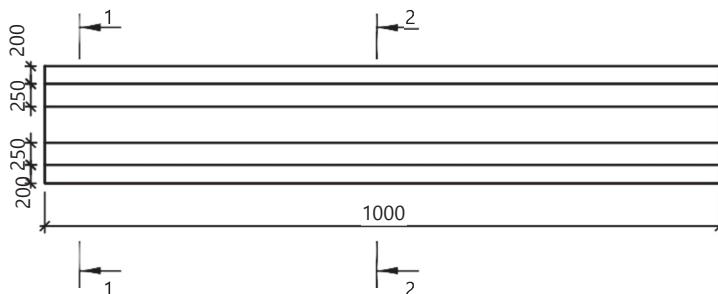
Note: when changing concrete class, concrete casing dimensions change as well



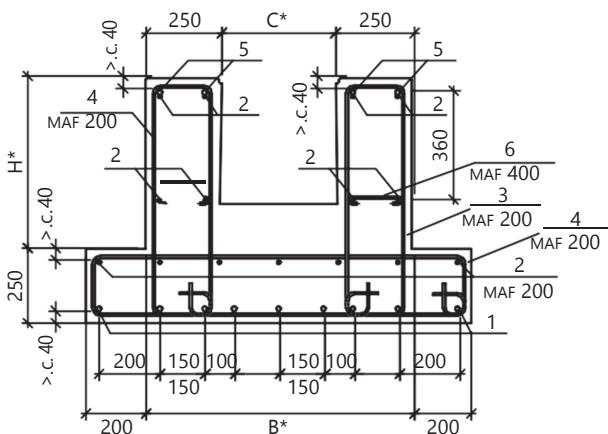
Installation diagram for drainage gutter of BGM F900 series (at ultra high aerodynamic loads)



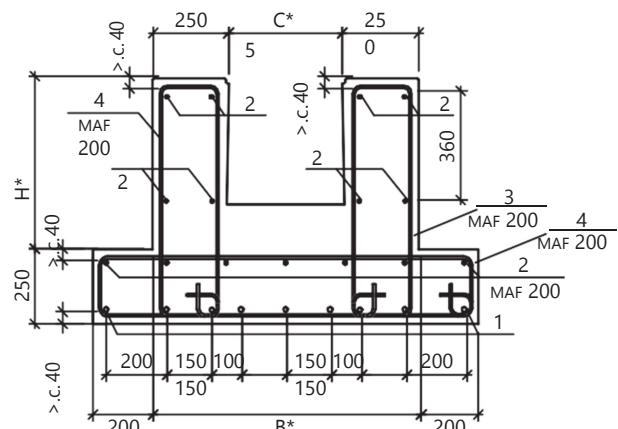
Reinforcement design of concrete casing of drainage gutter of BGM F900 series



1-1



2-2



MATERIAL SPECIFICATION

Reinforcement steel

1/5	$\varnothing 16$ A500C (GOST R 52544-2006)
2	$\varnothing 12$ A500C (GOST R 52544-2006)
3/4/6	$\varnothing 8$ A-I (GOST 5781-82)

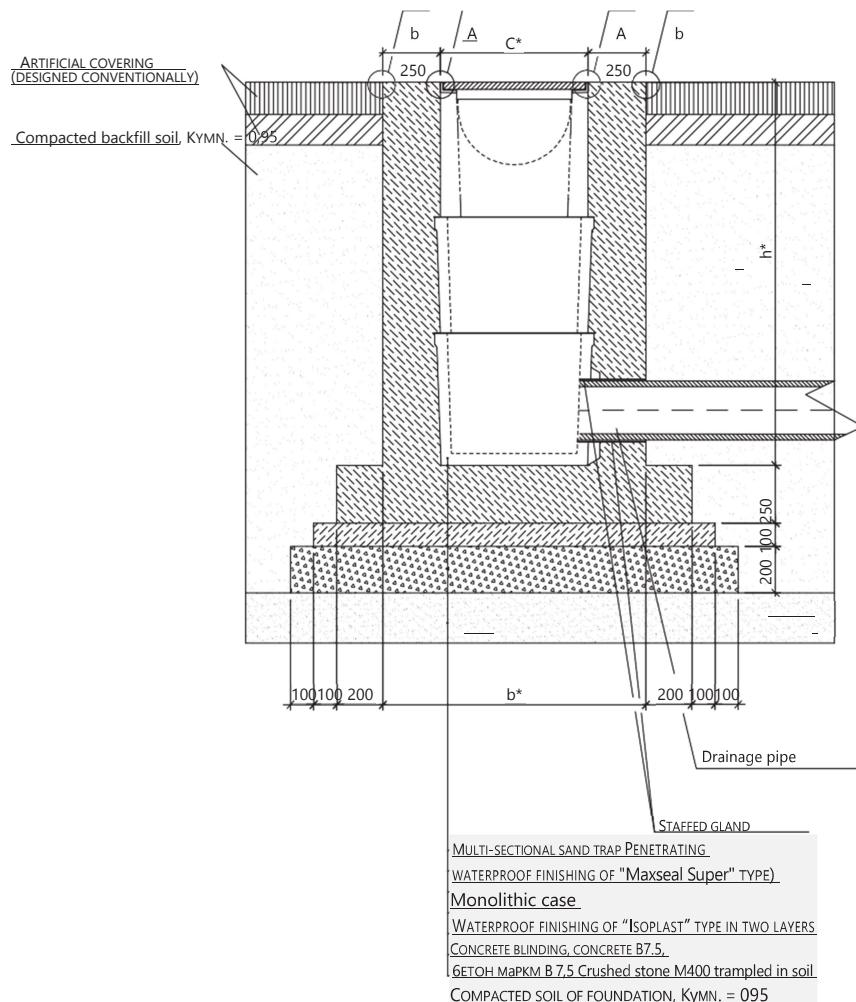
Notes:

- * – Dimension is specified depending on the gutter type
- more detailed installation diagrams are given in the album: Structures of concrete gutters and sand traps for construction of surface drainage systems at aerodromes.
- Structures of monolithic reinforced concrete casings.

RECOMMENDATIONS

Construction scheme for surface drainage system

Installation diagram for
multisectional sand trap of BGM
F900 series



MATERIAL SPECIFICATION

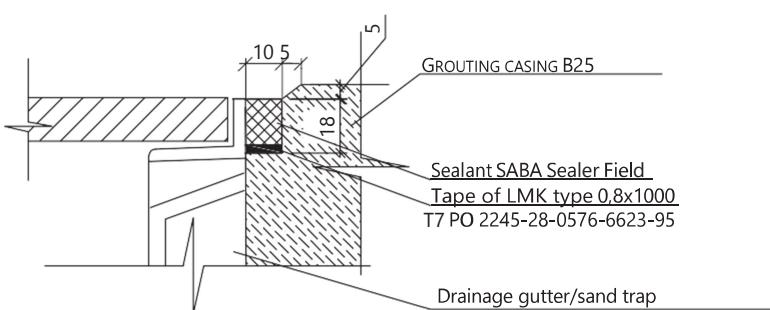
Reinforcement steel

3/4	Ø 14 A500C (ГОСТ Р 52544-2006)
1/2/6/7	Ø 12 A500C (ГОСТ Р 52544-2006)
8	Ø 10 A500C (ГОСТ Р 52544-2006)
9	Ø 10 A240 (ГОСТ 5781-82)
5	Ø 8 A240 (ГОСТ 5781-82)

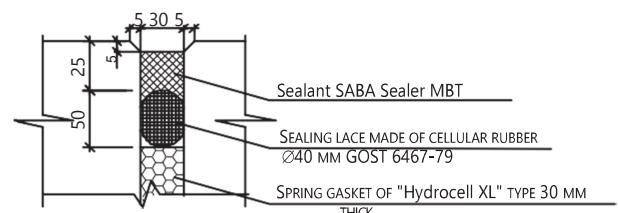
Notes:

- * – Dimension is specified depending on the gutter type
- more detailed installation diagrams are given in the album: Structures of concrete gutters and sand traps for construction of surface drainage systems at aerodromes.
- Structures of monolithic reinforced concrete casings.

Construction joint Assembly A



Construction joint Assembly B





Novosibirsk, road exit, drainage gutters BGZ-S with cast-iron grates

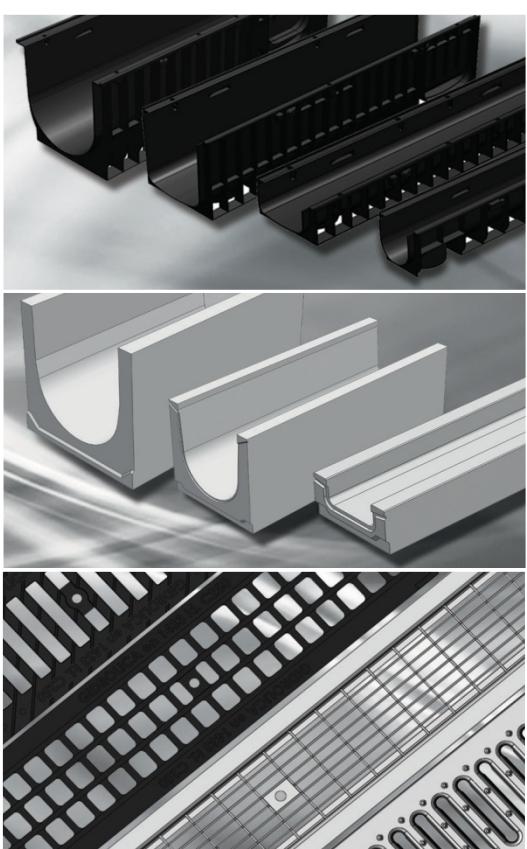


Rosneft, filling station chain, drainage gutters BGU-Z with cast-iron grates



Saint Petersburg, the Mariinsky Theatre, drainage gutters Gidrolica® Standart with galvanized grates

- PLASTIC DRAINAGE SYSTEMS
Gidrolica®Light,
Gidrolica®Standart,
Gidrolica®Standart Plus,
Gidrolica®Pro Gidrolica®Sport
- CONCRETE DRAINAGE SYSTEMS
BGF, BGU, BGU-XL
- POLYMER-CONCRETE DRAINAGE SYSTEMS
Gidrolica®PolyLight,
Gidrolica®PolyStandart



GENERAL-PURPOSE SURFACE DRAINAGE SYSTEMS FOR CLASS OF LOADING A15, B125, C250



Gidrolica® Light/PolyLight is a series of drainage gutters made of polypropylene/polymer concrete, as well as their grates made of galvanized steel or plastic, manufactured specifically for pedestrian areas. It is a perfect solution for suburbs.

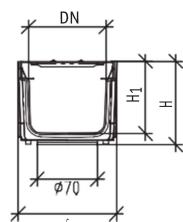
Application field:

- private house building
- country house building
- city development
- sports facilities

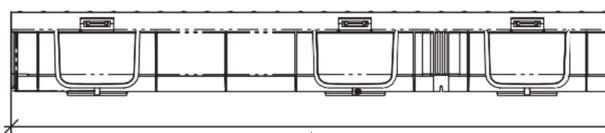
Quality:

- made of frost-resistant polypropylene / polymer concrete
- the material is resistant to difficult environment, as well as to the effects of corrosive substances

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

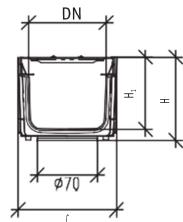
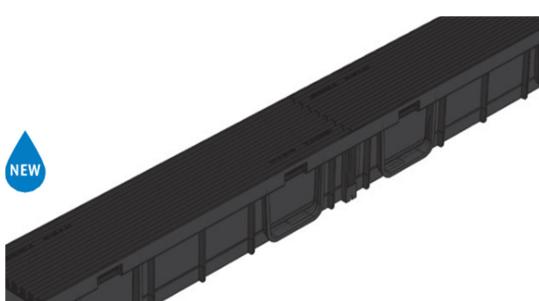


item 0806

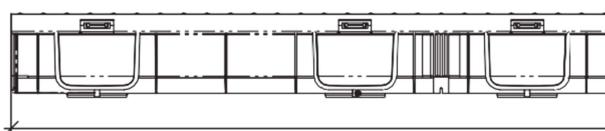


Gidrolica® Light Series: plastic drainage gutter with galvanized steel grate, class A15

0806	A1	ЛВ -10.11,5.9,5; PB - 10.10,8.100 -Galvanized steel	DN90	1000	11	96/83	2.1
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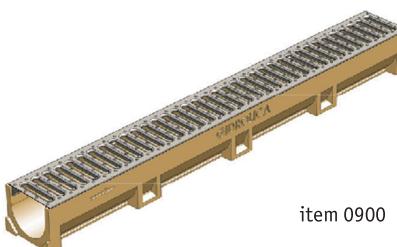
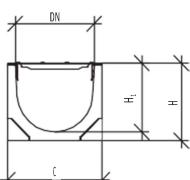
Item0809



Gidrolica® Light Series: plastic drainage gutter with plastic grate, class A15

0807	A15	ЛВ -10.11,5.9,5; PB- 10.11.50 - plastic	DN90	1000	116	96/83	1.45
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0809	A15	ЛВ -10.11,5.9,5; PB- 10.11.50 - plastic	DN90	1000	116	96/83	1.45
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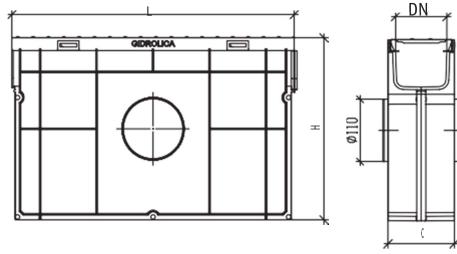
Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H1 mm	kg	Drainage systems class of loading A15-C250
	A15		DN90	1000	120	98/85	8.2	

Gidrolica® PolyLight Series: polymer-concrete drainage gutter with galvanized steel grate, class A15

0900 A15 ΛВ -10.12.10; PB-10.12.100 – galvanized steel



item 08068 item 08078



Gidrolica® Light Series: plastic sand trap for plastic gutters with galvanized steel/plastic grate, class A15

08068 A15 ΠУ 10.11.5.32; PB -10.10.8.100 – galvanized steel

08078 A15 ΠУ 10.11.5.32; PB- 10.11.50 - plastic



item 18061



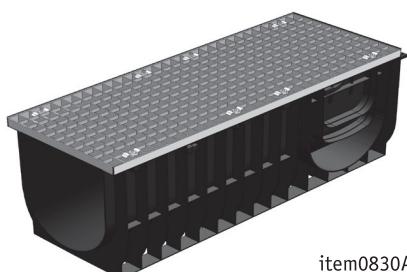
item 18062

Accessories for plastic gutters Gidrolica® Light DN90, class A15 End plug for drainage gutter Gidrolica Light

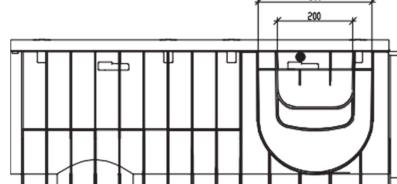
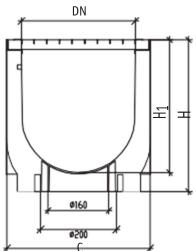
18061 plastic DN90 100 2.7 68 0.04

Adaptor for drainage gutter Gidrolica® Light

18062 plastic 109 109 52.5 0.1



item 0830A



Gidrolica® Light Series: plastic drainage gutter with mesh galvanized steel grate, class A15

 0832A A ΛВ-30.38.29.6; PB -30.37.100 – mesh galvanized steel DN300 1000 380 280/230 14.43

0830A A ΛВ-30.38.39.6; PB -30.37.100 - mesh galvanized steel DN300 1000 380 400/350 15.8

 0834A A ΛВ-30.38.49.6; PB -30.37.100 - mesh galvanized steel DN300 1000 380 480/450 16.74

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



Gidrolica® Standart are standard plastic gutters with a variety of application fields. Due to a wide range of products, they are an excellent solution to the problems of drainage at various facilities.

Gidrolica® Standart Plus are standard plastic gutters reinforced with a steel galvanized nozzle to protect the gutter edge from damage.

Application field:

- private house building
- country house building
- city development
- sports facilities
- garages, parking lots, car parks

Quality:

- made of frost-resistant polypropylene
- the material is resistant to difficult environment, as well as to the effects of corrosive substances

Item	Class of loading	Type	DN	Length	Width	Height	Weight
DN 100	St / St Plus	DN 150	St / St Plus	DN 200	St / St Plus	DN 300	Standart

Point drainage	Item 800	L mm	C mm	H/H ₁ mm	kg

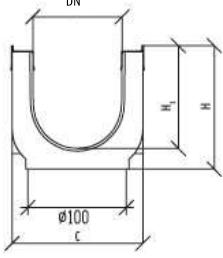
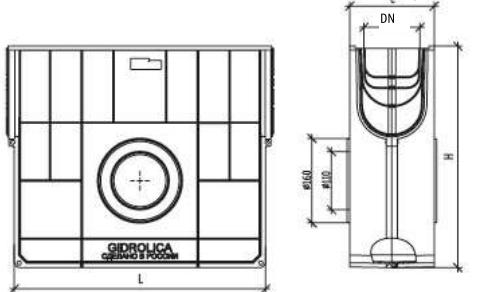
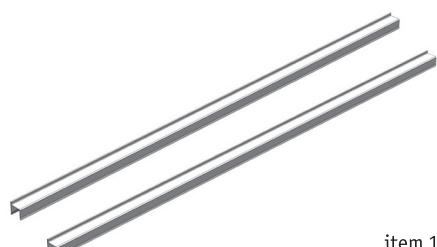
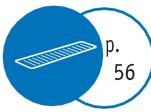
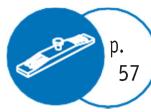
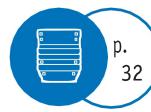
Plastic sand traps Gidrolica® Standart DN100, class C250							
805	C250	ЛВ-10.14,5.06	DN100	1000	146	63/48	1
803	C250	ЛВ-10.14,5.08	DN100	1000	146	80/57	1.2
804	C250	ЛВ-10.14,5.10	DN100	1000	146	100/77	1.32
801	C250	ЛВ-10.14,5.12	DN100	1000	146	120/105	1.46
800	C250	ЛВ-10.14,5.13,5	DN100	1000	146	135/112	1.59
802	C250	ЛВ-10.14,5.18,5	DN100	1000	146	185/162	2.07

Multi-purpose grid flooring	Item 808	L	C	DN	H	kg

Plastic sand traps Gidrolica® Standart DN100, class C250

808	C250	ПУ-10.16.42	DN100	500	160	420	2.75
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Item	Class of loading	Type	DN	Length	Width	Height	Weight				
								L mm	C mm	H/H ₁ mm	kg
											
item 8004											
Plastic gutters Gidrolica® Standart Plus DN100, class C250											
8054	C250	ЛВ-10.14,5.06	DN100	1000	148	66/51	2				Drainage systems class of loading D400-F900
8034	C250	ЛВ-10.14,5.08	DN100	1000	148	83/60	2.2				Drainage systems class of loading D400-F900
8044	C250	ЛВ-10.14,5.10	DN100	1000	148	103/80	2.32				Drainage systems class of loading D400-F900
8014	C250	ЛВ-10.14,5.12	DN100	1000	148	123/108	2.46				Drainage systems class of loading D400-F900
8004	C250	ЛВ-10.14,5.13,5	DN100	1000	148	138/115	2.59				Drainage systems class of loading D400-F900
8024	C250	ЛВ-10.14,5.18,5	DN100	1000	148	187/164	3.07				Drainage systems class of loading D400-F900
											
item 8084											
Plastic sand traps Gidrolica® Standart Plus DN100, class C250											
8084	C250	ПУ-10.16.42	DN100	500	160	423	3.25				Soil conservation and stabilization system
											
item 1400											
Accessories for drainage gutters Gidrolica® Standart DN100, class C250 Reinforcing nozzle											
1400		НУ-100.2,3,2,4-ОС-ЛВ, galvanized steel		1000	23	27	0.5				Entrance dirt-guard systems
 p. 56											
 p. 57											
 p. 32											

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

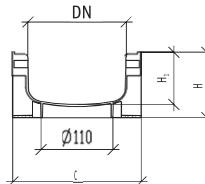
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg
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item 815

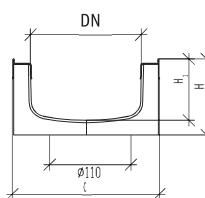


Plastic gutters Gidrolica® Standart DN150, class C250

815	C250	ЛВ-15.19,6.10	DN150	1000	196	100/80	1.8
816	C250	ЛВ-15.19,6.18,5	DN150	1000	196	185/165	2.5



item 815

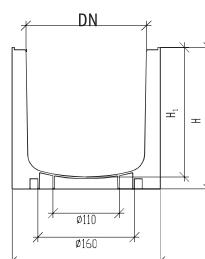


Plastic gutters Gidrolica® Standart Plus DN150, class C250

8154	C250	Plus ЛВ-15.19,6.10	DN150	1000	198	102/82	2.8
8164	C250	Plus ЛВ-15.19,6.18,5	DN150	1000	198	187/167	3.5

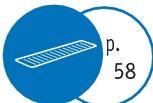


item 820

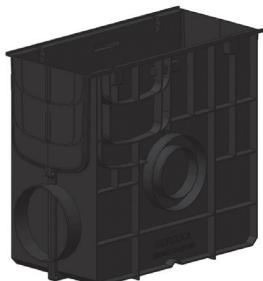


Plastic gutters Gidrolica® Standart DN200, class C250

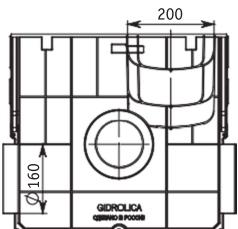
821	C250	ЛВ-20.24,6.10	DN200	1000	246	100/80	1.9
820	C250	ЛВ-20.24,6.18,5	DN200	1000	246	185/165	2.74



Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



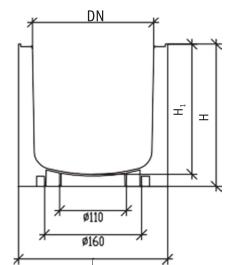
item 828



Plastic sand traps Gidrolica® Standart DN150/200, class C250							
828	C250	ЛВ-20.24.6.46	DN150/200	500	260	460	2.86



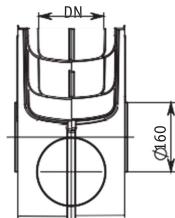
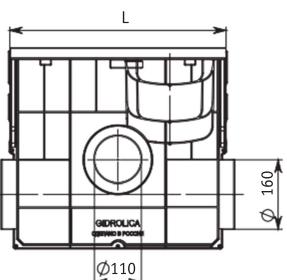
item 8224



Plastic gutters Gidrolica® Standart Plus DN200, class C250							
8214	C250	ЛВ-20.24.6.10	DN200	1000	248	102/83	2.92
8204	C250	ЛВ-20.24.6.18.5	DN200	1000	248	188/168	3.74
8224	C250	ЛВ-20.24.6.23.5	DN200	1000	248	238/218	4.35



item 8284



Plastic sand traps Gidrolica® Standart Plus DN150/200, class C250							
8284	C250	ЛВ-20.24.6.46	DN150/200	500	260	463	3.36



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
	Drainage systems class of loading A15-C250						
Plastic gutters Gidrolica® Standart DN300, class C250							
832	C250	ЛВ-30.38.28	DN300	1000	380	280/230	6.33
830	C250	ЛВ-30.38.38	DN300	1000	380	380/330	7.6
834	C250	ЛВ-30.38.48	DN300	1000	380	480/430	8.64
Drainage systems class of loading F900							
Point drainage							
Accessories for plastic gutters Gidrolica® Standart/Standart Plus DN100-200, class C250 end plug for drainage gutter DN100-200							
18101	-	plastic	DN100	152	4	185	0.15
18151	-	plastic	DN150	202	4	235	0.17

ANGLE JOINT OF GUTTERS

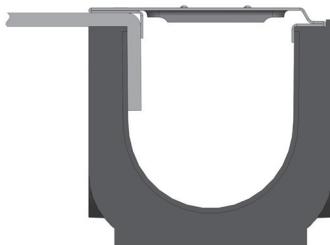
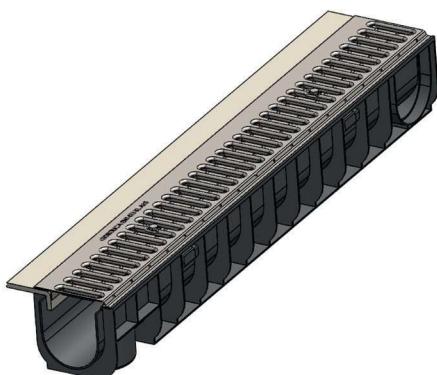


1. Cut a hole in the side wall of the gutter (specially marked joint assembly).
2. Join the gutters at an angle of 90°, treat the place of joining with sealant, if necessary.
3. Join the plug and the gutter until the locks are snapped.

Gidrolica company offers a new unique solution for a drainage system at football fields, namely surface drainage system Gidrolica® Sport.

This is a special gutter designed to collect water from playing fields, used with a waterproof geosynthetic membrane.

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



Gidrolica® Sport Series: plastic drainage gutter with galvanized steel grate, class A15							
0803sport	A15	ЛВ-10.14.5.08	DN100	1000	146	84	3.85
0804sport	A15	ЛВ-10.14.5.10	DN100	1000	146	104	3.97
0801sport	A15	ЛВ-10.14.5.12	DN100	1000	146	124	4.11
0800sport	A15	ЛВ-10.14.5.13,5	DN100	1000	146	139	4.24
0802sport	A15	ЛВ-10.14.5.18,5	DN100	1000	146	189	4.,2
Sewer grate for gutters Gidrolica® Sport DN100							
0808sport	A15	PB -10.13,6.100 – drop-forged galvanized steel	DN100	1000	160	424	4.08
Accessories for plastic gutters Gidrolica® Sport DN100							
107/1	-	Fastener for drainage gutter Gidrolica® Sport DN100	DN100	110	30	10	0.11

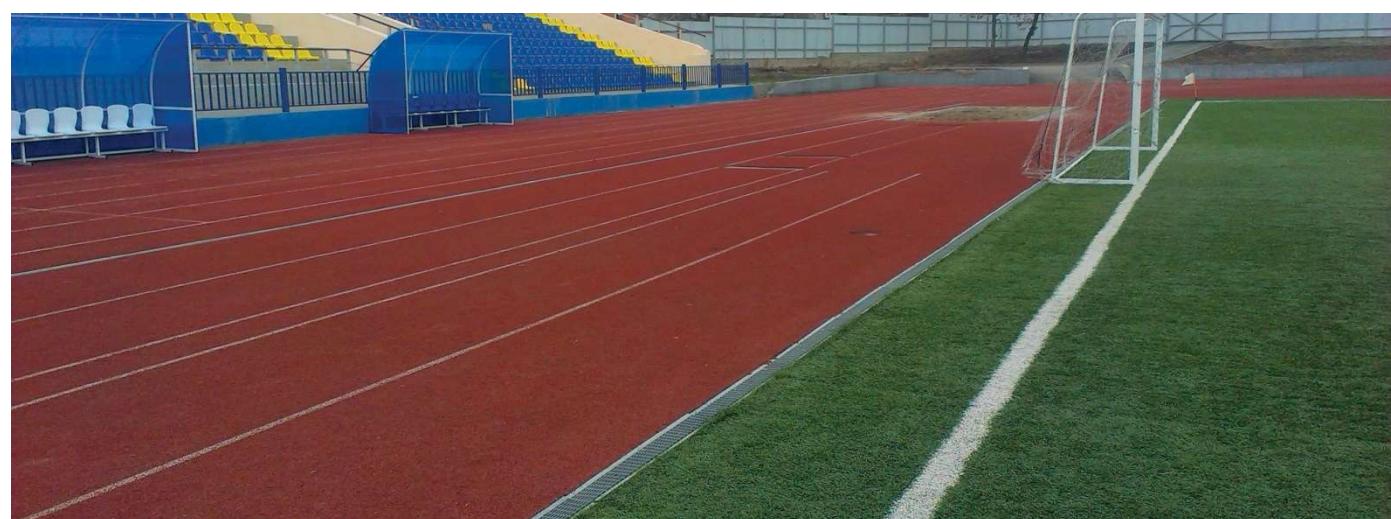
Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system



Stadium in Novoshakhtinsk, drainage gutters Gidrolica® Standart Plus with galvanized steel grates

Gidrolica® PolyStandart are standard polymer-concrete gutters with good throughput capability, self-cleaning and increased (up to 30 years) service life.

Gidrolica® PolySand are drainage gutters made of polymers and sand used as a filler. Lightweight, easy-to-process material is used in areas with a class of loading A15-C250.

Application field:

- private house building
- country house building
- city development
- sports facilities

Качество:

- made of materials combining the advantages of both plastic and concrete
- the materials are resistant to difficult environment, as well as to the effects of corrosive substances

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

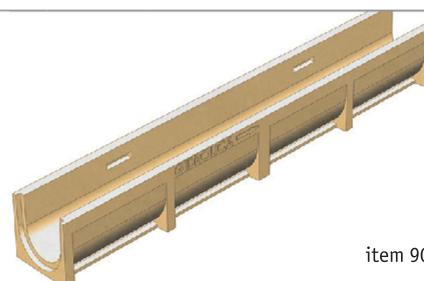
Drainage systems class of loading F900

Point drainage

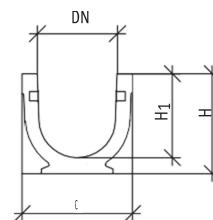
Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



item 903

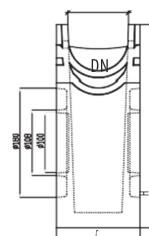
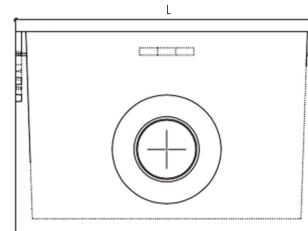


Polymer-concrete gutters Gidrolica® PolyStandart DN100, class C250

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
901	C250	ЛВ-10.14.06	DN100	1000	138	55/40	8.3
902	C250	ЛВ-10.14.10	DN100	1000	138	95/77	10.3
902	C250	ЛВ-10.14.13	DN100	1000	138	125/105	14



item 908



Polymer-concrete sand traps Gidrolica® PolyStandart DN100, class C250

908	C250	ПУ-10.14.33,5	DN100	500	138	335	21.65
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item 700

Polymer-sand gutters Gidrolica® PolySand DN100, class C250, brown color

701	C250	ЛВ-10.14.07	DN100	1000	140	68/48	8,2
700	C250	ЛВ-10.14.13	DN100	1000	140	130/110	12,8



BGF are shallow-draught concrete gutters without nozzles. These are trays with the lowest heights in our range. They are suitable in places with a limited height of the poured floor.

BGU are multi-purpose concrete gutters without nozzles used in various application fields.

Application field:

- around residential houses, garages
- sports facilities
- pedestrian streets
- private house building

Quality:

- high quality concrete of class not lower than B40
- moisture absorption ratio is not more than 6%
- concrete grade according to frost resistance is not lower than F200
- resistance to corrosive substances

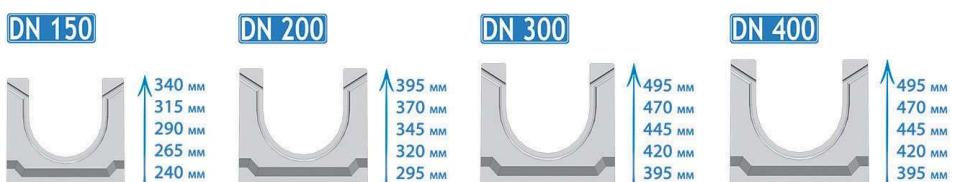
BGF – wall thickness is 20 mm



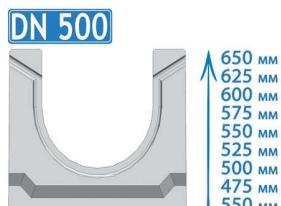
BGU – wall thickness is 30 mm



BGU – wall thickness is 47 mm



BGU-XL – wall thickness is 70 mm



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

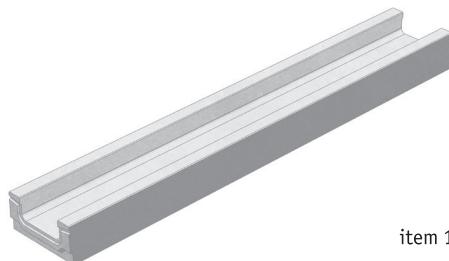
Point drainage

Soil conservation and stabilization system

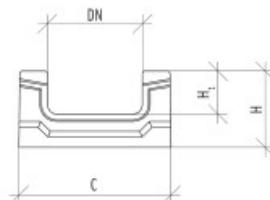
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

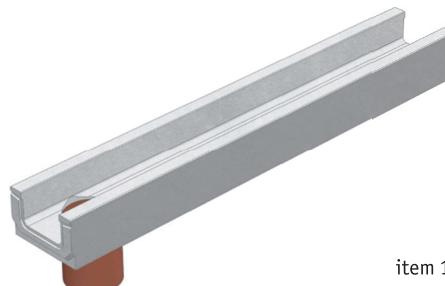


item 11000

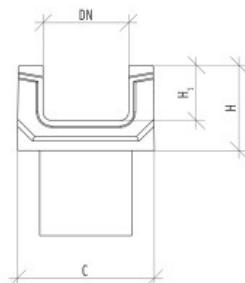


Concrete gutters (shallow-draught) BGF DN100, class C250

13800	C250	h 60	DN100	500	140	60/30	7
11000	C250	h 80	DN100	1000	160	80/45	19
11001	C250	h 100	DN100	500	160	100/65	22

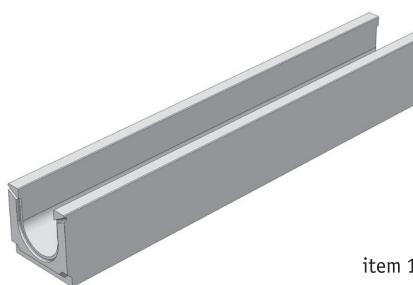


item 11003

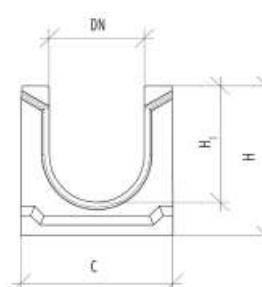


Concrete gutters (shallow-draught) BGF DN100, class C250, with vertical spillway, without slope

11002	C250	h 80	DN100	1000	160	80/45	17.5
11003	C250	h 100	DN100	1000	160	100/65	20.5

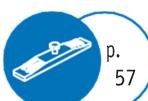
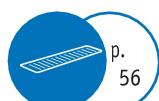


item 13001

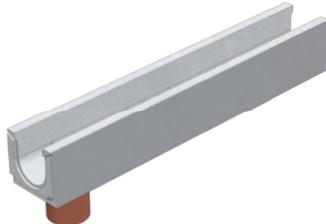
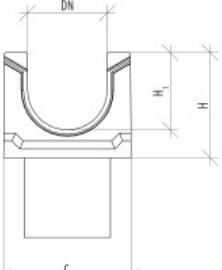
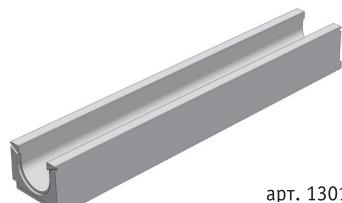
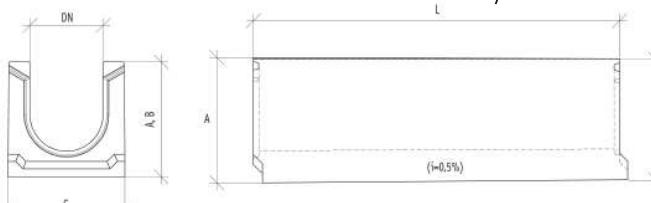
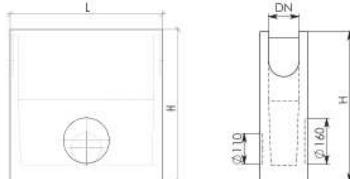


Concrete gutters BGU DN100, class C250

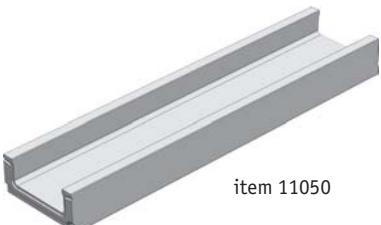
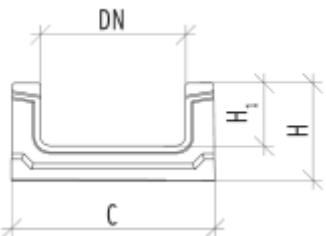
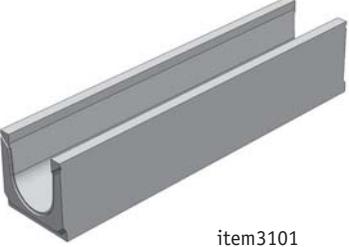
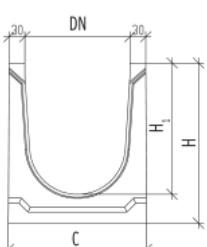
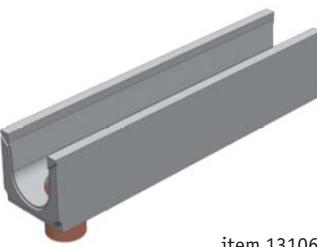
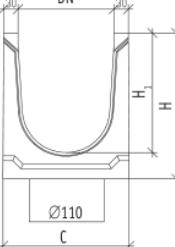
13801	C250		DN100	1000	140	125/105	27.5
13000	C250	Nº0	DN100	1000	160	132/97	32
13001	C250	Nº5-0	DN100	1000	160	157/120	32,5
13002	C250	Nº10-0	DN100	1000	160	182/147	36

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* Diameter for pipes to the gutter with vertical spillway 110/160 mm

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ mm	kg	
								
		apt. 13006						
Concrete gutters BGU DN100, class C250, with vertical spillway, without slope								
13803	C250		DN100	1000	140	125/105	27.5	
13005	C250	Nº0	DN100	1000	160	132/97	27	
13006	C250	Nº5-0	DN100	1000	160	132/97	27	
13007	C250	Nº10-0	DN100	1000	160	182/147	34	
								
		apt. 13010-						
Concrete gutters BGU DN100, class C250, with slope 0,5%								
13010	C250	Nº1	DN100	1000	160	132/137	29.35	
13011	C250	Nº2	DN100	1000	160	137/142	30.05	
13012	C250	Nº3	DN100	1000	160	142/147	30.75	
13013	C250	Nº4	DN100	1000	160	147/152	31.45	
13014	C250	Nº5	DN100	1000	160	152/157	32.15	
13015	C250	Nº6	DN100	1000	160	157/162	32.85	
13016	C250	Nº7	DN100	1000	160	162/167	33.55	
13017	C250	Nº8	DN100	1000	160	167/172	34.25	
13018	C250	Nº9	DN100	1000	160	172/177	34.95	
13019	C250	Nº10	DN100	1000	160	177/182	35.65	
								
Concrete sand traps BGU DN100, class C250								
13804	C250	500/140/385	DN100	500	140	385	26.5	
13039	C250	500/158/500	DN100	500	160	500	45	
								
		item 49010900						
Multi-purpose basket for sand trap BGU DN100								
49010900		Galvanized steel	DN100	400	80	163.5	2.0	
								Mult-purpose grid flooring
								Entrance dirt-guard systems
								Soil conservation and stabilization system
								Drainage systems class of loading F900
								Drainage systems class of loading D400-F900
								Drainage systems class of loading A15-C250

	Item	Class of loading	Type	DN	Length	Width	Height	Weight
Drainage systems class of loading A15-C250					L mm	C mm	H/H ₁ mm	kg
Drainage systems class of loading D400-F900								
Drainage systems class of loading F900								
Point drainage								
Soil conservation and stabilization system								
Multi-purpose grid flooring								

