

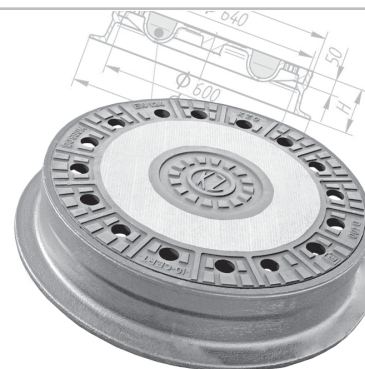
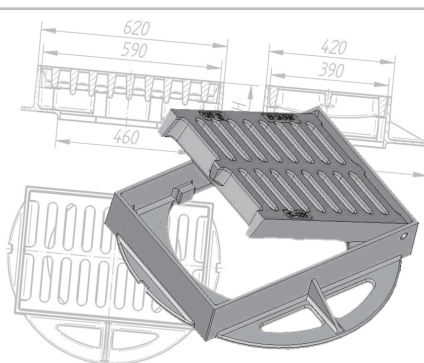
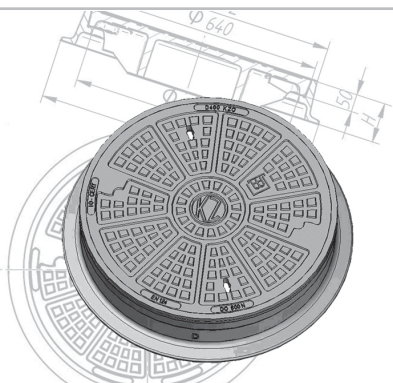


KONECKIE
ZAKŁADY
ODLEWNICZE S.A.

*Sewage
castings*

Product Catalogue

Sewage Castings





KONECKIE
ZAKŁADY
ODLEWNICZE S.A.

*Quality
is our priority!*

Dear Customer,

Grey iron castings were manufactured in Końskie already in 19th century.

Throughout the years, the skills and knowledge of production techniques were systematically acquired and developed. Currently, **KZO S.A.** is a modern and fast developing joint stock company, investing in the newest technologies, highly qualified employees and EPR-Systems.

For decades, cast iron products under **KZO** brand have been and are used in the largest road & infrastructure investments in Europe. In Warsaw, Rome, Vienna, Berlin, Amsterdam, Brussels or many other cities and towns, **KZO** cast iron products are to be found.

Grey cast iron is one of the most popular materials used in rainwater sewage systems. Thanks to its durability, vibration damping properties and heat abstraction, grey cast iron is indispensable in manufacturing manhole covers, road- and bridge point drainages, street boxes and many other.

If you are looking for an unforgettable eye catcher for your city or town, we offer you individually designed and manufactured manhole covers with heraldic arms or as per your specification - see also page 18.

KZO noticed already a positive feedback after privatisation process, started in October 2011. The new owner, GUSS-EX Ltd., is the largest provider of modern technologies for foundries in Eastern Europe. As a result of already initiated investments exceeding 10 million € in total, **KZO** is continuously modernising its machinery stock to become one of the most modern foundries in Europe.

The winners out of all are you – our Customers!

KZO Management Board

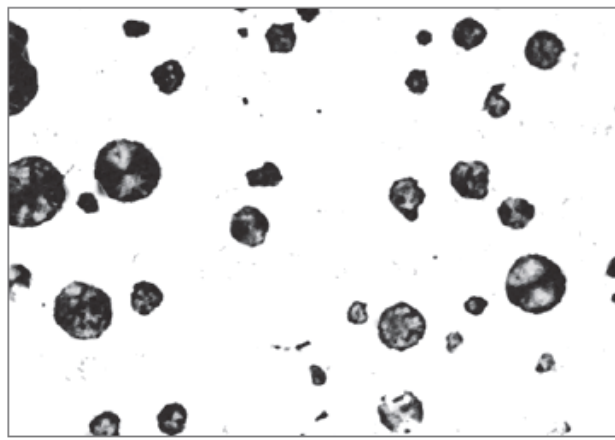
■ CHARACTERISTICS OF CAST IRON

Cast iron is a casting alloy of iron with carbon content exceeding 2%. In building industry, the most commonly used types of cast iron are:

- ✓ grey iron - carbon as a flake graphite
- ✓ ductile iron - carbon as a nodular graphite



Grey iron (flake graphite)



Ductile iron (graphite enclosed in spheres)

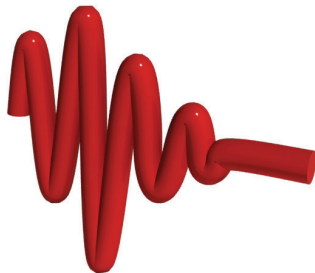
Products of **KZO S.A.** are made of **grey iron**. Compared to ductile iron, it has numerous advantages, which are particularly important in the weather conditions of Europe.

■ ADVANTAGES OF GREY IRON IN ROAD CONSTRUCTION



No transfer of vibrations onto ground:

No microcracks in pavement around grey iron manholes.



High coefficient of vibration damping:

Installation of rubber rings not required (it is necessary for ductile iron manholes).



High resistance to pitting corrosion:

Flake graphite in grey iron prevents pitting of corrosion. It is not necessary to apply coatings.



Larger weight, simple and reliable construction:

Additional elements (clamps) protecting against lifting of covers are not required; long-lasting operation.



Highest durability:

Properties of grey iron make it an excellent material for heavy traffic streets.



Low noise level:

Ensured by high coefficient of vibration damping.



Higher thermal conduction coefficient:

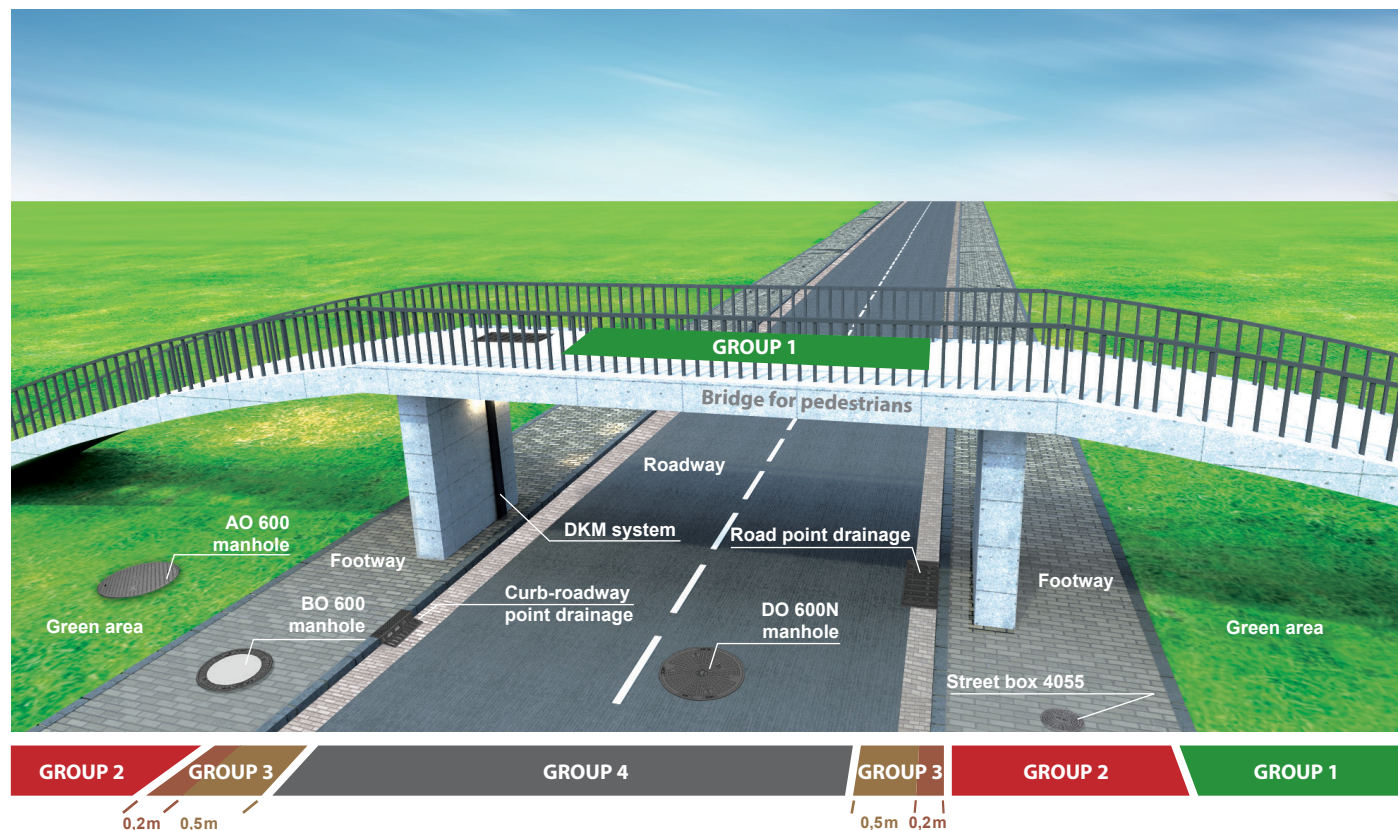
Better and more uniform heat abstraction to surface around the manhole. Prevents from cracking and deformations.



