



MANHOLE COVERS ADJUSTMENT RINGS

KASI

LEADING CZECH PRODUCER OF SEWER CAST IRON

KASI, spol. s r.o. was founded in 1992 as an engineering company operating in the field of concrete component production technology. Today, we are one of the most modern European producers of sewer components which we supply to the whole of Central and Eastern Europe.

Our product portfolio includes:

- | manhole covers and inlet gratings
- | adjustment rings and street gullies
- | auxiliary installation material
- | manhole steps
- | accessories for concrete production

We also offer production engineering and technology for the production of concrete components.

INNOVATION AND NEW TECHNOLOGIES ARE OUR DOMAIN

Our development and testing centre is equipped with the latest technology and equipment. Years of experience in product development and production technology constitute the core know-how that we offer our customers. This guarantees product quality and a flexible response to the individual customer requirements. We perform any and all necessary tests of cast-iron and concrete components, as well as plastics and composites, on our in-house equipment. A test polygon with a swivel arm and a multi-tonne load also allows us to test the covers in real operation.

IN-HOUSE FOUNDRY AND CONCRETE PLANT MAKE OUR PRODUCTION INDEPENDENT

Foundries near Nový Bydžov and in Chvaletice, a concrete plant and engineering production in Přelouč make our production independent. The facilities are equipped with the latest production technologies, including automated lines and robotic stations. Covers with custom sign or logo

For towns, sewage system operators and other interested customers we offer casting covers with custom pattern, town symbol, company logo or lettering.





**IN-HOUSE FOUNDRY
AND CONCRETE
PLANT**



**EMPHASIS ON
TECHNOLOGY AND
PRODUCT INNOVATIONS**



**PRODUCT
DEVELOPMENT AND
TESTING**



**AUTOMATED
AND OPTIMISED
PRODUCTION**



**CUSTOMER-
SPECIFIC
SOLUTIONS**

WE RESPOND FLEXIBLY TO CUSTOMER NEEDS

We focus not only on production quality, technology and automation, but also on customer support. We help our clients choose the right product, offer custom-specific solutions, installation and maintenance consultation. We offer covers with the logo of the customer, city or company.

COVERS WITH CUSTOM SIGN OR LOGO

For towns, sewage system operators and other interested customers we offer casting covers with custom pattern, town symbol, company logo or lettering.

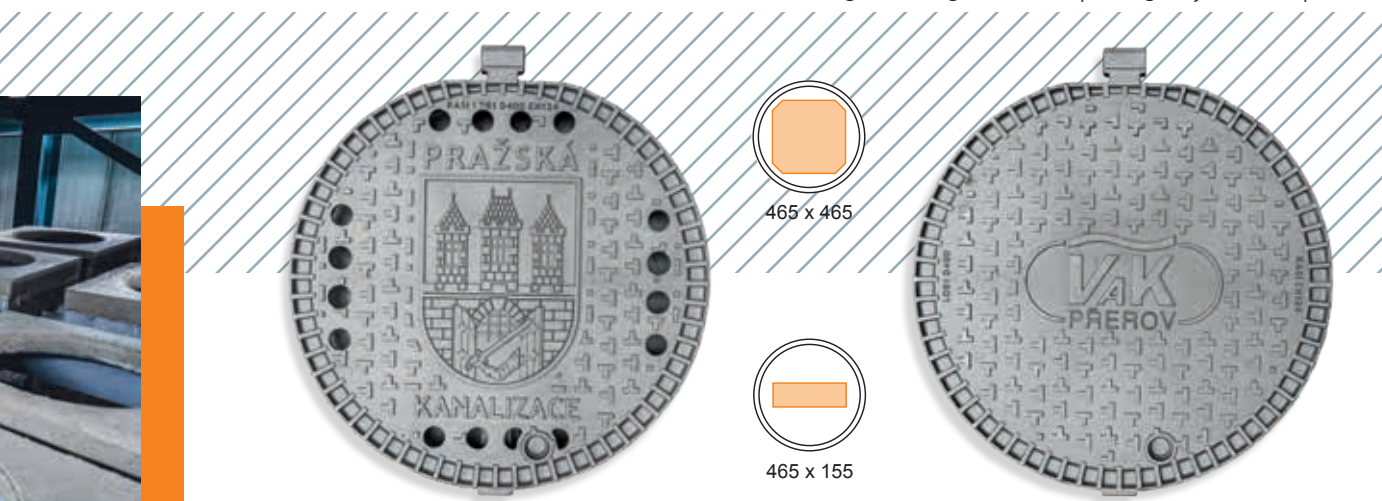
How to order cover with custom pattern

Contact KASI company dealer.