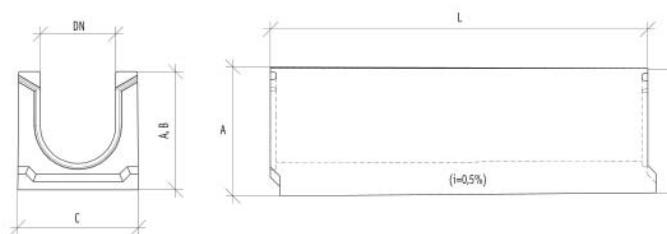
		item 11050						
Concrete gutters (shallow-draught) BGF DN150, class C250, without slope								
11050	C250		DN150	1000	213	100/65	28	
Concrete gutters (shallow-draught) BGF DN150, class C250, with vertical spillway, without slope								
11051	C250		DN150	1000	213	100/65	26	
		item 3101						
Concrete gutters BGU DN150, class C250, without slope								
13100	C250	№0	DN150	1000	213	190/150	50	
13101	C250	№5-0	DN150	1000	213	215/175	54	
13102	C250	№10-0	DN150	1000	213	240/200	58	
		item 13106						
Concrete gutters BGU DN150, class C250, with vertical spillway, without slope								
13105	C250	№0	DN150	1000	213	190/150	47	
13106	C250	№5-0	DN150	1000	213	215/175	51	
13107	C250	№10-0	DN150	1000	213	240/200	55	



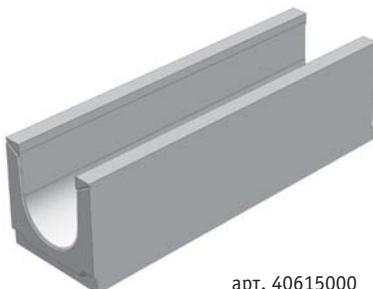
Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg	Drainage systems class of loading A15-C250	



item u-13119



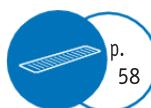
Concrete gutters BGU DN150, class C250, with slope 0,5 %							
13110	C250	Nº1	DN150	1000	213	190/195	50.04
13111	C250	Nº2	DN150	1000	213	195/200	51.2
13112	C250	Nº3	DN150	1000	213	200/205	52
13113	C250	Nº4	DN150	1000	213	205/210	52.8
13114	C250	Nº5	DN150	1000	213	210/215	53,6
13115	C250	Nº6	DN150	1000	213	215/220	54.4
13116	C250	Nº7	DN150	1000	213	220/225	55,2
13117	C250	Nº8	DN150	1000	213	225/230	56
13118	C250	Nº9	DN150	1000	213	230/235	56,8
13119	C250	Nº10	DN150	1000	213	235/240	57,6



apt. 40615000



Concrete gutters BGU DN150, class C250, with wall thickness of 47 mm, without slope							
40615000	C250	Nº 0	DN150	1000	248	240	81
40615061	C250	Nº5	DN150	1000	248	265	87
40615062	C250	Nº10	DN150	1000	248	290	93
40615063	C250	Nº15	DN150	1000	248	315	100
40615064	C250	Nº20	DN150	1000	248	340	106



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Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

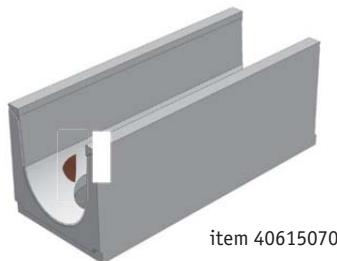
Point drainage

Soil conservation and stabilization system

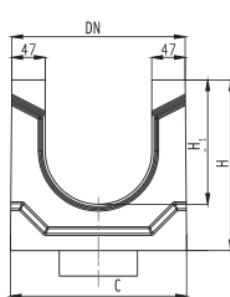
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

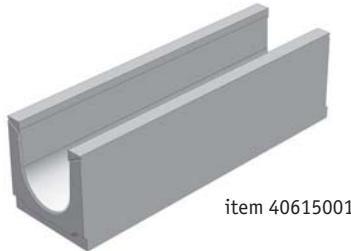


item 40615070

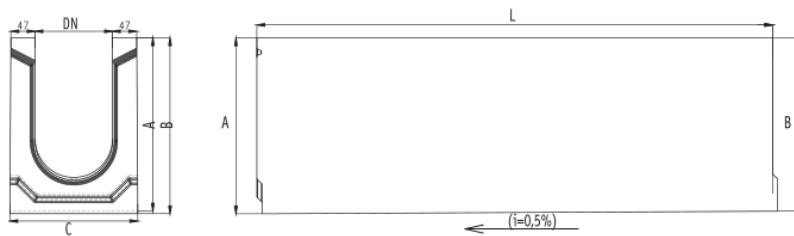


Concrete gutters BGU DN150, class C250, with wall thickness of 47 mm, with vertical spillway, without slope

40615070	C250	Nº0	DN150	1000	248	240	83.875
40615071	C250	Nº5-0	DN150	1000	248	265	87.1
40615072	C250	Nº10-0	DN150	1000	248	290	93.4
40615073	C250	Nº15-0	DN150	1000	248	315	99.6
40615074	C250	Nº20-0	DN150	1000	248	340	105.8



item 40615001

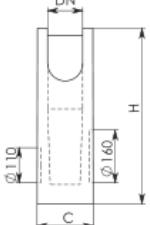


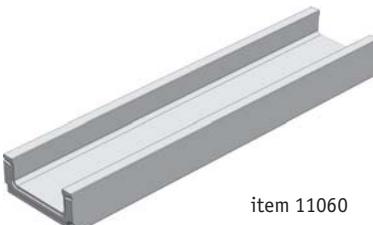
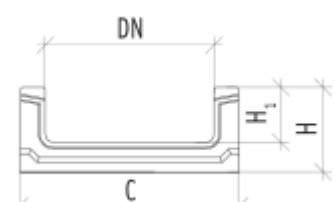
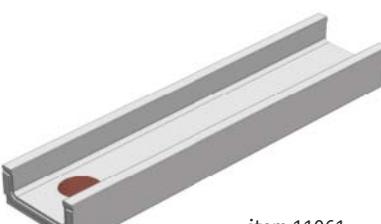
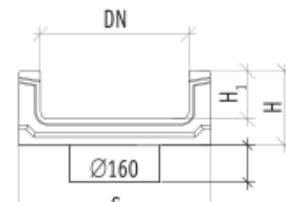
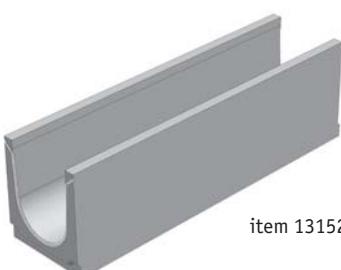
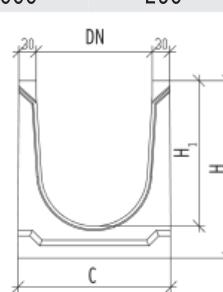
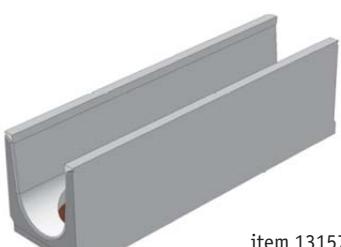
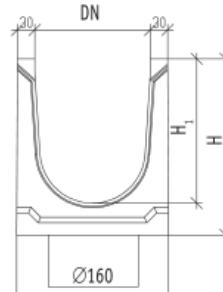
Concrete gutters BGU DN150, class C250, with wall thickness of 47 mm, with slope 0,5%

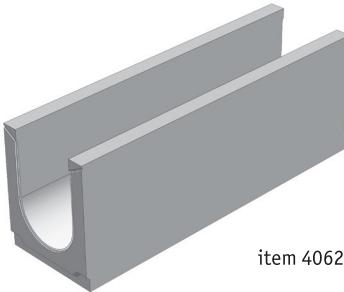
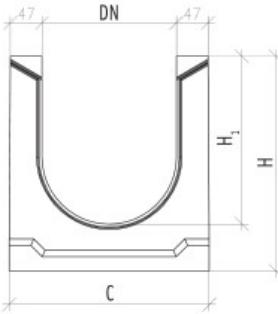
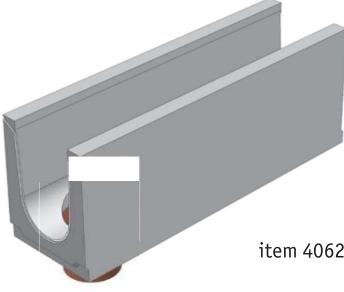
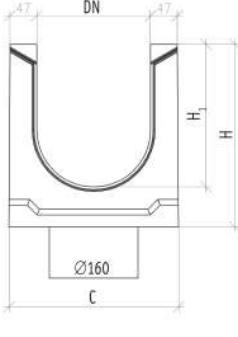
40615001	C250	Nº 1	DN150	1000	248	240/245	81.335
40615002	C250	Nº 2	DN150	1000	248	245/250	82.605
40615003	C250	Nº 3	DN150	1000	248		
40615004	C250	Nº 4	DN150	1000	248	255/260	85.145
40615005	C250	Nº 5	DN150	1000	248		
40615006	C250	Nº 6	DN150	1000	248	265/270	87.685
40615007	C250	Nº 7	DN150	1000	248		
40615008	C250	Nº 8	DN150	1000	248	275/280	90.225
40615009	C250	Nº 9	DN150	1000	248		
40615010	C250	Nº 10	DN150	1000	248	285/290	92.765
40615011	C250	Nº 11	DN150	1000	248		
40615012	C250	Nº 12	DN150	1000	248	295/300	95.245
40615013	C250	Nº 13	DN150	1000	248		
40615014	C250	Nº 14	DN150	1000	248	305/310	97.725
40615015	C250	Nº 15	DN150	1000	248		
40615016	C250	Nº 16	DN150	1000	248	315/320	100.205
40615017	C250	Nº 17	DN150	1000	248		
40615018	C250	Nº 18	DN150	1000	248	325/330	102.685
40615019	C250	Nº 19	DN150	1000	248		
40615020	C250	Nº 20	DN150	1000	248	335/340	105.165

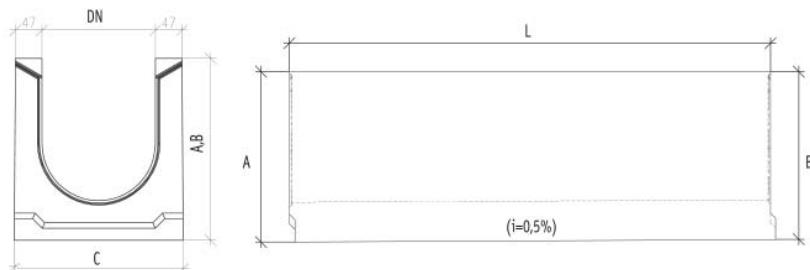
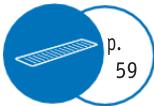


* Diameter for pipes to the gutter with vertical spillway Ø110/160 mm

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ , mm	kg	
	item 13139							Drainage systems class of loading A15-C250
Concrete sand traps BGU DN150, class C250								
13139	C250	500/231/665	DN150	500	231	665	78	Drainage systems class of loading D400-F900
	item 49015900							Drainage systems class of loading F900
Multi-purpose basket for sand trap BGU DN150								
49015900	Galvanized steel		DN150	400	120	163.5	2	Soil conservation and stabilization system
Multi-purpose grid flooring	Entrance dirt-guard systems	Point drainage						

Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg
Drainage systems class of loading A15-C250							
Drainage systems class of loading D400-F900	item 11060						
Concrete gutters (shallow-drarught) BGF DN200, class C250, without slope	11060	C250	DN200	1000	260	100/65	34
Drainage systems class of loading F900	item 11061						
Concrete gutters (shallow-drarught) BGF DN200, class C250, with vertical spillway, without slope	11061	C250	DN200	1000	260	100/65	32
Point drainage	item 13152						
Soil conservation and stabilization system	13150	C250	DN200	1000	260	255/200	80
13151	C250	0	DN200	1000	260	280/225	82.5
Entrance dirt-guard systems	item 13157						
Multi-purpose grid flooring	13155	C250	DN200	1000	260	255/200	78
13156	C250	0	DN200	1000	260	280/225	80.5
Concrete gutters BGUDN200, class C250, with wall thickness 30mm, with vertical spillway, without slope	5-0						

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ mm	kg	Drainage systems class of loading A15-C250
	item 40620063							
Concrete gutters BGU DN200, class C250, with wall thickness of 47 mm, without slope								
40620000 C250	№ 0		DN200	1000	298	295/225	111	
40620061 C250	№ 5-0		DN200	1000	298	320/250	116	
40620062 C250	№ 10-0		DN200	1000	298	345/275	121	
40620063 C250	№ 15-0		DN200	1000	298	370/300	126	
40620064 C250	№ 20-0		DN200	1000	298	395/325	131	
	item 40620073							
Concrete gutters BGU DN200, class C250, with wall thickness of 47 mm, with vertical spillway, without slope								
40620070 C250	№ 0		DN200	1000	298	295/225	111	
40620071 C250	№ 5-0		DN200	1000	298	320/250	116	
40620072 C250	№ 10-0		DN200	1000	298	345/275	121	
40620073 C250	№ 15-0		DN200	1000	298	370/300	126	
40620074 C250	№ 20-0		DN200	1000	298	395/325	131	
* Diameter for pipes to the gutter with vertical spillway Ø110/160 mm				Point drainage	Soil conservation and stabilization system	Entrance dirt-guard systems	Multi-purpose grid flooring	

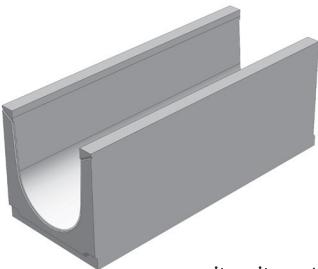
Item	Class of loading	Type	DN	Length mm	Width C mm	Height H/H ₁ mm	Weight
							kg
Drainage systems class of loading A15-C250	Drainage systems class of loading D400-F900	item 40620001-40620020					
							
Concrete gutters BGU DN200, class C250, with wall thickness of 47 mm, with slope 0,5 %							
40620001 C250	Nº 1		DN200	1000	298	295/300	111.5
40620002 C250	Nº 2		DN200	1000	298	300/305	112.5
40620003 C250	Nº 3		DN200	1000	298	305/310	113.5
40620004 C250	Nº 4		DN200	1000	298	310/315	114.5
40620005 C250	Nº 5		DN200	1000	298	315/320	115.5
40620006 C250	Nº 6		DN200	1000	298	320/325	116.5
40620007 C250	Nº 7		DN200	1000	298	325/330	117.5
40620008 C250	Nº 8		DN200	1000	298	330/335	118.5
40620009 C250	Nº 9		DN200	1000	298	335/340	119.5
40620010 C250	Nº 10		DN200	1000	298	340/345	120.5
40620011 C250	Nº 11		DN200	1000	298	345/350	121.5
40620012 C250	Nº 12		DN200	1000	298	350/355	122.5
40620013 C250	Nº 13		DN200	1000	298	355/360	123.5
40620014 C250	Nº 14		DN200	1000	298	360/365	124.5
40620015 C250	Nº 15		DN200	1000	298	365/370	125.5
40620016 C250	Nº 16		DN200	1000	298	370/375	126.5
40620017 C250	Nº 17		DN200	1000	298	375/380	127.5
40620018 C250	Nº 18		DN200	1000	298	380/385	128.5
40620019 C250	Nº 19		DN200	1000	298	385/390	129.5
40620020 C250	Nº 20		DN200	1000	298	390/395	130.5
Soil conservation and stabilization system	Point drainage						
Multi-purpose grid flooring	Entrance dirt-guard systems						
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Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg	Drainage systems class of loading A15-C250
	item 49020000							Drainage systems class of loading D400-F900
Concrete sand trap BGU DN200, class C250, single-section	49020000	C250	500/340/750	DN200	500	340	750	141
	item 49020010							Drainage systems class of loading F900
item 49001000								Soil conservation and stabilization system
item 49001001								Entrance dirt-guard systems
Concrete sand trap BGU DN200, class C250, multi-sectional	49020010	C250	500/340/500, upper part	DN200	500	340	500	79
	49001000		560/390/520, multi-purpose intermediate part	DN200	560	390	520	82
	49001001		560/390/570, multi-purpose lower part	DN200	560	390	570	103
	item 49020900							Multi-purpose grid flooring
Multi-purpose basket for sand trap BGU DN200	49020900	Galvanized steel		DN200	400	175	163.5	2.1

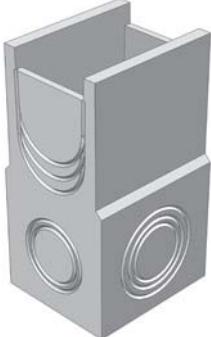
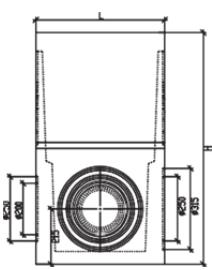
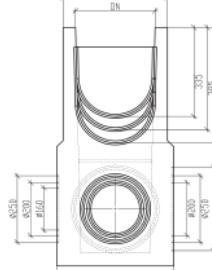
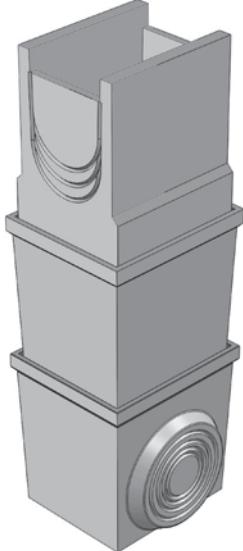
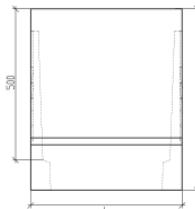
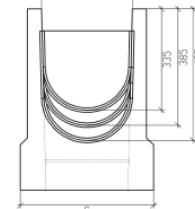
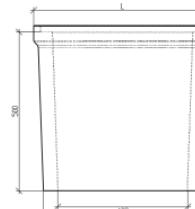
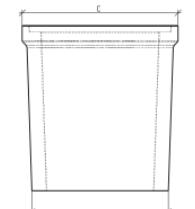
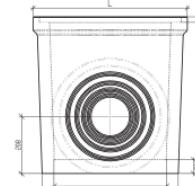
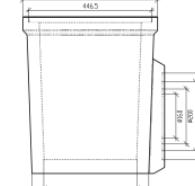
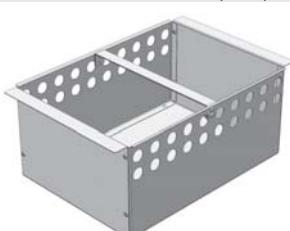
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ , mm	kg
	Drainage systems class of loading A15-C250						
	Drainage systems class of loading D400-F900						
	Point drainage						
	Soil conservation and stabilization system						
	Multi-purpose grid flooring						
item 34014	Concrete gutters BGU DN300, class C250, without slope						
34014	C250	№ 0	DN300	1000	399	395/330	162
40630061	C250	№ 5-0	DN300	1000	394	420/355	170.5
40630062	C250	№ 10-0	DN300	1000	394	445/380	176
40630063	C250	№ 15-0	DN300	1000	394	470/405	181.5
40630064	C250	№ 20-0	DN300	1000	394	495/430	187
item 34057	Concrete gutters BGU DN300, class C250, with vertical spillway, without slope						
34057	C250	№ 0	DN300	1000	399	395/330	162
40630071	C250	№ 5-0	DN300	1000	394	420/355	170.5
40630072	C250	№ 10-0	DN300	1000	394	445/380	176
40630073	C250	№ 15-0	DN300	1000	394	470/405	181.5
40630074	C250	№ 20-0	DN300	1000	394	495/430	187

* Diameter for pipes to the gutter with vertical spillway Ø200/315 mm

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ mm	kg	Drainage systems class of loading A15-C250
	item item. 40630001-40630020							Drainage systems class of loading D400-F900
Concrete gutters BGU DN300, class C250, with slope 0,5 %								
40630001 C250	Nº 1		DN300	1000	394	395/400	165.5	
40630002 C250	Nº 2		DN300	1000	394	400/405	166.6	
40630003 C250	Nº 3		DN300	1000	394	405/410	167.7	
40630004 C250	Nº 4		DN300	1000	394	410/415	168.8	
40630005 C250	Nº 5		DN300	1000	394	415/420	169.9	
40630006 C250	Nº 6		DN300	1000	394	420/425	171	
40630007 C250	Nº 7		DN300	1000	394	425/430	172.1	
40630008 C250	Nº 8		DN300	1000	394	430/435	173.2	
40630009 C250	Nº 9		DN300	1000	394	435/440	174.3	
40630010 C250	Nº 10		DN300	1000	394	440/445	175.4	
40630011 C250	Nº 11		DN300	1000	394	445/450	176.5	
40630012 C250	Nº 12		DN300	1000	394	450/455	177.6	
40630013 C250	Nº 13		DN300	1000	394	455/460	178.7	
40630014 C250	Nº 14		DN300	1000	394	460/465	179.8	
40630015 C250	Nº 15		DN300	1000	394	465/470	180.9	
40630016 C250	Nº 16		DN300	1000	394	470/475	182	
40630017 C250	Nº 17		DN300	1000	394	475/480	183.1	
40630018 C250	Nº 18		DN300	1000	394	480/485	184.2	
40630019 C250	Nº 19		DN300	1000	394	485/490	185.3	
40630020 C250	Nº 20		DN300	1000	394	490/495	186.5	
								Soil conservation and stabilization system
								Entrance dirt-guard systems
								Multi-purpose grid flooring



p.
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Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg							
	Drainage systems class of loading A15-C250													
	Drainage systems class of loading D400-F900													
	Point drainage													
	Soil conservation and stabilization system													
	Entrance dirt-guard systems													
	Multi-purpose grid flooring													
	item 49030000			Concrete sand trap BGU DN300, class C250, single-section	49030000	C250	500/440/900	DN300	500	440	900	202		
	item 49030010			Concrete sand trap BGU DN300, class C250, multi-sectional	49030010	C250	500/440/600, upper part	DN300	500	440	600	111		
	item 49001005			item 49001006			Concrete sand trap BGU DN300, class C250, multi-sectional	49001005	560/490/520, multi-purpose intermediate part	DN300	560	490	520	93
	49001006	560/490/570, lower intermediate part	DN300	560	490	570	130							
	item 49030900	Multi-purpose basket for sand trap BGU DN300	49030900	Galvanized steel	DN300	400	265	163.5	2.1					

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

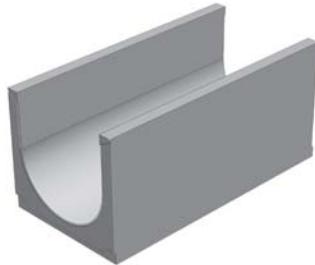
Point drainage

Soil conservation and stabilization system

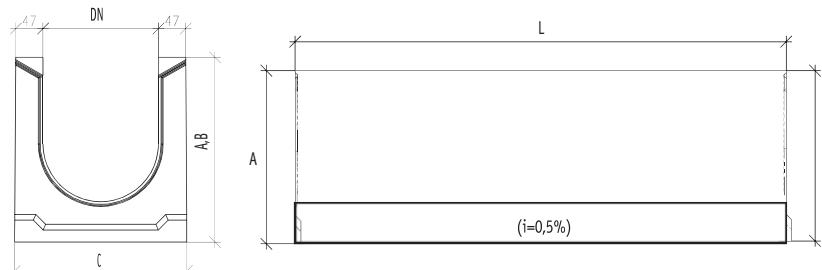
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H, mm	kg



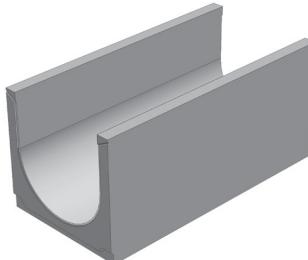
item 4064001-40640020



Concrete gutters BGU DN400 class C250 with slope 0,5%

4064001	C250	1	DN400	1000	499	395/400	198
4064002	C250	2	DN400	1000	499	400/405	199
4064003	C250	3	DN400	1000	499	405/410	200
4064004	C250	4	DN400	1000	499	410/415	201
4064005	C250	5	DN400	1000	499	415/420	202
4064006	C250	6	DN400	1000	499	420/425	203
4064007	C250	7	DN400	1000	499	425/430	204
4064008	C250	8	DN400	1000	499	430/435	205
4064009	C250	9	DN400	1000	499	435/440	206
40640010	C250	10	DN400	1000	499	440/445	207
40640011	C250	11	DN400	1000	499	445/450	208
40640012	C250	12	DN400	1000	499	450/455	209
40640013	C250	13	DN400	1000	499	455/460	210
40640014	C250	14	DN400	1000	499	460/465	211
40640015	C250	15	DN400	1000	499	465/470	212
40640016	C250	16	DN400	1000	499	470/475	213
40640017	C250	17	DN400	1000	499	475/480	214
40640018	C250	18	DN400	1000	499	480/485	215
40640019	C250	19	DN400	1000	499	485/490	216
40640020	C250	20	DN400	1000	499	490/495	217


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110

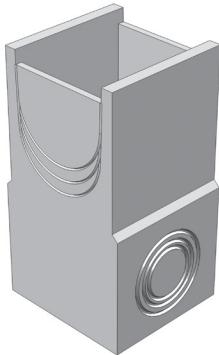
Item	Class of loading	Type	DN	Length	Width	Height	Weight						
							kg						
Drainage systems class of loading A15-C250													
													
Drainage systems class of loading D400-F900													
item 4064001-40640020													
Concrete gutters BGU DN400 class C250 with slope 0,5%													
Drainage systems class of loading F900	1		DN400	1000	499	395/400	198						
	2		DN400	1000	499	400/405	199						
	3		DN400	1000	499	405/410	200						
	4		DN400	1000	499	410/415	201						
	5		DN400	1000	499	415/420	202						
	6		DN400	1000	499	420/425	203						
	7		DN400	1000	499	425/430	204						
	8		DN400	1000	499	430/435	205						
	9		DN400	1000	499	435/440	206						
	10		DN400	1000	499	440/445	207						
	11		DN400	1000	499	445/450	208						
	12		DN400	1000	499	450/455	209						
	13		DN400	1000	499	455/460	210						
	14		DN400	1000	499	460/465	211						
	15		DN400	1000	499	465/470	212						
	16		DN400	1000	499	470/475	213						
	17		DN400	1000	499	475/480	214						
	18		DN400	1000	499	480/485	215						
	19		DN400	1000	499	485/490	216						
	20		DN400	1000	499	490/495	217						
Point drainage													
Soil conservation and stabilization system													
Entrance dirt-guard systems													
Multi-purpose grid flooring													



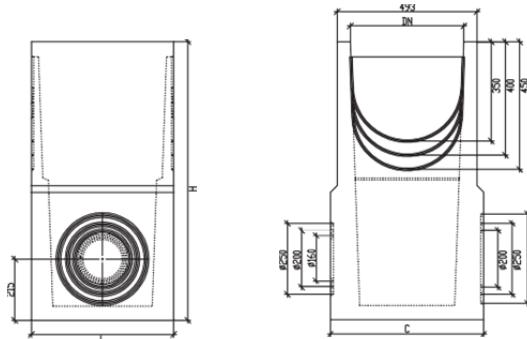
p.

110

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item 49040000



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Concrete sand trap BGU DN400, class C250, single-section

49040000 C250

500/540/1000

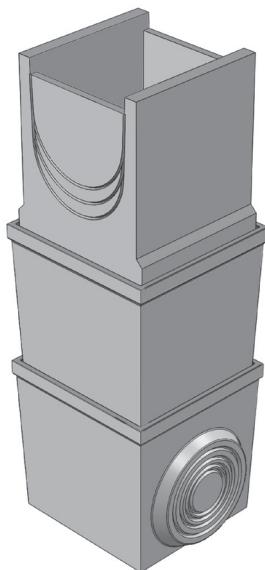
DN400

500

540

1000

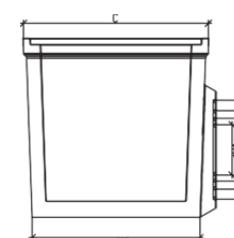
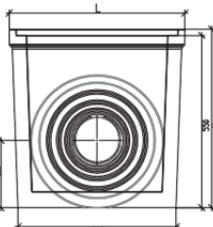
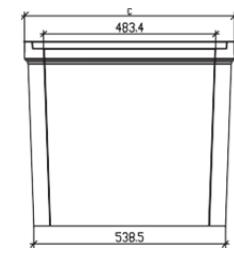
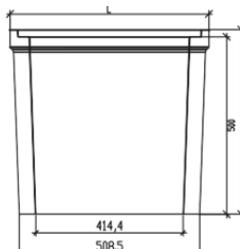
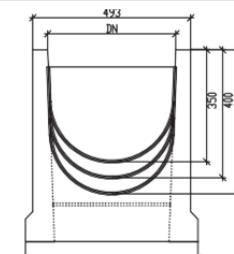
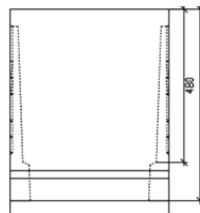
252



item 49040010

item 49001010

item 49001011



Concrete sand trap BGU DN400, class C250, multi-sectional

49040010 C250

500/540/600, upper part

DN400

500

540

600

115

49001010

560/590/520, multi-purpose intermediate part

DN400

560

590

520

104

49001011

560/590/570, multi-purpose lower part

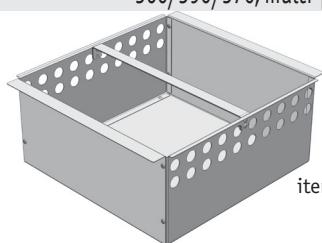
DN400

560

590

570

147



item 49040900

Multi-purpose basket for sand trap BGU DN400

49040900

Galvanized steel

DN400

400

365

163.5

3.24

Multi-purpose grid flooring
Entrance dirt-guard systems

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

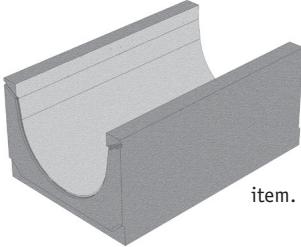
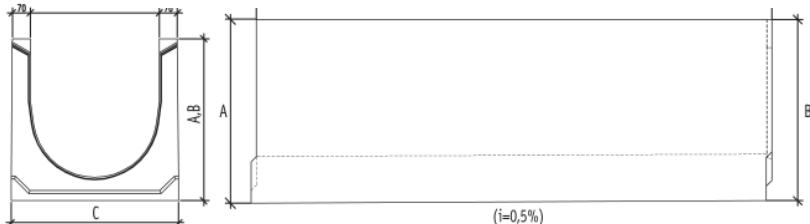
Drainage systems class of loading F900

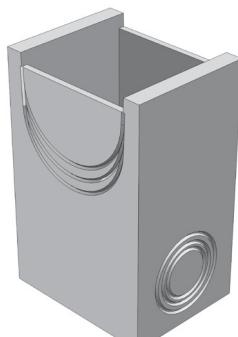
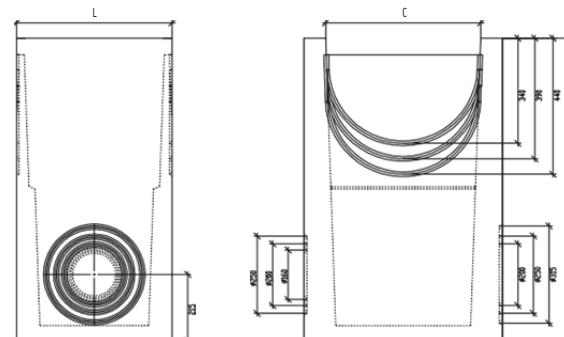
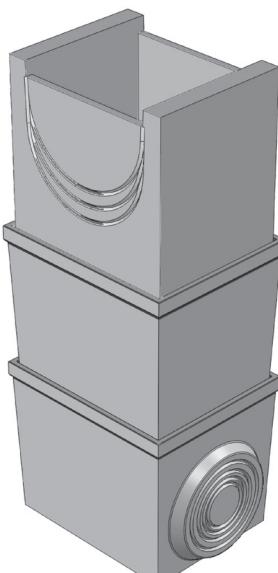
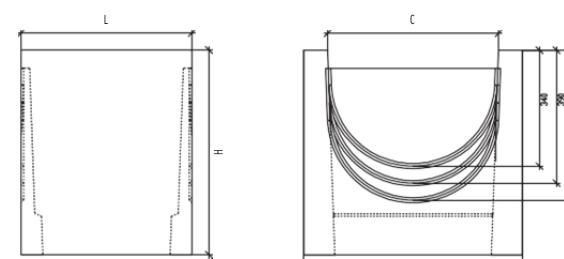
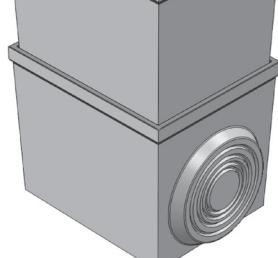
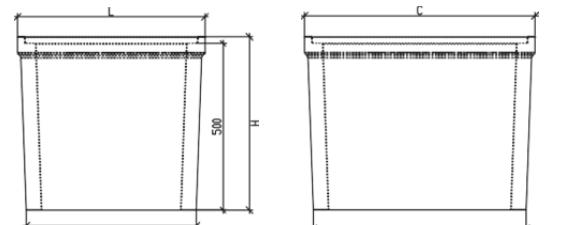
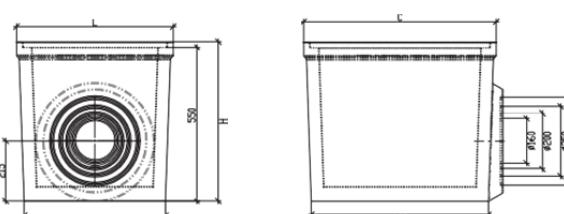
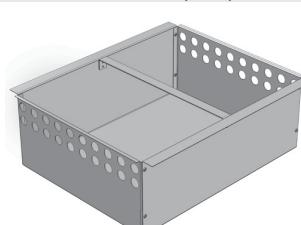
Point drainage

Soil conservation and stabilization system

Multi-purpose grid flooring
Entrance dirt-guard systems

Item	Class of loading	Type	DN	Length	Width	Height	Weight
							L mm
Drainage systems class of loading A15-C250	Drainage systems class of loading D400-F900	Concrete gutters BGU-XL DN500, class C250 without slope	DN500	1000	650	450/360	316.67
Drainage systems class of loading F900	Point drainage	Concrete gutters BGU-XL DN500, class C250, with vertical spillway, without slope	DN500	1000	650	450/360	314.5
Soil conservation and stabilization system	Entrance dirt-guard systems	Concrete gutters BGU-XL DN500, class C250, with vertical spillway, without slope	DN500	1000	650	450/360	312.7
Multi-purpose grid flooring	 p. 110						* Diameter for pipes to the gutter with vertical spillway Ø315/400 mm

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ mm	kg	Drainage systems class of loading A15-C250
 item. 40750001-40750040								
								
Concrete gutters BGU-XL DN500, class C250, with slope 0,5 %								
40750001	C250	1	DN500	1000	650	450/455	316.67	
40750002	C250	2	DN500	1000	650	455/460	318.96	
40750004	C250	4	DN500	1000	650	465/470	323.54	
40750006	C250	6	DN500	1000	650	475/480	328.12	
40750008	C250	8	DN500	1000	650	485/490	332.7	
40750010	C250	10	DN500	1000	650	495/500	337.28	
40750012	C250	12	DN500	1000	650	505/510	341.86	
40750014	C250	14	DN500	1000	650	515/520	346.44	
40750016	C250	16	DN500	1000	650	525/530	351.02	
40750018	C250	18	DN500	1000	650	535/540	344.3	
40750020	C250	20	DN500	1000	650	545/550	360.18	
40750022	C250	22	DN500	1000	650	555/560	364.76	
40750024	C250	24	DN500	1000	650	565/570	369.34	
40750026	C250	26	DN500	1000	650	575/580	373.92	
40750028	C250	28	DN500	1000	650	585/590	378.5	
40750030	C250	30	DN500	1000	650	595/600	383.08	
40750032	C250	32	DN500	1000	650	605/610	387.66	
40750034	C250	34	DN500	1000	650	615/620	392.24	
40750036	C250	36	DN500	1000	650	625/630	396.82	
40750038	C250	38	DN500	1000	650	635/640	401.4	
40750040	C250	40	DN500	1000	650	645/650	406	
								Multi-purpose grid flooring
								Entrance dirt-guard systems
								Soil conservation and stabilization system
								Point drainage
								Drainage systems class of loading F900

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ mm	kg	
Drainage systems class of loading A15-C250								
Drainage systems class of loading D400-F900								
Concrete sand trap BGU-XL DN500, class C250, single-section	49050050	C250	500/640/1000	DN500	500	640	1000	304
Point drainage								
Soil conservation and stabilization system								
Entrance dirt-guard systems								
Multi-purpose grid flooring								
item 49050050								
item 49050060								
item 49001015								
item 49001016								
Concrete sand trap BGU-XL DN500, class C250, multi-sectional	49050060	C250	500/640/600, upper part	DN500	500	640	600	152
	49001015		560/690/520, multi-purpose intermediate part	DN500	560	690	520	115
	49001016		560/690/570, multi-purpose lower part	DN500	560	690	570	163
item 49050900								
Multi-purpose basket for sand trap BGU-XL DN500	49050900			DN500	400	447	163.5	3.76



Novosibirsk, Car dealer "Avtomir"



Novosibirsk, stlmnt. Evropeisky



On the city streets, drainage gutters BGU with cast-iron grates

 Drainage systems
 Class of loading A15-C250

 Drainage systems
 Class of loading D400-F900

 Drainage systems
 Class of loading F900

Point drainage

 Soil conservation and
 stabilization

 Entrance drift-guard
 systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
							kg
Drainage systems class of loading A15-C250							
Drainage systems class of loading D400-F900							
Point drainage							
Soil conservation and stabilization system							
Multi-purpose grid flooring							

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Point drainage

Soil conservation and stabilization system

Multi-purpose grid flooring

Sewer grates for gutters DN100 Gidrolica® Standart/StandartPlus/PolyStandart/BGF/BGU

Item	Type	Description	DN	Length	Width	Height	Weight
500	A15	PB-10.13.6.50 – drop-forged galvanized steel	DN100	1000	136	20	0.8
508	A15	PB-10.13.6.100 – drop-forged galvanized steel	DN100	1000	136	20	1.6
502	A15	PB -10.13.6.100 – drop-forged copper	DN100	1000	136	20	1.6
503	A15	PB -10.13.6.100 – drop-forged stainless steel	DN100	1000	136	20	1.6

Sewer grates for gutters DN100 Gidrolica® Standart/StandartPlus/PolyStandart/BGF/BGU (with fasteners)

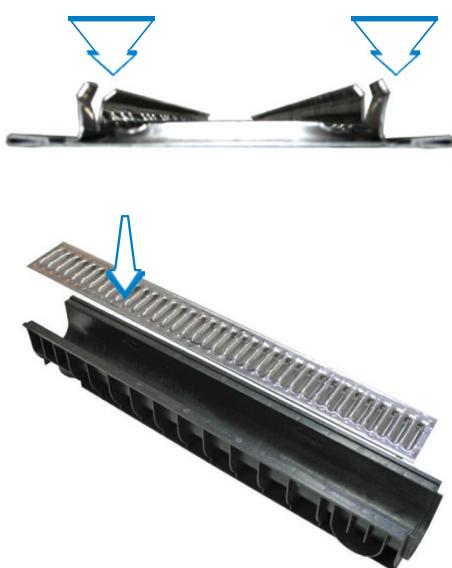
Item	Type	Description	DN	Length	Width	Height	Weight
508/1	A15	PB-10.13.6.100 – drop-forged galvanized steel with holes for fastening	DN100	1000	136	20	1.6
504	A15	PB -10.13.6.50 – mesh plastic	DN100	500	137.8	16.5	0.42
501	B125	PB -10.13.6.100 – mesh galvanized steel	DN100	1000	136	20	3.3
506	C250	PB -10.13.6.50 – slotted high-strength cast-iron	DN100	500	136	13	2.1
5065	C250	PB -10.13.6.50 - slotted high-strength cast-iron galvanized	DN100	500	136	13	2.2
507	C250	PB -10.13.6.50 mesh high-strength cast-iron	DN100	500	136	13.5	2.7
5075	C250	PB -10.13.6.50 mesh high-strength cast-iron galvanized	DN100	500	136	13.5	2.8



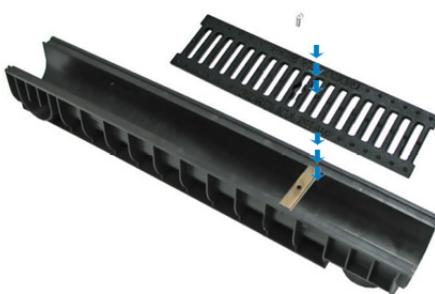
Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg
item 108							
item 107							
item 103							
item 104							
Accessories for sewer grates DN100 Fastener Gidrolica® to fasten grates to plastic drainage gutters DN100							
108		for items 504, 501, 506, 5065, 507, 5075	DN100	119	28	14	0.05
108/1		for items 508/1	DN100	119	28	14	0.05
Fastener Gidrolica® to fasten grates to polymer-concrete drainage gutters DN100							
107		for items 504, 501, 506, 5065, 507, 5075, 901, 902, 903	DN100	110	30	10	0.1
Fastener Gidrolica® for cast-iron grates DN100							
103		for items 506, 5065, 507, 5075	DN100	54	20	25	0.1
Accessories for concrete gutters BGF/BGU DN100, class C250 Fastener Gidrolica for concrete drainage gutter DN100							
104		for items 504, 501, 506, 5065, 507, 5075, 700, 701	DN100	95	30	27	0.15

GRATE FASTENING

1.