Long-lasting operation:

Ensured by simple and reliable construction

INSTALLATION AREAS OF SPECIFIC CLASSES OF MANHOLES AND POINT DRAINAGES ACCORDING TO THE PN-EN 124:2000 STANDARD



GROUP 1 recommended class for manhole: A15
Surfaces only for pedestrian traffic and cycling.

GROUP 2 min. class B125
Pedestrian ways and areas, equivalent surfaces, car parks or bus stations.

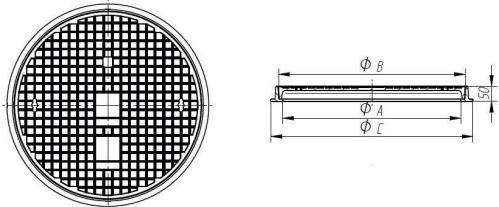
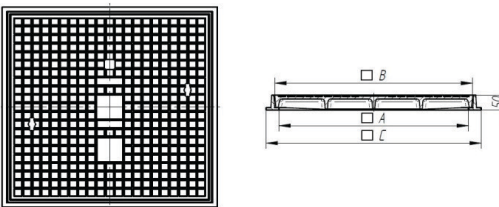
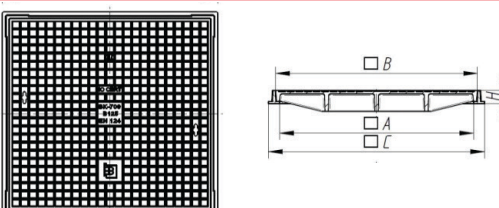
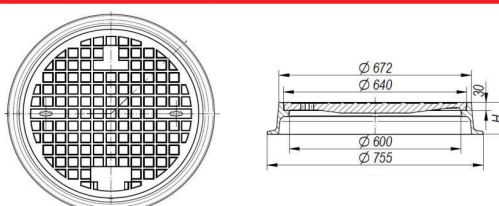
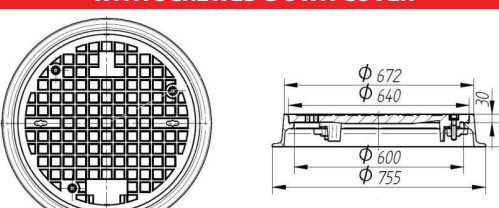
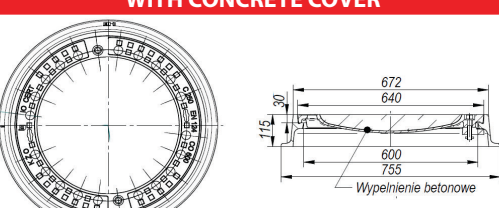
GROUP 3 min. class C250
Only applies to point drainage located next to curbs;
in the area measured from the curb wall, the maximum protrusion towards traffic path is 0.5 m,
and 0.2 m towards footway.

GROUP 4 min. class D400
Roadways (also foot/vehicle traffic ways) and parking areas for all types of road vehicles.

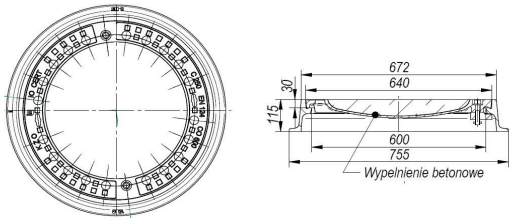
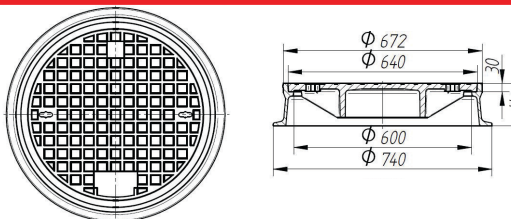
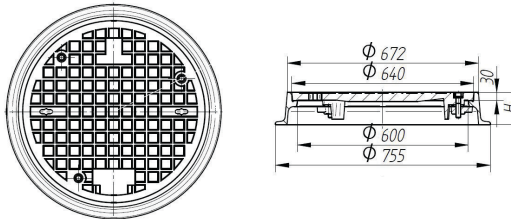
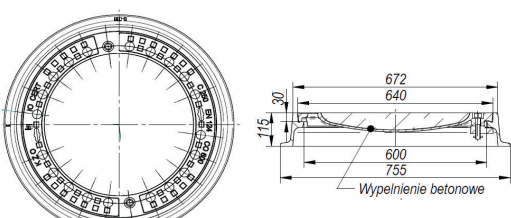
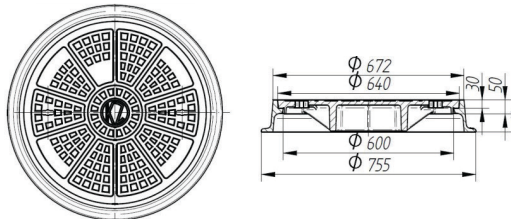
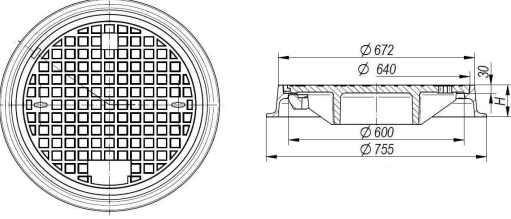
GROUP 5 min. class E600
Surfaces subject to large loads from wheels, e.g. loading platforms, runways.

GROUP 6 min. class F900
Surfaces subject to excessive loads from wheels, e.g. airports.

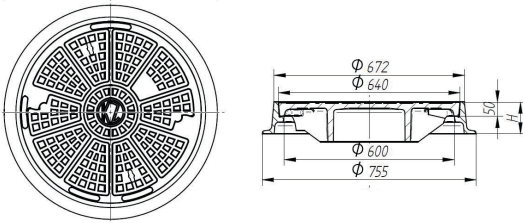
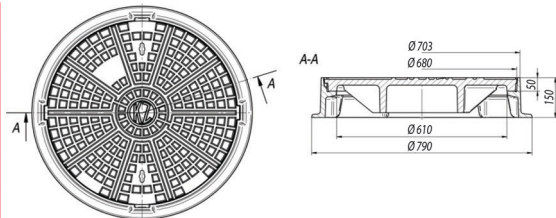
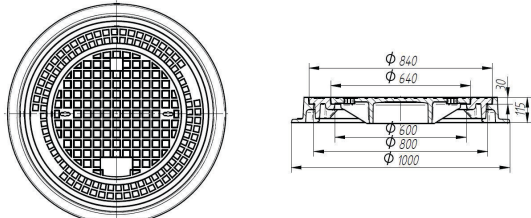
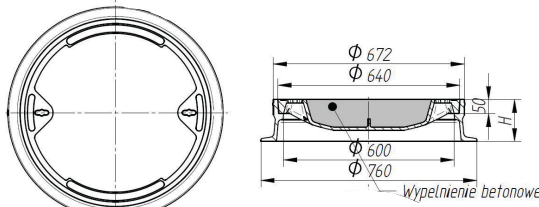
MANHOLE COVERS