You will receive cover preview including your pattern or text for your confirmation.

After confirmation and ordering the cover will be produced.

Dimensions of exchangeable segments for placing of your own patterns



CORRECT CHOICE OF FRAME TYPE

– BASIC CONDITION FOR LONG WORKING COVER

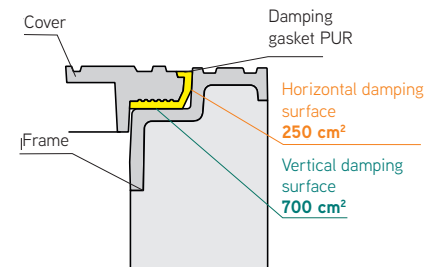
	+	–
Casting frames	Frames are suitable for low traffic places without any heavy vehicles	
	<ul style="list-style-type: none"> easy manipulation low constructional height 	<ul style="list-style-type: none"> flexible frame small support surface cover bed is not fully supported bottom of the frame tears asphalt
Concrete-casting frames	Frames are suitable for normal use with occasional heavy vehicles	
	<ul style="list-style-type: none"> solid, non-flexible frame cover bed is fully supported big support surface similar pricing as casting frames 	<ul style="list-style-type: none"> heavier for manipulation compared to casting frame
Spreading frames	Frames are suitable for main roads with heavy traffic	
	<ul style="list-style-type: none"> makes manhole surroundings more firm transfers dynamics outside of the manhole supports asphalt layers 	<ul style="list-style-type: none"> heavy weight necessary mechanization on construction site
Self-levelling frames	Frames are suitable for any kind of road including the very heavy traffic locations	
	<ul style="list-style-type: none"> not connected to manhole remains in the road level eliminates movements of the road transfers dynamics around the manhole 	<ul style="list-style-type: none"> high quality installation necessary

MANHOLE COVERS **Europa** – NO COMPROMISE

Covers **Europa 9**

– the best of Europa manhole covers

- | Hinged covers with KASI-PUR damping gasket suitable for heavy-traffic locations
- | Improved version of Europa 8 covers
- | PUR gasket with vertical and horizontal damping
- | Increased weight of the covers
- | Minimized clearance of the cover in the frame

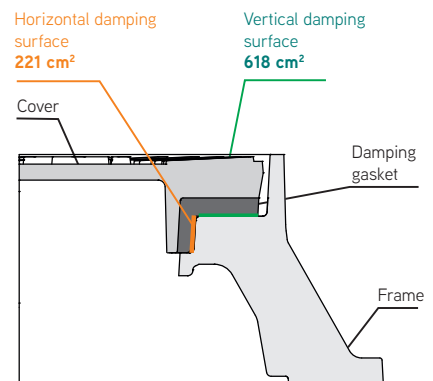


Covers **Europa 8**

– standard type of Europa covers

Cover structure with no compromise = All necessary properties for long-term life

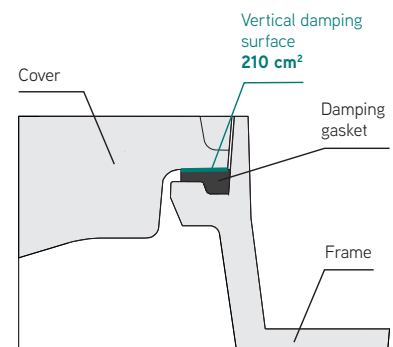
- | Damping of the cover movement in the frame is secured with EPDM gasket resistant to oils, salts and other de-icing materials.
- | The gasket is protected inside of the casting groove against any movement and destruction.
- | New surface „T - design“ decreases cover noise caused by cars driving over and minimalizes the suction effect.
- | Multipoint spring pulls the cover centrally into the frame and minimalizes its movement.
- | Anti-theft protection offers two possibilities:
 - Hinged connection of the cover and the frame with stainless steel.
 - Custom logo of the owner on the cover.
- | Safely locked inspection position at 90° prevents from spontaneous closing.
- | Four kind of frame to choose from (casting, casting-concrete, self-levelling, spreading frames), which can be installed on the standard concrete manholes and also plastic manhole chambers.
- | Frames are suitable for new constructions as well as reconstructions.