2.



1. Bend the locks, located on the inside edges of the grate slightly.
2. Insert the grate into the gutter by force.

1. Unscrew the bolt and install the main body of the fastener (without the bolt) in the gutter.
2. Insert the bolt in the hole dedicated for bolts on the grate.
3. Connect the fastener in the gutter, so that the bolt head is on top of the grate and the main body of the fastener is in the gutter.
4. Tighten the bolt up to the stop, checking the main body of the fastener to ensure the reliable fastening of the grate and gutter.

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Multi-purpose grid flooring

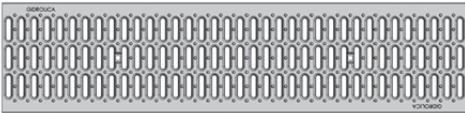
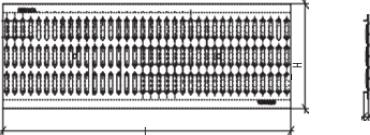
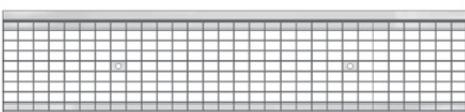
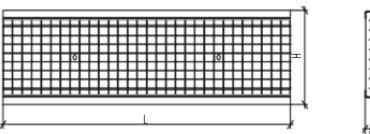
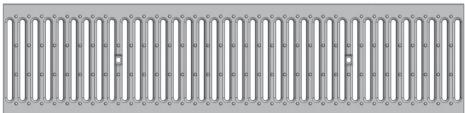
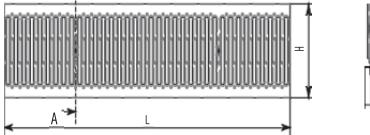
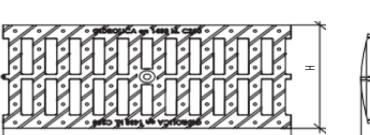
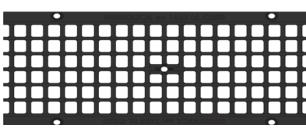
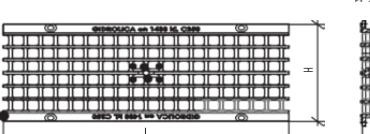
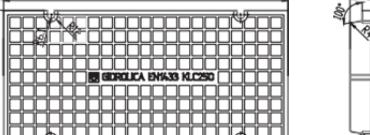
Entrance dirt-guard systems

	Item	Class of loading	Type	DN	Length	Width	Height	Weight
					L mm	C mm	H/H ₁ mm	kg
Drainage systems class of loading A15-C250								
Drainage systems class of loading D400-F900								
Drainage systems class of loading F900								
Point drainage								
Soil conservation and stabilization system								
Multi-purpose grid flooring								
Sewer grates for gutters DN150 Gidrolica® Standart/Standart Plus/BGF/BGU								
	518	A15	PB -15.18,6.100 – drop-forged galvanized steel	DN150	1000	186	15	2,9
	511	B125	PB -15.18,7.100 – mesh galvanized steel	DN150	1000	187	22	4.8
	512	A15	PB -15.18,6.100 – drop-forged galvanized steel	DN150	1000	187	15	3
	516	C250	PB -15.18,6.50 - slotted high-strength cast-iron	DN150	500	186	23	3.54
	517	C250	PB -15.18,6.50 - slotted high-strength cast-iron	DN150	500	186	23	3.9
Accessories for plastic gutters DN150, class C250 Fastener Gidrolica® to fasten grates to plastic drainage gutter DN150								
	118			DN150	176	28	15	0.06

SURFACE DRAINAGE SYSTEMS

Sewer grates DN200

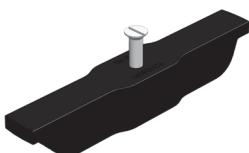
 **Gidrolica**
Drainage system manufacturing

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
							
				item 528			
							
				item 522			
							
				item 523			
							
				item 524			
							
				item 525			
							
				item 526			



Sewer grates for gutters DN200 Gidrolica® Standart/Standart Plus/PolyStandart/BGF/BGU

528	A15	PB -20.24.100 - drop-forged galvanized steel	DN200	1000	236	20	3.4
522	B125	PB -20.24.100 - mesh galvanized steel	DN200	1000	237	22	5.7
523	A15	PB -20.24.100 - drop-forged galvanized steel	DN200	1000	236	15	3.54
524	C250	PB -20.24.50 - slotted high-strength cast-iron	DN200	500	237	24	5
525	C250	PB -20.24.50 - slotted high-strength cast-iron	DN200	500	237	24	6.1
526	C250	КЛ-20.23.8.50 - plastic	DN200	500	238	42	2.64



item 128

Accessories for plastic/polymer-concrete gutters DN200, class C250 Fatener Gidrolica® to fasten grates to polymer-concrete drainage gutters DN200

128		DN200	226	40	36	0.25
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Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

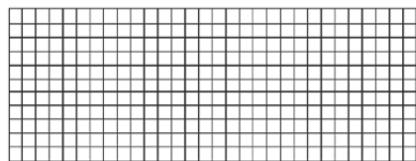
Point drainage

Soil conservation and stabilization system

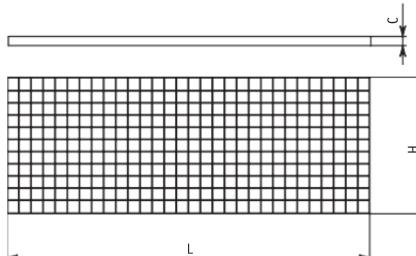
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

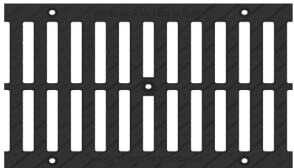


item 531

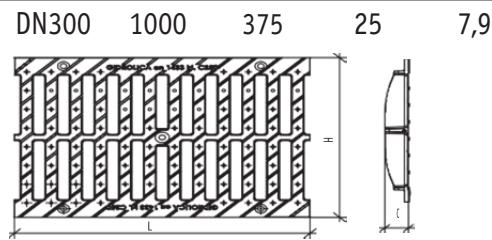


Sewer grates for gutters Gidrolica® Standart/BGU DN300

531 C250 PB-30.37.100 mesh galvanized steel



apt. 534



Sewer grates for gutters Gidrolica® Standart/BGU DN300

534 C250 PB-30.37.50 – slotted high-strength cast-iron DN300 500 358 10 14,3

Accessories for plastic gutters DN300, class A15-C250 Fastener Gidrolica® to fasten grates to polymer-concrete drainage gutter DN300

138/1 to item 531 DN300

138/4 to item 534 DN300



Urban park, drainage gutters Gidrolica® Standart with galvanized grates



Detached house, drainage gutters Gidrolica® Standart with cast-iron grates



Gidrolica® Pro – plastic gutter with increased flange for nylon grate with class of loading C250.

Application field:

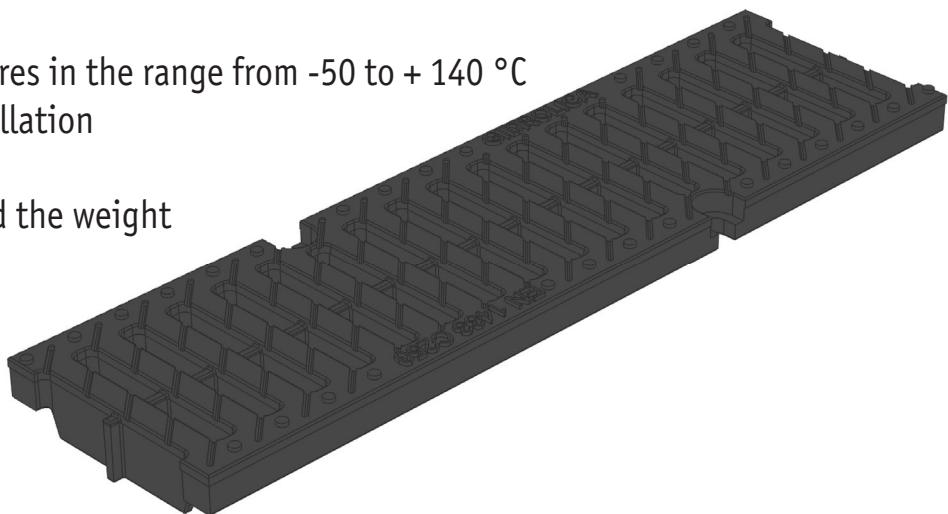
- private house building, country house building
- city development
- sports facilities

Quality:

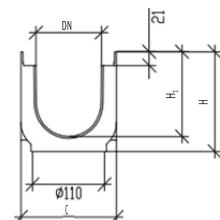
- gutters are made of frost-resistant polypropylene
- the material is resistant to difficult environment, as well as to the effect of corrosive substances

ADVANTAGES OF PLASTIC (NYLON) GRATES:

- High strength of the material
- Resistance to mechanical wear, oils, organic solvents, gasoline, reagents
- They withstand temperatures in the range from -50 to + 140 °C
- Light weight, ease of installation
- Extended stiffener plates
- They are able to withstand the weight of passenger cars



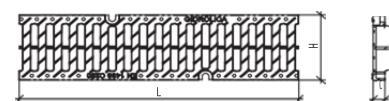
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



Plastic gutters Gidrolica® Pro DN100, class C250							
800pro	C250	ЛВ-10.14,5.15,2 - plastic	DN100	1000	146	152/129	1.7



item 509



Sewer grate for gutter Gidrolica® Pro DN100, class C250							
509	C250	PB-10.13,5.50 – slotted plastic	DN100	500	138	21	1.24

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



	Item	Class of loading	Type	DN	Length	Width	Height	Weight
					L mm	C mm	H/H ₁ , mm	kg
Drainage systems class of loading A15-C250								
Drainage systems class of loading D400-F900	item 815pro	Plastic gutters Gidrolica® Pro DN150, class C250	815pro C250 ЛВ-15.19,6.11,7 - plastic	DN150	1000	196	117/97	1.86
Drainage systems class of loading F900	p. 31	item 512	512 C250 PB-15.18,8.50 – slotted plastic	DN150	500	188	21	2.07
Point drainage	item 832pro	Plastic gutters Gidrolica® Pro DN300, class C250	832pro C250 ЛВ-30.38.29,4	DN300	1000	380	294/244	6.29
Soil conservation and stabilization system	item 834pro	Sewer grates for gutter Gidrolica® Pro DN300, class C250	834pro C250 PB-30.38.49,4	DN300	1000	380	494/444	8.9
Entrance dirt-guard systems	item 535	Blank cover for drainage gutter Gidrolica® Pro DN300, class C250	535 C250 PB-30.35,8.50 – mesh plastic	500	358	42	3.52	
Multi-purpose grid flooring	item 536	Fastener for plastic drainage gutter Gidrolica® Pro	536 C250 КЛ-30.35,8.50 - plastic	DN300	500	358	42	3.98
			106		DN100-300			

CONCRETE DRAINAGE SYSTEMS BGF-Z/BGU-Z DN100

- PLASTIC DRAINAGE SYSTEMS Gidrolica®Super
- CONCRETE DRAINAGE SYSTEMS BGF-Z, BGU-Z, BGZ-S



SURFACE DRAINAGE SYSTEMS FOR CLASS OF LOADING
D400, E600

Gidrolica® Super – plastic gutters, reinforced with galvanized steel nozzle and inserts for additional holding in concrete. They are used with grates with classes of loading D400-E600.

Application field:

- fuel stations
- carwashes
- logistic centers
- transport terminals
- manufacturing facilities
- storage compounds

Quality:

- made of frost-resistant polypropylene
- the material is resistant to difficult environment, as well as to the effects of corrosive substances
- reinforced galvanized steel nozzle that protects the gutter flange

DN 100



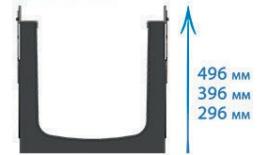
DN 150



DN 200



DN 300



Item

Class of loading

Type

DN

Length

L
mm

Width

C
mm

Height

H/H₁
mm

Weight

kg

Drainage systems class of loading F900

Point drainage

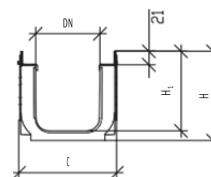
Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



item 0801

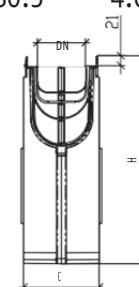
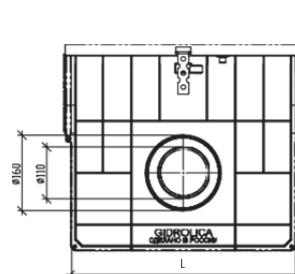


Plastic gutters Gidrolica® Super DN100 class D400/E600

0805	E600	ЛВ -10.14.5.08	DN100	1000	149	81.5/66.5	3
0803	E600	ЛВ -10.14.5.10	DN100	1000	149	98.5/75.5	3.2
0804	E600	ЛВ -10.14.5.12	DN100	1000	149	118.5/95.5	3.32
0801	E600	ЛВ -10.14.5.14	DN100	1000	149	138.5/115.5	3.46
0800	E600	ЛВ -10.14.5.15,5	DN100	1000	149	153.5/130.5	3.59
0802	E600	ЛВ -10.14.5.20,5	DN100	1000	149	203.5/180.5	4.07



apt. 0808



Plastic sand traps Gidrolica® Super DN100, class D400/E600

0808	E600	ПУ -10.16.44	DN100	500	160	478	3.75
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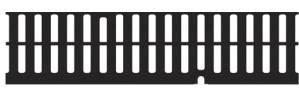
Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg



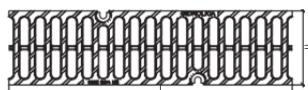
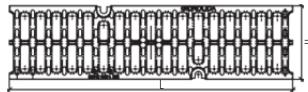
item 50109D



item 50109E



item 509

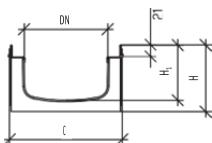


Sewer grates for gutters Gidrolica® Super DN100, class C250/E600

50109D	D400	PB-10.14.50-slotted high-strength cast-iron DN100	500	140	21	4.45
50109E	E600	PB-10.14.50-slotted high-strength cast-iron DN100	500	140	21	4.4
509	C250	PB-10.13.5.50-slotted plastic DN100	500	138	21	1.24

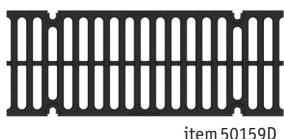


aprt. 0815



Plastic gutters Gidrolica® Super DN150 class D400/E600

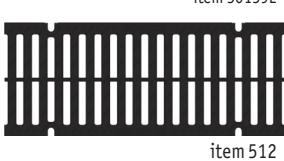
0815	E600	ЛВ-15.19.6.11,8	DN15	1000	199	118.5/98	3.8
0816	E600	ЛВ-15.19.6.20,3	DN150	1000	199	203.5/183	4.5



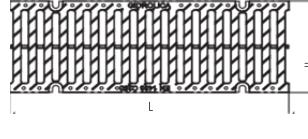
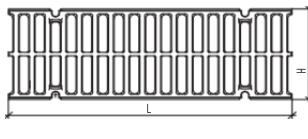
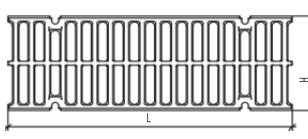
item 50159D



item 50159E

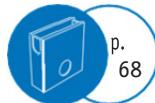


item 512



Sewer grates for gutters Gidrolica® Super DN150, high-strength cast-iron, class D400/E600

50159D	D400	PB -15.19.50-slotted high-strength cast-iron DN150	500	190	21	6.4
50159E	E600	PB -15.19.50-slotted high-strength cast-iron DN150	500	190	21	7.2
512	C250	PB -15.18.8.50 – slotted plastic DN150	500	188	21	2.07



Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

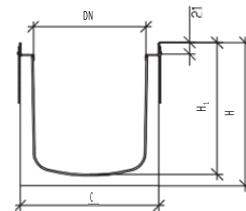
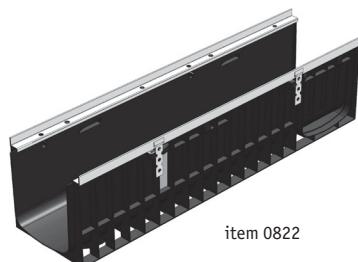
Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

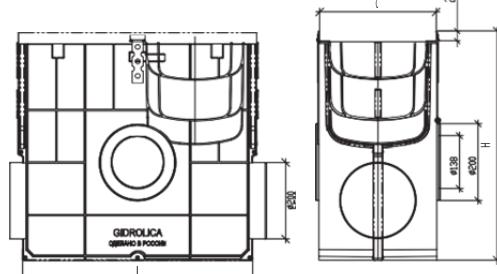
Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



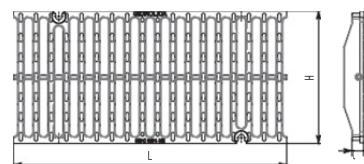
Plastic gutters Gidrolica® Super DN200 class D400/E600

0821	E600	ЛВ -20.24,6.12	DN200	1000	249	118.5/98.5	2,92
0820	E600	ЛВ-20.24,6.20	DN200	1000	249	203.5/183.5	4,74
0822	E600	ЛВ-20.24,6.25	DN200	1000	249	253/233	5,35



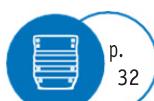
Multi-purpose plastic sand traps Gidrolica® Super DN150/200 class D400/E600

0828	E600	ПУ -20.25,47,8	DN150/200	540	260	478	3,86
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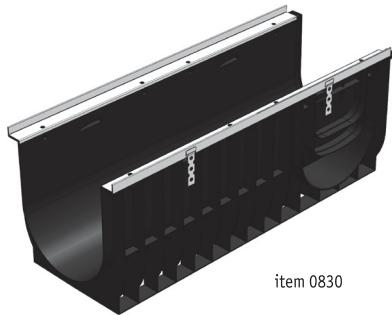


Sewer grates for gutters Gidrolica® Super DN200, class C250/E600

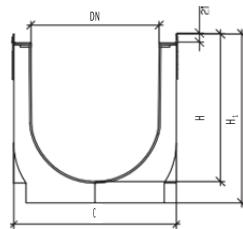
 525	C250	PB-20.23,8.50-mesh plastic	DN200	500	238	42	2,4
50209D	D400	PB-20.24,50-slotted high-strength cast-iron	DN200	500	240	21	8,5
50209E	E600	PB-20.24,50-slotted high-strength cast-iron	DN200	500	240	21	9,52



Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

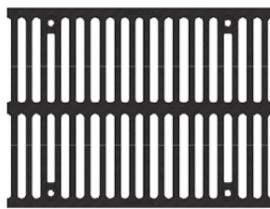


item 0830

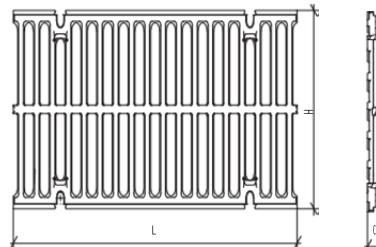


Plastic gutters Gidrolica® Super DN300 class D400/E600

0832	C250	ЛВ-30.38.29,6	DN300	1000	383	295,5/245,5	8.43
0830	C250	ЛВ-30.38.39,6	DN300	1000	383	295,5/245,5	9.6
 0834	C250	ЛВ-30.38.49,6	DN300	1000	383	495,5/445,5	10.74



item 50309E

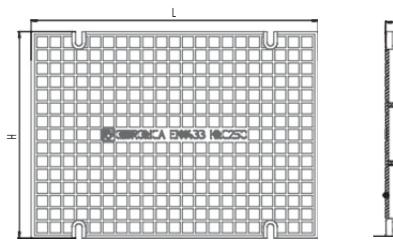


Sewer grates for gutters Gidrolica® Super DN300, high-strength cast-iron, class C250/E600

50309E	E600	PB-30.37,5.50-slotted high-strength cast-iron	DN300	500	375	21	19,1
 535	C250	PB-30.35,8.50 -mesh plastic	DN300	500	358	42	3.52



apt. 536



Blank cover for drainage gutter Gidrolica® Super DN300, class C250

 536	C250	КЛ-30.35,8.50 - plastic	DN300	500	358	42	3.98
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Fastener to fasten grates to plastic drainage gutters Gidrolica® Super, class D400/E600

106 pc.

End plugs for drainage gutters Gidrolica® Super

18101	plastic	DN100	152	4	185	0.15
18151	plastic	DN100	202	4	235	0.17
18201	plastic	DN200	252	4	235	0.21

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

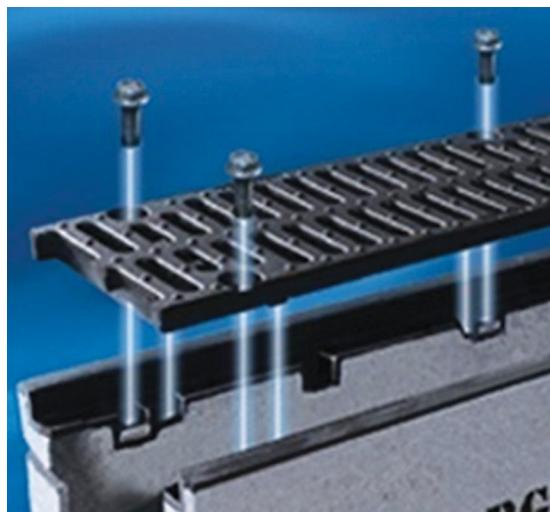
Point drainage

Soil conservation and stabilization system

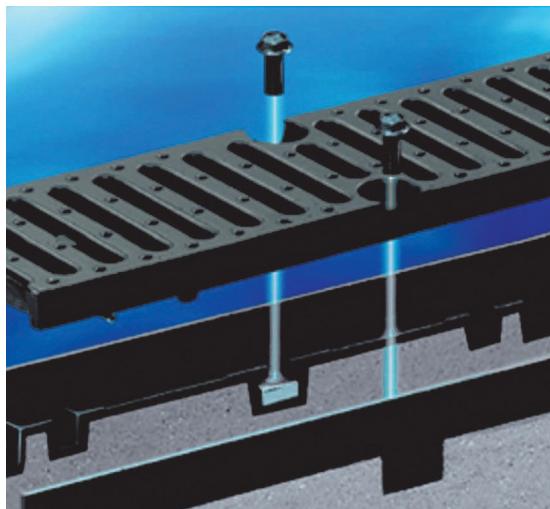
Entrance dirt-guard systems

Multi-purpose grid flooring

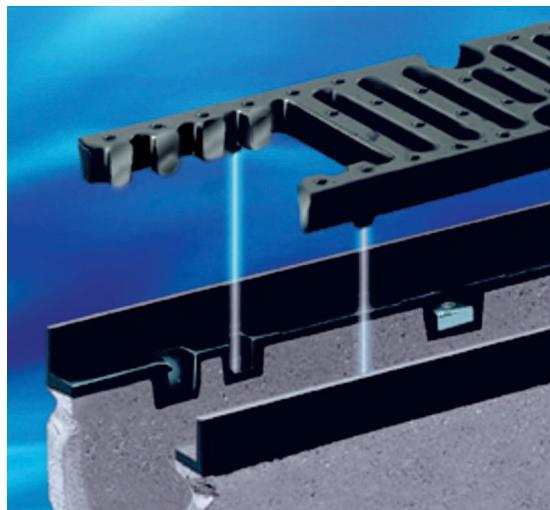
CONCRETE GUTTERS OF CLASS D400, E600 AND F900 – RIGHT CHOICE FOR HIGH LOADS



Concrete gutters of class D400, E600 and F900 are specially designed for use in areas with heavy traffic and high loads.



1. Gutters are produced by the method of vibrocompression, allowing to achieve the most compact structure of the gutter, which has the lowest moisture absorption value, making them more frost-resistant.
2. Gutters are made of concrete B40, it is a robust construction, designed for operation under heavy loads.
3. Grates are made of high-strength high-strength cast iron Vch40; these are reliable constructions for heavy loads.
4. The edge of the gutter is protected by a special nozzle (steel or cast iron Vch40 / Vch50), which is concreted into the body of the gutter.
5. Bolts are used to fasten the grate (up to 8 bolts per a linear meter). A special bolt joint has been specially developed allowing you to replace a failed bolt or nut quickly. Grates always remain fixed.
6. Nozzles on the gutters are equipped with a special tenon, and the grates have a mortise that prevent longitudinal displacement of the grate, when combined. The use of the mortise-and-tenon system contributes to the uniform distribution of dynamic loads over the entire surface of the reinforcing nozzle.



REINFORCING NOZZLES OF CONCRETE GUTTERS OF CLASS D400, E600 AND F900

Concrete gutters of class D400, E600 and F900 are specially designed for use in areas with heavy traffic and high loads.

1. **Reinforcing steel nozzle** It is an optimal and balanced solution for areas with loads D400, DN100, DN150, DN200.

Advantages of galvanized steel nozzles:

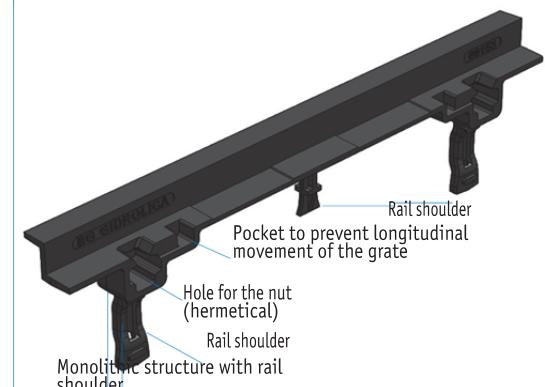
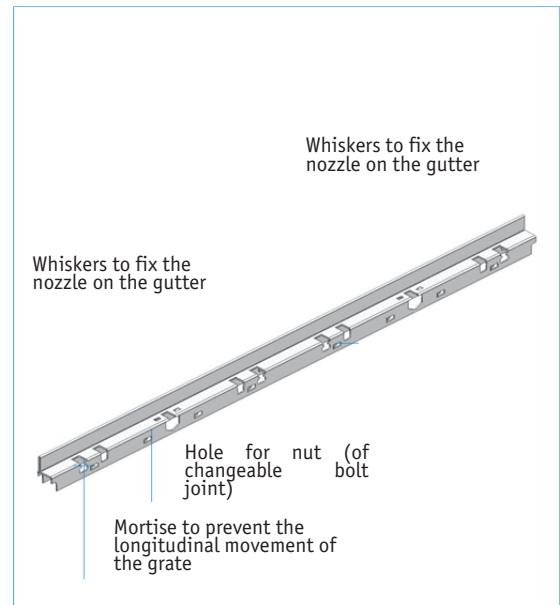
- It is made of galvanized steel with a thickness of 4 mm. This is a reliable and durable protection of the gutter edge.
- The nozzle has whiskers for fixing in the concrete structure of the tray, it is fully pressed and non-removable.
- The nozzle provides holes for the nut of the changeable bolt joint between the gutter and the grate.
- The nozzle provides a mortise for tenon of the grate to prevent the longitudinal movement of the grate and to take some of the load from the bolt joint.

2. Reinforcing cast-iron nozzle

Concrete gutters with cast-iron nozzles are the most robust solution for heavy traffic areas with loads from class E600 to F900. These nozzles improve gutter characteristics under intensive static and dynamic loads.

Advantages of the cast-iron nozzle:

- The nozzle is made of high-strength cast iron Vch40/Vch50.
- The monolithic structure of the nozzle and rail shoulder provides a unique strength to the system of "tray, nozzle, grate, bolt joint".
- Holes for the changeable nut close the gutter concrete hermetically, moisture does not affect the bolt joint.



BGF-Z are shallow-draught concrete gutters with h-shaped galvanized nozzle.

BGU-Z are multi-purpose concrete gutters with h-shaped galvanized nozzle.

Application field:

- fuel stations
- shipping facilities
- storage areas
- industrial construction

Quality:

- high quality concrete with class not lower than B40
- moisture absorption ratio is not more than 6%
- concrete grade according to frost resistance is not lower than F200
- resistance to corrosive substances
- h-shaped nozzle from galvanized steel

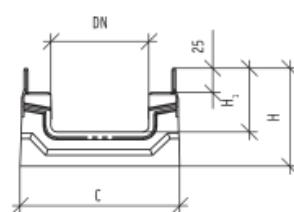
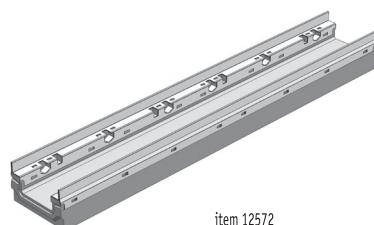
BGF-Z



BGU-Z

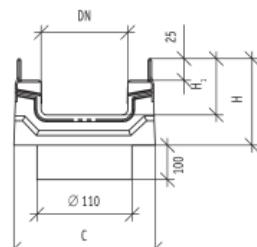
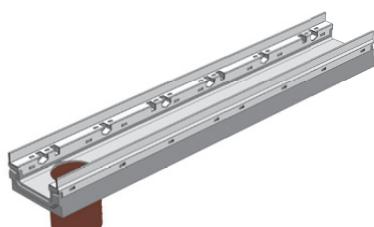


Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



Shallow-draught concrete gutters BGF-Z-DN100, class D400/E600, with galvanized nozzle, without slope

12572	E600	h100	DN100	1000	163	100/65	22
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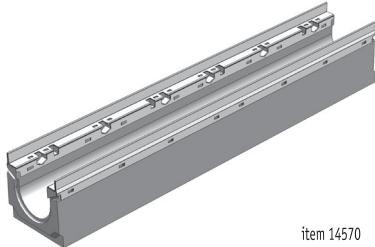


Shallow-draught concrete gutters BGF-Z-DN100, class D400/E600, with galvanized nozzle, with vertical spillway, without slope

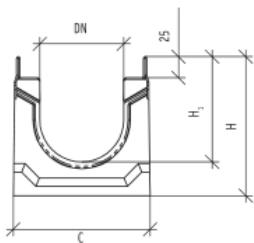
12573	E600	h 100	DN100	1000	163	100/65	18
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Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

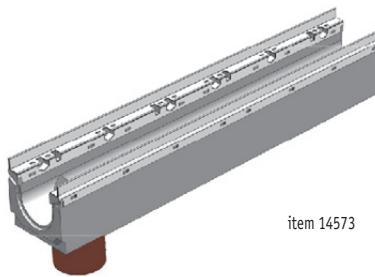


item 14570

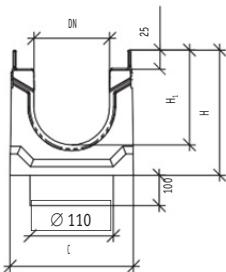


Multi-purpose concrete gutters BGU-Z DN100, class D400/E600, with galvanized nozzle, without slope

14570	E600	0	DN100	1000	163	165/125	35.7
14571	E600	5-0	DN100	1000	163	190/150	39.45
14572	E600	10-0	DN100	1000	163	215/175	43.2

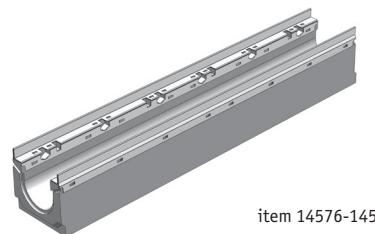


item 14573

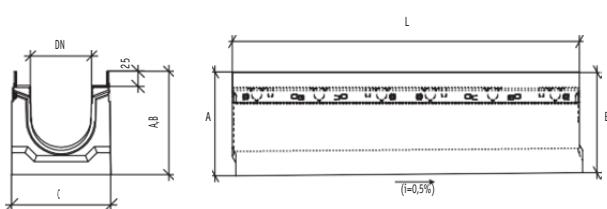


Multi-purpose concrete gutters BGU-Z DN100, class D400/E600, with galvanized nozzle, with vertical spillway, without slope

14573	E600	0	DN100	1000	163	165/125	33.7
14574	E600	5-0	DN100	1000	163	190/150	37.45



item 14576-14585



Multi-purpose concrete gutters BGU-Z DN100, class D400/E600, with galvanized nozzle, with slope 0.5 %

14576	E600	Nº 1	DN100	1000	163	165/170	36.08
14577	E600	Nº 2	DN100	1000	163	170/175	36.83
14578	E600	Nº 3	DN100	1000	163	175/180	37.58
14579	E600	Nº 4	DN100	1000	163	180/185	38.33
14580	E600	Nº 5	DN100	1000	163	185/190	39.08
14581	E600	Nº 6	DN100	1000	163	190/195	39.83
14582	E600	Nº 7	DN100	1000	163	195/200	40.58
14583	E600	Nº 8	DN100	1000	163	200/205	41.33
14584	E600	Nº 9	DN100	1000	163	205/210	42.08
14585	E600	Nº 10	DN100	1000	163	210/215	42.83

Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

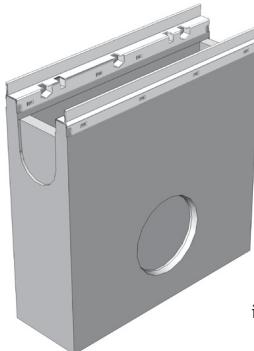
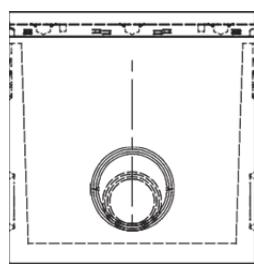
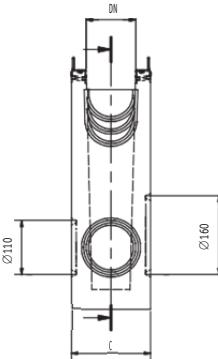
Drainage systems class of loading F900

Point drainage

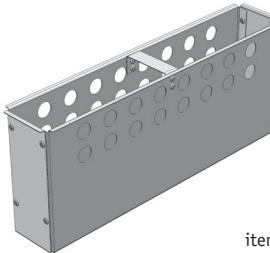
Soil conservation and stabilization system

Entrance dirt-guard systems

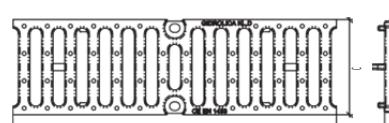
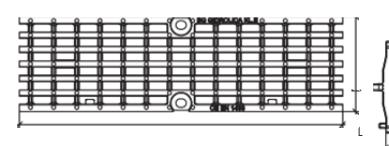
Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
							

Multi-purpose concrete sand traps BGU-Z DN100, class D400/E600 with galvanized nozzle,							
22195	E600		DN100	500	201	510/125	47.7

Drainage systems class of loading F900							
	item 49010900						

Multi-purpose basket for sand trap BGU-Z DN100							
49010900	galvanized steel		DN100	400	80	163.5	2.0

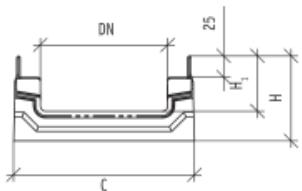
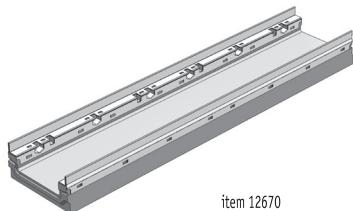
Soil conservation and stabilization system				
	item RU23002			

Sewer grates for gutters BGF-Z/BGU-Z DN100, class D400/E600							
RU23002	D400	500/147/25, 18/120 - slotted cast-iron	DN100	500	147	25	4
23820	E600	500/147/25, 27/13 - mesh cast-iron	DN100	500	147	25	4.3



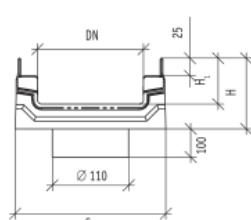


Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



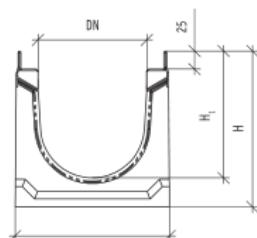
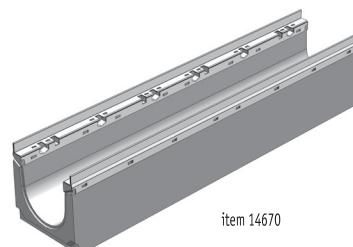
Shallow-draught concrete gutters BGF-ZDN150, class D400/E600, with galvanized nozzle, without slope

12670	E600	h100	DN150	1000	213	100/65	28
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Shallow-draught concrete gutters BGF-ZDN150, class D400/E600, with galvanized nozzle, with vertical spillway, without slope

12671	E600	h100	DN150	1000	213	100/65	24.3
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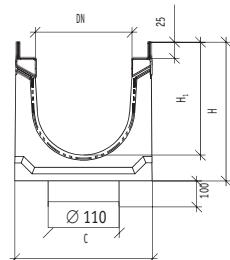
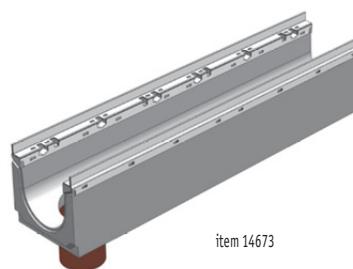


Multi-purpose concrete gutters BGU-Z DN150, class D400/E600, with galvanized nozzle, without slope

14670	E600	№ 0	DN150	1000	213	215/175	53.7
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14671	E600	№5-0	DN150	1000	213	240/200	57.2
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14672	E600	№10-0	DN150	1000	213	265/225	60.7
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Multi-purpose concrete gutters BGU-Z DN150, class D400/E600, with galvanized nozzle, with vertical spillway, without slope

14673	E600	№ 0	DN150	1000	213	215/175	50.7
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14674	E600	№5-0	DN150	1000	213	240/200	54.2
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14675	E600	№10-0	DN150	1000	213	265/225	57.7
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Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Soil conservation and stabilization system