ROUND MANHOLE, CLASS A15		Cover type	Index no	A	B	Load [kN]	Weight [kg]
	AO 400	201-1000-000	400	428	15	21	
	AO 500	201-1100-000	500	528	15	30	
	AO 600	201-1200-000	600	628	15	36	
	AO 700	201-1300-000	700	728	15	55	
	AO 800	201-1400-000	800	828	15	72	
SQUARE MANHOLE, CLASS A15		Cover type	Index no	A	B	Load [kN]	Weight [kg]
	AK 400	201-0000-000	400	427	15	28	
	AK 500	201-0100-000	500	527	15	43	
	AK 600	201-0200-000	600	627	15	52	
	AK 700	201-0300-000	700	728	15	67	
SQUARE MANHOLE, CLASS B125		Cover type	Index no	A	B	Load [kN]	Weight [kg]
	BK 700	202-1210-000	700	728	125	78	
	BK 800	202-1010-000	800	828	125	108	
	BK 800 ventilated cover	202-1110-000	800	828	125	108	
MANHOLE, CLASS B125		Cover type	Index no	Load [kN]	Weight [kg]		
	BO 600 H45 disc cover	202-0313-000	125	67			
	BO 600 H45 ribbed cover	202-0300-000	125	62			
	BO 600 H115 disc cover	202-0020-000	125	86			
	BO 600 H115 ribbed cover	202-0010-000	125	81			
	BO 600 H150 disc cover	202-0000-000	125	89			
	BO 600 H150 ribbed cover	202-0001-000	125	84			
MANHOLE, CLASS B125 WITH SCREWED DOWN COVER		Cover type	Index no	Load [kN]	Weight [kg]		
	BO 600 H115 screwed down cover	202-0200-000	125	93			
	BO 600 H150 screwed down cover	202-0011-000	125	96			
MANHOLE, CLASS B125 WITH CONCRETE COVER		Cover type	Index no	Load [kN]	Weight [kg]		
	BO 600 H45	202-0200-000	125	66			
	BO 600 H45 ventilated cover	202-0011-000	125	65			
	BO 600 H115	202-0330-000	125	85			
	BO 600 H115 ventilated cover	202-0350-000	125	84			
	BO 600 H115 screwed down cover	202-0360-000	125	86			
	BO 600 H115 ventilated cover, screwed down	202-0370-000	125	87			

MANHOLE COVERS

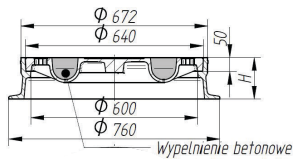
MANHOLE, CLASS B125 WITH CONCRETE COVER	Cover type	Index no	Load [kN]	Weight [kg]
	BO 600 H150	202-0320-000	125	89
	BO 600 H150 ventilated cover	202-0340-000	125	88
MANHOLE, CLASS C250	Cover type	Index no	Load [kN]	Weight [kg]
	CO 600 H115 disc cover	203-0040-000	250	95
	CO 600 H115 ribbed cover	203-0050-000	250	107
	CO 600 H150 disc cover	203-0000-000	250	98
	CO 600 H150 ribbed cover	203-0000-000	250	111
MANHOLE, CLASS C250 WITH SCREWED DOWN COVER	Cover type	Index no	Load [kN]	Weight [kg]
	CO 600 H115 disc cover, screwed down	203-0210-000	250	101
	CO 600 H115 ribbed cover, screwed down	203-0061-000	250	109
	CO 600 H150 ribbed cover, screwed down	203-0310-000	250	114
MANHOLE, CLASS C250 WITH CONCRETE COVER	Cover type	Index no	Load [kN]	Weight [kg]
	CO 600 H115	203-0431-000	250	85
	CO 600 H115 screwed down cover	203-0460-000	250	87
	CO 600 H115 ventilated cover	203-0450-000	250	87
	CO 600 H115 ventilated cover, screwed down	203-0470-000	250	87
	CO 600 H150	203-0430-000	250	88
	CO 600 H150 ventilated cover	203-0440-000	250	91
	CO 600 H150 ventilated cover, screwed down	203-0445-000	250	92
MANHOLE, CLASS D400 - 30/50	Cover type	Index no	Load [kN]	Weight [kg]
	DO 600 H115	204-0296-000	400	100
	DO 600 H150	204-0295-000	400	104
	DO 600 H150 ventilated cover	204-0270-000	400	123
	DO 600 H115 screwed down cover	204-0298-000	400	102
	DO 600 H150 screwed down cover	204-0297-000	400	105
MANHOLE, CLASS D400 WITH FASTENING LOCK	Cover type	Index no	Load [kN]	Weight [kg]
	DO 600 H115	204-0600-000	400	127
	DO 600 H115 ventilated cover	204-0610-000	400	127
	DO 600 H150	204-0611-000	400	131
	DO 600 H150 ventilated cover	204-0612-000	400	131

MANHOLE COVERS

MANHOLE, CLASS D400		Cover type	Index no	Load [kN]	Weight [kg]
		DO 600 H115	204-0290-000	400	126
		DO 600 H115 screwed down cover	204-0291-000	400	128
		DO 600 H115 ventilated cover	204-0293-000	400	125
		DO 600 H115 ventilated cover, screwed down	204-0292-000	400	132
		DO 600 H150	204-0220-000	400	131
		DO 600 H150 screwed down cover	204-0260-000	400	133
		DO 600 H150 ventilated cover	204-0240-000	400	130
		DO 600 H150 ventilated cover, screwed down	204-0250-000	400	132
MANHOLE DO 600 "EN 124"		Cover type	Index no	Load [kN]	Weight [kg]
		DO 600 EN 124 H150	274-0200-000	400	136
		DO 600 EN 124 H150 with damping pad	274-0300-000	400	136
MANHOLE DN800, CLASS B125, C250, D400		Cover type	Index no	Load [kN]	Weight [kg]
		BO 800 H115 disc cover	202-1000-000	125	203
		BO 800 H115 ribbed cover	202-1001-000	125	198
		BO 800 H115 screwed down cover	202-1300-000	125	209
		CO 800 H115 disc cover	203-2000-000	250	212
		CO 800 H115 screwed down cover	203-2200-000	250	218
		CO 800 H115 cover with fastening lock	203-2300-000	250	224
		DO 800 H115 screwed down cover	204-2100-000	400	244
		DO 800, H 115 30/50 cover	204-2300-000	400	234
		DO 800, H115 ribbed cover, with fastening lock	204-2400-000	400	245
		DO 800, H115 30/50 ribbed cover	204-2500-000	400	217
		DO 800, H115 30/50 ventilated cover	204-2600-000	400	237
		DO 800, H115 ventilated cover with fastening lock	204-2700-000	400	244
		DO 800, H115 ribbed cover 30/50, screwed down	204-2800-000	400	218
MANHOLE, CLASS D400 WITH CONCRETE COVER		Cover type	Index no	Load [kN]	Weight [kg]
		DO 600 H115	204-0800-000	400	116
		DO 600 H150	204-0700-000	400	121

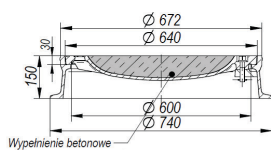
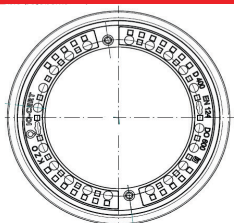
MANHOLE COVERS

MANHOLE, CLASS D400 WITH CONCRETE COVER WITH LOGO



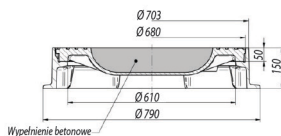
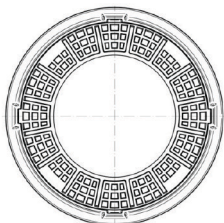
Cover type	Index no	Load [kN]	Weight [kg]
DO 600 H115	204-1800-000	400	117
DO 600 H150	204-1700-000	400	122
DO 600 H150 ventilated cover	204-1720-000	400	119
DO 600 H115 ventilated cover	204-1825-000	400	114
DO 600 H115 screwed down cover	204-1815-000	400	119
DO 600 H115 ventilated cover, screwed down	204-1810-000	400	116
DO 600 H115 screwed down cover	204-1710-000	400	124
DO 600 H115 ventilated cover, screwed down	204-1730-000	400	121

MANHOLE, CLASS D400 WITH SCREWED DOWN CONCRETE COVER



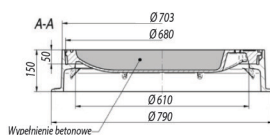
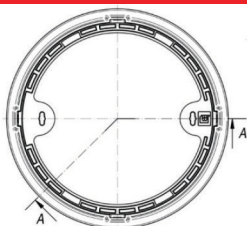
Cover type	Index no	Load [kN]	Weight [kg]
DO 600 H115	204-1950-000	400	109
DO 600 H115 ventilated cover	204-1960-000	400	107
DO 600 H150	204-1900-000	400	113
DO 600 H150 ventilated cover	204-1910-000	400	110

MANHOLE DO 600 "EN 124" WITH CONCRETE COVER



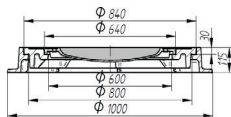
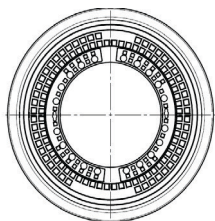
Cover type	Index no	Load [kN]	Weight [kg]
DO 600 EN 124 H150	274-0400-000	400	145
DO 600 EN 124 H150 ventilated cover	274-0500-000	400	143
DO 600 EN 124 H150 ventilated cover with damping pad	274-0510-000	400	143
DO 600 EN 124 H150 with damping pad	274-0410-000	400	145
DO 600 EN 124 H150 screwed down cover	274-0430-000	400	146
DO 600 EN 124 H150 screwed down cover with damping pad	274-0420-000	400	146

MANHOLE DO 600 "EN 124" WITH CONCRETE COVER



Cover type	Index no	Load [kN]	Weight [kg]
DO 600 EN 124 H150	274-0400-600	400	124
DO 600 EN 124 H150 with damping pad	274-0410-600	400	130
DO 600 EN 124 H150 screwed down cover	274-0430-600	400	125
DO 600 EN 124 H150 screwed down cover with damping pad	274-0420-600	400	125

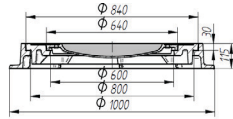
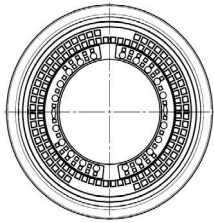
MANHOLE DN 800, CLASS B125, C250 AND D400 WITH CONCRETE COVER



Cover type	Index no	Load [kN]	Weight [kg]
BO 800 H115	202-0380-000	250	202
BO 800 H115 ventilated cover	203-0400-000	250	201
BO 800 H115 screwed down cover	203-0390-000	250	203
BO 800 H115 ventilated cover, screwed down	203-0410-000	250	203
CO 800 H115	202-0480-000	250	202
CO 800 H115 ventilated cover	203-0500-000	250	204
CO 800 H115 screwed down cover	203-0490-000	250	203
CO 800 H115 ventilated cover, screwed down	203-0510-000	250	206
DO 800 H115 screwed down cover	204-1830-000	400	227
DO 800 H115 ventilated cover, screwed down	204-1835-000	400	224

MANHOLE COVERS

MANHOLE DN 800, CLASS B125, C250 AND D400 WITH CONCRETE COVER



Cover type

Index no

Load
[kN]

Weight
[kg]

DO 800 H115 screwed down cover

204-1830-000

400

227

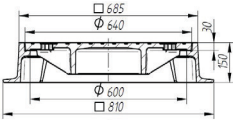
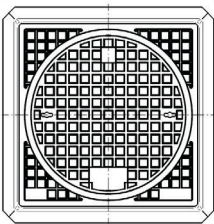
DO 800 H115 ventilated cover, screwed down

204-1835-000

400

224

SQUARE MANHOLES WITH ROUND COVER, CLASS B125, C250 AND D400



Cover type

Index no

Load
[kN]

Weight
[kg]

WKO-B disc cover

202-0030-000

125

141

WKO-B ribbed cover

202-0040-000

125

136

WKO-C disc cover

203-0020-000

250

150

WKO-C ribbed cover

203-0320-000

250

163

WKO-D ribbed cover, screwed down

204-0430-000

125

182

WKO-D disc cover 30/50

204-0440-000

250

173

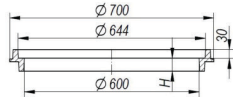
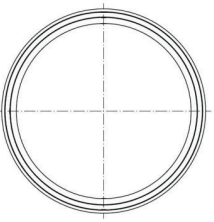
WKO-C ribbed cover 30/50

204-0441-000

250

156

DISTANCE RINGS FOR CLASS B125 - D400 SEWAGE MANHOLES



Cover type

Index no

Load
[kN]

Weight
[kg]

Lifting height H45

205-0000-000

400

25

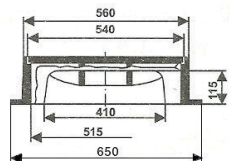
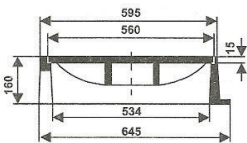
Lifting height H60

205-1000-000

400

30

CURB MANHOLE WITH "G" SIDE INLET



Cover type

Index no

Load
[kN]

Weight
[kg]

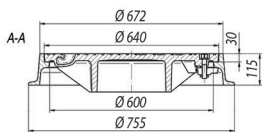
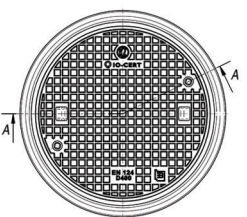
"G" manhole

202-4000-000

150

94,6

CAST IRON "LEAK PROOF" MANHOLE, WITH SCREWED DOWN COVER AND HOLDERS



Cover type

Index no

Load
[kN]

Weight
[kg]

DO 600 H115 "leak proof" screwed down cover with holders

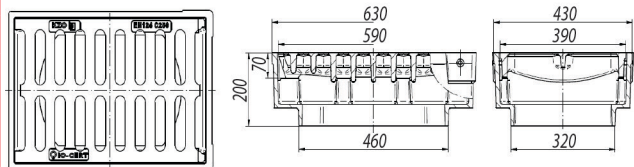
204-0425-000

400

122,0

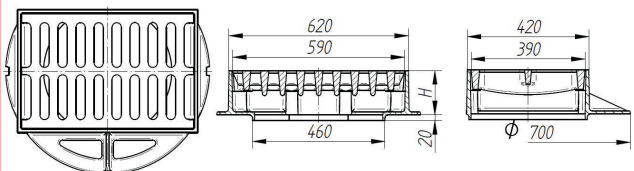
ROAD POINT DRAINAGE

NON-FLANGED POINT DRAINAGE, CLASS C250



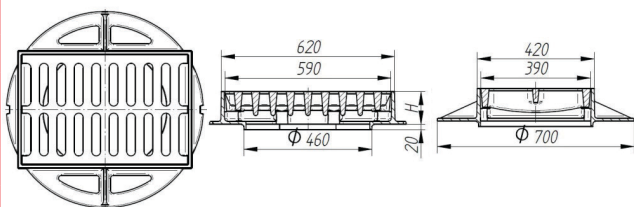
Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
H150	402-1110-000	9,8	250	85
H150 with swing grate	402-1100-000	9,8	250	86

3/4 FLANGED POINT DRAINAGE, CLASS C250



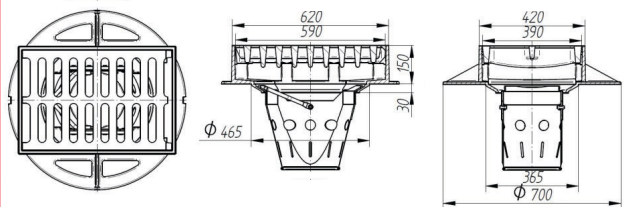
Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
H115	402-4600-000	9,8	250	75
H115 with swing grate	402-4700-000	9,8	250	75
H150	402-1210-000	9,8	250	85
H150 with swing grate	402-1200-000	9,8	250	85

FLANGED POINT DRAINAGE, CLASS C250



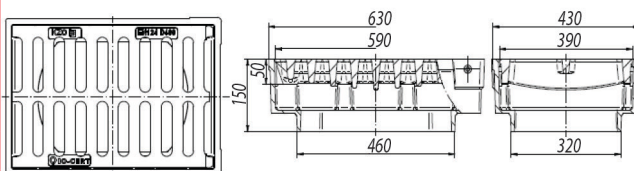
Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
H115	402-4400-000	9,8	250	77
H115 with swing grate	402-4500-000	9,8	250	77
H150	402-1100-000	9,8	250	87
H150 with swing grate	402-1000-000	9,8	250	87