Point drainage
Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

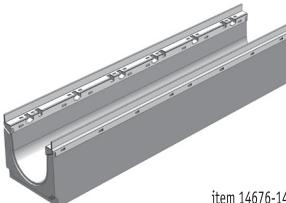
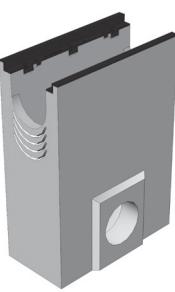
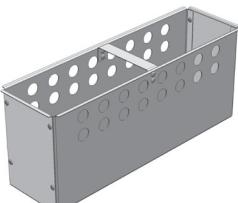
Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

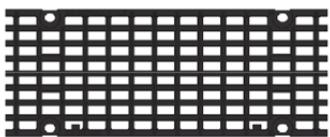
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ , mm	kg
							
		item 14676-14685					
Multi-purpose concrete gutters BGU-Z DN150, class D400/E600, with galvanized nozzle, with slope 0,5 %							
14676	E600	Nº 1	DN150	1000	213	215/220	54.05
14677	E600	Nº 2	DN150	1000	213	220/225	54.75
14678	E600	Nº 3	DN150	1000	213	225/230	55.45
14679	E600	Nº 4	DN150	1000	213	230/235	56.15
14680	E600	Nº 5	DN150	1000	213	235/240	56.85
14681	E600	Nº 6	DN150	1000	213	240/245	57.55
14682	E600	Nº 7	DN150	1000	213	245/250	58.25
14683	E600	Nº 8	DN150	1000	213	250/255	58.95
14684	E600	Nº 9	DN150	1000	213	255/260	59.65
14685	E600	Nº 10	DN150	1000	213	260/265	60.35
							
		item 22201					
Concrete sand trap BGZ-S DN150, class E600/F900, with cast-iron nozzle							
22201	F900		DN150	500	261	690	95
							
		item 49015900					
Multi-purpose basket for sand trap BGU-Z DN150							
49015900		Galvanized steel	DN150	400	120	163.5	2.0

p.
110p.
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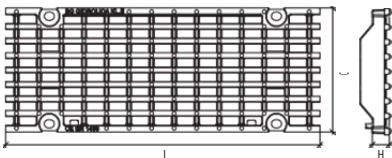
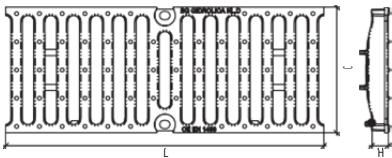
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item RU22038

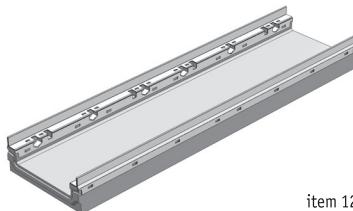


item RU22712

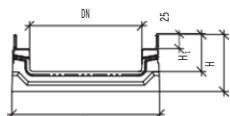


Sewer grates for gutters BGF-Z/BGU-Z DN150, class D400/E600

RU22038	D400	500/197/25, 18/170 – slotted cast-iron	DN150	500	197	25	7
RU22712	E600	500/197/25, 27/13 – mesh cast-iron	DN150	500	197	25	7.33

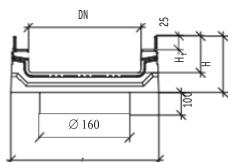
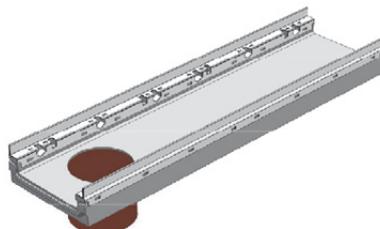


item 12770



Shallow-draught concrete gutters BGF-Z/DN200, class D400/E600, with galvanized nozzle, without slope

12770	E600	h 100	DN200	1000	263	100/65	34
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Shallow-draught concrete gutters BGF-Z/DN200, class D400/E600, with galvanized nozzle, with vertical spillway, without slope

12771	E600	h 100	DN200	1000	263	100/65	27.3
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* Diameter for pipes to the gutter with vertical spillway Ø160/200 mm

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

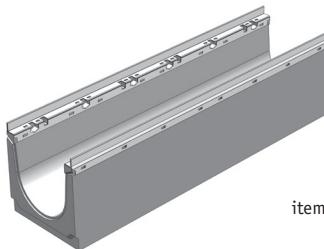
Point drainage

Soil conservation and stabilization system

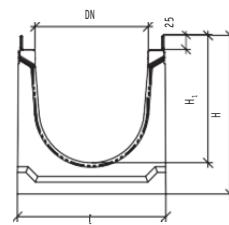
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

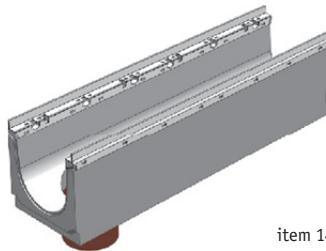


item 14770

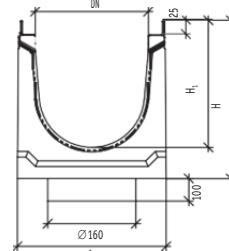


Multi-purpose concrete gutters BGU-Z DN200, class D400/E600, with galvanized nozzle, without slope

14770	E600	Nº 0	DN200	1000	263	280/225	82.7
14771	E600	Nº 5-0	DN200	1000	263	305/250	86.7
14772	E600	Nº 10-0	DN200	1000	263	330/275	90.7

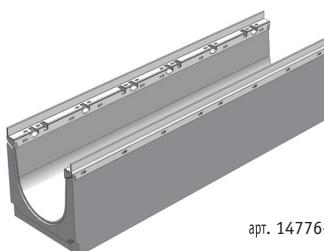


item 14773



Multi-purpose concrete gutters BGU-Z DN200, class D400/E600, with galvanized nozzle, with vertical spillway, without slope

14773	E600	Nº 0	DN200	1000	263	280/225	76.7
14774	E600	Nº 5-0	DN200	1000	263	305/250	80.7



apt. 14776-14785



(i=0.5%)

Multi-purpose concrete gutters BGU-Z DN200, class D400/E600, with galvanized nozzle, with slope 0.5 %

14776	E600	Nº 1	DN200	1000	263	280/285	83.1
14777	E600	Nº 2	DN200	1000	263	285/290	83.9
14778	E600	Nº 3	DN200	1000	263	290/295	84.7
14779	E600	Nº 4	DN200	1000	263	295/300	85.5
14780	E600	Nº 5	DN200	1000	263	300/305	86.3
14781	E600	Nº 6	DN200	1000	263	305/310	87.1
14782	E600	Nº 7	DN200	1000	263	310/315	87.9
14783	E600	Nº 8	DN200	1000	263	315/320	88.7
14784	E600	Nº 9	DN200	1000	263	320/325	89.5
14785	E600	Nº 10	DN200	1000	263	325/330	90.3



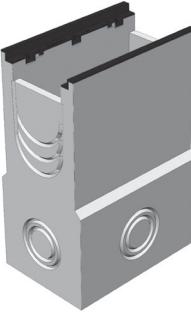
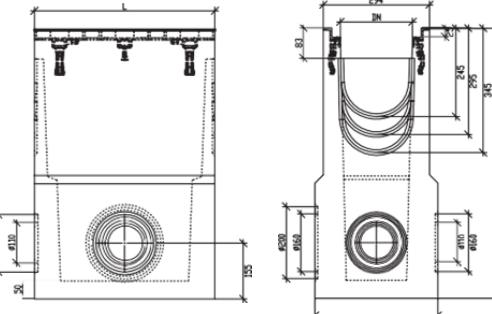
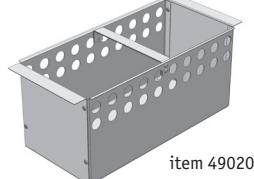
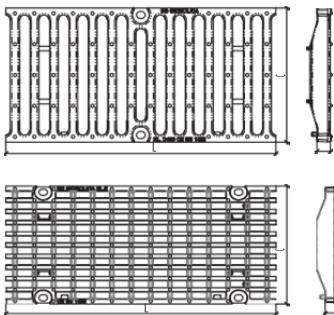
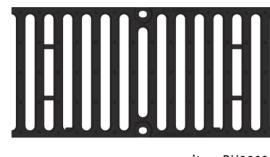
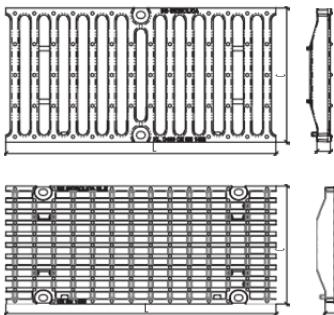
p. 110



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* Diameter for pipes to the gutter with vertical spillway Ø160/200 mm



Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
	item 49020100						
							
Sand traps BGZ-S DN200, class E600/F900, with cast-iron nozzle							
49020100	F900	500/340/750, single-section		DN200	500	340	750
							138
	item 49020900						
							
Multi-purpose basket for sand traps BGU-Z DN200							
49020900		Galvanized steel		DN200	400	175	163.5
							2.1
	item RU22039						
							
Sewer grates for gutters BGF-Z/ BGU-Z DN200, class D400/E600							
RU22039	D400	500/247/25, 18/220 – slotted cast-iron		DN200	500	247	25
RU22722	E600	500/247/25,27/13-mesh cast-iron		DN200	500	247	25
							7.7
							9.1
Fastener for cast-iron grates							
22281		для BGF-Z,BGU-Z		DN100-200			

Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Soil conservation and stabilization system

Multi-purpose grid flooring

Entrance dirt-guard systems

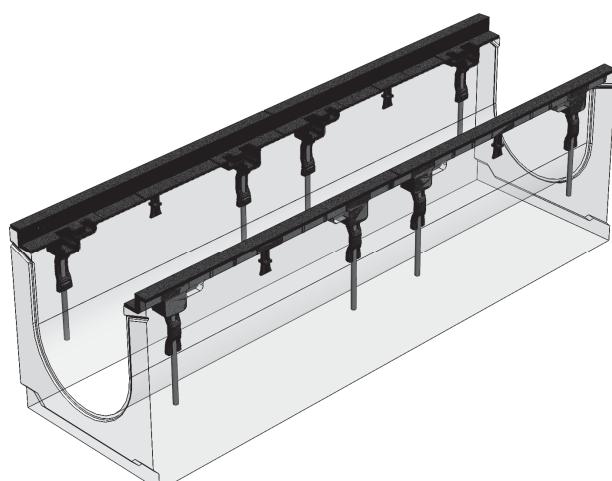
BGZ-S is a series of concrete drainage gutters with a Z-shaped cast-iron nozzle pressed into the body of the gutter for use in areas of high and ultrahigh loads.

Application field:

- fuel stations
- highways
- shipping facilities
- storage areas
- ports
- industrial construction

Quality:

- high-quality concrete with class B60
- moisture absorption ratio is 2,2%
- concrete grade according to frost resistance is F₂300
- concrete grade according to water resistance is W10
- gutter wall thickness is 47mm
- additional reinforcement of the gutter walls with reinforcing rail shoulders to prevent its destruction
- supporting structure is made of high-strength cast iron Vch40
- monolithic structure of the supporting structure and rail shoulder to enhance connection with the gutter body and prevent its destruction



The installation of drainage gutters BGZ-S is recommended in areas of high mechanical loads (E600/F900). As an additional reinforcement of the structure, wall reinforcement with galvanized steel rods is used.

Pins for reinforcement are installed in a monolithic structure of the nozzle with the rail shoulder. They are securely hidden in concrete and protected from moisture and air, thus, not subject to corrosion.

Reinforcement of the gutter walls with steel pins strengthens them additionally and prevents destruction of the entire system.

DN 150



DN 200



DN 300



DN 400

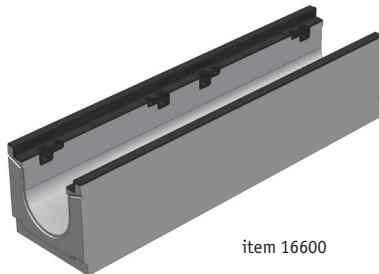


DN 500

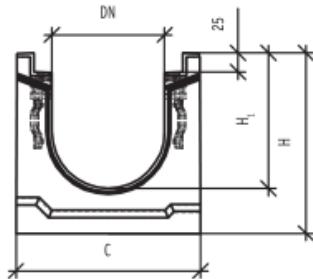




Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item 16600



Drainage systems class of loading A15/C250

Drainage systems class of loading D400/F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

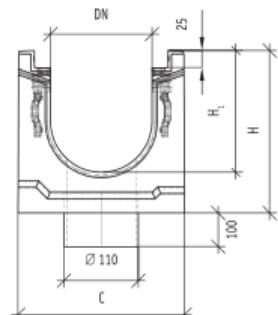
Multi-purpose grid flooring

Concrete gutters BGZ-S DN150, class E600/F900, with cast-iron nozzle, without slope

16600	F900	№ 0	DN150	1000	246	240/180	86
16601	F900	№ 5-0	DN150	1000	246	265/205	90,75
16602	F900	№ 10-0	DN150	1000	246	290/320	91,5
16603	F900	№ 15-0	DN150	1000	246	315/255	100,25
16604	F900	№ 20-0	DN150	1000	246	340/280	105



item 16605



Concrete gutters BGZ-S DN150, class E600/F900, with cast-iron nozzle, with vertical spillway, without slope

16605	F900	№ 0	DN150	1000	246	240/180	82
16606	F900	№ 5-0	DN150	1000	246	265/205	86,75
16607	F900	№ 10-0	DN150	1000	246	290/320	91,5
16608	F900	№ 15-0	DN150	1000	246	315/255	96,25
16609	F900	№ 20-0	DN150	1000	246	340/280	101

* Diameter for pipes to the gutter with vertical spillway Ø110/160 mm

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

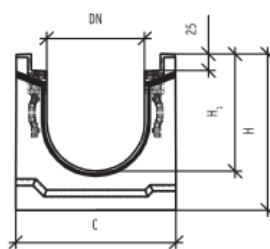
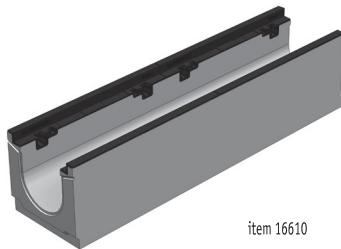
Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

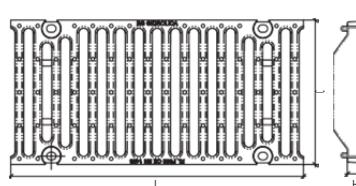
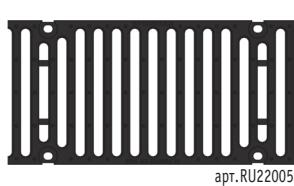
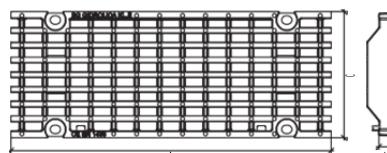
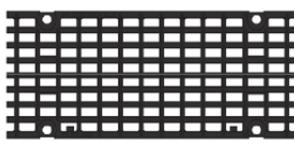
Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ , mm	kg kg



Concrete gutters BGZ-S DN150, class E600/F900, with cast-iron nozzle, with slope 0,5%

16610	F900	Nº 1	DN150	1000	246	240/245	86.48
16611	F900	Nº 2	DN150	1000	246	245/250	87.43
16612	F900	Nº 3	DN150	1000	246	250/255	88,38
16613	F900	Nº 4	DN150	1000	246	255/260	89.33
16614	F900	Nº 5	DN150	1000	246	260/265	90,28
16615	F900	Nº 6	DN150	1000	246	265/270	91.23
16616	F900	Nº 7	DN150	1000	246	270/275	92,18
16617	F900	Nº 8	DN150	1000	246	275/280	93.13
16618	F900	Nº 9	DN150	1000	246	280/285	94,08
16619	F900	Nº 10	DN150	1000	246	285/290	95.03
16620	F900	Nº 11	DN150	1000	246	290/295	95.58
16621	F900	Nº 12	DN150	1000	246	295/300	96.93
16622	F900	Nº 13	DN150	1000	246	300/305	97,88
16623	F900	Nº 14	DN150	1000	246	305/310	98.83
16624	F900	Nº 15	DN150	1000	246	310/315	99,78
16625	F900	Nº 16	DN150	1000	246	315/320	100.73
16626	F900	Nº 17	DN150	1000	246	315/320	101,68
16627	F900	Nº 18	DN150	1000	246	325/330	102.63
16628	F900	Nº 19	DN150	1000	246	330/335	103.58
16629	F900	Nº 20	DN150	1000	246	335/340	104.53



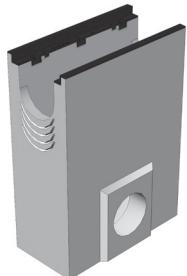
Sewer grates for gutters BGZ-S DN150, class E600/F900

RU22712	E600	500/197/25, 27/13, mesh cast-iron	DN150	500	197	25	7.3
RU22005	F900	500/197/25, SW18/170 slotted cast-iron	DN150	500	197	25	8,87

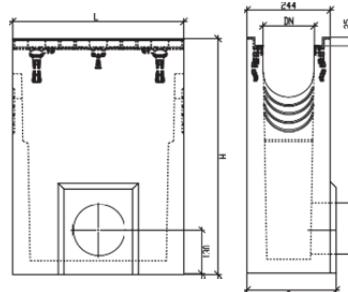




Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

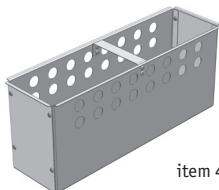


item 22201



Concrete sand trap BGZ-S DN150, class E600/F900, with cast-iron nozzle

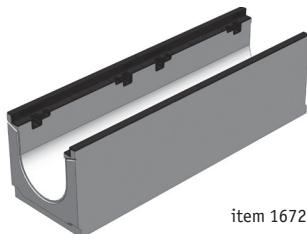
22201	F900		DN150	500	261	690	95
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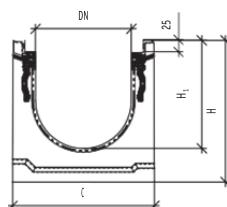
item 49015900

Multi-purpose basket for sand trap BGZ-S DN150

49015900	galvanized steel		DN150	400	120	163.5	2.0
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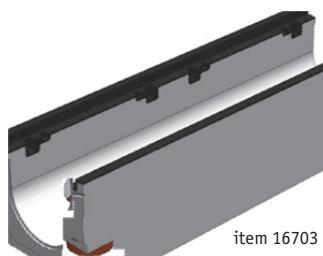


item 16726

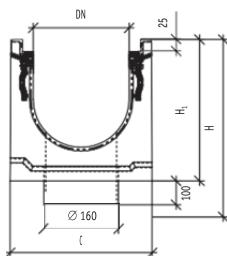


Concrete gutters BGZ-S DN200, class E600/F900, with cast-iron nozzle, without slope

16700	F900	0	DN200	1000	298	295/225	114
16701	F900	№5-0	DN200	1000	298	320/250	119
16702	F900	№10-0	DN200	1000	298	345/275	124
16726	F900	№15-0	DN200	1000	298	370/300	129
16727	F900	№20-0	DN200	1000	298	395/325	134



item 16703



Concrete gutters BGZ-S DN200, class E600/F900, with cast-iron nozzle, with vertical spillway, without slope

16703	F900	№ 0	DN200	1000	298	295/225	107
16704	F900	№ 5-0	DN200	1000	298	320/250	112
16705	F900	№ 10-0	DN200	1000	298	345/275	117
16728	F900	№ 15-0	DN200	1000	298	370/300	122
16729	F900	№ 20-0	DN200	1000	298	395/325	127

Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

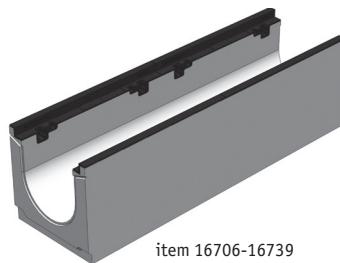
Point drainage

Soil conservation and stabilization system

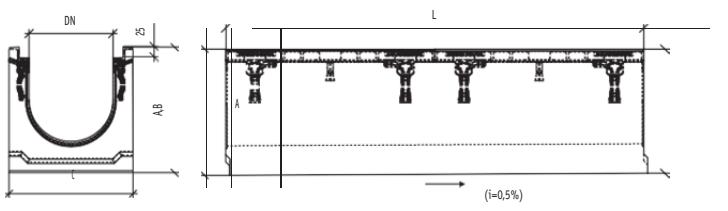
Entrance dirt-guard systems

Multi-purpose grid flooring

	Item	Class of loading	Type	DN	Length	Width	Height	Weight
					L mm	C mm	H/H ₁ mm	kg
Concrete gutters BGZ-S DN200, class E600/F900, with cast-iron nozzle, , with slope 0,5%								
	16706	F900	1	DN200	1000	298	295/300 114.5	298
	16707	F900	2	DN200	1000	298	300/305 115.5	298
	16708	F900	3	DN200	1000	298	305/310 116.5	298
	16709	F900	4	DN200	1000	298	310/315 117.5	298
	16710	F900	5	DN200	1000	298	315/320 118.5	298
	16711	F900	6	DN200	1000	298	320/325 119.5	298
	16712	F900	7	DN200	1000	298	325/330 120.5	298
	16713	F900	8	DN200	1000	298	330/335 121.5	298
	16714	F900	9	DN200	1000	298	335/340 122.5	298
	16715	F900	10	DN200	1000	298	340/345 123.5	298
	16730	F900	11	DN200	1000	298	345/350 124.5	298
	16731	F900	12	DN200	1000	298	350/355 125.5	298
	16732	F900	13	DN200	1000	298	355/360 126.5	298
	16733	F900	14	DN200	1000	298	360/365 127.5	298
	16734	F900	15	DN200	1000	298	365/370 128.5	298
	16735	F900	16	DN200	1000	298	370/375 129.5	298
	16736	F900	17	DN200	1000	298	375/380 130.5	298
	16737	F900	18	DN200	1000	298	380/385 131.5	298
	16738	F900	19	DN200	1000	298	385/390 132.5	298
	16739	F900	20	DN200	1000	298	390/395 133.5	298

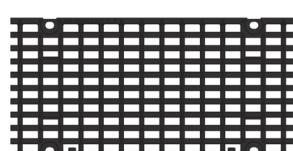


item 16706-16739

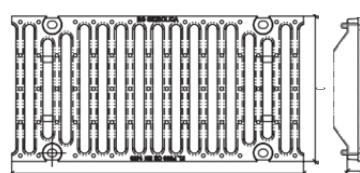
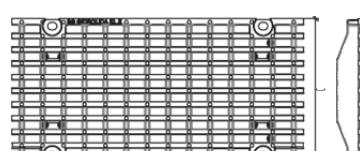


Sewer grates for gutters BGZ-S DN200, class E600/F900

RU22722	E600	500/247/25,27/13 - mesh cast-iron	DN200	500	247	25	9.1
RU22008	F900	500/247/25,16/220 - slotted cast-iron	DN200	500	247	25	12



item RU22722



item RU22008

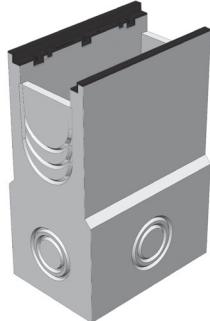


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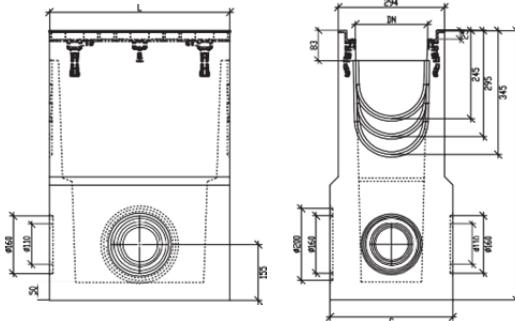


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88

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H, mm	kg



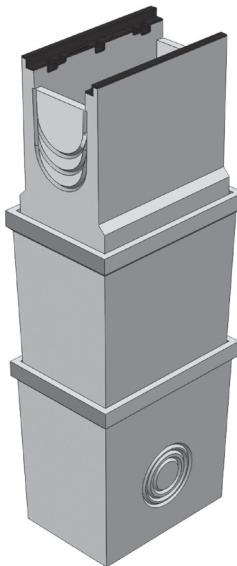
item 49020100



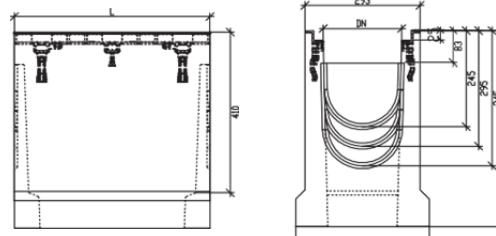
Sand traps BGZ-S DN200, class E600/F900, with cast-iron nozzle

49020100 F900 500/340/750, single-section

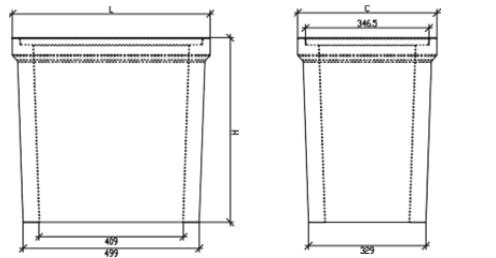
DN200 500 340 750 138



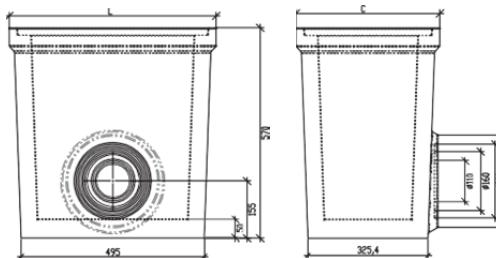
item 49020110



item 49001000



item 49001001



Accessories for sand traps BGZ-S DN200

49020110 F900 500/340/500, upper part

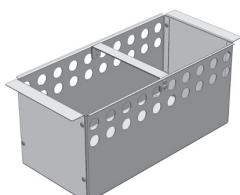
DN200 500 340 500 77

49001000 560/390/520, multi-purpose intermediate part

DN200 560 390 520 82

49001001 560/390/570, multi-purpose lower part

DN200 560 390 570 103



item 49020900

Multi-purpose basket for sand trap BGZ-S DN200

49020900 galvanized steel

DN200 400 175 163.5 2.1

Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

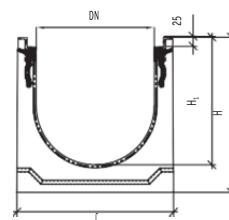
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

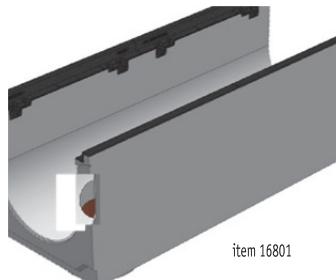


item 16800

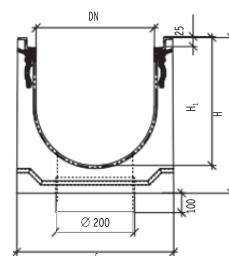


Concrete gutters BGZ-S DN300, class E600/F900, with cast-iron nozzle, without slope

16800	F900	0	DN300	1000	399	395/325	169
40630161	F900	Nº 5-0	DN300	1000	399	420/350	166
40630162	F900	Nº 10-0	DN300	1000	399	445/375	172
40630163	F900	Nº 15-0	DN300	1000	399	470/400	178
40630164	F900	Nº 20-0	DN300	1000	399	495/425	184



item 16801



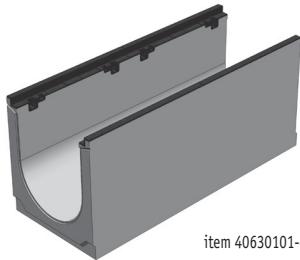
Concrete gutters BGZ-S DN300, class E600/F900, with cast-iron nozzle, with vertical spillway, without slope

16801	F900	Nº 0	DN300	1000	399	395/325	162
40630171	F900	Nº 5-0	DN300	1000	399	420/350	159
40630172	F900	Nº 10-0	DN300	1000	399	445/375	165
40630173	F900	Nº 15-0	DN300	1000	399	470/400	171
40630174	F900	Nº 20-0	DN300	1000	399	495/425	177

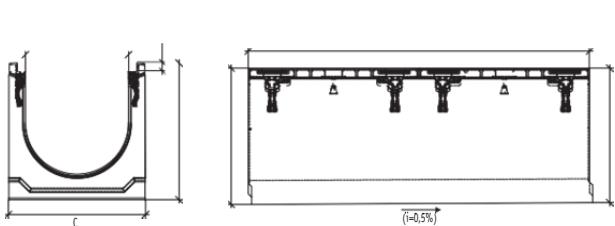
* Diameter for pipes to the gutter with vertical spillway Ø200/315 mm



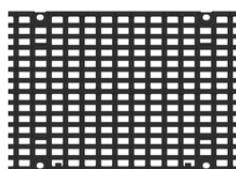
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



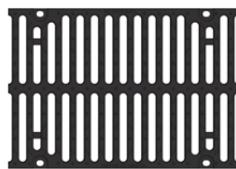
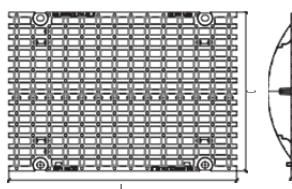
item 40630101-40630120



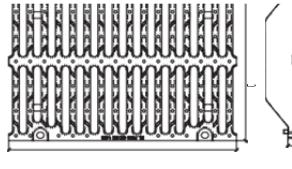
Concrete gutters BGZ-S DN300, class E600/F900, with cast-iron nozzle, with slope 0,5%							
Item	Class of loading	Type	DN	Length	Width	Height	Weight
40630101	F900	1	DN300	1000	399	395/400	162.5
40630102	F900	2	DN300	1000	399	400/405	163.1
40630103	F900	3	DN300	1000	399	405/410	163.7
40630104	F900	4	DN300	1000	399	410/415	164.9
40630105	F900	5	DN300	1000	399	415/420	166.1
40630106	F900	6	DN300	1000	399	420/425	167.3
40630107	F900	7	DN300	1000	399	425/430	168.5
40630108	F900	8	DN300	1000	399	430/435	169.7
40630109	F900	9	DN300	1000	399	435/440	170.9
40630110	F900	10	DN300	1000	399	440/445	172.1
40630111	F900	11	DN300	1000	399	445/450	173.3
40630112	F900	12	DN300	1000	399	450/455	174.5
40630113	F900	13	DN300	1000	399	455/460	175.7
40630114	F900	14	DN300	1000	399	460/465	176.9
40630115	F900	15	DN300	1000	399	465/470	178.1
40630116	F900	16	DN300	1000	399	470/475	179.3
40630117	F900	17	DN300	1000	399	475/480	180.5
40630118	F900	18	DN300	1000	399	480/485	181.7
40630119	F900	19	DN300	1000	399	485/490	182.9
40630120	F900	20	DN300	1000	399	490/495	184



item RU22732



item RU22016



Sewer grates for gutters BGZ-S DN300, class E600/F900,							
Item	Class of loading	Dimensions	DN	Length	Width	Height	Weight
RU22732	E600	500/347/25, 25/14 - mesh cast-iron	DN300	500	347	25	16.5
RU22016	F900	500/347/25, 16/148 - slotted cast-iron	DN300	500	347	25	30.9



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Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

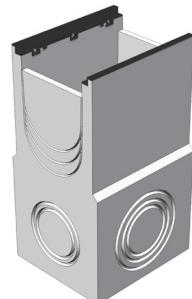
Point drainage

Soil conservation and stabilization system

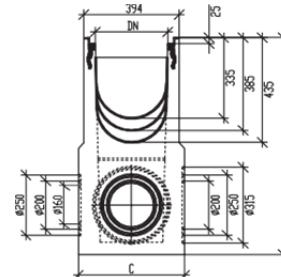
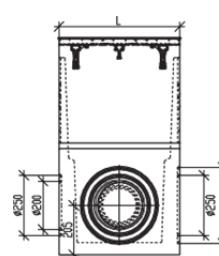
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

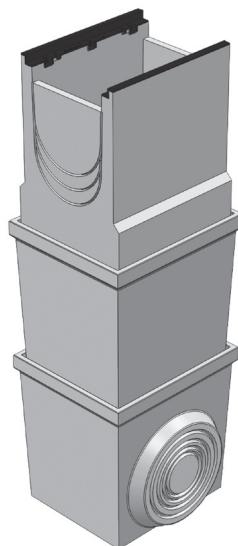


item 49030100

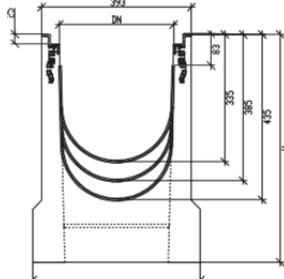
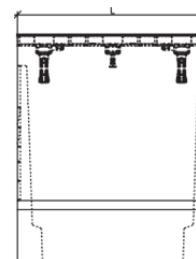


Sand traps BGZ-S DN300, class E600/F900, with cast-iron nozzle

49030100 F900 500/440/900, single-section DN300 500 440 900 200

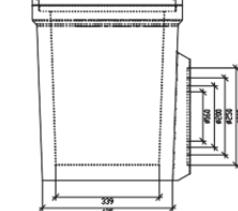
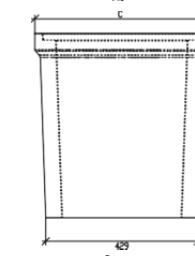
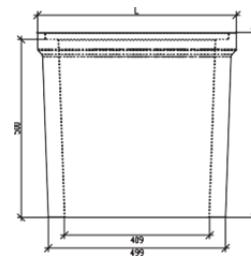


item 49030110



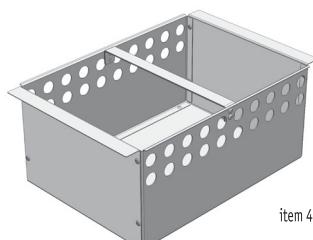
item 49001005

item 49001006



Accessories for sand traps BGZ-S DN300

49030110 F900	500/440/600, upper part	DN300	500	440	600	109
49001005	560/490/520, multi-purpose intermediate part	DN300	560	490	520	93
49001006	560/490/570, multi-purpose lower part	DN300	560	490	570	130



item 49030900

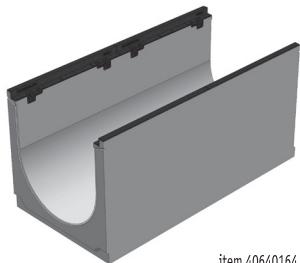
Multi-purpose basket for sand trap BGZ-S DN300

49030900	Galvanized steel	DN300	400	265	163.5	2.1
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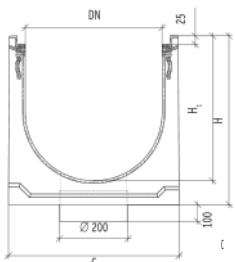


Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

NEW



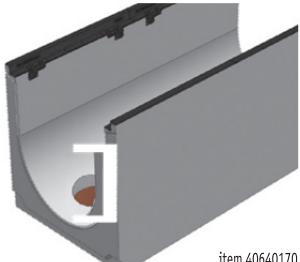
item 40640164



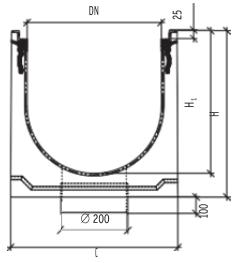
Concrete gutters BGZ-S DN300 class E600/F900, with cast-iron nozzle, without slope

NEW 40640100 F900	0	DN400	1000	499	395/325	203
NEW 40640161 F900	5	DN400	1000	499	420/350	208
NEW 40640162 F900	10	DN400	1000	499	445/375	214
NEW 40640163 F900	15	DN400	1000	499	470/400	219
NEW 40640164 F900	20	DN400	1000	499	495/425	225

NEW



item 40640170



Concrete gutters BGZ-S DN300 class E600/F900, with cast-iron nozzle, with vertical spillway, without slope

40640170	F900	№ 0	DN400	1000	499	395/325	203
NEW 40640171	F900	№5	DN400	1000	499	420/350	208
40640172	F900	№10	DN400	1000	499	445/375	214
NEW 40640173	F900	№15	DN400	1000	499	470/400	219
40640174	F900	№20	DN400	1000	499	495/425	225

* Diameter for pipes to the gutter with vertical spillway Ø315/400 mm

Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

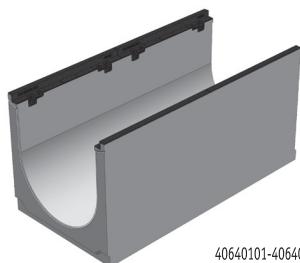
Point drainage

Soil conservation and stabilization system

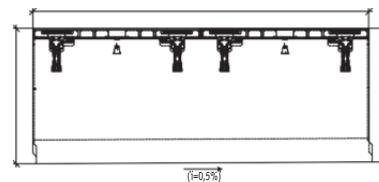
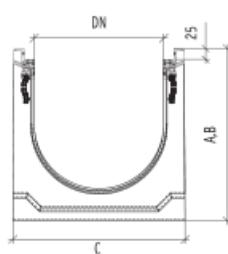
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

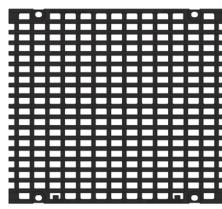


40640101-40640120

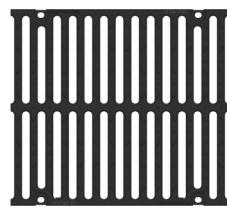


Concrete gutters BGZ-S DN400 class E600/F900, with cast-iron nozzle, with slope 0,5%

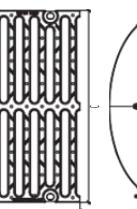
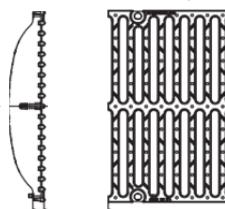
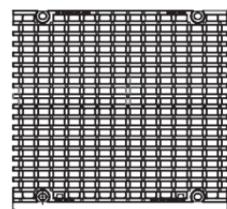
40640101	F900	№1	DN400	1000	499	395/400	203
40640102	F900	№2	DN400	1000	499	400/405	204
40640103	F900	№3	DN400	1000	499	405/410	205
40640104	F900	№4	DN400	1000	499	410/415	207
40640105	F900	№5	DN400	1000	499	415/420	208
40640106	F900	№6	DN400	1000	499	420/425	209
40640107	F900	№7	DN400	1000	499	425/430	210
40640108	F900	№8	DN400	1000	499	430/435	211
40640109	F900	№9	DN400	1000	499	435/440	212
40640110	F900	№10	DN400	1000	499	440/445	213
40640111	F900	№11	DN400	1000	499	445/450	214
40640112	F900	№12	DN400	1000	499	450/455	215
40640113	F900	№13	DN400	1000	499	455/460	216
40640114	F900	№14	DN400	1000	499	460/465	218
40640115	F900	№15	DN400	1000	499	465/470	219
40640116	F900	№16	DN400	1000	499	470/475	220
40640117	F900	№17	DN400	1000	499	475/480	221
40640118	F900	№18	DN400	1000	499	480/485	222
40640119	F900	№19	DN400	1000	499	485/490	223
40640120	F900	№20	DN400	1000	499	490/495	224



item RU22045



item RU22046



Sewer grates for gutters BGZ-S DN400, class E600/F900

RU22045	E600	500/447/25,MW 25/14 – mesh cast-iron	DN400	500	447	25	26.87
RU22046	F900	500/447/25,18/200 – slotted cast-iron	DN400	500	447	25	31.70