FLANGED POINT DRAINAGE WITH WASTE BASKET, CLASS C250



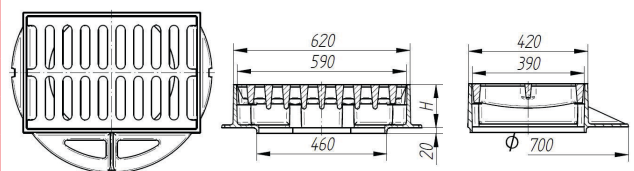
Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
H150	402-5000-000	9,8	250	93
H150 with swing grate	402-5010-000	9,8	250	98
3/4 flange, H150	402-1220-000	9,8	250	88
3/4 flange, H150 with swing grate	402-1230-000	9,8	250	88

NON-FLANGED POINT DRAINAGE, CLASS D400



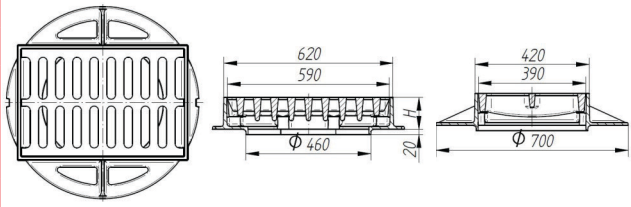
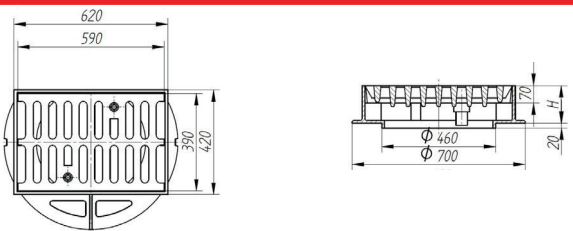
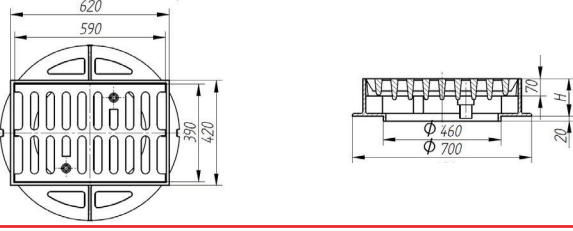
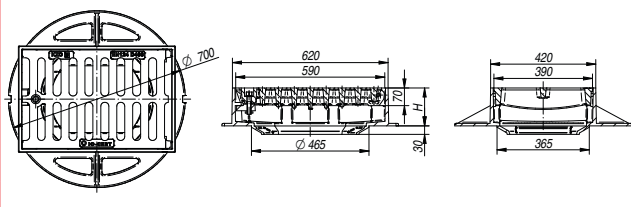
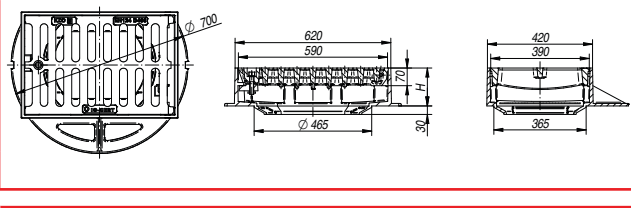
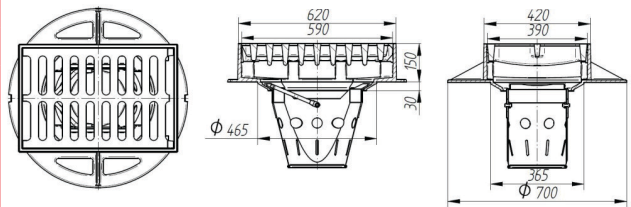
Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
H150	405-1100-500	9,8	400	90
H150 with swing grate	405-1110-500	9,8	400	90

3/4 FLANGED POINT DRAINAGE, CLASS D400

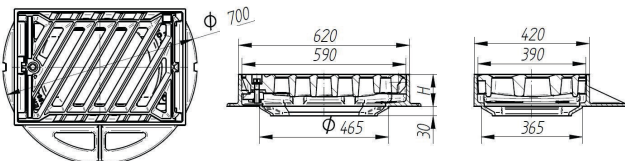
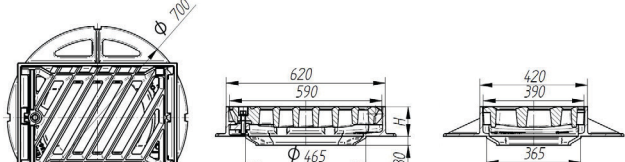
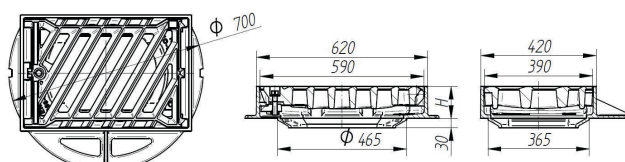
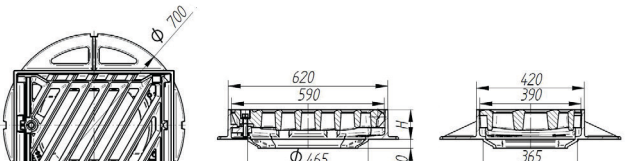
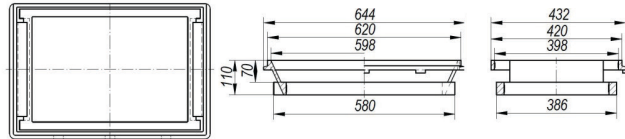
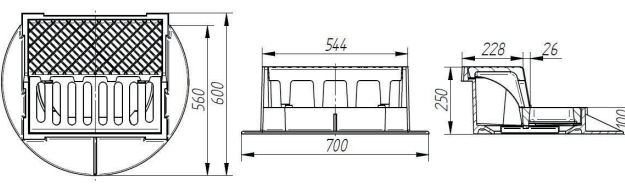


Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
H115	405-4210-500	9,8	400	79
H115 with swing grate	405-9200-500	9,8	400	79
H150	405-1210-500	9,8	400	90
H150 with swing grate	405-9000-500	9,8	400	90

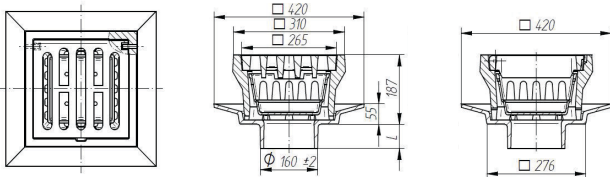
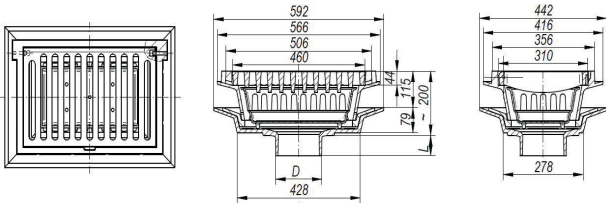
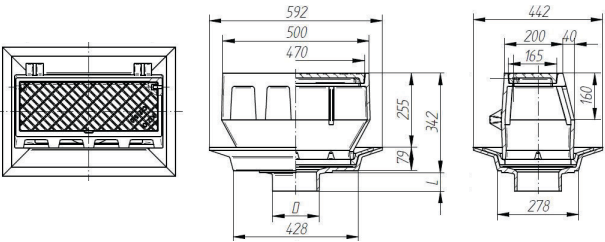
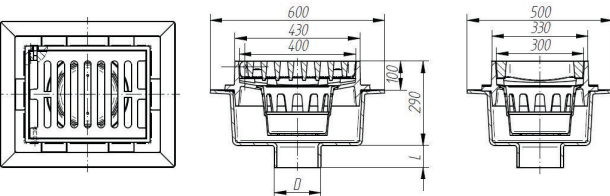
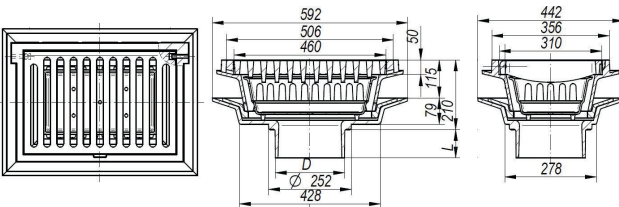
ROAD POINT DRAINAGE