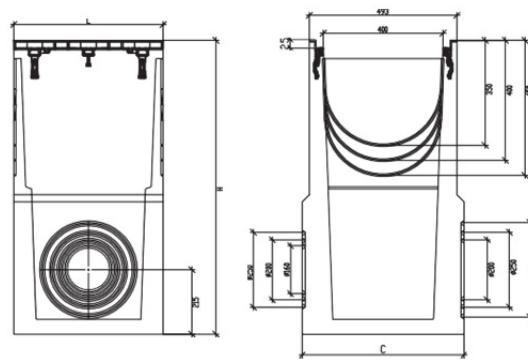
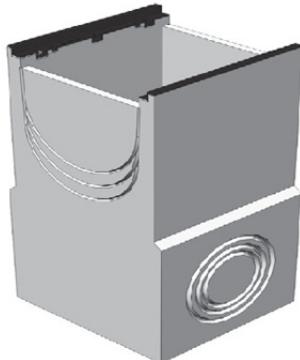
Fastener for cast-iron grates

22281	для BGZ-S	DN150-DN400
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p.
110

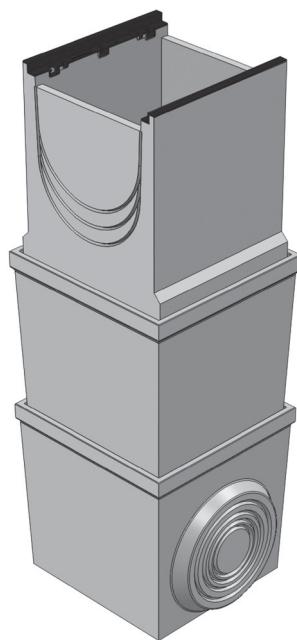


Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



Sand traps BGZ-S DN400, class E600/F900, with cast-iron nozzle

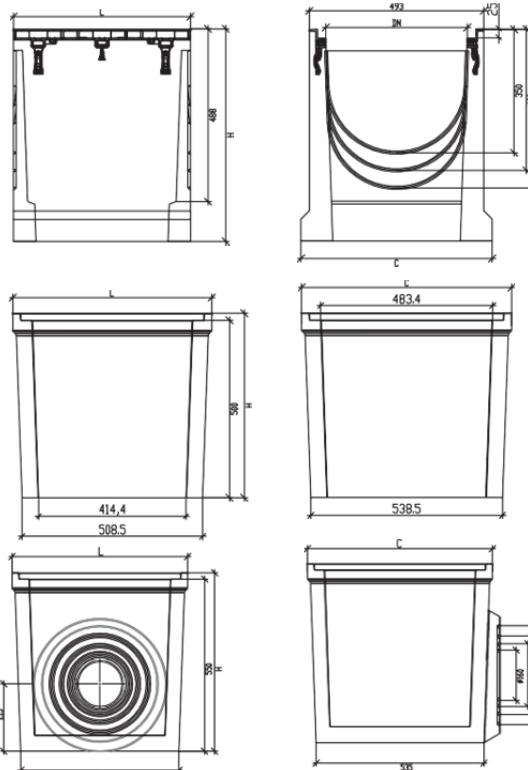
49040100	F900	500/540/1000, single-section	DN400	500	540	1000	249
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item 49040110

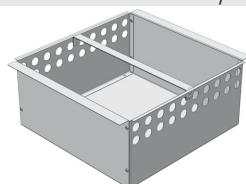
item 49001010

item 49001011



Accessories for sand traps BGZ-S DN400

49040110	F900	500/540/600, upper part	DN400	500	540	600	113
49001010		560/590/520, multi-purpose intermediate part	DN400	560	590	520	104
49001011		560/590/570, multi-purpose lower part	DN400	560	590	570	147



item 49040900

Multi-purpose basket for sand trap BGZ-S DN400

49040900	galvanized steel	DN400	400	365	163.5	3.24
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Drainage systems class of loading A15/C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

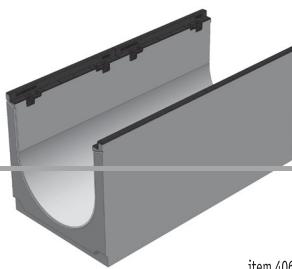
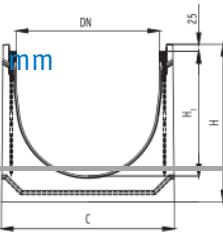
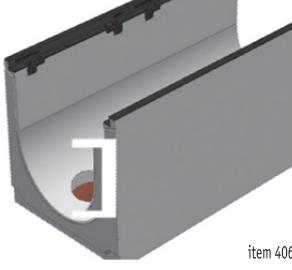
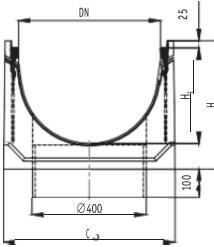
Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

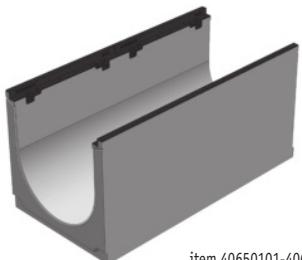
Entrance dirt-guard systems

Multi-purpose grid flooring

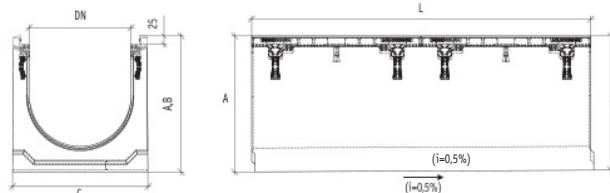
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L	C	H/H ₁	kg
							
							
		item 40650164					
Concrete gutters BGZ-S DN500 class E600/F900, with cast-iron nozzle, without slope							
	40650100 F900	Nº 0	DN500	1000	603	450	273.25
	40650161 F900	Nº 5	DN500	1000	594	475	278.55
	40650163 F900	Nº15	DN500	1000	594	525	289.15
							
							
		item 40650170					
							
Concrete gutters BGZ-S DN500 class E600/F900, with cast-iron nozzle, with vertical spillway, without slope							
40650170	F900	0	DN500	1000	594	450	266.25
	40650171 F900	Nº5	DN500	1000	594	475	271.55
	40650172 F900	Nº10	DN500	1000	594	500	276.85
	40650173 F900	Nº 15	DN500	1000	594	525	282.15
	40650174 F900	NºNº20	DN500	1000	594	550	287.5

* Diameter for pipes to the gutter with vertical spillway Ø315/400 mm

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item 40650101-40650120



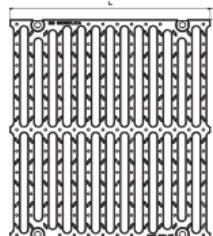
Concrete gutters BGZ-S DN500 class E600/F900, with cast-iron nozzle, with slope 0,5%

40650101	F900	Nº 1	DN500	1000	603	450/455	274.31
40650102	F900	Nº 2	DN500	1000	603	455/460	275.37
40650103	F900	Nº 3	DN500	1000	603	460/465	276.43
40650104	F900	Nº 4	DN500	1000	603	465/470	277.49
40650105	F900	Nº 5	DN500	1000	603	470/475	278.55
40650106	F900	Nº 6	DN500	1000	603	475/480	279.61
40650107	F900	Nº 7	DN500	1000	603	480/485	280.67
40650108	F900	Nº 8	DN500	1000	603	485/490	281.73
40650109	F900	Nº 9	DN500	1000	603	490/495	282.79
40650110	F900	Nº 10	DN500	1000	603	495/500	283.85
40650111	F900	Nº 11	DN500	1000	603	500/505	284.91
40650112	F900	Nº 12	DN500	1000	603	505/510	285.97
40650113	F900	Nº 13	DN500	1000	603	510/515	287.03
40650114	F900	Nº 14	DN500	1000	603	515/520	288.09
40650115	F900	Nº 15	DN500	1000	603	520/525	289.15
40650116	F900	Nº 16	DN500	1000	603	525/530	290.21
40650117	F900	Nº 17	DN500	1000	603	530/535	291.27
40650118	F900	Nº 18	DN500	1000	603	535/540	292.33
40650119	F900	Nº 19	DN500	1000	603	540/545	293.39
40650120	F900	Nº 20	DN500	1000	603	545/550	294.45

NEW



item RU22015



Sewer grates for gutters BGZ-S DN500, class E600/F900

RU22015	E600	500/547/25,MW18/248-slotted cast-iron	DN500	500	547	25	35.2
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Fastener for cast-iron grates

22284

for BGZ-S

DN500 p. 110



p.
110

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

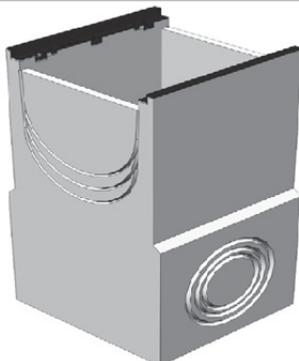
Point drainage

Soil conservation and stabilization system

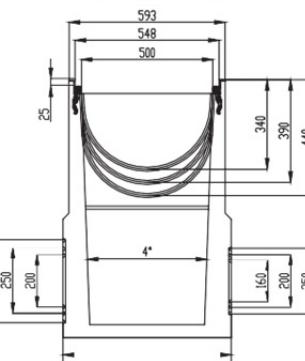
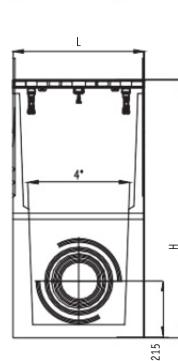
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
	Drainage systems class of loading A15-C250						

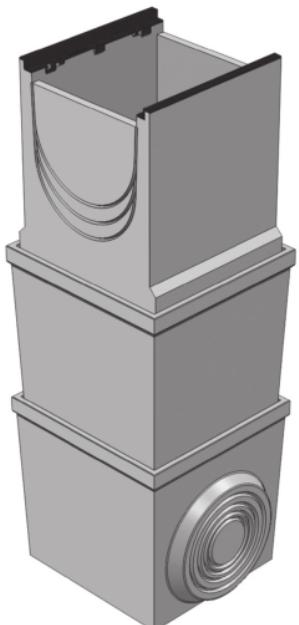


item 49050100



Sand traps BGZ-S DN500, class E600/F900, with cast-iron nozzle

NEW 49050100 F900	500/640/980, single-section	DN500	500	640	980	277
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item 49050110

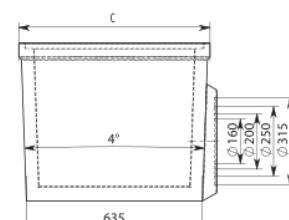
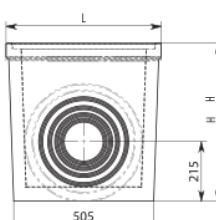
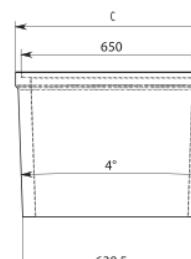
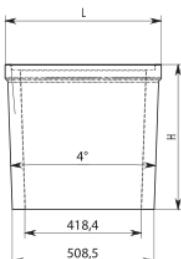
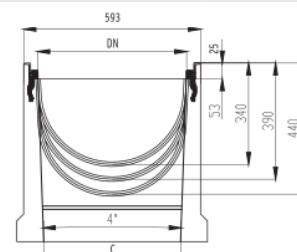
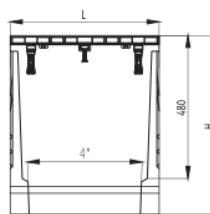
apr. 49050110

item 49001015

apr. 49001015

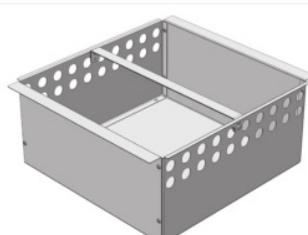
item 49001016

apr. 49001016



Accessories for sand traps BGZ-S DN500

49050110 F900	500/640/600,upper part	DN500	500	640	600	133
49001015	560/690/520,multi-purpose intermediate part	DN500	560	690	520	115



item 49050900

Multi-purpose basket for sand trap BGZ-S DN500

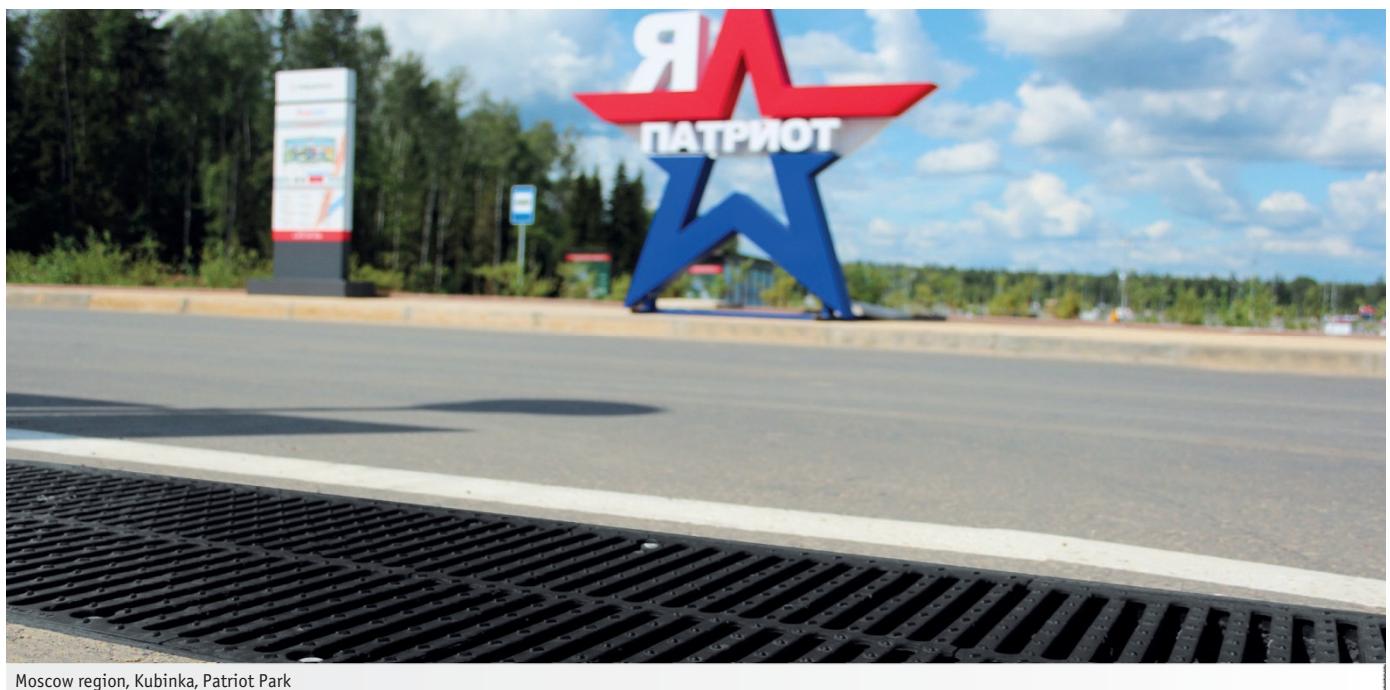
NEW 49050900	galvanized steel	DN500	400	465	163.5	3.7
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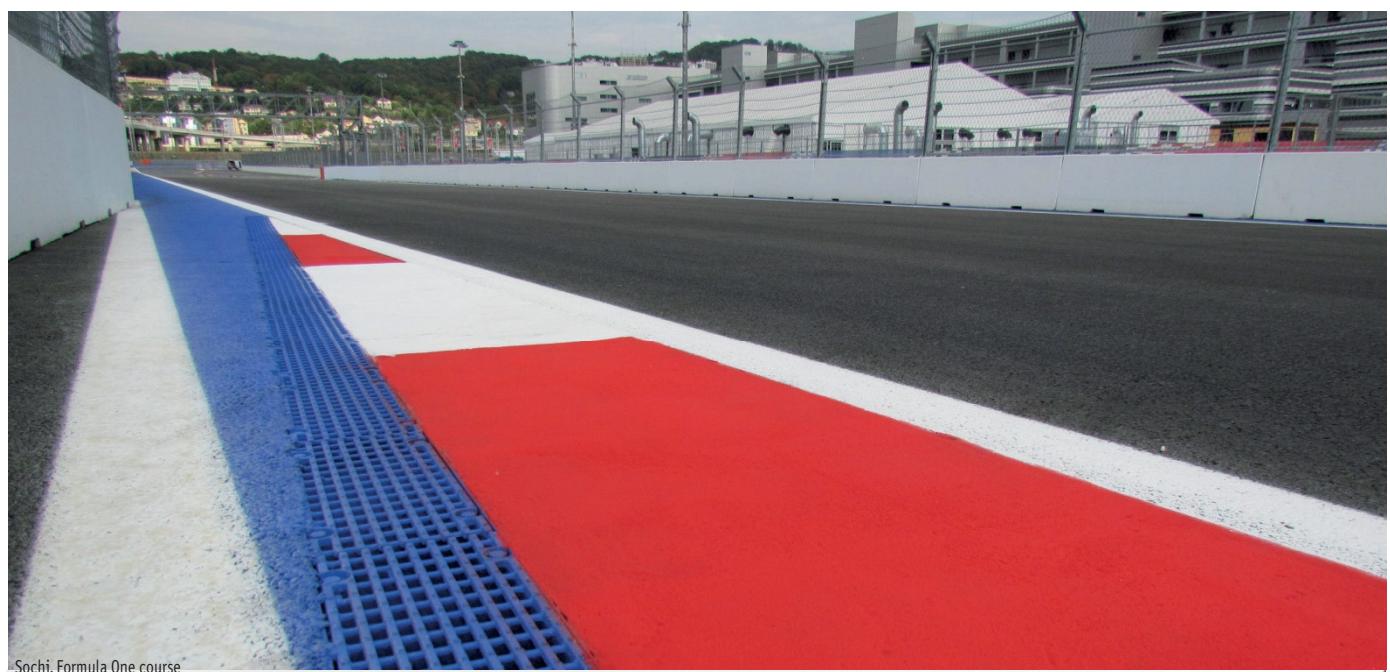
Voronezh, Central Park of Culture and Leisure "Dinamo"



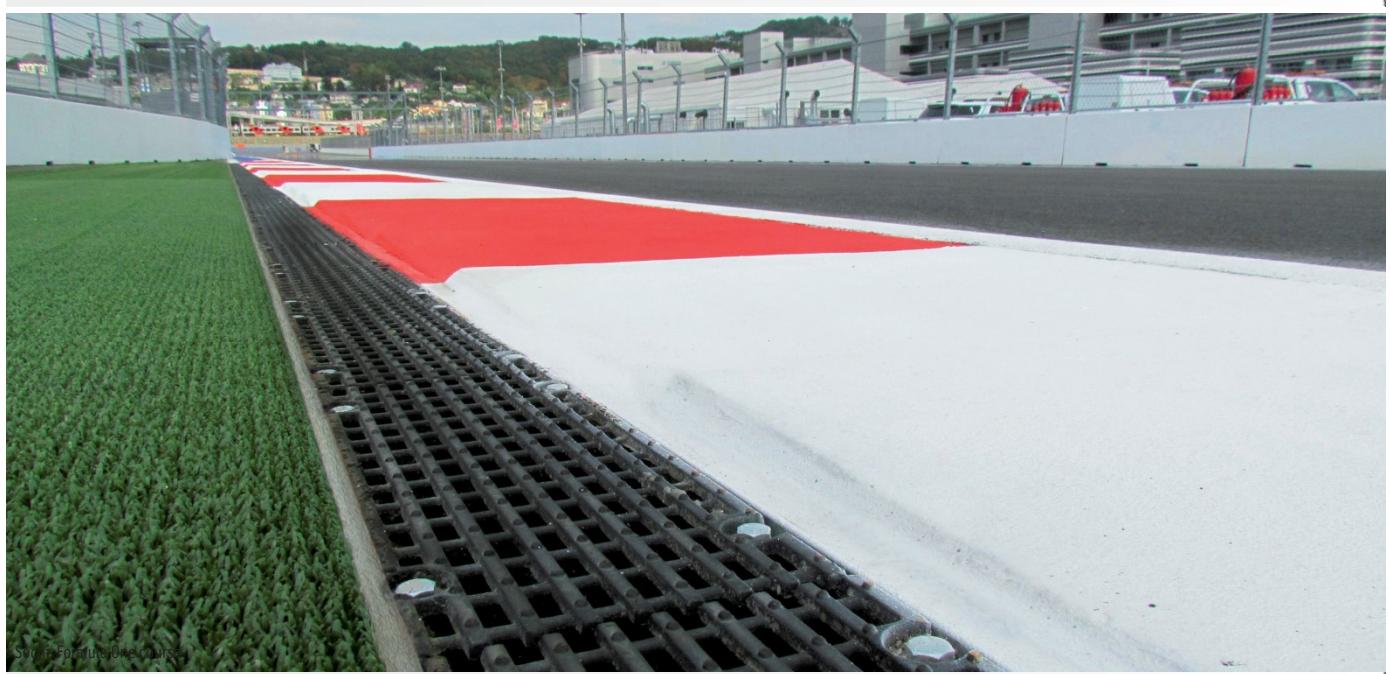
Krasnodarsky Krai, Derways plant, drainage gutters BGZ-S with cast-iron grates



Moscow region, Kubinka, Patriot Park

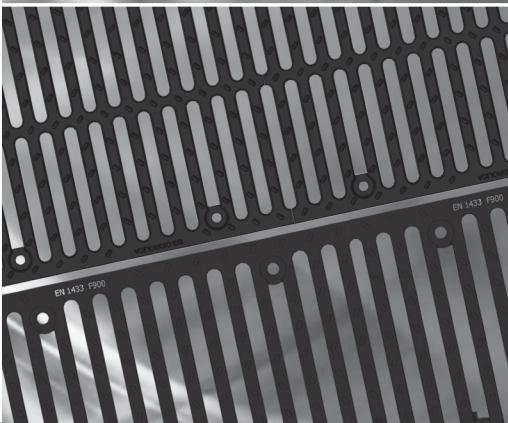
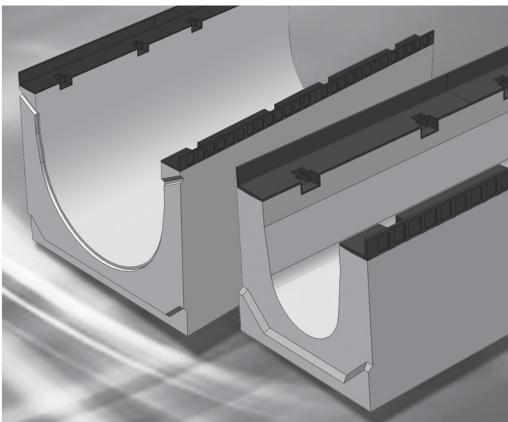


Sochi, Formula One course



Sochi, Formula One course

– CONCRETE DRAINAGE SYSTEMS
BGM



SURFACE DRAINAGE SYSTEMS FOR AREAS OF ULTRAHIGH LOADS CLASS F900

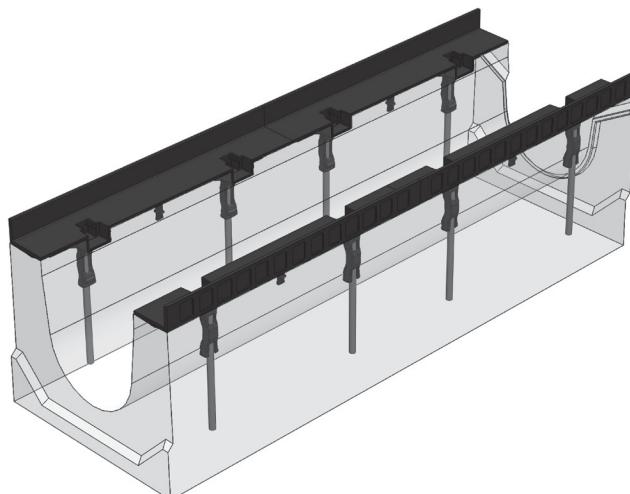
BGM are concrete drainage gutters designed specifically for use in areas with high and ultrahigh load levels. Drainage gutters BGM are suitable for runways and taxiways of airports, transport terminals and highways with heavy traffic.

Application field:

- airports
- ports
- roads
- industrial construction
- chemical industry and petroleum refinery
- transport terminals

Quality:

- high-quality concrete with class B60
- moisture absorption ratio is 2,2%
- concrete grade according to frost resistance is F2300
- concrete grade according to water resistance is W10
- gutter wall thickness is 70mm
- additional reinforcement of the gutter walls with reinforcing rail shoulders to prevent its destruction
- supporting structure is made of high-strength cast iron Vch40
- monolithic structure of the supporting structure and rail shoulder to enhance connection with the gutter body and prevent its destruction
- resistance to ultrahigh loads of class F900



The installation of drainage gutters BGM is recommended in areas of ultrahigh loads. As an additional reinforcement of the structure, wall reinforcement with galvanized steel rods is used.

Pins for reinforcement are installed in a monolithic structure of the nozzle with the rail shoulder. They are securely hidden in concrete and protected from moisture and air, thus, not subject to corrosion.

Reinforcement of the gutter walls with steel pins strengthens them additionally and prevents destruction of the entire system.

DN 200



DN 300



DN 400

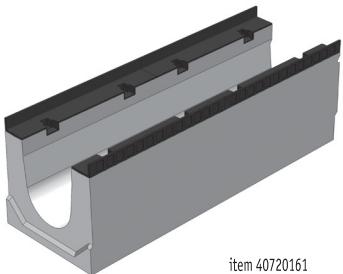


DN 500

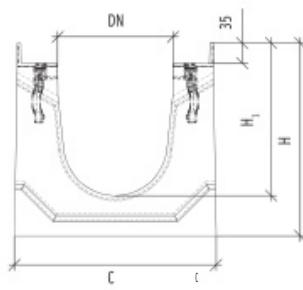




Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

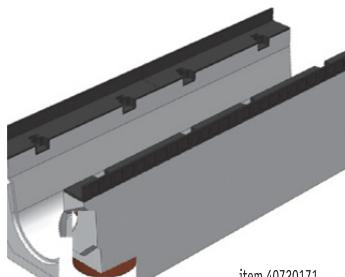


item 40720161

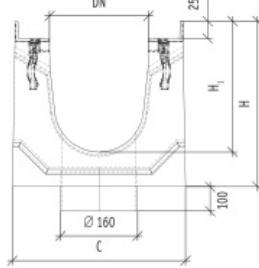


Concrete gutters BGM DN200, class F900, without slope

40720100 F900	№ 0	DN200	1000	350	310/240	147
40720161 F900	№ 5-0	DN200	1000	350	335/265	156.75
40720162 F900	№ 10-0	DN200	1000	350	360/290	166.5
40720163 F900	№ 15-0	DN200	1000	350	385/315	176.25
40720164 F900	№ 20-0	DN200	1000	350	410/340	186



item 40720171



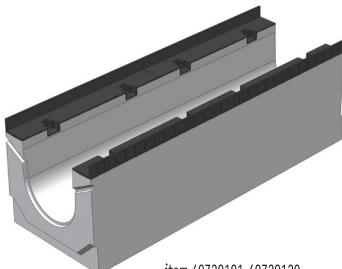
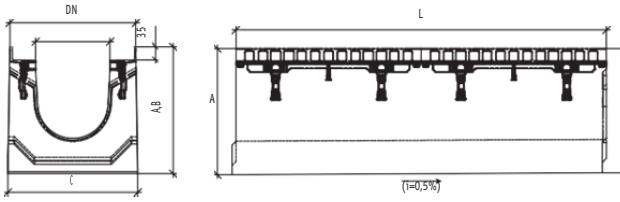
Concrete gutters BGM DN200, class F900, with vertical spillway, without slope

40720170 F900	№ 0	DN200	1000	350	310/340	146
40720171 F900	№ 5-0	DN200	1000	350	335/265	155.75
40720172 F900	№ 10-0	DN200	1000	350	360/290	165.5
40720173 F900	№ 15-0	DN200	1000	350	385/315	175.25
40720174 F900	№ 20-0	DN200	1000	350	385/315	185

* Diameter for pipes to the gutter with vertical spillway Ø160/200 mm

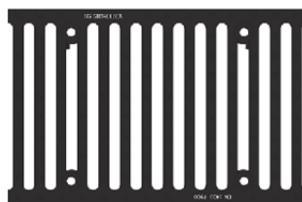
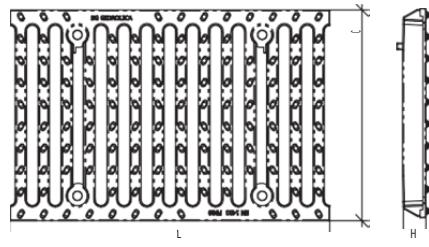
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
Drainage systems class of loading A15-C250							
Drainage systems class of loading D400-F900							
Point drainage	Concrete gutters BGM DN200, class F900, with slope 0,5%						
Soil conservation and stabilization system							
Entrance dirt-guard systems							
Multi-purpose grid flooring							

item 40720101-40720120

Concrete gutters BGM DN200, class F900, with slope 0,5%

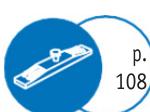
40720101	F900	1	DN200	1000	350	310/315	147
40720102	F900	2	DN200	1000	350	315/320	149.05
40720103	F900	3	DN200	1000	350	320/325	151.1
40720104	F900	4	DN200	1000	350	325/330	153.15
40720105	F900	5	DN200	1000	350	330/335	155.2
40720106	F900	6	DN200	1000	350	335/340	157.25
40720107	F900	7	DN200	1000	350	340/345	159.3
40720108	F900	8	DN200	1000	350	345/350	161.35
40720109	F900	9	DN200	1000	350	350/355	163.4
40720110	F900	10	DN200	1000	350	355/360	165.45
40720111	F900	11	DN200	1000	350	360/365	167.5
40720112	F900	12	DN200	1000	350	365/370	169.55
40720113	F900	13	DN200	1000	350	370/375	171.6
40720114	F900	14	DN200	1000	350	375/380	173.65
40720115	F900	15	DN200	1000	350	380/385	175.7
40720116	F900	16	DN200	1000	350	385/390	177.75
40720117	F900	17	DN200	1000	350	390/395	179.8
40720118	F900	18	DN200	1000	350	395/400	181.85
40720119	F900	19	DN200	1000	350	400/405	183.9
40720120	F900	20	DN200	1000	350	405/410	186

item 47020100

Sewer grates for gutters BGM DN200, class F900

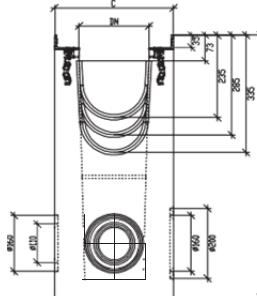
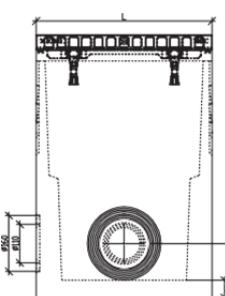
47020100	F900	500/375/35,SW18-280-slotted cast-iron	DN200	500	327	35	13.82
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Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

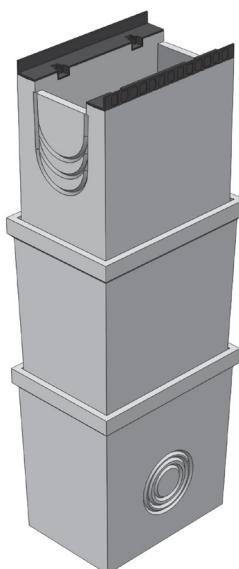


item 49020150

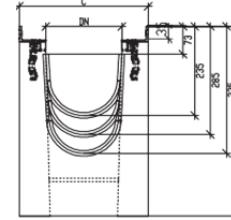
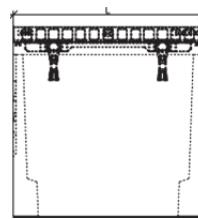


Sand traps BGM DN200, class F900

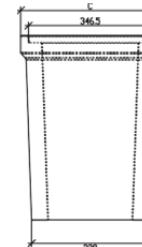
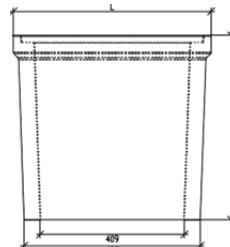
49020150	F900	500/340/750, single-section	DN200	500	340	750	160
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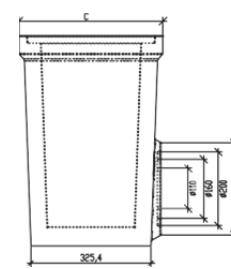
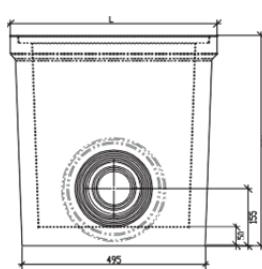
item 49020160



item 49001000

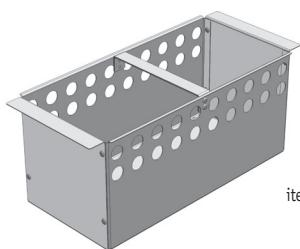


item 49001001



Accessories for sand traps BGM DN200

49020160	F900	500/340/500, upper part	DN200	500	340	500	93
49001000		560/390/520, multi-purpose intermediate part	DN200	560	390	520	82
49001001		560/390/570, multi-purpose lower part	DN200	560	390	570	103



item 49020900

Multi-purpose basket for sand trap BGM DN200

49020900	Galvanized steel	DN200	400	175	163.5	2.1
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Drainage systems class of loading A15-C250

Drainage systems class of loading D40-F900

Drainage systems class of loading F900

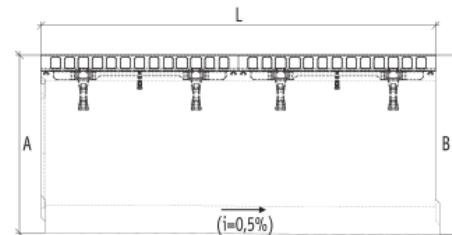
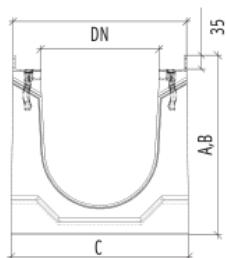
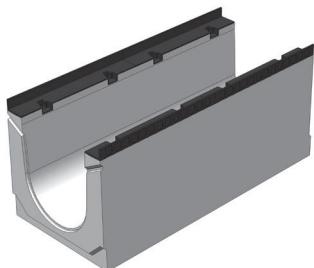
Point drainage

Soil conservation and stabilization system

Entrance drift-guard systems

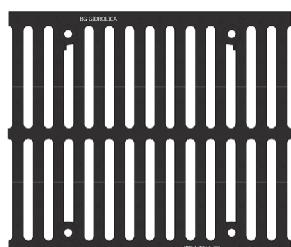
Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight

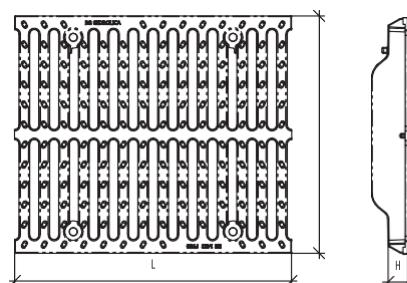


Concrete gutters BGM DN300, class F900, with slope 0,5%

40730101	F900	1	DN300	1000	450	450/455	227.16
40730102	F900	2	DN300	1000	450	455/460	229.15
40730103	F900	3	DN300	1000	450	460/465	231.14
40730104	F900	4	DN300	1000	450	465/470	233.13
40730105	F900	5	DN300	1000	450	470/475	235.12
40730106	F900	6	DN300	1000	450	475/480	237.11
40730107	F900	7	DN300	1000	450	480/485	239.1
40730108	F900	8	DN300	1000	450	485/490	241.09
40730109	F900	9	DN300	1000	450	490/495	243.08
40730110	F900	10	DN300	1000	450	495/500	245.07
40730111	F900	11	DN300	1000	450	500/505	247.06
40730112	F900	12	DN300	1000	450	505/510	249.05
40730113	F900	13	DN300	1000	450	510/515	251.04
40730114	F900	14	DN300	1000	450	515/520	253.03
40730115	F900	15	DN300	1000	450	520/525	255.02
40730116	F900	16	DN300	1000	450	525/530	257.01
40730117	F900	17	DN300	1000	450	530/535	259
40730118	F900	18	DN300	1000	450	535/540	260.99
40730119	F900	19	DN300	1000	450	540/545	262.98
40730120	F900	20	DN300	1000	450	545/550	265



item 47030100



Sewer grates for gutters BGM DN300, class F900

47030100	F900	500/427/35, SW2x18/230 Slotted cast-iron	DN300	500	427	-	35	28.68
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Drainage systems class of loading A15-C250	
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Drainage systems class of loading F900	
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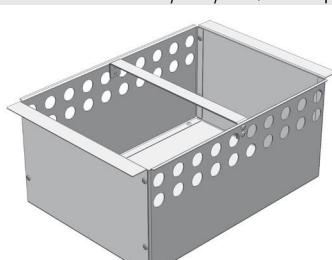
Point drainage	
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Soil conservation and stabilization system	
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Entrance dirt-guard systems	
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Multi-purpose grid flooring	
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Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
Drainage systems class of loading D400-F900							
item 49030150							
Sand traps BGM DN300, class F900							
49030150	F900	500/440/900, single-section	DN300	500	440	900	222
Drainage systems class of loading F900							
item 49030160							
item 49001005							
item 49001006							
Accessories for sand traps BGM DN300							
49030160	F900	500/440/600, upper part	DN300	500	440	600	126
49001005		560/490/520, multi-purpose intermediate part	DN300	560	490	520	93
49001006		560/490/570, multi-purpose lower part	DN300	560	490	570	130

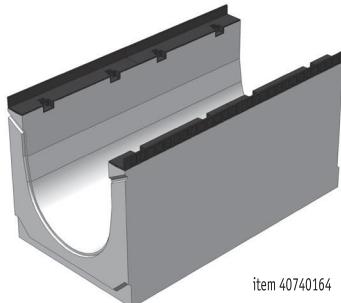


item 49030900

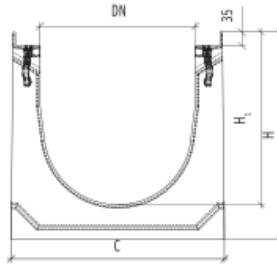
Multi-purpose basket for sand trap BGM DN300	
49030900	Galvanized steel

DN300 400 265 163.5 2.1

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

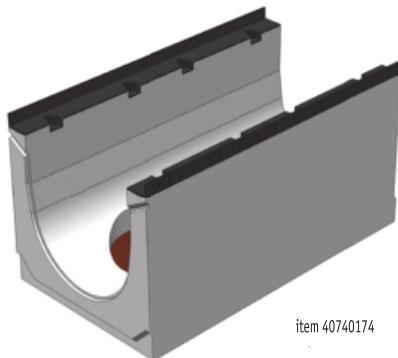


item 40740164

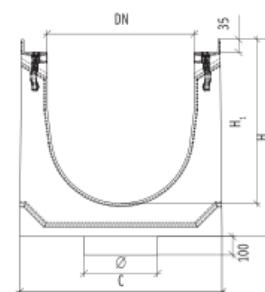


Concrete gutters BGM DN400, class F900, without slope

40740100 F900	Nº	DN400	1000	550	450/335	252
40740161 F900	Nº0	DN400	1000	550	475/360	270
40740162 F900	Nº-0	DN400	1000	550	500/385	288
40740163 F900	Nº-0	DN400	1000	550	525/410	306
40740164 F900	Nº-0	DN400	1000	550	550/435	322



item 40740174

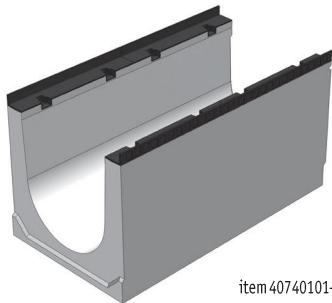
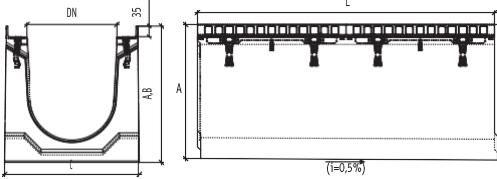


Concrete gutters BGM DN400, class F900, with vertical spillway, without slope

40740170 F900	NºNº	DN400	1000	550	450/335	252
40740171 F900	NºNº0	DN400	1000	550	475/360	270
40740172 F900	Nº 10-0	DN400	1000	550	475/360	270
40740173 F900	NºNº-0	DN400	1000	550	525/410	306
40740174 F900	Nº 20-0	DN400	1000	550	550/435	322

* Diameter for pipes to the gutter with vertical spillway Ø315/40

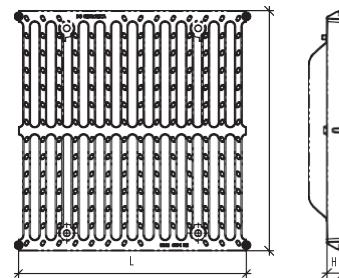
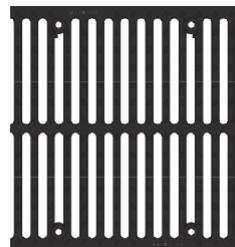
Multi-purpose grid flooring	Entrance dirt-guard systems	Soil conservation and stabilization system	Drainage systems class of loading F900	Drainage systems class of loading D400-F900	Drainage systems class of loading A15-C250
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Item	Class of loading	Type	DN	Length	Width	Height	Weight
							

item 40740101-40740120

Concrete gutters BGM DN400, class F900, with slope 0,5%

40740101	F900	1	DN400	1000	550	450/455	253.8
40740102	F900	2	DN400	1000	550	455/460	257.4
40740103	F900	3	DN400	1000	550	460/465	261
40740104	F900	4	DN400	1000	550	465/470	264.6
40740105	F900	5	DN400	1000	550	470/475	268.2
40740106	F900	6	DN400	1000	550	475/480	271.8
40740107	F900	7	DN400	1000	550	480/485	275.4
40740108	F900	8	DN400	1000	550	485/490	279
40740109	F900	9	DN400	1000	550	490/495	282.6
40740110	F900	10	DN400	1000	550	495/500	286.2
40740111	F900	11	DN400	1000	550	500/505	289.8
40740112	F900	12	DN400	1000	550	505/510	293.4
40740113	F900	13	DN400	1000	550	510/515	297
40740114	F900	14	DN400	1000	550	515/520	300.6
40740115	F900	15	DN400	1000	550	520/525	304.2
40740116	F900	16	DN400	1000	550	525/530	307.6
40740117	F900	17	DN400	1000	550	530/535	310.8
40740118	F900	18	DN400	1000	550	535/540	314
40740119	F900	19	DN400	1000	550	540/545	317.2
40740120	F900	20	DN400	1000	550	545/550	320.4

**Sewer grates for gutters BGM DN400, class F900**

47040100	F900	500/527/35, SW2x18/230 Slotted cast-iron	DN400	500	527	35	33.2
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apri. 47040100



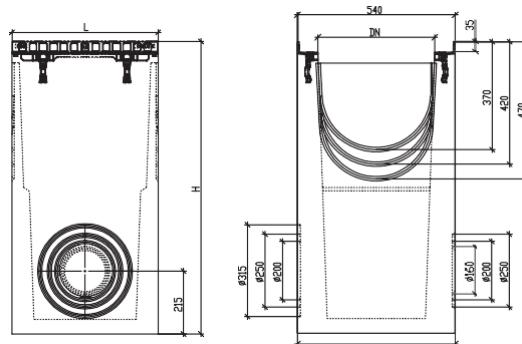
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Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

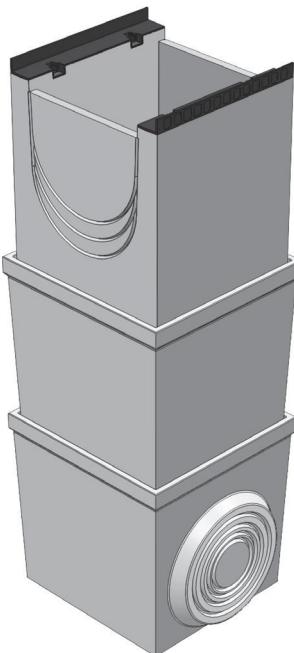


item 49040150

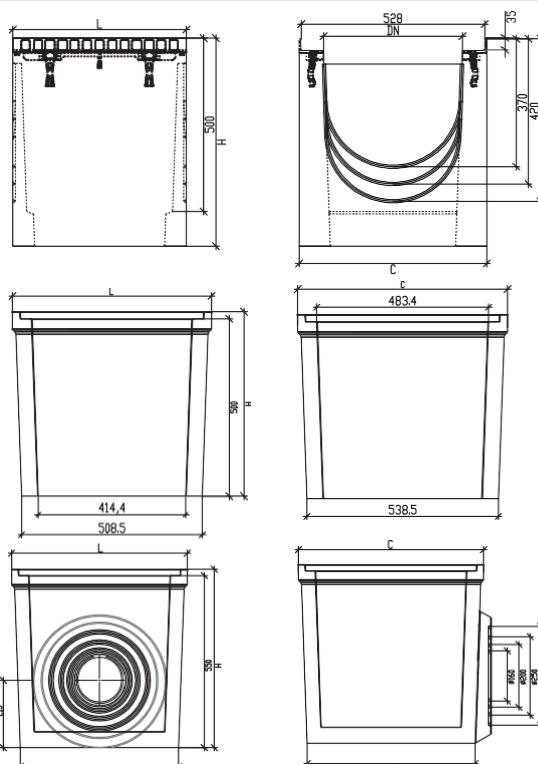


Sand traps BGM DN400, class F900

49040150	F900	500/540/1000, single-section	DN400	500	540	1000	277
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item 49040160

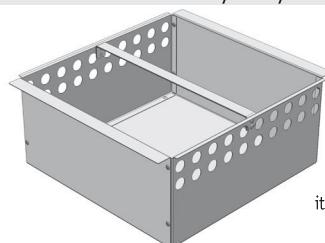


item 49001010

item 49001011

Accessories for sand traps BGM DN400

49040160	F900	500/540/600, upper part	DN400	500	540	600	134
49001010		560/590/520 – multi-purpose intermediate part	DN400	560	590	520	104
49001011		560/590/570 – multi-purpose lower part	DN400	560	590	570	147



item 49040900

Multi-purpose basket for sand trap BGM DN400

49040900	Galvanized steel	DN400	400	365	163,5	3,24
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Drainage systems class of loading A15-C250

Drainage systems class of loading F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

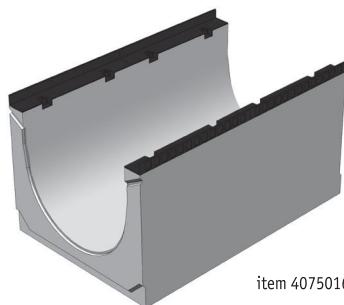
Point drainage

Soil conservation and stabilization system

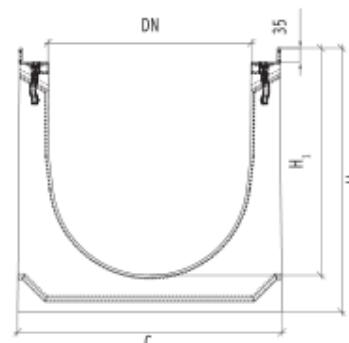
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg

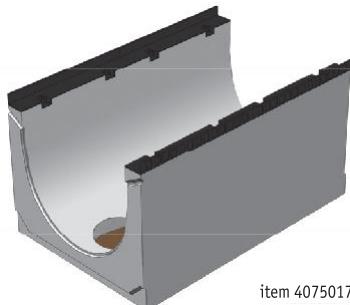


item 40750168

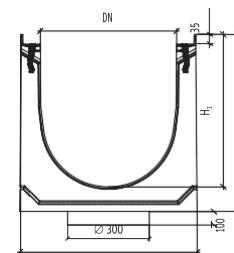


Concrete gutters BGM DN500, class E600/F900, without slope

40750100	F900	No	DN500	1000	650	450/360	326
40750161	F900	No	DN500	1000	650	475/385	334.66
40750162	F900	N10-0	DN500	1000	650	500/410	343.32
40750163	F900	N15-0	DN500	1000	650	525/435	351.98
40750164	F900	N20-0	DN500	1000	650	550/460	360.64
40750165	F900	N25-0	DN500	1000	650	575/485	369.3
40750166	F900	N30-0	DN500	1000	650	600/510	377.96
40750167	F900	N35-0	DN500	1000	650	625/535	386.62
40750168	F900	N40-0	DN500	1000	650	650/560	395.28



item 40750178



Concrete gutters BGM DN500, class E600/F900, with vertical spillway, without slope

40750170	F900	0	DN500	1000	650	450/360	312
40750171	F900	5-0	DN500	1000	650	475/385	320
40750172	F900	10-0	DN500	1000	650	500/410	328
40750173	F900	15-0	DN500	1000	650	525/435	336
40750174	F900	20-0	DN500	1000	650	550/460	344
40750175	F900	25-0	DN500	1000	650	575/485	352
40750176	F900	30-0	DN500	1000	650	600/510	360
40750177	F900	35-0	DN500	1000	650	625/535	368
40750178	F900	40-0	DN500	1000	650	650/560	376

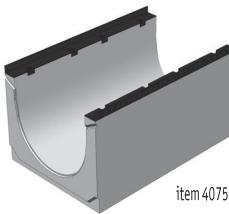


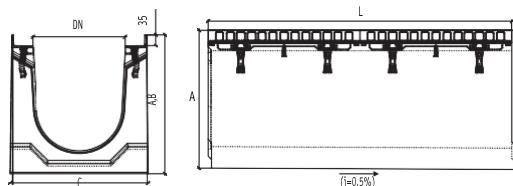
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* Diameter for pipes to the gutter with vertical spillway Ø315/400 mm

Item	Class of loading	Type	DN	Length	Width	Height	Weight		
								L mm	C mm
									H/H ₁ mm
									kg
	item 40750101-40750140								
Concrete gutters BGM DN500, class E600/F900, with slope 0,5%									
40750101	F900	1	DN500	1000	650	450/455	326.9		
40750102	F900	2	DN500	1000	650	455/460	328.63		
40750103	F900	3	DN500	1000	650	460/465	330.36		
40750104	F900	4	DN500	1000	650	465/470	332.09		
40750105	F900	5	DN500	1000	650	470/475	333.82		
40750106	F900	6	DN500	1000	650	475/480	335.55		
40750107	F900	7	DN500	1000	650	480/485	337.28		
40750108	F900	8	DN500	1000	650	485/490	339.01		
40750109	F900	9	DN500	1000	650	490/495	340.74		
40750110	F900	10	DN500	1000	650	495/500	342.47		
40750111	F900	11	DN500	1000	650	500/505	344.2		
40750112	F900	12	DN500	1000	650	505/510	345.93		
40750113	F900	13	DN500	1000	650	510/515	347.66		
40750114	F900	14	DN500	1000	650	515/520	349.39		
40750115	F900	15	DN500	1000	650	520/525	351.12		
40750116	F900	16	DN500	1000	650	525/530	352.85		
40750117	F900	17	DN500	1000	650	530/535	354.58		
40750118	F900	18	DN500	1000	650	535/540	356.31		
40750119	F900	19	DN500	1000	650	540/545	358.04		
40750120	F900	20	DN500	1000	650	545/550	359.77		
40750121	F900	21	DN500	1000	650	550/555	361.5		
40750122	F900	22	DN500	1000	650	555/560	363.23		
40750123	F900	23	DN500	1000	650	560/565	364.96		
40750124	F900	24	DN500	1000	650	565/570	366.69		
40750125	F900	25	DN500	1000	650	570/575	368.42		
40750126	F900	26	DN500	1000	650	575/580	370.15		
40750127	F900	27	DN500	1000	650	580/585	371.88		
40750128	F900	28	DN500	1000	650	585/590	373.61		
40750129	F900	29	DN500	1000	650	590/595	375.34		
40750130	F900	30	DN500	1000	650	595/600	377.07		
40750131	F900	31	DN500	1000	650	600/605	378.8		
40750132	F900	32	DN500	1000	650	605/610	380.53		
40750133	F900	33	DN500	1000	650	610/615	382.26		
40750134	F900	34	DN500	1000	650	615/620	383.99		
40750135	F900	35	DN500	1000	650	620/625	385.72		
40750136	F900	36	DN500	1000	650	625/630	387.45		
40750137	F900	37	DN500	1000	650	630/635	389.18		
40750138	F900	38	DN500	1000	650	635/640	390.91		
40750139	F900	39	DN500	1000	650	640/645	392.64		
40750140	F900	40	DN500	1000	650	645/650	394.37		



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Soil conservation and stabilization system

Entrance dirt-guard systems

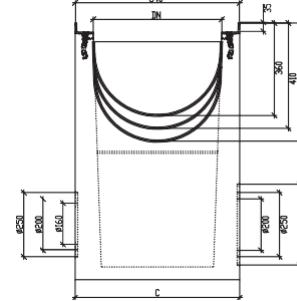
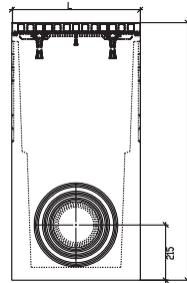
Multi-purpose grid flooring

	Item	Class of loading	Type	DN	Length L mm	Width C mm	Height H/H ₁ mm	Weight kg
Drainage systems class of loading A15-C250								
Drainage systems class of loading D400-F900								
Drainage systems class of loading D400-F900								
Drainage systems class of loading F900								
Sewer grates for gutters BGM DN500, class E600/F900								
Point drainage	22047	E600	500/623/35, MW 28/15 – slotted cast-iron	DN500	500	623	35	38.6
	22048	F900	500/623/35, 18/180 – slotted cast-iron	DN500	500	613	35	56
	 22049	E600	DN500, 500/623/35 – cast-iron blank cover	DN500	500	623	35	43.5
Fastener for cast-iron grates								
	22284		for BGM					
Soil conservation and stabilization system								
Entrance dirt-guard systems								
Multi-purpose grid flooring								

Item	Class of loading	Type	DN	Length		Width C mm	Height H/H ₁ mm	Weight kg
				L mm	C mm			



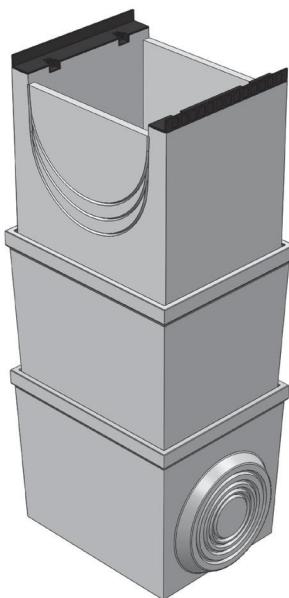
item 49050150



Sand traps BGM DN500, class F900

49050150 F900 500/640/1000, single-section, with cast-iron nozzle

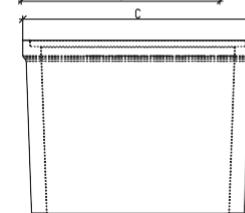
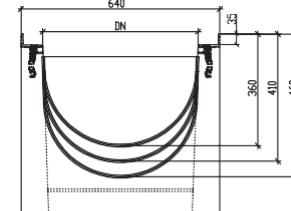
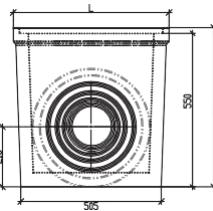
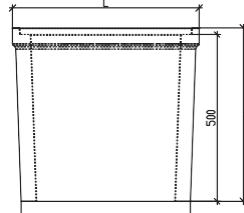
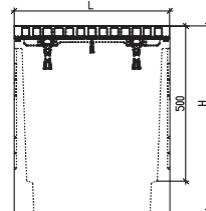
DN500 500 640 1000 302



item 49050160

item 49001015

item 49001016



Accessories for sand traps BGM DN500

49050160 F900 500/640/600, upper part, with cast-iron nozzle

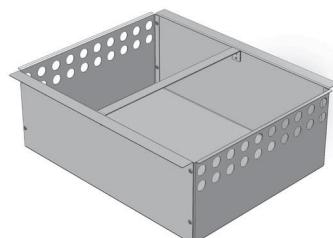
DN500 500 640 600 143

49001015 560/690/520 multi-purpose intermediate part

DN500 560 690 520 115

49001016 560/690/570 multi-purpose lower part

DN500 560 690 570 163



item 49050900

Multi-purpose basket for sand trap BGM DN500

49050900 Galvanized steel

DN500 400 447 163.5 3.76

Drainage systems class of loading A15-C250

Drainage systems class of loading F900

Drainage systems class of loading F900

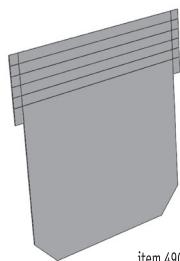
Point drainage

Soil conservation and stabilization system

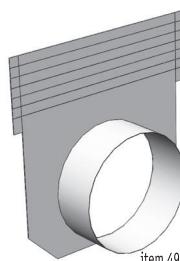
Entrance dirt-guard systems

Multi-purpose grid flooring

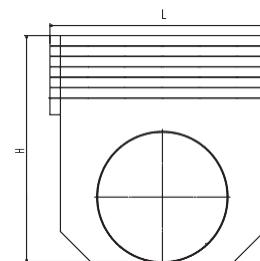
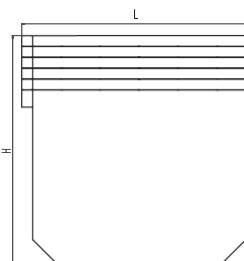
Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item 49040200



item 49040201


Multi-purpose end plugs for drainage gutters

22220	стальная оцинкованная (BGU, BGU-Z, BGZ-S)	DN100	156	1.3	243	0.4	
22221	с водосливом, стальная оцинкованная (BGU, BGU-Z, BGZ-S)	DN100	156	45.3	250	0.5	DN110
22222	стальная оцинкованная (BGF, BGF-Z)	DN100	156	1.3	80	0.2	
22230	стальная оцинкованная(BGU-Z , BGZ-S)	DN150	206	1.3	293	0.6	
22231	с водосливом, оцинкованная (BGU, BGU-Z, BGZ-S)	DN150	206	46.3	300	0.7	DN160
22232	стальная оцинкованная (BGF, BGF-Z)	DN150	206	1.3	80	0.24	
22240	стальная оцинкованная (BGU, BGU-Z, BGZ-S)	DN200	255	1.3	350	0.7	
22241	с водосливом, оцинкованная (BGU, BGU-Z, BGZ-S)	DN200	255	47.3	360	0.9	DN200
22242	стальная оцинкованная (BGF, BGF-Z)	DN200	256	1.3	80	0.3	
49020200	стальная оцинкованная (200: BGM, BGU-XL, 300: BGU, BGZ-S)	DN300	390	2.0	445	2.39	
49020201	стальная оцинкованная, с водосливом (200: BGM, BGU-XL, 300: BGU, BGZ-S)	DN300	440	82	370	2.42	DN315
49030200	стальная оцинкованная (BGU-XL, BGF-XL, BGM, BGM-F)	DN300	440	2	510	3.44	
49030201	с водосливом, оцинкованная	DN300	440	122.0	495	3.86	
49040200	стальная оцинкованная	DN400	540	2.0	535	4.17	
49040201	с водосливом, оцинкованная	DN400	540	122.0	555	4.95	DN315
49050200	стальная оцинкованная	DN500	640	2.0	610	6.03	
49050201	с водосливом, оцинкованная	DN500	640	122.0	610	6.81	DN315


Sealing system

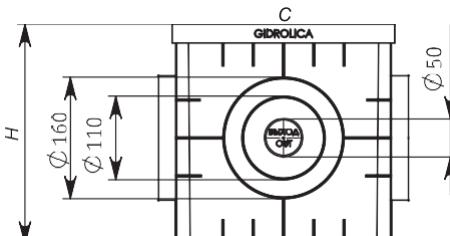
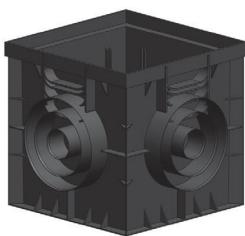
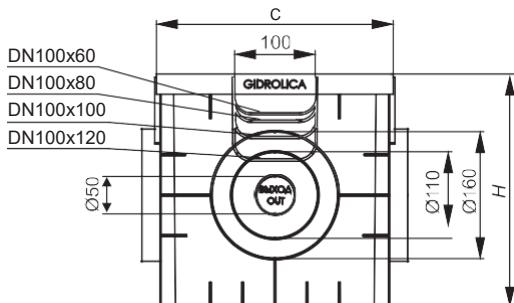
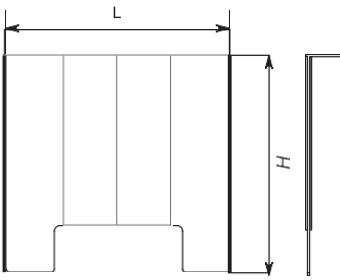
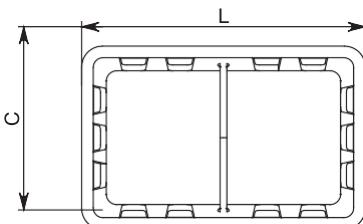
sealant, 600 мл

Road polymer asphaltic coating, 50x5 cm

- PLASTIC STORM
WATER INLET
Gidrolica® Point
- OUTDOOR FLOOR GULLY
Gidrolica® Rain
- MANHOLES
Gidrolica® Street
Gidrolica® Garden



POINT DRAINAGE SYSTEM GIDROLICA®

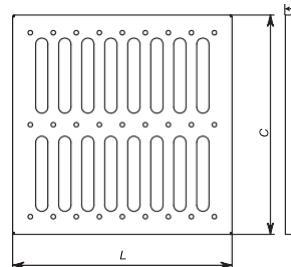
Item	Class of loading	Type	DN	Length	Width	Height	Weight	
								L mm
								C mm
								H/H ₁ mm
								kg
Drainage systems class of loading A15-C250								
Drainage systems class of loading D400-F900								
Point drainage								
Multi-purpose grid flooring								
								
item 229								
								
Storm water inlet Gidrolica® Point plastic 300x300								
229	B125	ДП 30.30	300	300	300	1,5		
Drainage systems class of loading F900								
								
item229u								
								
Storm water inlet Gidrolica® Point multi-purpose plastic 300x300								
229u	B125	ДП 30.30	300	300	300	1,5		
Soil conservation and stabilization system								
								
item210								
								
Entrance dirt-guard systems								
								
item215								
								
Accessories for storm water inlet Gidrolica® Point plastic 300x300 Intercepting trap for storm water inlet Gidrolica® Point plastic								
210		ДП 30.30	250		242		0,16	
Basket for storm water inlet Gidrolica® Point plastic 300x300								
215		ДП 30.30	245	155	155		0,26	



Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item 200

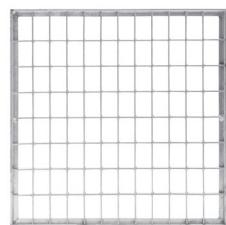
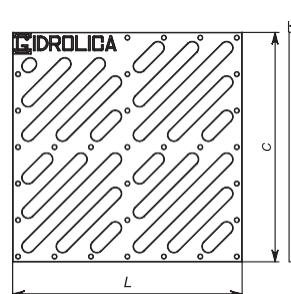


Sewer grate for storm water inlet Gidrolica® Point plastic 300x300

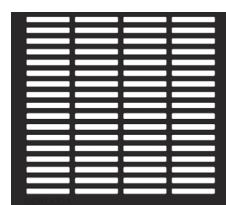
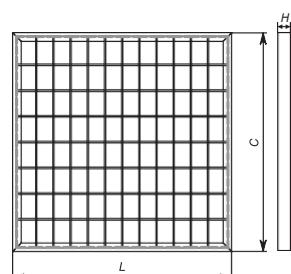
200	A15	PB-28.5.28.5	285	285	22	0,75	Drop-forged galvanized steel
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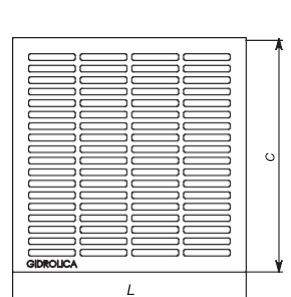
item 205



item 206



item 208



Sewer grate for storm water inlet Gidrolica® Point plastic 300x300

208	A15	PB-28.5.28.5	285	285	22	0,5	plastic
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Multi-purpose grid flooring

Drainage systems class of
loading A15-C250Drainage systems class of
loading F900

Point drainage

Soil conservation and
stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
Drainage systems class of loading A15-C250							
Storm water inlet Gidrolica® Point plastic 400x400							
Drainage systems class of loading D400-F900	NEW 239	C250	ДП-40.40	400	400	400	4,21
Drainage systems class of loading F900	NEW 211						
Accessories for storm water inlet Gidrolica® Point plastic 400x400 Intercepting trap for storm water inlet Gidrolica® Point plastic							
Point drainage	NEW 211		ДП 40.40	353,5	2,5	289,5	0,29
Basket for storm water inlet Gidrolica® Point plastic 400x400							
Soil conservation and stabilization system	214		ДП 40.40	350	262	150	0,48
Sewer grate for storm water inlet Gidrolica® Point plastic 400x400							
Entrance dirt-guard systems	NEW 207	A15	PB-40.40	390	390	35	1,41
Multi-purpose grid flooring	NEW 209						
Cover for storm water inlet Gidrolica® Pointplastic400x400							

Outdoor floor gully Gidrolica® Rain is designed to drain storm water into the sewer system. Roof gullies are attached vertically to the floor gully, which protects the building pedestal from storm water splashes and the foundation from subsidence.

ADVANTAGES OF OUTDOOR FLOOR GULLY GIDROLICA® RAIN

- It is made of high-quality raw materials
- High frost resistance,
- Resistance to ultraviolet radiation and various chemical corrosive substances.

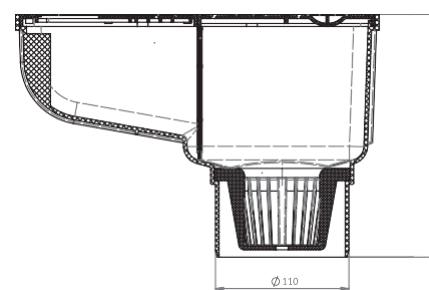
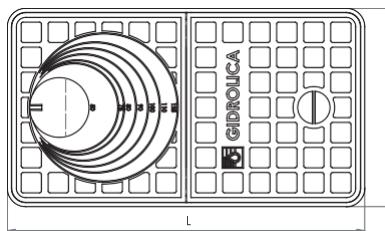
PACKAGE CONTENTS OF GIDROLICA® RAIN:

- Plastic housing, sloping surface of which prevents the water stagnation
- Smell-blocking plate
- Cover with holes to connect pipes with a diameter of 50 - 125 mm
- Leaf trap prevents various garbage from entering the drainage system
- Plastic blank handhole cap to clean the leaf trap

Item	Class of loading	Type	DN	Length		Width	Height	Weight
				L mm	C mm			



item 28135



Plastic outdoor floor gully Gidrolica® Rain with plastic blank cover

 28135

TY-30.16,6.20

300

166

200

0,9

Plastic with plastic blank cover

Multi-purpose grid flooring	Drainage systems class of loading F900	Drainage systems class of loading D400-F900	Drainage systems class of loading A15-C250
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Point drainage	Soil conservation and stabilization system	Drainage systems class of loading F900	Drainage systems class of loading D400-F900
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Point drainage

Soil conservation and stabilization system
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Multi-purpose grid flooring	Entrance dirt-guard systems
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Multi-purpose grid flooring

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

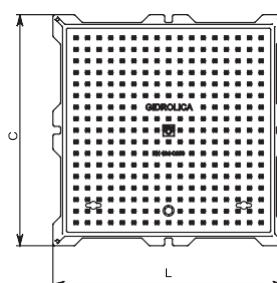
Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item201

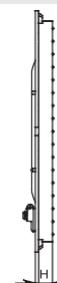
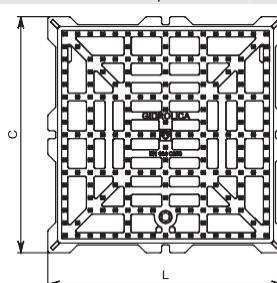


Blank access manhole Gidrolica® Street

201	A15	600	600	42	29,95	Cast-iron
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item202



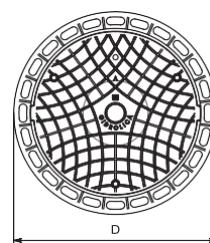
Storm access manhole Gidrolica® Street

202	A15	600	600	42	26,47	Cast-iron
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Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg



item 218/4

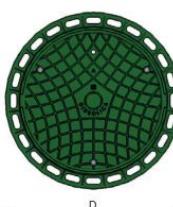


Manhole Gidrolica® Garden

218/4	A15	ТИП Л	745	80	9,2	Black plastic
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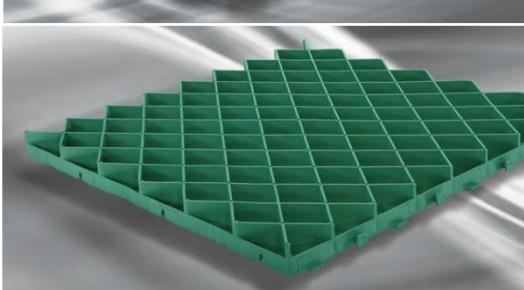
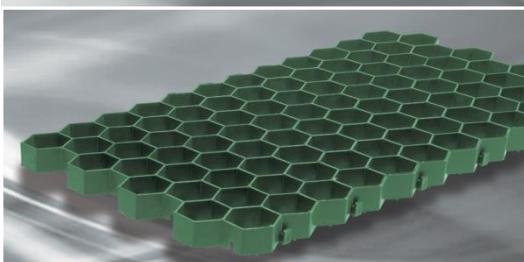
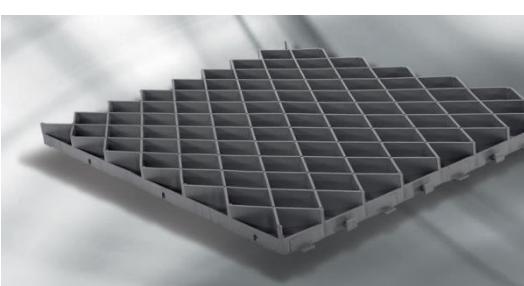
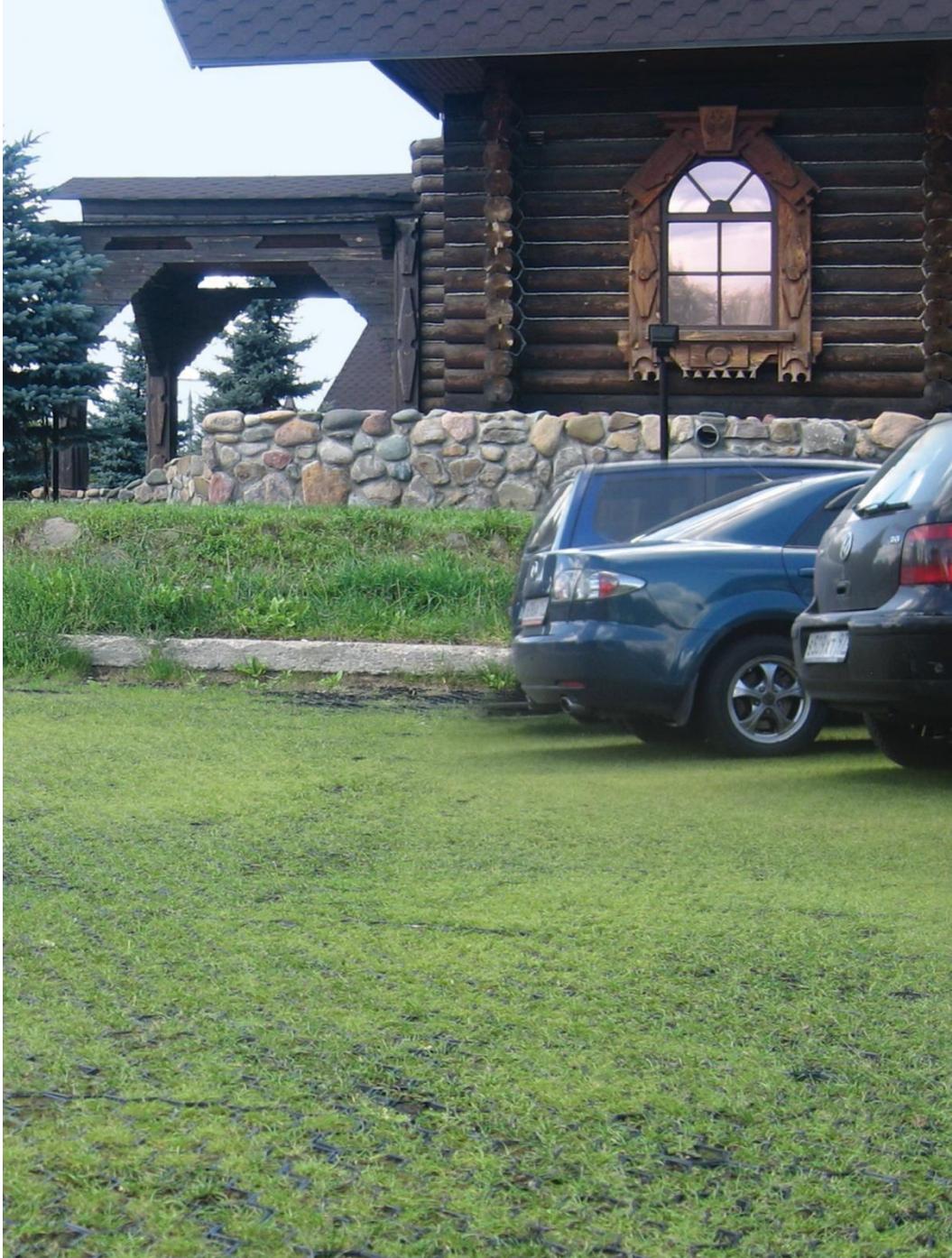
item 218/3



Manhole Gidrolica® Garden

218/3	A15	ТИПЛ	745	80	9,2	Green plastic
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- GRASS PAVERS
Gidrolica®Eco Standart
Gidrolica®Eco Pro Gidrolica®Eco
Super
- GARDEN CURB
Gidrolica® Line



SOIL CONSERVATION AND STABILIZATION SYSTEMS GIDROLICA®

SOIL CONSERVATION AND STABILIZATION SYSTEMS

Gidrolica company has been manufacturing and selling grass pavers on the territory of the Russian Federation for more than six years and has proven itself as a reliable supplier of high-quality grass pavers for green parking on a green lawn at reasonable price. Due to the use of the grass pavers Gidrolica® at public parking lots, private garden space of urban and suburban housing construction, the crucial task of increasing parking space in fast-developing megalopolises and suburban residential estates is solved while keeping green resources of cities.

Gidrolica company offers an ecological and practical solution for creating additional parking space at a low cost.

Grass paver Gidrolica® for green parking

Ecoparking is a special lawn for parking, environmentally-sealed by a grate. The grass paver Gidrolica® is suitable for construction of parking lots on a green lawn, as it has a specially developed mesh structure allowing to protect the root structure of the lawn from the loads imposed by moving or parked cars.

Operating principle of grass paver Gidrolica®

The operating principle the grass paver Gidrolica® is to reinforce the soil surface with grates that have a solid mesh structure, in which root system of the grass cover is protected from trampling and remains protected even with heavy traffic on the lawn. Grass paver modules redistribute the load over their entire area. Reinforcement of the soil, redistribution of the load and preservation of the grass cover root system avoid the possibility of tracing rut creation.

Grass paver protects the soil from erosion effectively and ensures a flat surface of the lawn. The lower part of the paver is made in the form of a mesh, which is then woven over by the plant roots and holds the paver additionally. Due to a specially developed fastening system, the paver is easy to assemble, is securely fixed to the surface and does not require special maintenance. Therefore, it is used not only to build an ecoparking, but also to reinforce slopes (no more than 5%) and pedestrian lawns.

Grass paver Gidrolica® is a robust solution for constructing parking spaces on the lawn

Grass paver Gidrolica® is made of frost-resistant plastic, resistant to load impact and temperature drops from minus 40° C to plus 70° C, which ensures structural integrity at a wide temperature range under the load up to class D400 (40 tons of distributed load). Therefore, it is successfully used to build ecoparking throughout Russia.

Grass paver Gidrolica® helps to save the environment

Grass paver is an environmentally friendly solution that ensures optimal circulation of moisture and the exchange of nutrient elements, it preserves the vital soil biosystems. The use of grass paver allows not to cover the soil with asphalt and concrete pavements. Preservation of green resources is vitally important for saving the ecology of cities and suburban housing facilities.



Advantages of grass paver Gidrolica®

- ◆ Parking space arrangement on the lawn.
- ◆ Stiffener plates of the grass paver provide better adherence with the car wheel protector not damaging the grass cover.
- ◆ Easy and quick to lay.
- ◆ Easy to carry, lightweight.
- ◆ The low cost of the grass paver and its installation.
- ◆ Soil protection against erosion.
- ◆ Weather resistance.
- ◆ Resistance to UV light.
- ◆ Water permeability, excellent drainage properties.
- ◆ Optimal conditions for the development of plants, grass coating by 90%.
- ◆ Absence of toxic impurities in the material from which the grass paver is made.