FLANGED POINT DRAINAGE , CLASS D400		Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
		H115	405-4000-500	9,8	400	83
		H115 with swing grate	405-4011-500	9,8	400	83
		H150	405-1000-500	9,8	400	93
		H150 with swing grate	405-1010-500	9,8	400	93
3/4 FLANGED POINT DRAINAGE CLASS D400, INTERLOCKED		Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
		H150	405-9020-500	9,3	400	97
		H115 with swing grate, adjusted to basket	405-1070-560	9,8	400	83
FLANGED POINT DRAINAGE CLASS D400, INTERLOCKED		Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
		H150	405-1020-500	9,3	400	101
FLANGED POINT DRAINAGE, CLASS D400, WITH SWING INTERLOCKED GRATE		Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
		H115	405-1040-550	9,8	400	85
		H115 adjusted to basket	405-1040-500	9,8	400	88
		H150 adjusted to basket	405-1050-500	9,8	400	98
3/4 FLANGED POINT DRAINAGE, CLASS D400, WITH SWING INTERLOCKED GRATE		Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
		H115	405-1070-550	9,8	400	81
		H115 adjusted to basket	405-1070-500	9,8	400	85
		H150 adjusted to basket	405-1060-500	9,8	400	94
FLANGED POINT DRAINAGE, CLASS D400, WITH WASTE BASKET		Point drainage type	Index no	Drainage surface [dm ²]	Load [kN]	Weight [kg]
		H150	405-2000-500	9,8	400	99
		H150 with swing grate	405-2010-500	9,8	400	104
		3/4 flange, H150	405-1220-000	9,8	400	94
		3/4 flange, H150 with swing grate	405-1230-000	9,8	400	94

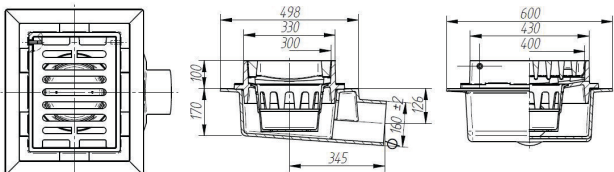
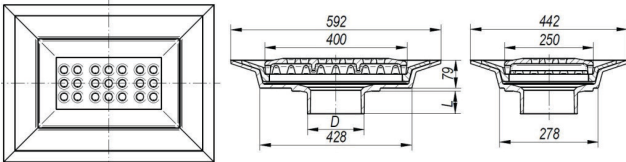
ROAD POINT DRAINAGE

3/4 FLANGED POINT DRAINAGE, TYPE MAX, CLASS C250		Point drainage type	Index no	Drainage surface [dm²]	Load [kN]	Weight [kg]
	H115 with swing grate, interlocked	402-8700-000	10	250	82	
	H150 with swing grate, interlocked	402-8600-000	10	250	91	
FLANGED POINT DRAINAGE, TYPE MAX, CLASS C250		Point drainage type	Index no	Drainage surface [dm²]	Load [kN]	Weight [kg]
	H115 with swing grate, interlocked	402-8800-000	10	250	85	
	H150 with swing grate, interlocked	402-8500-000	10	250	95	
3/4 FLANGED POINT DRAINAGE, TYPE MAX, CLASS D400		Point drainage type	Index no	Drainage surface [dm²]	Load [kN]	Weight [kg]
	H115 with swing grate, interlocked	405-5800-000	10	400	88	
	H150 with swing grate, interlocked	405-5600-000	10	400	97	
FLANGED POINT DRAINAGE, TYPE MAX, CLASS D400		Point drainage type	Index no	Drainage surface [dm²]	Load [kN]	Weight [kg]
	H115 with swing grate, interlocked	405-5700-000	10	400	91	
	H150 with swing grate, interlocked	405-5500-000	10	400	101	
DISTANCE FRAME FOR POINT DRAINAGE, CLASS C250 - D400		Frame type	Index no	Drainage surface [dm²]	Load [kN]	Weight [kg]
	H40	403-0000-000	40	400	24	
CURB-ROADWAY POINT DRAINAGE, CLASS C250		Point drainage type	Index no	Drainage surface [dm²]	Load [kN]	Weight [kg]
	WKJ C250 H250/100	402-9000-000	7,2	250	111	

■ BRIDGE POINT DRAINAGE

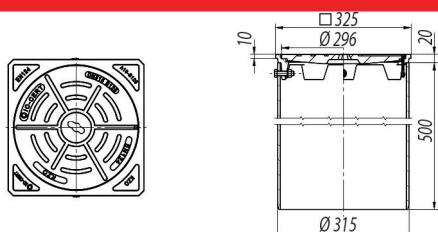
BRIDGE POINT DRAINAGE, CLASS C250 (WM150C)			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	WM 150C L65	402-0110-001			65		2,7	250	54
	WM 150C L350	402-0100-000				350	2,7	250	64
WM1 BRIDGE POINT DRAINAGE, CLASS C250			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	WM1 150C L65	402-0133-000			160	65	6	250	89
	WM1 150C L245	402-0130-000			160	245	6	250	92
	WM1 200C L85	402-0020-000			210	85	6	250	92
	WM1 200C L250	402-0000-000			210	250	6	250	97
BRIDGE CURB POINT DRAINAGE, CLASS C250			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	WMK 150C L65	402-0141-000			160	65	3,7	250	85
	WMK 150C L245	402-0140-000			160	245	3,7	250	88
	WMK 200C L85	402-7100-000			210	85	3,7	250	88
	WMK 200C L250	402-7000-000			210	250	3,7	250	93
WM BRIDGE POINT DRAINAGE, CLASS D400 (WM150)			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	WM 150D L75	405-6100-000			160	75	5	400	104
	WM 150D L245	405-6200-000			160	245	5	400	111
WM1 BRIDGE POINT DRAINAGE, CLASS D400			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	WM1 150D L65	402-0150-001			160	65	6	400	95
	WM1 150D L245	402-0150-000			160	245	6	400	99
	WM1 200D L85	402-0160-001			210	85	6	400	98
	WM1 200D L250	402-0160-000			210	250	6	400	103

■ BRIDGE POINT DRAINAGE

SIDE BRIDGE POINT DRAINAGE, CLASS D400			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	WMB 150D	405-6000-000					5	400	104
RAILWAY BRIDGE POINT DRAINAGE, CLASS B125			Point drainage type	Index no	D [mm]	L [mm]	Drainage surface [dm ²]	Load [kN]	Weight [kg]
	OMK 150 L65	402-3070-000			160	65	1,6	125	49
	OMK 150 L245	402-3060-000			160	245	1,6	125	52
	OMK 200 L85	402-3050-000			210	85	1,6	125	51
	OMK 200 L250	402-3000-000			210	250	1,6	125	56

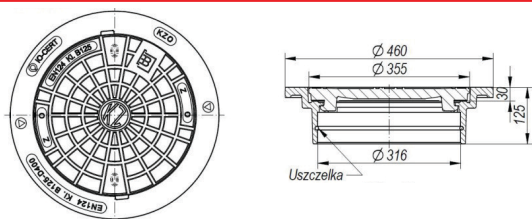
■ COVERS FOR PLASTIC PIPES

SCREWED DOWN SQUARE COVER, FOR ϕ 315 PIPES



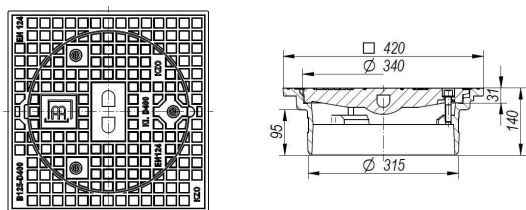
Cover type	Index no	Load [kN]	Weight [kg]
A15 screwed down with 1 bolt	240-0100-000	15	9,9
B125 screwed down with 1 bolt	240-1900-000	125	12,6
A15 screwed down with 1 bolt	2400-0100-010	15	17
B125 screwed down with 1 bolt	2400-1900-010	125	20

ROUND COVER WITH LOCK, FOR ϕ 315 PIPES



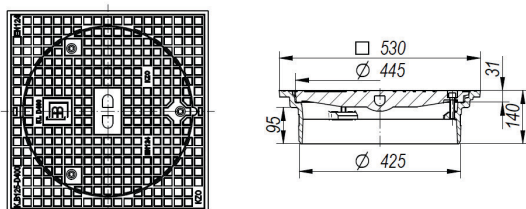
Cover type	Index no	Load [kN]	Weight [kg]
B125 round with lock	202-2020-000	125	40
D400 round with lock	204-3020-000	400	47