Objects with grass paver Gidrolica®

- ◆ Ecoparkings in Moscow, Mitino, Moscow – 9000 m²
- ◆ Ecoparkings in Tagansky district, Moscow – 15 000 m²
- ◆ Ecoparkings in front of the shopping center «Kapitoly» in Butovo, Moscow – 6000 m²
- ◆ Ecoparkings intercepting at the service drive of Altufyevskoe highway, Moscow – 2000 m²
- ◆ Ecoparkings in front of the shopping centers «Aura», Novosibirsk – 2000 m²
- ◆ Housing community «Goluboe», Zelenograd – 500 m²
- ◆ Housing community «Gorki 10» – 800 m²
- ◆ Housing community «Barvikha Hills» Housing community «Angelovo»
- ◆ City park, Krasnogorsk – 1200 m² Tsaritsynsky Park, Moscow Khovanskoe cemetery, Moscow – 1500 m²
- ◆ Auto service centers Rolf, Toyota Ecopark of the restaurant “Ermak” – 1000 m²
- ◆ Konakovskaya NPP – 1000 m²
- ◆ All-Russian Exhibition Center, Moscow, the territory of the monument “Rabochy I Kolkhoznitsa”



Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

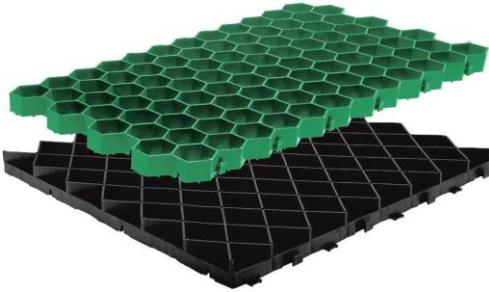
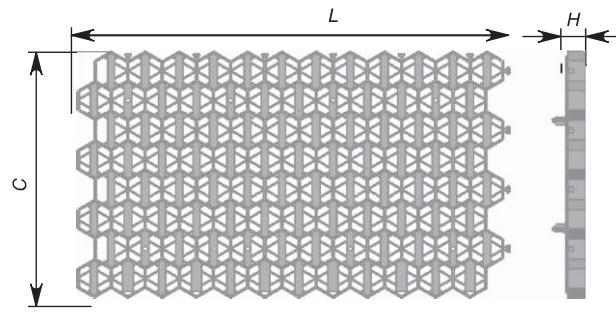
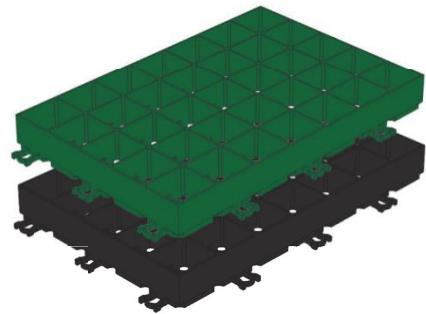
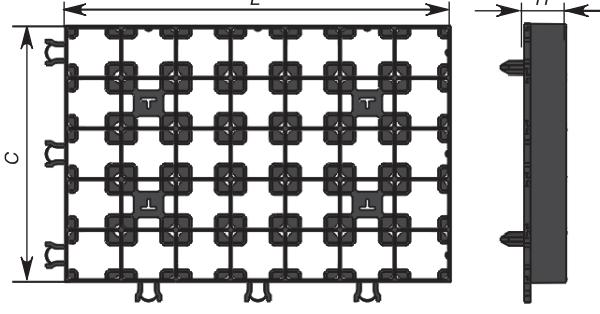
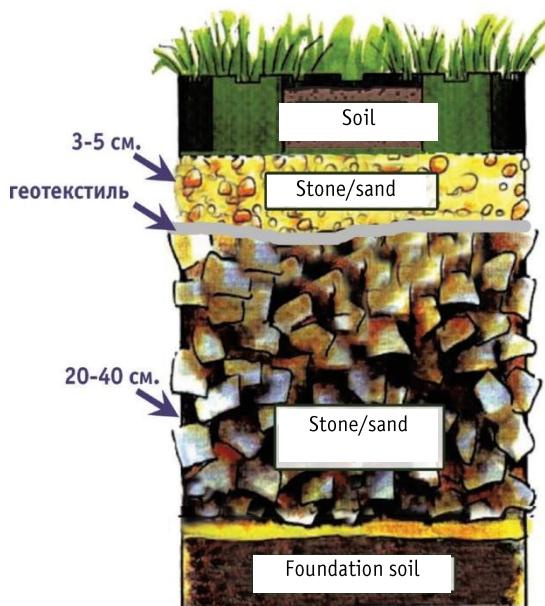
Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

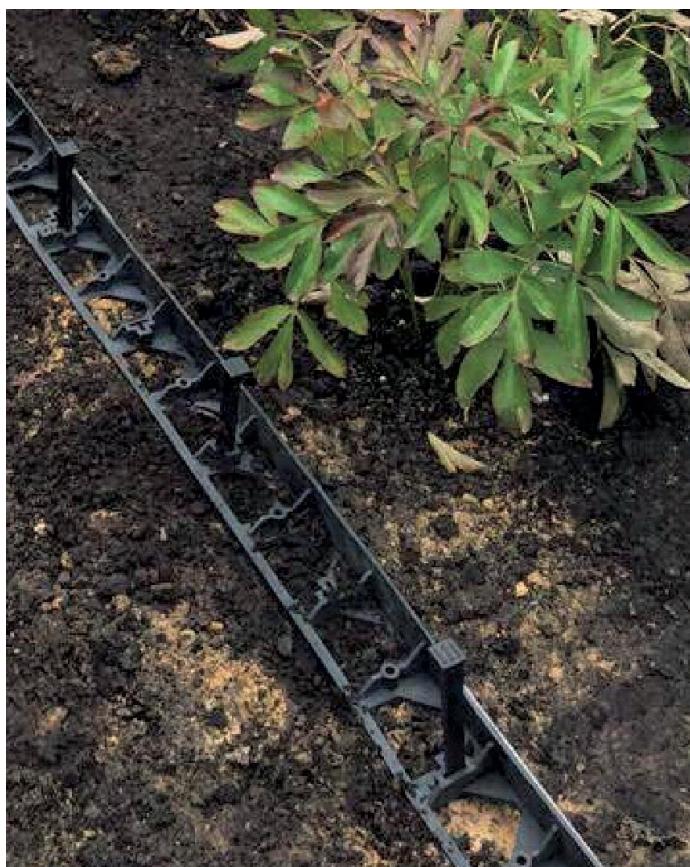


Item	Class of loading	Type	DN	Length	Width	Height	Weight	
							L mm	C mm
Drainage systems class of loading A15-C250								H/H ₁ mm
Drainage systems class of loading D400-F900								kg
 item 607								
								
Grass pavers Gidrolica® Eco Standart plastic								
607	C250	РГ-70.40.3,2	691.5	400	32	1.14	green	
608	C250	РГ-70.40.3,2	691.5	400	32	1.14	black	
Grass pavers Gidrolica® Eco Pro plastic								
605	C250	РГ-60.60.4	595	595	40	1.71	green	
606	C250	РГ-60.60.4	595	595	40	1.71	black	
Point drainage								
 item 601								
								
Grass pavers Gidrolica® Eco Super plastic								
601	D400	РГ-60.40.6,4	600	400	64	2.3	green	
602	D400	РГ-60.40.6,4	600	400	64	2.3	black	
Installation recommendations on grass paver Gidrolica®								
Soil conservation and stabilization system								
								
Entrance dirt-guard systems								
<ol style="list-style-type: none"> 1. Remove the fertile layer of about 40 cm. 2. Set broken stones of 5-20 mm with a layer: of 20-25 cm in height for load class C250, 30-35 cm in height for load class D400. 3. Lay geotextile. 4. Set sand and gravel mix (3-5 cm), tamp down, level the surface. 5. Install grass paver modules. 6. Fill the paver meshes with fertile soil, sow with grass seeds. 7. Water abundantly. If necessary, add soil to the top edge of the mesh. 8. Let the grass to grow for 3 weeks, then cut it and start using the lawn. <p>While in use, it is necessary to water the lawn regularly, avoiding direct sunlight when watering, taking into account the recommendations of the lawn grass manufacturers and the characteristics of the sort. It is also necessary to fertilize and sow the seeds.</p>								
Multi-purpose grid flooring								

Item	Class of loading	Type	DN	Length	Width	Height	Weight
				L mm	C mm	H/H ₁ mm	kg
							
		item 7310					
							
		item 7315					
Garden curb Gidrolica® Line, plastic							
 7310	Á100.8.4.5	1000	80	45	0,47	black, 1m long	
Securing anchor for curb							
7315	ÊÑ-Á		260		0,03		
Garden curb Gidrolica® Country, plastic							
 7305	Á10000.2.11	10000	20	110	2	black, 10m long	

Installation recommendations on plastic curb Gidrolica® Line

1. The soil should provide the possibility of using plastic securing anchors for curbs. In case of stony soil steel nails are used.
2. The marking of the curb lines is performed using a leveling gauge.
3. The curb is fastened with plastic anchors or steel nails along the marked line.
4. Components of the curb are easily cut to the desired length at the installation site.





Moscow, Mitino, Ecoparking



Moscow, Altufyevo, Ecoparking



Novosibirsk, shopping center "Malaya Medveditsa", grass paver



Moscow, restaurant "Ermak", Ecoparking



Novosibirsk, a detached house, Ecoparking

- ENTRANCE
DRAIN PANS
Gidrolica®StepPro
- ENTRANCE FOOT
GRILLS EURO
Gidrolica®Step



ENTRANCE DIRT-GUARD SYSTEMS GIDROLICA®

ENTRANCE DIRT-GUARD SYSTEMS

Entrance dirt-guard systems are an effective, modern and easy-to-use solution for protecting a room from dirt. This is especially relevant for buildings with high foot traffic: office blocks, large shopping and entertainment centers with a lot of visitors. A properly built dirt-guard system will effectively collect moisture and dirt from visitors' shoes and help to keep these buildings clean.

1 area of dirt-guard system

This is the first stage of cleaning shoes from large debris and snow. It is installed on the street before entry of the building. Mesh steel galvanized grates Gidrolica®StepPro or aluminum grates GidrolicaStep with rubber inserts are eminently suitable for this purpose. In addition to Euro aluminum grates with rubber inserts, it is possible to add a scraper or brushes.

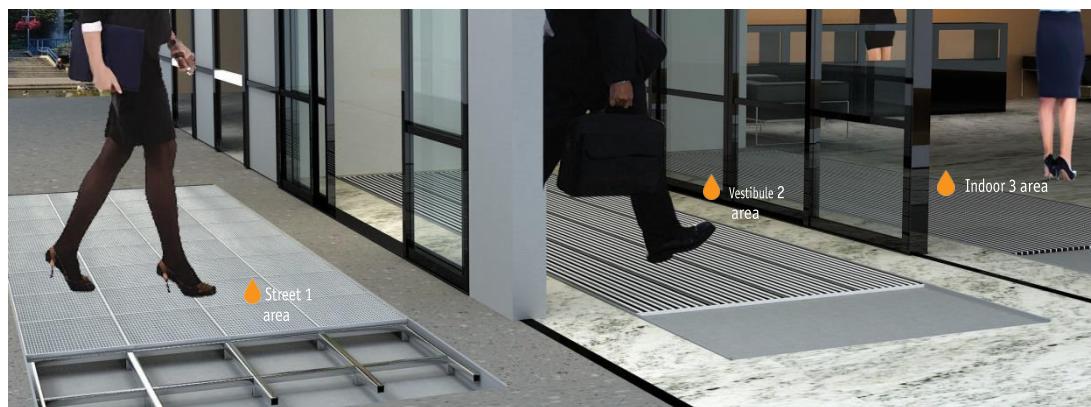
2 area of dirt-guard system

This is the second stage of cleaning shoes at the entry of the building. The second stage dirt-guard system is usually installed in the vestibule, between the street and the main building, and provides more thorough cleaning with dislodging dirt from the cleats of the shoes. In this area, aluminum grate system Gidrolica ®Step with rubber inserts, brushes and textiles has proven itself in the best way.

They effectively remove the remaining dirt and moisture from the shoes.

3 area of dirt-guard system

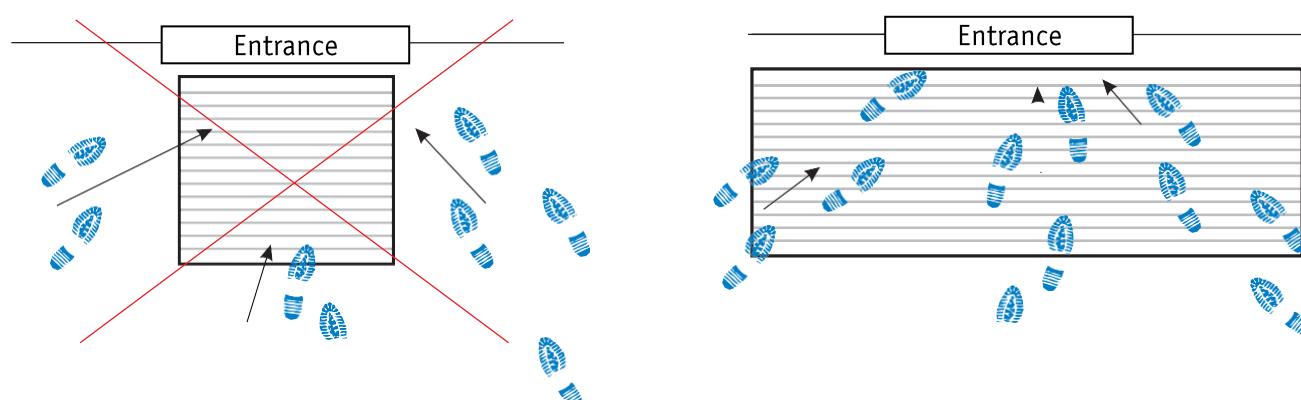
This is the third stage of cleaning shoes. It is usually installed indoors. At this stage, moisture is collected from the shoes. Aluminum grates Gidrolica® Step with napped textile inserts or napped absorbent carpets are suitable for this purpose. They finish the shoe cleaning and protect the floor covering from damage.



The three-level dirt-guard system forms a barrier against street dirt and moisture at the entrance to the buildings, providing cleanliness of public premises and reducing the time and cost of cleaning significantly.

MAIN RULES OF EFFECTIVE DIRT-GUARD SYSTEM DESIGN AND INSTALLATION

- The first rule. According to the "six steps" rule, a visitor should walk at least 6 steps on dirt-guard cover (based on all three steps together, but the larger the dirt-guard area, the more thoroughly the shoes are cleaned at the entrance). It is important that the dirt-guard covering occupies all the space (for the passage of people) into the building, so that the visitor takes at least 2–6 steps along the dirt-guard grills. It should be installed in such a way that there are no places where visitors can enter the building without going through the dirt-guard system.

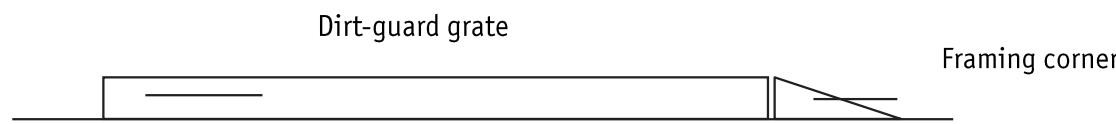


- ◆ The second rule is the selection of dirt-guard system components in strict accordance with the cleaning steps. It is important to understand that mistakes result in a loss of effectiveness of the dirt-guard systems. For example, grates with napped textile inserts are not recommended to be laid on the street in front of the entrance, because they will absorb precipitation and be as a "puddle in front of the entrance". Also, grates with brushes are not used, since in case of snowfall the snow will not fall down, but will be trampled into the brushes and they will no longer be effective. They should be laid in vestibule. And at the entrance, mesh steel grates Gidrolica® StepPro are perfectly suitable, because they pass snow, slush, and large particles of dirt effectively. It is also possible to lay aluminum grates Gidrolica® Step with rubber inserts and a scraper.
- ◆ The third rule is the rule of proper installation of grates in accordance with the installation recommendation.

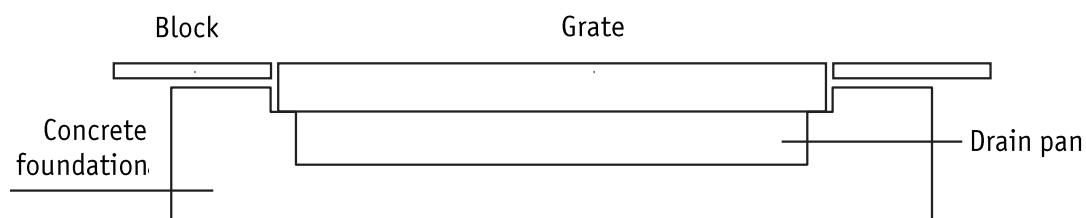
INSTALLATION RECOMMENDATION

Dirt-guard grates can be installed in three main ways:

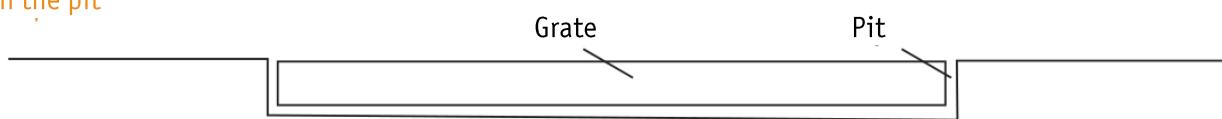
On the surface of the floor covering



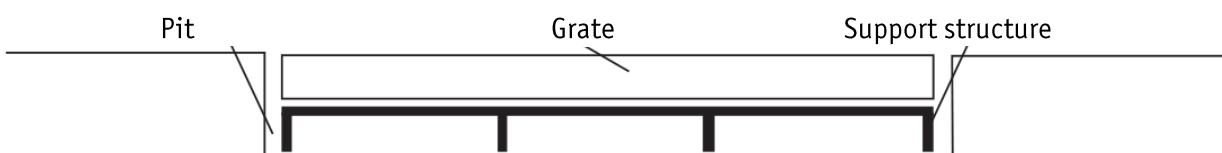
With drain pan in the pit



In the pit

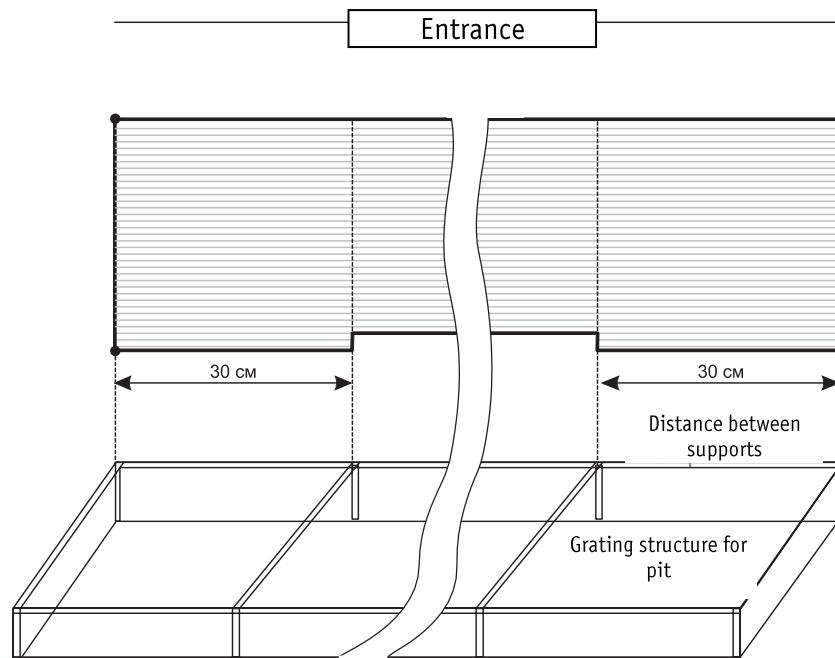


In the pit on support structure



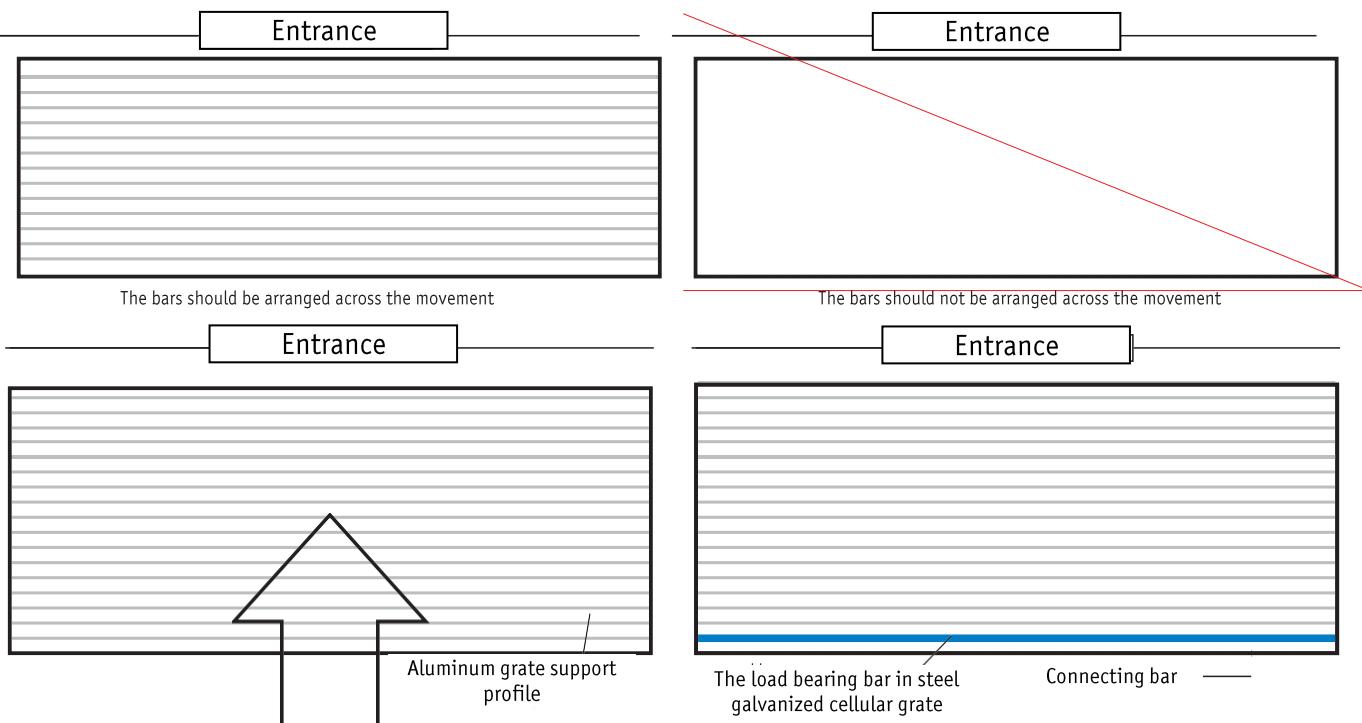
Recommended distance between supports when designing dirt-guard systems

Dirt-guard grates have a bearing capacity, and if they do not lay down on a level floor covering or pit base completely, but are installed in the pit on support structures, then additional support spacers should be provided so that the grates do not bend during intensive foot traffic. The recommended distance between the support structures is 30 cm at average.



Arrangement of load bearing bars

It is important to arrange the load bearing bars of mesh steel grates Gidrolica® StepPro and Gidrolica® Step grate profiles with inserts correctly, relative to the direction of movement. They should lay across the movement.

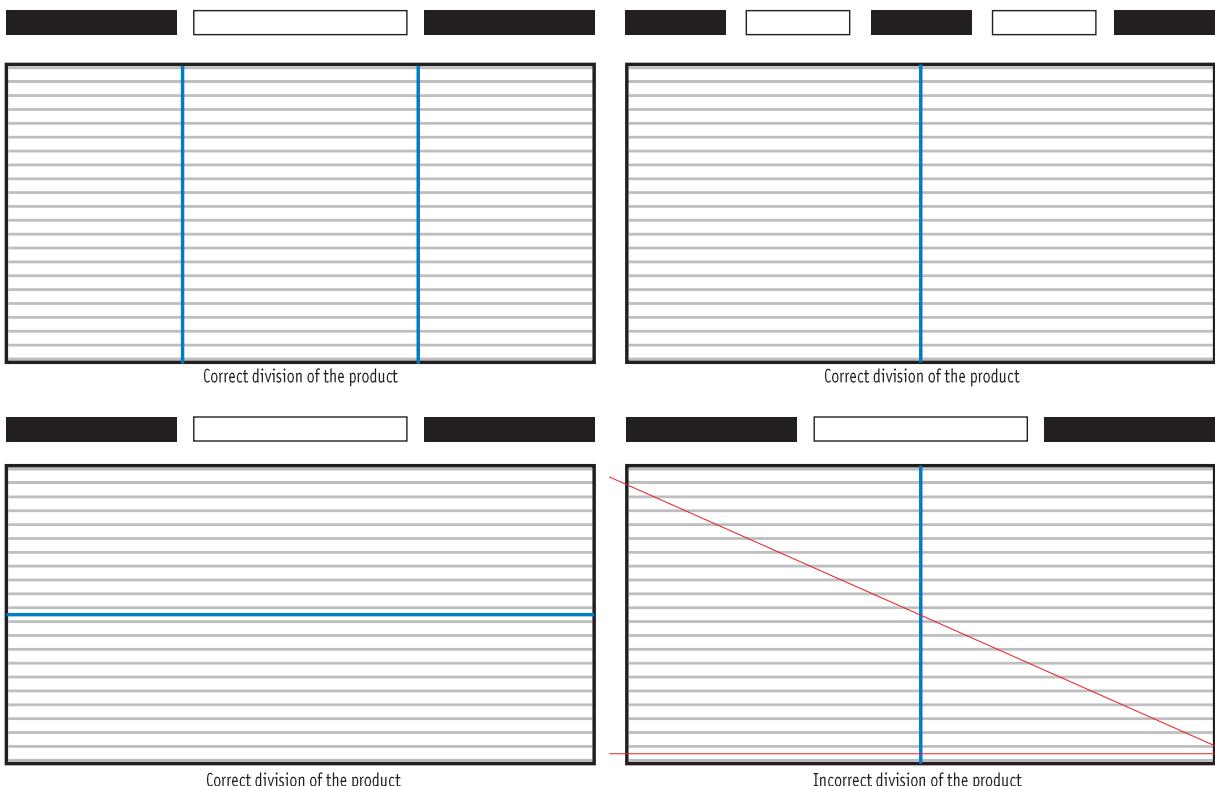


Arrangement diagram of the load bearing bars relative to the entrance: The arrangement of the grates on the support structures

The correct arrangement of the grates on the support structures. The load bearing bars of the steel grates and profiles of aluminum grates with inserts should be laid from the support to the support, across the movement, according to the recommended distance between the supports.

Division of large grates

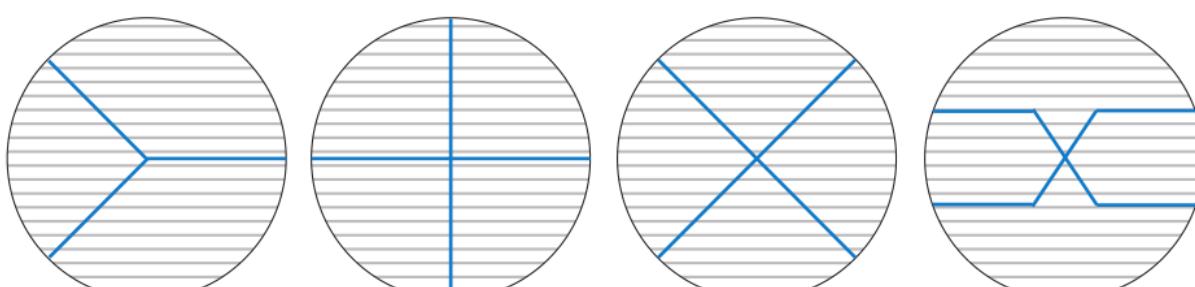
When designing the entrance area with dirt-guard coating, it is necessary to consider the weight and length of the grate. If the length of the grate profile is more than 3 meters or the weight of one grate is more than 60 kg, the product should be divided into parts so that it can be lifted to clean the surface under it, whether it is a pit or a floor covering surface.



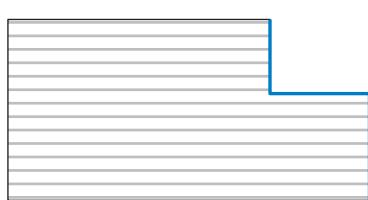
Geometrical shapes of grates

Gidrolica company offers the standard square and rectangular shapes of various entrance foot grills. But we can also offer non-standard forms of grills in accordance with your request. Examples of grill shapes:

- ◆ Rectangular grills;
- ◆ Square grills;
- ◆ Trapezoidal grills;
- ◆ Circular grills;
- ◆ Semicircular grills.



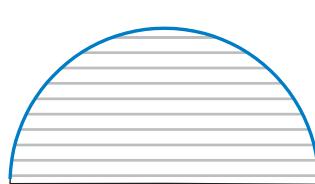
Circular grills



Rectangular grills



Trapezoidal grills



Semicircular grills

Multi-purpose grid flooring	Entrance dirt-guard systems	Soil conservation and stabilization system	Point drainage	Drainage systems class of loading F900	Drainage systems class of loading D400-F900	Drainage systems class of loading A15-C250
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Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

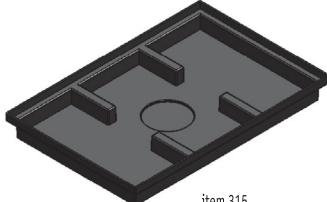
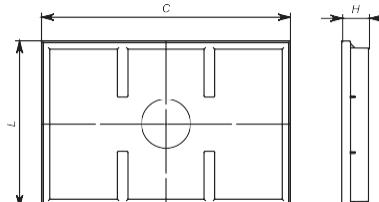
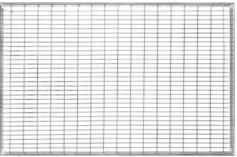
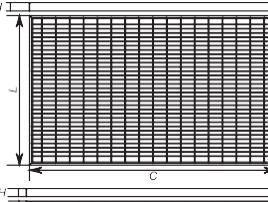
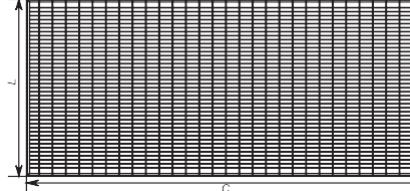
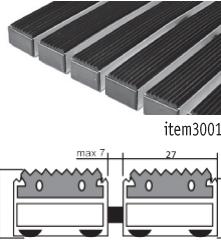
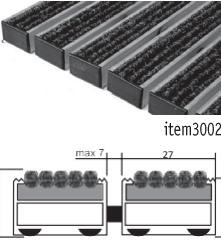
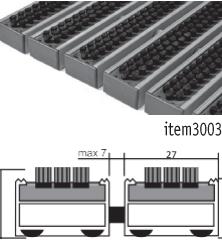
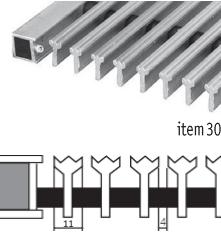
Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

Item	Class of loading	Type	DN	Length	Width	Height	Weight	
				L mm	C mm	H/H ₁ mm	kg	
	Drainage systems class of loading A15-C250		item 315					
315	A15	Plastic entrance drain pan Gidrolica®StepPro		400	600	65	1,2	
	Drainage systems class of loading D400-F900		apt. 301					
	Drainage systems class of loading F900		apt. 302					
301	A15	Entrance foot grills Gidrolica®StepPro mesh galvanized steel		390	590	20	5	
302	A15			490	990	20	15	
	Point drainage		item3001			item3002		
	Soil conservation and stabilization system		item3003			item3004		
30001	A15	Entrance foot grills Gidrolica®Step aluminium with inserts	rubber 390x590mm	pc.	390	590	20	3.5
30002	A15		textile 390x590mm	pc.	390	590	20	2.3
30003	A15		brush 390x590mm	pc.	390	590	23	3.2
30004	A15		scraper 390x590mm	pc.	390	590	22	6.33
30012	A15		rubber+ textile 390x590mm	pc.	390	590	20	2.85
30013	A15		rubber+ brush 390x590mm	pc.	390	590	23	3.39
30023	A15		textile+ brush 390x590mm	pc.	390	590	23	2.89
30123	A15		rubber+ textile+brush 390x590mm	pc.	390	590	23	3.12
30014	A15		rubber+scraper 390x590mm	pc.	390	590	22	4.24
30024	A15		textile+scraper 390x590mm	pc.	390	590	22	3.47
30034	A15		brush+scraper 390x590mm	pc.	390	590	23	3.94
30124	A15		rubber+ textile+scraper 390x590mm	pc.	390	590	22	3.85
30134	A15		rubber+brush+scraper 390x590mm	pc.	390	590	23	4.09
30234	A15		textile+brush+scraper 390x590mm	pc.	390	590	23	3.7
301234	A15		rubber+ textile+brush+scraper 390x590mm	pc.	390	590	23	3.88

We can also manufacture products of any size and shape according to your drawings.



- PRESSED FLOORING
- WELDED FLOORING
- STAIRS

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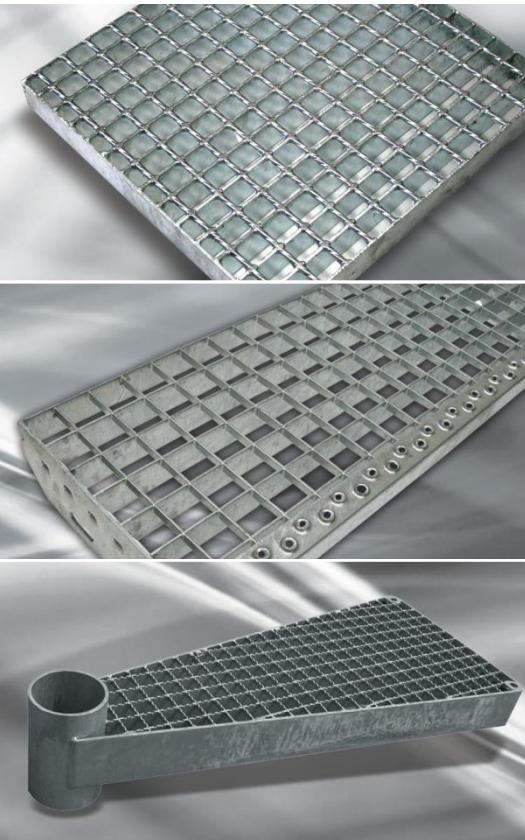
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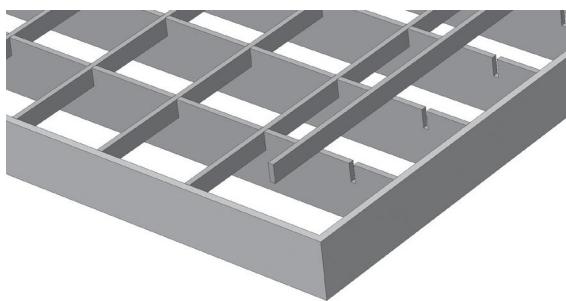
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MULTI-PURPOSE GRID FLOORING





Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

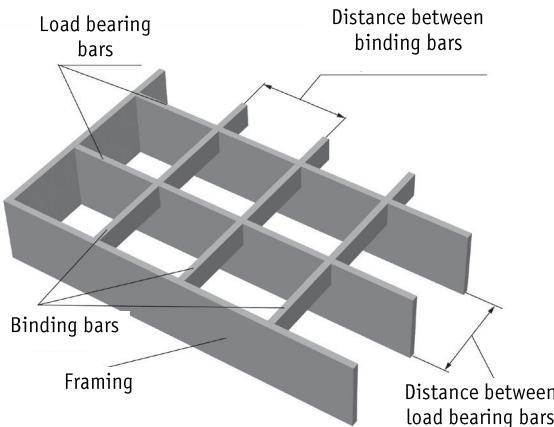
Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



The load bearing component of the pressed flooring is the bar, which determines the length of the whole structure. The binding bar fixes the load bearing bar in position and is not under any load.

Standard dimensions of load bearing bars

Thickness, mm	2			3			4			5		
Height, mm	20	30	40	20	30	40	20	30	40	50	60	70

Parameters of pressed flooring

Thickness range of load bearing bar	2–8 mm
Height range of load bearing bar	20–100 mm
Pitch of load bearing bar and binding bar	Multiple of 11 mm (meshes of 33x11 mm, 33x33 mm)

Common mesh division

Load bearing bar, mm	21	25	33,3
Covering bar, mm	22,2	33,3	44,4

Application field: building façade sections; ceiling panels (vents in office and industrial buildings); industrial flooring; rack shelves; platforms in the industry and energy sectors; hoisting crane platforms; pavements—metal bridges, etc.; buildings—warehouses, stationary racks; bridges in industrial areas; platforms, ramps, pitches; different staircases; drainage systems in chemical and food-processing industry (stainless steel).

RACK GRATES

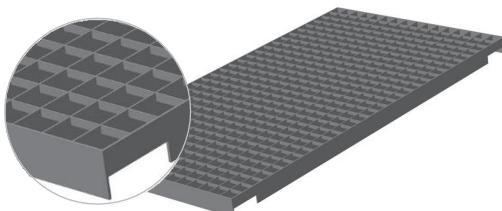
The advantages of pressed mesh grates in the construction of racks

- high static values of mesh grates relative to the amount of the material used;
- you can see the content of the rack from below;
- water penetration through the base of the racks is also very important in case of fire when using sprinklers.

A corner border or special cuttings with an elevated frame along the edges at the place of laying on the supporting surface for fixing are especially suitable for rack construction.

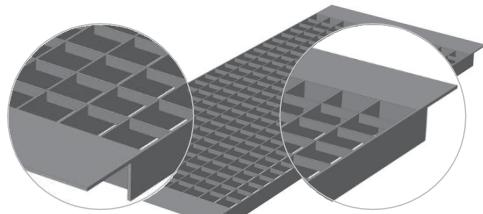
Corner border

Welded on one or more sides to the mesh grate. The height of the vertical wall of the corner should at least correspond to the height of the load bearing bar.



Cutting

Special cuttings with an elevated frame along the edges in the area of joining with the supporting surface.



GRATES FOR HEAVY LOADS

Grates for heavy loads are pressed grates that withstand heavy loads, the load bearing and covering bars of which have opposite splines and are pressed under the pressure of 1,200 tons.

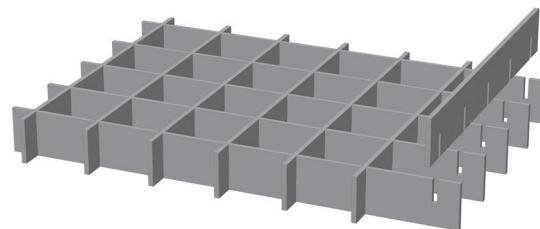
Basic specifications

Thickness range of load bearing bar, mm	2-8
Height range of load bearing bar, mm	80-180
Pitch of load bearing bar and binding bar, mm	Multiple of 25 (meshes 25450, 50450, etc.)

Common mesh division:

Load bearing bar, mm	25	50	75	100
Covering bar, mm	50	100	50	75

Multi-purpose grid flooring	Point drainage	Drainage systems class of loading F900	Drainage systems class of loading D400-F900	Drainage systems class of loading A15-C250
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Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

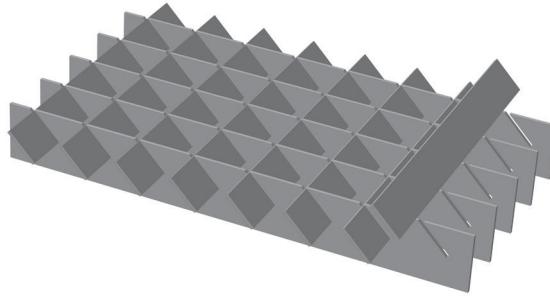
SINGLE-PIECE GRATES

Single-piece grates are pressed grates with identical in height load bearing bars and covering bars, cut to half of the bar. The load-bearing bar of single-piece grate is the one that is placed on the support with both ends and the bottom side of which has no splines.

Single-piece grates are used on the balconies for evacuation and glass cleaning with simultaneous solar radiation protection, as facade facing, covering modular grid, and railing filler. Single-piece grates are made of steel, stainless steel and aluminum.

Basic specifications

Thickness range of load bearing bar, mm	2-5
Height range of load bearing bar, mm	25-100
Pitch of load bearing bar and binding bar, mm	Multiple of 11 (meshes 33411, 33433, etc.)



LOUVERED GRATES

Louvered grates are common mesh grates with a small change in the design, i.e. covering bars are pressed into the slots of load bearing bars not at a right angle, but at a slope of 30 or 45 degrees, and then welded. The use of grid flooring, namely both types of louvered grates in the construction of a shed, makes it easy to achieve the desired distribution of shadow. Louvered grates are used where transparency is undesirable, for example, on bridges, walkways, underpasses, vents, balcony coverings, parking lots exposed to light, and facade facing.

Louvered grates are made of steel, stainless steel or aluminum. It is possible to order non-standard grates of any sizes. The height of the louvered grates is up to 100mm, the thickness range of the load bearing bar is 2-3mm, the height range of the load bearing bar is 25-100mm.

Basic specifications

Thickness range of load bearing bar, mm	2-3
Height range of load bearing bar, mm	25-100
Pitch of load bearing bar and binding bar, mm	Multiple of 33 (meshes 33433, 66433, etc.)

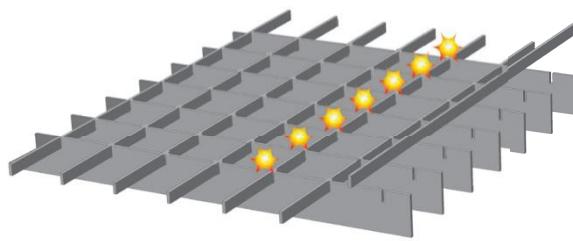
Common mesh division:

Load bearing bar, mm	33,3	33,3	99,9	33,3	66,6	66,6	99,9
Covering bar, mm							

It is possible to manufacture louvered grates with a different mesh division on request.