SCREWED DOWN SQUARE COVER, FOR ϕ 315 PIPES



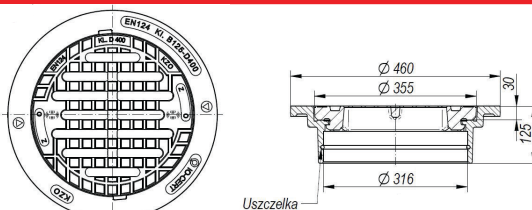
Cover type	Index no	Load [kN]	Weight [kg]
B125 screwed down with 3 bolts	202-2000-000	125	31,5
D400 screwed down with 3 bolts	204-3000-000	400	37,2

SCREWED DOWN SQUARE COVER, FOR ϕ 425 PIPES



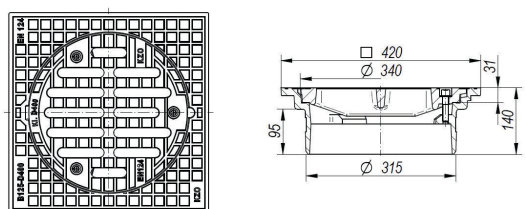
Cover type	Index no	Load [kN]	Weight [kg]
B125 screwed down with 3 bolts	202-3000-000	125	47
D400 screwed down with 3 bolts	204-4000-000	400	53

ROUND INLET WITH LOCK, FOR ϕ 315 PIPES



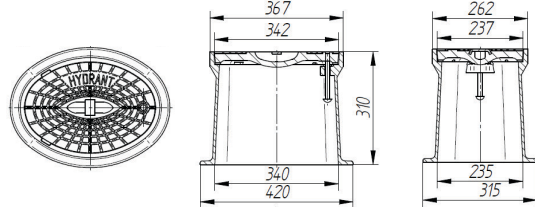
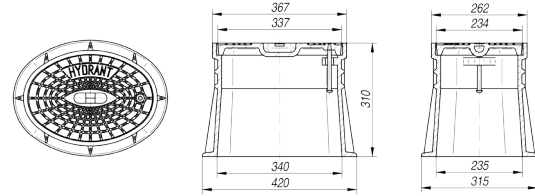
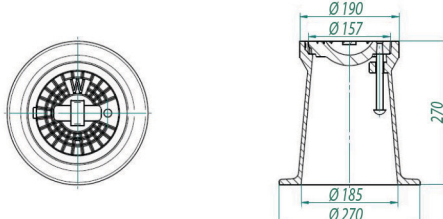
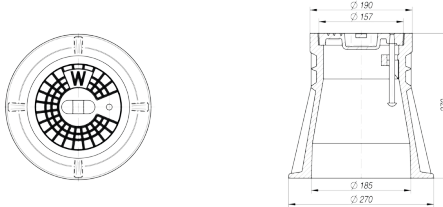
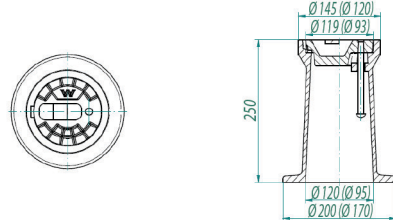
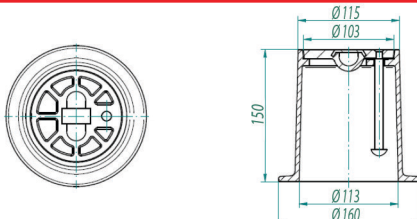
Inlet type	Index no	Load [kN]	Weight [kg]
B125 round with lock	401-2010-000	125	40
D400 round with lock	405-7010-000	400	42,2

ROUND INLET WITH LOCK, FOR ϕ 425 PIPES

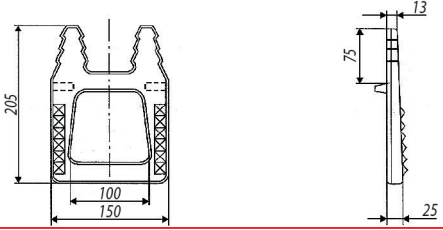
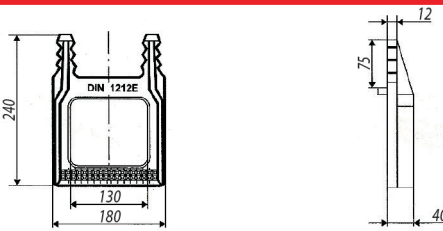
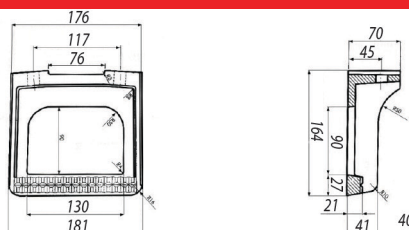
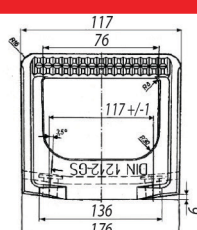
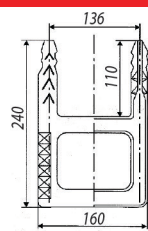
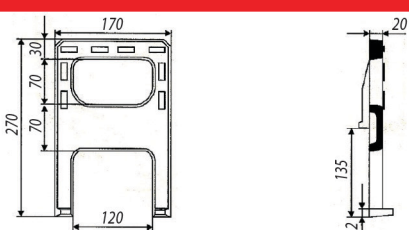


Inlet type	Index no	Load [kN]	Weight [kg]
B125 screwed down with 3 bolts	401-2000-000	125	32,5
D400 screwed down with 3 bolts	405-7000-000	400	35,2

STREET BOXES

STREET BOX 4055		Box type	Index no	Holder/pin material	Weight [kg]
	4055	314-0000-000	stainless steel / steel	26,2	
	DIN 4055/92	314-2000-100	stainless steel	31,0	
STREET BOX 4055 WITH PEHD BODY		Box type	Index no	Holder/pin material	Weight [kg]
	4055	314-8000-000	cast iron / St3S steel	11,2	
STREET BOX 4056		Box type	Index no	Holder/pin material	Weight [kg]
	MOD 4056/38	315-0000-000	stainless steel / steel	11,0	
	DIN 4056/92	315-2000-000	stainless steel	16,4	
	PN-M-74081 BW	315-2000-200	stainless steel	11,0	
STREET BOX 4056 WITH PEHD BODY		Box type	Index no	Holder/pin material	Weight [kg]
	4056	315-8000-000	cast iron / St3S steel	4,2	
STREET BOX 4057		Box type	Index no	Holder/pin material	Weight [kg]
	4057/74	316-1000-000	stainless steel / steel	7,3	
	4057/38	316-0000-000	stainless steel / steel	5,3	
STREET BOX FIG. 149		Box type	Index no	Holder/pin material	Weight [kg]
	Figure 149	330-0000-000	stainless steel / steel	3,5	
	Figure 149	330-0020-000	cast iron/ steel	3,5	

MANHOLE STEPS

DIN 1211	Step type	Index no	Mounting depth [mm]	Construction type	Load [kN]	Weight [kg]
	DIN 1211 E	610-1000-000	75	C*	12	2,3
DIN 1212 E	Step type	Index no	Mounting depth [mm]	Construction type	Load [kN]	Weight [kg]
	DIN 1212 E	610-1100-000	75	D*	12	2,7
D 1212 G	Step type	Index no	Fixing method	Construction type	Load [kN]	Weight [kg]
	D 1212 G	610-2300-000	Screwed down with 2 bolts	D*	12	2,8
DIN 1212 GS	Step type	Index no	Fixing method	Construction type	Load [kN]	Weight [kg]
	DIN 1212 GS	610-2200-000	Screwed down with 2 bolts	D*	12	5,0
ALFA STEP FOR HAMMERING	Step type	Index no	Mounting depth [mm]	Construction type	Load [kN]	Weight [kg]
	ALFA	600-1000-000	110	C*	12	3,3
BETA STEP FOR HAMMERING	Step type	Index no	Mounting depth [mm]	Construction type	Load [kN]	Weight [kg]
	BETA	600-0000-000	135	C*	12	2,9

■ PRODUCTS WITH LOGOS

Products with logos are addressed to Customers who want to establish and promote positive image of their towns, communes or companies. Customers may choose logos, inscriptions, emblems or trademarks and we will place it on a given product.

SANKT PETERSBURG



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Our long-lasting experience in production of **manhole covers with logos** guarantees top quality and unique beauty of the products.

**WATERAND SEWAGE COMPANY
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Our range of **products with logos** comprises several hundred types. We are always happy to provide help and useful advices to our Customers in making the best choice, marking and positioning.

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that



Koneckie Zakłady Odlewnicze S.A.
ul. 1 Maja 57
PL-26-200 Końskie

has established and applies
a Quality Management System for

Production and sales of iron castings.

An audit was performed, Report No. 70062103
Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until 2016-02-25
Certificate Registration No. 12 100 21799 TMS

M. Wegner

Munich, 2013-04-08



QMS-TGA-ZM-07-02

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Rüdigerstraße 65 • 80339 München • Germany

CERTYFIKAT Nr CW - 3

Potwierdzający zgodność wyrobu:

Właz studzienki teleskopowej DN 315 klasa D400
z żeliwa szarego

z wymaganiami:

PN-EN 124:2000

Zwierzenia wpuścić i studzienek kanalizacyjnych do nawierzchni dla ruchu pieszej
Zasady konstrukcji, badania typu, znakowanie, sterowanie jakością

Producent wyrobu:

Koneckie Zakłady Odlewnicze S.A. w Końskich
ul. 1 Maja 57, 26-200 Końskie

Posiadacz certyfikatu:

Koneckie Zakłady Odlewnicze S.A. w Końskich
ul. 1 Maja 57, 26-200 Końskie

Certyfikat został wydany na podstawie wyników:

- audytu przeprowadzonego w dniu 10.09.2010 r. (raport z audytu nr 70062103)
- badań wyrobu wykonanych w Zespole Laboratoriów Badawczych In w Krakowie (raport nr 330/TBS/2010).

Biuro Certyfikacji i Normalizacji:

- dokonało oceny zgodności wyrobu według Programu certyfikacji PI
- oraz sprawuje nadzór nad Posiadaczem certyfikatu zgodnie z Um

Data pierwszej certyfikacji: **07.09.2001 r.**

Data

Prawo do posługiwania się certyfikatem dotyczy wyłącznie wyrobów posiadających
jak wzór przedstawiony do badań i zgodnie z wymaganiami wyżej wymienionego
Szczegółowy zakres certyfikacji określa załącznik będący integralną częścią certyfikatu.

Kierownik
Biura Certyfikacji i Normalizacji
mgr inż. Małgorzata Baldziaszek



Kraków, 4 października 2010 roku



DIN-DVGW-Baumusterprüfzertifikat DIN-DVGW type examination certificate

NW-4530AP1328
Registrierungsnummer
registration number

Anwendungsbereich
field of application

Produkte der Wasserversorgung
products of water supply

Zertifikatinhaber
owner of certificate

Koneckie Zakłady Odlewnicze
Maja 57, PL-26200 Końskie 1

Vertreiber
distributor

HERMANN SCHMIDT KG Import-Export-Werksvertretungen
Zeunerstraße 6, D-45133 Essen-Bredeney

Produktart
product category

Hydranten und Straßenkappen: Straßenkappe und Tragplatte für die
Wasserversorgung (8430)

Produktbezeichnung
product description

Straßenkappe, nicht höhenverstellbar, für Unterflurhydranten in der
Trinkwasserverteilung

Modell
model

DIN 4055-U

Prüfberichte
test reports

Mechanikprüfung: 09/024/4530/930 vom 10.02.2009 (EBI)
Mechanikprüfung: 04/012/4530/930 vom 14.07.2004 (EBI)

Prüfgrundlagen
basis of type examination

DIN 3580 (01.02.1992)

Ablaufdatum / AZ
date of expiry / file no.

31.01.2014 / 09-0056-WNV

11.05.2009 01 A-1/2

Datum, Unterschrift, Name, Platz für die Konformitätsbewertung
date signed by, sheet, place of certification body

DVGW CERT GmbH - von der Deutschen Akkreditierungsstelle Technik (DATech)
in der TGA GmbH akkreditiert für die Konformitätsbewertung von Produkten der
Gas- und Wasserversorgung
DVGW CERT GmbH - accredited by Deutsche Akkreditierungsstelle Technik
(DATech) in the TGA GmbH for conformity assessment of products of gas and
water supply



DAT-ZE-009/96-02

DVGW CERT GmbH
Josef-Wirmer-Straße 1-3
53123 Bonn
Telefon: +49 228 91 88-888
Telefax: +49 228 91 88-993
eMail: info@dvgw-cert.com

CERTYFIKAT Nr CW - 43/11

Potwierdzający zgodność wyrobu:

Właz kanałowy klasa D400
z żeliwa szarego, pokrywa wypełniona betonem

z wymaganiami:

PN-EN 124:2000

Zwierzenia wpuścić i studzienek kanalizacyjnych do nawierzchni dla ruchu pieszego i kołowego.
Zasady konstrukcji, badania typu, znakowanie, sterowanie jakością

Producent wyrobu:

Koneckie Zakłady Odlewnicze S.A. w Końskich
ul. 1 Maja 57, 26-200 Końskie

Posiadacz certyfikatu:

Koneckie Zakłady Odlewnicze S.A. w Końskich
ul. 1 Maja 57, 26-200 Końskie

Certyfikat został wydany na podstawie wyników:

- audytu przeprowadzonego w dniu 15.09.2011 r. (raport z audytu nr 27/2011),
- badań wyrobu wykonanych w Zespole Laboratoriów Badawczych Instytutu Odlewnictwa w Krakowie (raport nr 146/TBS/2011).

Biuro Certyfikacji i Normalizacji:

- dokonało oceny zgodności wyrobu według Programu certyfikacji PC-01,
- oraz sprawuje nadzór nad Posiadaczem certyfikatu zgodnie z Umową nr U/164/2011.

Data pierwszej certyfikacji: **10.05.2005 r.**

Data ważności: **09.05.2014 r.**

Prawo do posługiwania się certyfikatem dotyczy wyłącznie wyrobów posiadających właściwości identyczne
jak wzór przedstawiony do badań i zgodnie z wymaganiami wyżej wymienionego dokumentu odniesienia.
Szczegółowy zakres certyfikacji określa załącznik będący integralną częścią niniejszego certyfikatu.

Kierownik
Biura Certyfikacji i Normalizacji
mgr Elżbieta Balcer

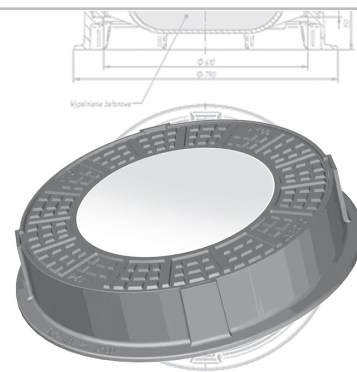
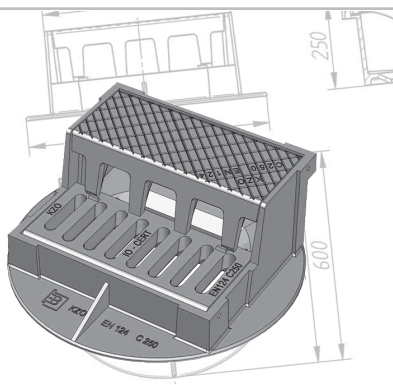
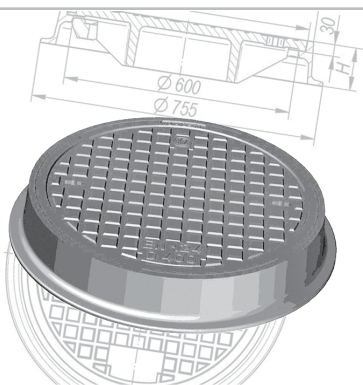


Z-ca Dyrektora
Instytutu Odlewnictwa
dr inż. Józef Tużyński

Kraków, 4 kwietnia 2012 roku

Wydanie 2

www.iob.krakow.pl



Koneckie Zakłady Odlewnicze S.A.
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26-200 Końskie
Poland

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*Quality
is our priority!*