ULTRA GRATES

Ultra grates are welded and pressed grates. The manufacturing technology is as follows: first, the covering bars are pressed with the load bearing bars, and then welded. This technology provides additional stability, even if there is no borders along the edges. In fact, ultra grates are welded and pressed simultaneously, having advantages of both types. The lack of borders in some cases is due to the possibility of further processing for various needs.



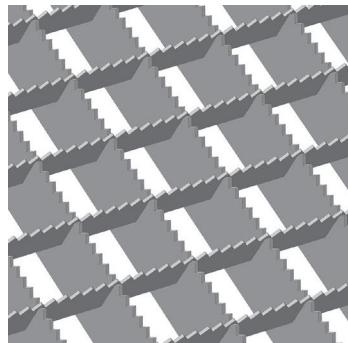
Basic specifications

Common mesh division, mm	34,3-33,3
Use of load bearing bars, mm	25x2, 50x3

ANTISKID COMPONENTS OF PRESSED FLOORING

It is possible to increase the safety of the grid flooring in particularly slippery places (when contaminated with various fats and oils, in case of frost formation) by applying antiskid teeth either on the load bearing bars, or on the binding bars, or on both bars.

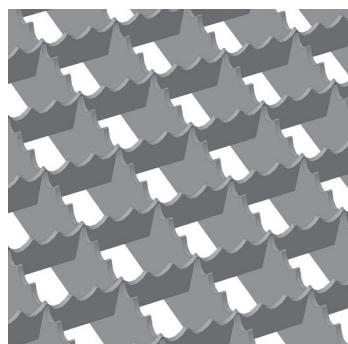
Antiskid protection R11



R11 is antiskid on the load bearing and covering bars of pressed flooring. It is characterized by a semicircular mark of the load bearing and covering bars.



Antiskid protection R12



R12 is antiskid of "saw tooth" type on the load bearing and covering bars of the pressed flooring. It is characterized by saw tooth mark of the load bearing and covering bars.

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



PRESSED GRATE. MESH DIVISION 33,3x33,3mm, DIN EN 1991

Load bearing bars, mm	Distance between supports, mm	200	300	400	500	600	700	800	900	1000	1100
	Drainage systems class of loading A15-C250										
20/2	FP	6,38	3,19	2,13	1,60	1,28	1,06	0,91	0,63	0,46	0,34
	FV	106,05	47,13	26,51	16,97	11,78	8,66	5,86	3,66	2,40	1,64
20/3	FP	9,57	4,79	3,19	2,39	1,91	1,60	1,36	0,95	0,69	0,52
	FV	159,07	70,70	39,77	25,45	17,67	12,99	8,80	5,49	3,60	2,46
25/2	FP	9,89	4,94	3,30	2,47	1,98	1,65	1,41	1,23	0,89	0,67
	FV	165,70	73,64	41,43	26,51	18,41	13,53	10,36	7,15	4,69	3,20
25/3	FP	14,83	7,41	4,94	3,71	2,97	2,47	2,12	1,84	1,34	1,00
	FV	248,55	110,47	62,14	39,77	27,62	20,29	15,53	10,73	7,04	4,81
30/2	FP	14,11	7,06	4,70	3,53	2,82	2,35	2,02	1,76	1,53	1,14
	FV	238,61	106,05	59,65	38,18	26,51	19,48	14,91	11,78	8,11	5,54
30/3	FP	21,17	10,58	7,06	5,29	4,23	3,53	3,02	2,65	2,29	1,72
	FV	357,91	159,07	89,48	57,27	39,77	29,22	22,37	17,67	12,16	8,31
30/4	FP	28,22	14,11	9,41	7,06	5,64	4,70	4,03	3,53	3,05	2,29
	FV	477,22	212,10	119,30	76,35	53,02	38,96	29,83	23,57	16,21	11,07
30/5	FP	35,28	17,64	11,76	8,82	7,06	5,88	5,04	4,41	3,82	2,86
	FV	596,52	265,12	149,13	95,44	66,28	48,70	37,28	29,46	20,27	13,84
35/2	FP	19,02	9,51	6,34	4,75	3,80	3,17	2,72	2,38	2,11	1,80
	FV	324,77	144,34	81,19	51,96	36,09	26,51	20,30	16,04	12,87	8,79
35/3	FP	28,53	14,26	9,51	7,13	5,71	4,75	4,08	3,57	3,17	2,70
	FV	487,16	216,52	121,79	77,95	54,13	39,77	30,45	24,06	19,31	13,19
35/4	FP	38,04	19,02	12,68	9,51	7,61	6,34	5,43	4,75	4,23	3,60
	FV	649,55	288,69	162,39	103,93	72,17	53,02	40,60	32,08	25,75	17,59
35/5	FP	47,55	23,77	15,85	11,89	9,51	7,92	6,79	5,94	5,28	4,50
	FV	811,93	360,86	202,98	129,91	90,21	66,28	50,75	40,10	32,19	21,98
40/2	FP	24,62	12,31	8,21	6,16	4,92	4,10	3,52	3,08	2,74	2,46
	FV	424,19	188,53	106,05	67,87	47,13	34,63	26,51	20,95	16,97	13,13
40/3	FP	36,93	18,47	12,31	9,23	7,39	6,16	5,28	4,62	4,10	3,69
	FV	636,29	282,80	159,07	101,81	70,70	51,94	39,77	31,42	25,45	19,69
40/4	FP	49,25	24,62	16,42	12,31	9,85	8,21	7,04	6,16	5,47	4,92
	FV	848,39	377,06	212,10	135,74	94,27	69,26	53,02	41,90	33,94	26,25
40/5	FP	61,56	30,78	20,52	15,39	12,31	10,26	8,79	7,69	6,84	6,16
	FV	1060,48	471,33	265,12	169,68	117,83	86,57	66,28	52,37	42,42	32,81
45/4	FP	61,77	30,89	20,59	15,44	12,35	10,30	8,82	7,72	6,86	6,18
	FV	1073,74	477,22	268,43	171,80	119,30	87,65	67,11	53,02	42,95	35,50
50/2	FP	37,75	18,87	12,58	9,44	7,55	6,29	5,39	4,72	4,19	3,77
	FV	662,80	294,58	165,70	106,05	73,64	54,11	41,43	32,73	26,51	21,91
50/3	FP	56,62	28,31	18,87	14,16	11,32	9,44	8,09	7,08	6,29	5,66
	FV	994,20	441,87	248,55	159,07	110,47	81,16	62,14	49,10	39,77	32,87
50/4	FP	75,49	37,75	25,16	18,87	15,10	12,58	10,78	9,44	8,39	7,55
	FV	1325,60	589,16	331,40	212,10	147,29	108,21	82,85	65,46	53,02	43,82
50/5	FP	94,37	47,18	31,46	23,59	18,87	15,73	13,48	11,80	10,49	9,44
	FV	1657,00	736,45	414,25	265,12	184,11	135,27	103,56	81,83	66,28	54,78
60/3	FP	80,06	40,03	26,69	20,01	16,01	13,34	11,44	10,01	8,90	8,01
	FV	1431,65	636,29	357,91	229,06	159,07	116,87	89,48	70,70	57,27	47,33
60/4	FP	106,74	53,37	35,58	26,69	21,35	17,79	15,25	13,34	11,86	10,67
	FV	1908,87	848,39	477,22	305,42	212,10	155,83	119,30	94,27	76,35	63,10
60/5	FP	133,43	66,72	44,48	33,36	26,69	22,24	19,06	16,68	14,83	13,34
	FV	2386,09	1060,48	596,52	381,77	265,12	194,78	149,13	117,83	95,44	78,88
70/3	FP	106,83	53,42	35,61	26,71	21,37	17,81	15,26	13,35	11,87	10,68
	FV	1948,64	866,06	487,16	311,78	216,52	159,07	121,79	96,23	77,95	64,42
70/4	FP	142,44	71,22	47,48	35,61	28,49	23,74	20,35	17,81	15,83	14,24
	FV	2598,18	1154,75	649,55	415,71	288,69	212,10	162,39	128,31	103,93	85,89
70/5	FP	178,05	89,03	59,35	44,51	35,61	29,68	25,44	22,26	19,78	17,81
		3247,73	1443,43	811,93	519,64	360,86	265,12	202,98	160,38	129,91	107,3
											6

PRESSED GRATE. MESH DIVISION 33,3×33,3mm, DIN EN 1991										
Load bearing bars, mm	Distance between supports, mm	1200	1300	1400	1500	1600	1700	1800	1900	2000
20/2	FP	0,26	0,21	0,17	0,14	0,11	0,09	0,08	0,07	0,06
	FV	1,16	0,84	0,63	0,47	0,37	0,29	0,23	0,18	0,15
20/3	FP	0,40	0,31	0,25	0,20	0,17	0,14	0,12	0,10	0,09
	FV	1,74	1,26	0,94	0,71	0,55	0,43	0,34	0,28	0,23
25/2	FP	0,51	0,40	0,32	0,26	0,22	0,18	0,15	0,13	0,11
	FV	2,26	1,64	1,22	0,93	0,72	0,56	0,45	0,36	0,29
25/3	FP	0,77	0,60	0,48	0,39	0,32	0,27	0,23	0,19	0,16
	FV	3,39	2,46	1,83	1,39	1,07	0,84	0,67	0,54	0,44
30/2	FP	0,88	0,69	0,55	0,45	0,37	0,31	0,26	0,22	0,19
	FV	3,91	2,84	2,11	1,60	1,24	0,97	0,77	0,62	0,51
30/3	FP	1,32	1,03	0,83	0,67	0,55	0,46	0,39	0,33	0,28
	FV	5,86	4,26	3,17	2,40	1,86	1,46	1,16	0,93	0,76
30/4	FP	1,76	1,38	1,10	0,90	0,74	0,61	0,52	0,44	0,38
	FV	7,82	5,68	4,22	3,20	2,47	1,94	1,54	1,24	1,01
30/5	FP	2,20	1,72	1,38	1,12	0,92	0,77	0,65	0,55	0,47
	FV	9,77	7,10	5,28	4,00	3,09	2,43	1,93	1,56	1,27
35/2	FP	1,38	1,08	0,87	0,70	0,58	0,48	0,41	0,35	0,30
	FV	6,21	4,51	3,35	2,54	1,96	1,54	1,23	0,99	0,80
35/3	FP	2,07	1,63	1,30	1,06	0,87	0,72	0,61	0,52	0,44
	FV	9,31	6,76	5,03	3,81	2,95	2,31	1,84	1,48	1,21
35/4	FP	2,76	2,17	1,73	1,41	1,16	0,97	0,81	0,69	0,59
	FV	12,42	9,02	6,70	5,09	3,93	3,08	2,45	1,98	1,61
35/5	FP	3,45	2,71	2,17	1,76	1,45	1,21	1,02	0,86	0,74
	FV	15,52	11,27	8,38	6,36	4,91	3,85	3,07	2,47	2,01
40/2	FP	2,04	1,60	1,28	1,04	0,86	0,71	0,60	0,51	0,44
	FV	9,27	6,73	5,00	3,80	2,93	2,30	1,83	1,47	1,20
40/3	FP	3,07	2,41	1,92	1,56	1,29	1,07	0,90	0,77	0,66
	FV	13,90	10,09	7,50	5,69	4,40	3,45	2,75	2,21	1,80
40/4	FP	4,09	3,21	2,57	2,08	1,72	1,43	1,20	1,02	0,88
	FV	18,54	13,46	10,00	7,59	5,86	4,60	3,66	2,95	2,40
40/5	FP	5,11	4,01	3,21	2,60	2,14	1,79	1,50	1,28	1,09
	FV	23,17	16,82	12,51	9,49	7,33	5,75	4,58	3,69	3,00
45/4	FP	5,62	4,53	3,62	2,94	2,42	2,02	1,70	1,44	1,24
	FV	26,39	19,16	14,25	10,81	8,35	6,55	5,21	4,20	3,42
50/2	FP	3,43	3,08	2,46	2,00	1,64	1,37	1,15	0,98	0,84
	FV	18,10	13,14	9,77	7,41	5,73	4,49	3,58	2,88	2,35
50/3	FP	5,15	4,61	3,69	2,99	2,46	2,05	1,73	1,47	1,26
	FV	27,15	19,71	14,66	11,12	8,59	6,74	5,36	4,32	3,52
50/4	FP	6,86	6,15	4,92	3,99	3,29	2,74	2,30	1,96	1,68
	FV	36,20	26,28	19,54	14,83	11,45	8,99	7,15	5,76	4,69
50/5	FP	8,58	7,69	6,15	4,99	4,11	3,42	2,88	2,45	2,10
	FV	45,25	32,85	24,43	18,54	14,32	11,23	8,94	7,20	5,86
60/3	FP	7,28	6,67	6,16	5,08	4,18	3,48	2,93	2,49	2,14
	FV	39,77	33,89	25,32	19,22	14,84	11,65	9,27	7,47	6,08
60/4	FP	9,70	8,90	8,21	6,77	5,58	4,65	3,91	3,32	2,85
	FV	53,02	45,18	33,77	25,62	19,79	15,53	12,36	9,95	8,11
60/5	FP	12,13	11,12	10,26	8,47	6,97	5,81	4,89	4,15	3,56
	FV	66,28	56,48	42,21	32,03	24,74	19,41	15,45	12,44	10,13
70/3	FP	9,71	8,90	8,22	7,63	6,51	5,42	4,57	3,88	3,32
	FV	54,13	46,12	39,77	30,52	23,57	18,50	14,72	11,85	9,66
70/4	FP	12,95	11,87	10,96	10,17	8,68	7,23	6,09	5,17	4,43
	FV	72,17	61,50	53,02	40,69	31,43	24,66	19,62	15,81	12,87
70/5	FP	16,19	14,84	13,70	12,72	10,85	9,04	7,61	6,47	5,54
	FV	90,21	76,87	66,28	50,86	39,29	30,83	24,53	19,76	16,09

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

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PRESSED GRATE. MESH DIVISION 33,3×33,3mm, DIN EN 1991												
Load bearing bars, mm	Distance between supports, mm	200	300	400	500	600	700	800	900	1000	1100	
80/4	FP	182,33	91,17	60,78	45,58	36,47	30,39	26,05	22,79	20,26	18,23	
	FV	3393,54	1508,24	848,39	542,97	377,06	277,02	212,10	167,58	135,74	112,18	
80/5	FP	227,91	113,96	75,97	56,98	45,58	37,99	32,56	28,49	25,32	22,79	
	FV	4241,93	1885,30	1060,48	678,71	471,33	346,28	265,12	209,48	169,68	140,23	
90/4	FP	226,33	113,17	75,44	56,58	45,27	37,72	32,33	28,29	25,15	22,63	
	FV	4294,95	1908,87	1073,74	687,19	477,22	350,61	268,43	212,10	171,80	141,98	
90/5	FP	282,92	141,46	94,31	70,73	56,58	47,15	40,42	35,36	31,44	28,29	
	FV	5368,69	2386,09	1342,17	858,99	596,52	438,26	335,54	265,12	214,75	177,48	
100/5	FP	342,02	171,01	114,01	85,50	68,40	57,00	48,86	42,75	38,00	34,20	
	FV	6628,01	2945,78	1657,00	1060,48	736,45	541,06	414,25	327,31	265,12	219,11	
110/5	FP	413,84	206,92	137,95	103,46	82,77	68,97	59,12	51,73	45,98	41,38	
	FV	8019,90	3564,40	2004,97	1283,18	891,10	654,69	501,24	396,04	320,80	265,12	
120/5	FP	492,50	246,25	164,17	123,13	98,50	82,08	70,36	61,56	54,72	49,25	
	FV	9544,34	4241,93	2386,09	1527,09	1060,48	779,13	596,52	471,33	381,77	315,52	
130/5	FP	578,01	289,00	192,67	144,50	115,60	96,33	82,57	72,25	64,22	57,80	
	FV	11201,34	4978,38	2800,34	1792,22	1244,59	914,40	700,08	553,15	448,05	370,29	
140/5	FP	670,35	335,18	223,45	167,59	134,07	111,73	95,76	83,79	74,48	67,04	
	FV	12990,91	5773,74	3247,73	2078,55	1443,43	1060,48	811,93	641,53	519,64	429,45	
150/5	FP	769,54	384,77	256,51	192,38	153,91	128,26	109,93	96,19	85,50	76,95	
	FV	14913,03	6628,01	3728,26	2386,09	1657,00	1217,39	932,06	736,45	596,52	492,99	
160/5	FP	875,56	437,78	291,85	218,89	175,11	145,93	125,08	109,45	97,28	87,56	
	FV	16967,72	7541,21	4241,93	2714,83	1885,30	1385,12	1060,48	837,91	678,71	560,92	
170/5	FP	988,43	494,21	329,48	247,11	197,69	164,74	141,20	123,55	109,83	98,84	
	FV	19154,96	8513,32	4788,74	3064,79	2128,33	1563,67	1197,19	945,92	766,20	633,22	

The table is valid for a standard mesh division of 33,3×33,3 and material S235 JR + N St 37-2. The values present the maximum allowable load on the mesh grates.

FP is the maximum unit load in kN per sample in the form of a cube of 200–200 mm.

FV is the maximum evenly distributed surface load in kN/m².

PRESSED GRATE. MESH DIVISION 33,3×33,3mm, DIN EN 1991										
Load bearing bars, mm	Distance between supports, mm	1200	1300	1400	1500	1600	1700	1800	1900	2000
80/4	FP	16,58	15,19	14,03	13,02	12,16	10,58	8,91	7,57	6,48
	FV	94,27	80,32	69,26	60,33	46,92	36,81	29,29	23,59	19,22
80/5	FP	20,72	18,99	17,53	16,28	15,19	13,22	11,13	9,46	8,11
	FV	117,83	100,40	86,57	75,41	58,65	46,02	36,61	29,49	24,02
90/4	FP	20,58	18,86	17,41	16,17	15,09	14,15	12,44	10,57	9,06
	FV	119,30	101,66	87,65	76,35	66,80	52,42	41,70	33,59	27,36
90/5	FP	25,72	23,58	21,76	20,21	18,86	17,68	15,55	13,21	11,32
	FV	149,13	127,07	109,57	95,44	83,50	65,52	52,13	41,99	34,20
100/5	FP	31,09	28,50	26,31	24,43	22,80	21,38	20,12	17,74	15,21
	FV	184,11	156,88	135,27	117,83	103,56	89,88	71,51	57,60	46,92
110/5	FP	37,62	34,49	31,83	29,56	27,59	25,87	24,34	22,99	20,24
	FV	222,77	189,82	163,67	142,58	125,31	111,00	95,18	76,67	62,45
120/5	FP	44,77	41,04	37,88	35,18	32,83	30,78	28,97	27,36	25,92
	FV	265,12	225,90	194,78	169,68	149,13	132,10	117,83	99,54	81,07
130/5	FP	52,55	48,17	44,46	41,29	38,53	36,13	34,00	32,11	30,42
	FV	311,15	265,12	228,60	199,14	175,02	155,04	138,29	124,11	103,08
140/5	FP	60,94	55,86	51,57	47,88	44,69	41,90	39,43	37,24	35,28
	FV	360,86	307,48	265,12	230,95	202,98	179,80	160,38	143,94	128,74
150/5	FP	69,96	64,13	59,20	54,97	51,30	48,10	45,27	42,75	40,50
	FV	414,25	352,97	304,35	265,12	233,02	206,41	184,11	165,24	149,13
160/5	FP	79,60	72,96	67,35	62,54	58,37	54,72	51,50	48,64	46,08
	FV	471,33	401,60	346,28	301,65	265,12	234,85	209,48	188,01	169,68
170/5	FP	89,86	82,37	76,03	70,60	65,90	61,78	58,14	54,91	52,02
	FV	532,08	453,37	390,92	340,53	299,30	265,12	236,48	212,24	191,55

Multi-purpose grid flooring	Soil conservation and stabilization system	Entrance dirt-guard systems	Point drainage	Drainage systems class of loading F900	Drainage systems class of loading D400-F900	Drainage systems class of loading A15-C250
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Conversion factor:

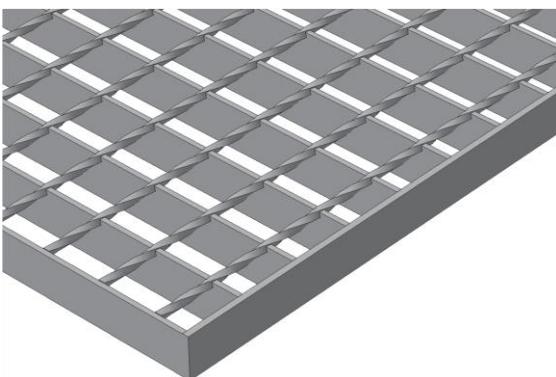
1 kN ≈ ca. 100 kg

10 kN ≈ ca. 1 t

10 N ≈ ca. 1 daN = ca. 1 kgf

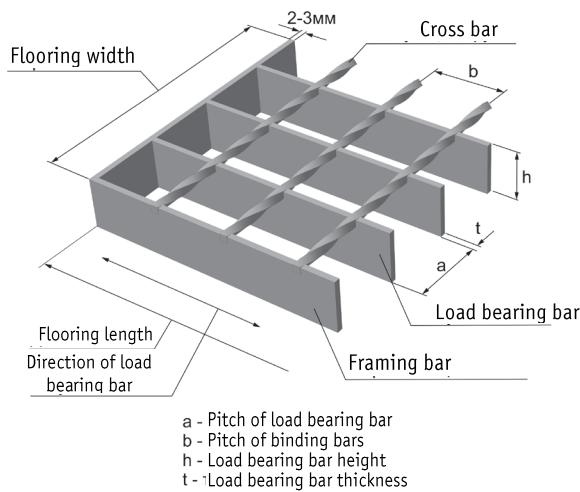
The area designed for loads from people with a point load of 1.5 kN per sample in the form of a cube 200-200 mm with a deflection of ≤4 mm according to BGI 588 and RAL GZ 637.

The area with a point load of 1.5 kN per sample in the form of a cube 200 x 200 mm with a deflection of ≤L/200 mm.



WELDED GRID FLOORING

Welded flooring is produced by forge-and-press welding according to DIN 24537 by cold pressing of the binding bars into the load bearing bars made of mild steel St 35-7 (similar to St3 GOST 380-94) with or without hot zinc coating according to DIN 50976 (EN ISO 1461). A 70 micron zinc shell with a zinc purity of 99.9% ensures that the zinc does not peel off under normal mechanical load. Also the flooring can be made of stainless steels 1.4301 (similar to 08X18H10), 1.4571 (similar to 10X17H13M2T), 1.4404 and aluminum.



Parameters of welded flooring

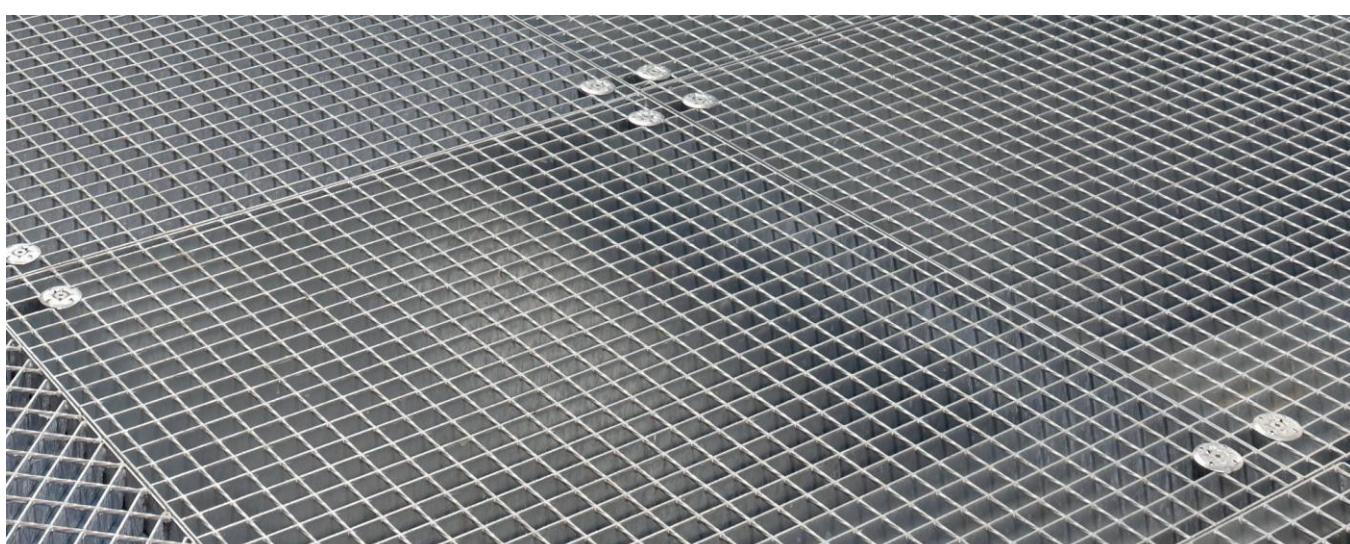
Thickness range of load bearing bar, mm	2-8
Height range of load bearing bar, mm	20-100

Standard dimensions of load bearing bars

Thickness, mm	2	3	4	5
Height, mm	20 30 40	20 30 40	20 30 40 50 60 70	20 30 40 50 60 70

Common mesh division

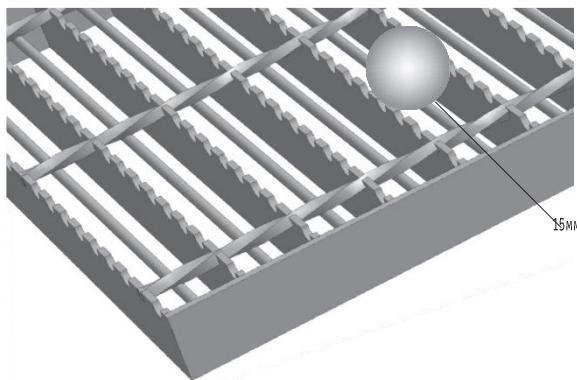
Load bearing bar, mm	20,77	30,15	34,3	41,45
Covering rod, mm	24 38,1 50,8	24 50,8 76,2 101,6 19,25	24 38,1 50,8 76,2	24 50,8 101,6



GRATES FOR OFFSHORE PLATFORMS

Grates for offshore platforms are designed to be used at drilling rigs at sea. This special form of welded grid flooring is additionally reinforced by round rods welded to twisted covering rods in the direction of the load bearing bars.

Offshore grates are produced by the method of forge-and-press welding. They are made using strict standards. They are very durable and not subject to corrosion. In addition to drilling rigs, fire escapes, agricultural structures, bridges and decks can be equipped with such grates.



Drainage systems class of loading A15-C250

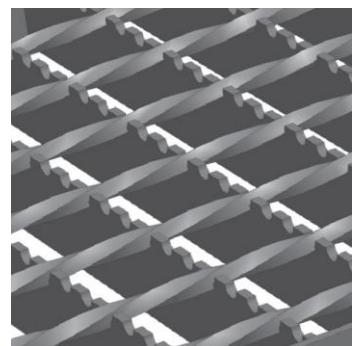
Parameters of grates for offshore platforms

Thickness range of load bearing bar	2–8 mm
Height range of load bearing bar	20–100 mm
Common mesh division	32,284101,6 mm with additionally welded round rod

ANTISKID COMPONENTS OF WELDED FLOORING

To increase the safety of the grid flooring in particularly slippery places (when contaminated with various fats and oils, in case of formation), antiskid teeth of the following types are applied:

Antiskid protection R10.



R10 is antiskid on the load bearing bars of welded flooring. It is characterized by a semicircular mark of the load bearing bars.



Drainage systems class of loading A900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring

TABLE OF LOADS OF WELDED FLOORING



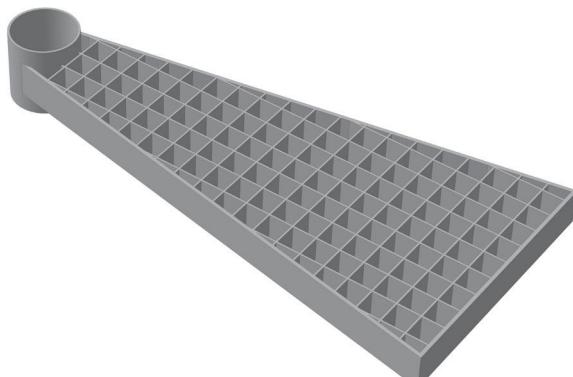
Gidrolica
Drainage system manufacturing

		WELDED PRESSED FLOORING MESH PITCH 34,3x38,1mm, DIN							EN 1991 S235 JR+N ST 37-2				
Load bearing, bars, mm	Distance between supports, mm	1200	1300	1400	1500	1600	1700	1800	1900	2000		Drainage systems class of loading A15-C250	
20/2	FP	0,25	0,20	0,16	0,13	0,11	0,09	0,07	0,06	0,05			
	FV	1,25	0,91	0,68	0,51	0,40	0,31	0,25	0,20	0,16			
20/3	FP	0,38	0,30	0,24	0,19	0,16	0,13	0,11	0,10	0,08			
	FV	1,88	1,36	1,01	0,77	0,59	0,47	0,37	0,30	0,24			
25/2	FP	0,49	0,39	0,31	0,25	0,21	0,17	0,15	0,12	0,11			
	FV	2,44	1,77	1,32	1,00	0,77	0,61	0,48	0,39	0,32			
25/3	FP	0,74	0,58	0,46	0,38	0,31	0,26	0,22	0,19	0,16			
	FV	3,66	2,66	1,98	1,50	1,16	0,91	0,72	0,58	0,47			
30/2	FP	0,85	0,67	0,53	0,43	0,36	0,30	0,25	0,21	0,18			
	FV	4,22	3,07	2,28	1,73	1,34	1,05	0,83	0,67	0,55			
30/3	FP	1,27	1,00	0,80	0,65	0,53	0,44	0,37	0,32	0,27			
	FV	6,33	4,60	3,42	2,59	2,00	1,57	1,25	1,01	0,82			
30/4	FP	1,69	1,33	1,06	0,86	0,71	0,59	0,50	0,42	0,36			
	FV	8,44	6,13	4,56	3,46	2,67	2,10	1,67	1,34	1,09			
30/5	FP	2,12	1,66	1,33	1,08	0,89	0,74	0,62	0,53	0,45			
	FV	10,55	7,66	5,70	4,32	3,34	2,62	2,08	1,68	1,37			
35/2	FP	1,33	1,05	0,84	0,68	0,56	0,47	0,39	0,33	0,29			
	FV	6,70	4,87	3,62	2,75	2,12	1,66	1,32	1,07	0,87			
35/3	FP	2,00	1,57	1,26	1,02	0,84	0,70	0,59	0,50	0,43			
	FV	10,06	7,30	5,43	4,12	3,18	2,50	1,99	1,60	1,30			
35/4	FP	2,67	2,09	1,67	1,36	1,12	0,93	0,78	0,67	0,57			
	FV	13,41	9,73	7,24	5,49	4,24	3,33	2,65	2,13	1,74			
35/5	FP	3,33	2,62	2,09	1,70	1,40	1,16	0,98	0,83	0,71			
	FV	16,76	12,17	9,05	6,86	5,30	4,16	3,31	2,67	2,17			
40/2	FP	1,98	1,55	1,24	1,01	0,83	0,69	0,58	0,49	0,42			
	FV	10,01	7,27	5,40	4,10	3,17	2,48	1,98	1,59	1,30			
40/3	FP	2,96	2,33	1,86	1,51	1,24	1,04	0,87	0,74	0,63			
	FV	15,01	10,90	8,10	6,15	4,75	3,73	2,96	2,39	1,95			
40/4	FP	3,95	3,10	2,48	2,01	1,66	1,38	1,16	0,99	0,85			
	FV	20,01	14,53	10,80	8,20	6,33	4,97	3,95	3,18	2,59			
40/5	FP	4,94	3,88	3,10	2,52	2,07	1,73	1,45	1,23	1,06			
	FV	25,02	18,16	13,50	10,25	7,92	6,21	4,94	3,98	3,24			
45/4	FP	5,43	4,38	3,50	2,84	2,34	1,95	1,64	1,40	1,20			
	FV	28,50	20,69	15,38	11,67	9,02	7,07	5,63	4,53	3,69			
50/2	FP	3,33	2,98	2,38	1,94	1,59	1,33	1,12	0,95	0,81			
	FV	19,54	14,19	10,55	8,01	6,18	4,85	3,86	3,11	2,53			
50/3	FP	4,99	4,47	3,58	2,90	2,39	1,99	1,68	1,42	1,22			
	FV	29,32	21,28	15,82	12,01	9,28	7,28	5,79	4,66	3,80			
50/4	FP	6,65	5,96	4,77	3,87	3,19	2,65	2,23	1,90	1,63			
	FV	39,09	28,38	21,10	16,01	12,37	9,70	7,72	6,22	5,07			
50/5	FP	8,32	7,46	5,96	4,84	3,98	3,32	2,79	2,37	2,03			
	FV	48,86	35,47	26,37	20,01	15,46	12,13	9,65	7,77	6,33			
60/3	FP	7,07	6,48	5,98	4,93	4,06	3,38	2,85	2,42	2,07			
	FV	42,94	36,59	27,34	20,75	16,03	12,58	10,01	8,06	6,57			
60/4	FP	9,42	8,64	7,97	6,58	5,41	4,51	3,80	3,23	2,76			
	FV	57,25	48,78	36,46	27,67	21,37	16,77	13,34	10,75	8,75			
60/5	FP	11,78	10,80	9,96	8,22	6,77	5,64	4,75	4,03	3,46			
	FV	71,57	60,98	45,57	34,58	26,72	20,96	16,68	13,43	10,94			
70/3	FP	9,47	8,68	8,01	7,44	6,35	5,29	4,45	3,78	3,24			
	FV	58,45	49,80	42,94	32,95	25,45	19,97	15,89	12,80	10,43			
70/4	FP	12,62	11,57	10,68	9,92	8,46	7,05	5,93	5,04	4,32			
	FV	77,93	66,40	57,25	43,93	33,94	26,63	21,19	17,07	13,90			
70/5	FP	15,78	14,46	13,35	12,40	10,58	8,81	7,42	6,30	5,40			
	FV	97,41	83,00	71,57	54,92	42,42	33,29	26,48	21,33	17,38			
80/4	FP	16,20	14,85	13,70	12,73	11,88	10,34	8,70	7,39	6,34			
	FV	101,78	86,73	74,78	65,14	50,66	39,75	31,63	25,48	20,75			
80/5	FP	20,25	18,56	17,13	15,91	14,85	12,92	10,88	9,24	7,92			
	FV	127,23	108,41	93,47	81,43	63,32	49,69	39,53	31,84	25,94			

Multi-purpose grid flooring
Entrance dirt-guard systems
Soil conservation and
stabilization system
Point drainage
Drainage systems class of
loading F900
Drainage systems class of
loading D400-F900
Drainage systems class of
loading A15-C250



General information for all stairs



The use of stairs from mesh grates makes open stairways safe in autumn and winter.

Due to the rather large meshes, the stairs let rainwater, snow, street dirt pass without frost formation on the stairs. Mild steel, from which antiskid stairs are made, resistant to high and low temperatures, including their sharp fluctuations.

Metal stairs are produced using the technology of pressed and welded flooring manufacturing. Straight stairs are made of mild steel St 35-7 (similar to ST-3 GOST 380-94) with or without hot zinc coating according to DIN 50976 EN ISO 1461). A 70 micron zinc shell with a zinc purity of 99.9% ensures that the zinc does not peel off under normal mechanical load. Also straight stairs can be made of stainless steel 1.4301 (similar to 08x18H10), 1.4571 (similar to 10H17H13M2T), 1.4404 and aluminum.

STRAIGHT STAIRS (FLIGHT)

Straight stairs correspond to the international standard DIN 24531, and therefore their design includes framing by cant with holes along the upper surface. It increases their slip properties, reduces the probability of injury when falling, and prevents the stage from bending.

Variants of height and thickness of the load bearing bar, as well as a variant of the weaving scheme, can be taken from the tables of pressed grates and welded pressed grates.

Patch plates of stairs are in accordance with DIN 24531, the load bearing bar is up to 40 x 3, if the load bearing bar has other dimensions, then the manufacturing of patch plates is performed by agreement.

Straight stairs get a side framing from the bar with holes for attachment to the staircase structure.

However, stairs have more severe requirements for antiskid safety than grates. Stairs are always made with cant having an opening which is stepped on.

In addition to the increased safety when stepped on, stairs also have a higher stability.

SPIRAL STAIRS

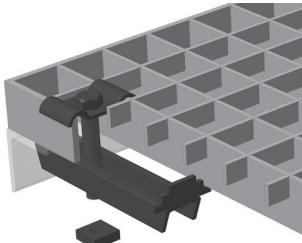
Application field:

- spiral stairs are widely used to provide access to towers, containers and tanks,
- as well as to assemble industrial and auxiliary technical staircases;
- steel stairs are often installed on spiral staircases in buildings during reconstruction when
- other staircases are blocked, and there is no possibility to use them;
- spiral staircases are installed in houses with high ceilings or in two-storey apartments;
- they are used in industrial construction.

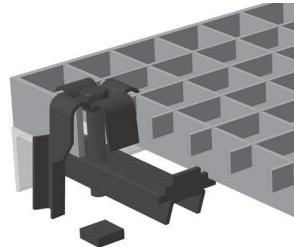
FASTENING METHODS

Design features of grid flooring allow using a wide range of fasteners made of stainless steel. With their help, separate elements of grates are connected and fastened, regardless of their manufacturing technology.

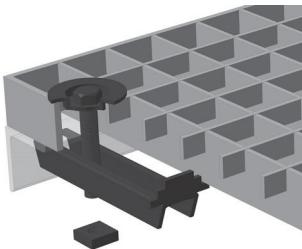
Fastening methods depend on the type of support structures on which the grid flooring is located. If necessary, the load bearing bar is drilled only.



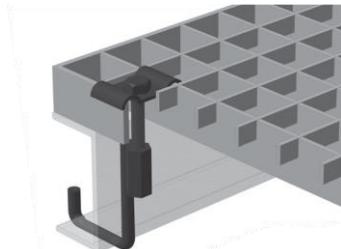
Standard fastening consisting of the upper part of the bracket, the lower part of the clamp, the hex bolt M8x60 and the square nut M8.



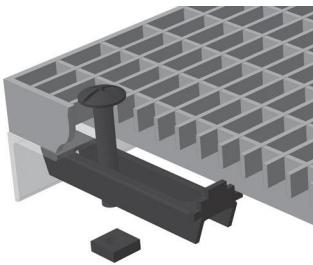
Stop fastening, consisting of the upper part of the stop bracket, the lower part of the clamp, the hex bolt M8 and the square nut.



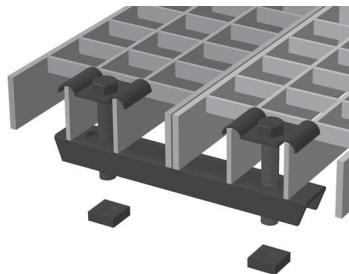
Standard fastening consisting of the upper part of the disc, the lower part of the clamp, the hex bolt M8x60 and the square nut M8.



Fastening with a hook, consisting of the upper part of the bracket or disc, an extended hook of a curved round rod with the long nut in the form of a sleeve welded to it and the hex bolt M8.



Unit clamp to fasten to the mesh 33x11, consisting of the flat-head bolt, the lower part of the clamp and square nut.



Fastening of two grates with double bracket, consisting of 2 upper parts of the brackets or discs, lower part of the clamp, 2 hex bolts M8, 2 square nuts.

Drainage systems class of loading A15-C250

Drainage systems class of loading D400-F900

Drainage systems class of loading F900

Point drainage

Soil conservation and stabilization system

Entrance dirt-guard systems

Multi-purpose grid flooring



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