Covers **Europa 7**

– good solution for low-traffic locations

- | **Covers Europa 7 are not suitable for locations with heavy traffic.**
- | Ductile casting cover with spring securing.
- | Vertical damping of the cover movement in the frame is secured with PUR gasket resistant to oils, salts and other de-icing materials.
- | Anti-theft protection offers two possibilities:
 - Hinged connection of the cover and the frame with stainless steel.
 - Custom logo of the owner on the cover.
- | Safely locked inspection position at 90° prevents from spontaneous closing.



Manhole covers class E600 EUROPA

Recommendation:

Even though we offer you high use qualities in EUROPA product line, we recommend to choose class E600 covers for lanes with a lot of traffic and often heavy truck driveovers (e.g. 1st. class roads, cross-roads, highway driving lanes).





You will get increased cover weight and rigidity and resistance to elastic deformations with price increase not exceeding 10 % of class D400 cover.









Europa 9

The best of Europa manhole covers



Frames







JERB9		JERA9		JERI9		JERJ9	
Casting-concrete frame		Casting-concrete frame		Concrete collar frame 1000 mm		Concrete collar frame 1000 mm	
		with dirt-trap embedding				Sosažením pro lapač	

Covers	LD91		Cover D400, non-ventilated	KDB91B	KDA91B	KDI91B	KDJ91B
	LD92		Cover D400, ventilated	KDB92B	KDA92B	KDI92B	KDJ92B
	LD95		Cover D400, non-ventilated Silent design	KDB95B	KDA95B	KDI95B	KDJ95B
	LD96		Cover D400, ventilated Silent design	KDB96B	KDA96B	KDI96B	KDJ96B
	LE91		Cover E600, non-ventilated	KEB91B	KEA91B	KEI91B	KEJ91B
	LE92		Cover E600, ventilated	KEB92B	KEA92B	KEI92B	KEJ92B
	LE95		Cover E600, non-ventilated Silent design	KEB95B	KEA95B	KEI95B	KEJ95B
	LE96		Cover E600, ventilated Silent design	KEB96B	KEA96B	KEI96B	KEJ96B



Manhole covers Europa 9

- | Cover with PUR damping gasket
- | Almost zero clearance of the cover in the frame
- | Suitable for heavy-traffic locations

JERG9		JERH9		LDRL9		LDRK9		LERM9		LERN9		Load class
Concrete collar frame 1200 mm		Concrete collar frame 1200 mm		Casting frame		Casting frame		Self-levelling frame		Self-levelling frame		
		with dirt-trap embedding				with dirt-trap embedding				with dirt-trap embedding		
KDG91B		KDH91B		KDL91B		KDK91B		KDM91B		KDN91B		D400
KDG92B		KDH92B		KDL92B		KDK92B		KDM92B		KDN92B		
KDG95B		KDH95B		KDL95B		KDK95B		KDM95B		KDN95B		
KDG96B		KDH96B		KDL96B		KDK96B		KDM96B		KDN96B		
KEG91B		KEH91B						KEM91B		KEN91B		E600
KEG92B		KEH92B						KEM92B		KEN92B		
KEG95B		KEH95B						KEM95B		KEN95B		
KEG96B		KEH96B						KEM96B		KEN96B		



Europa 9

Silent design

- | Optimized surface design for silent drive over
- | Increased weight of the cover protects from dynamics
- | Covers LD95, LD96, LE95 and LE96

Europa 8

Standard type of Europa covers









				Frames			
				JERB8	JERA8	JERI8	JERJ8
				Casting-concrete frame	Casting-concrete frame	Concrete collar frame 1000 mm	Concrete collar frame 1000 mm
					with dirt-trap embedding		Sosazením pro lapač
Covers	LD81		Cover D400, non-ventilated	KDB81B	KDA81B	KDI81B	KDJ81B
	LD82		Cover D400, ventilated	KDB82B	KDA82B	KDI82B	KDJ82B
	LD8M		Round grating D400	KDB8MB	KDA8MB	KDI8MB	KDJ8MB
	LE81		Cover E600, non-ventilated	KEB81B	KEA81B	KEI81B	KEJ81B
	LE82		Cover E600, ventilated	KEB82B	KEA82B	KEI82B	KEJ82B
	LE8M		Round grating E600	KEB8MB	KEA8MB	KEI8MB	KEJ8MB





Europa 7

Good solution for low-traffic locations



				Frames			
						JDRJ7	JDRJ7
						Concrete collar frame	Concrete collar frame
							Sosazením pro lapač
Covers	LD71		Cover D400, non-ventilated			KDI71B	KDJ71B
	LD72		Cover D400, ventilated			KDI72B	KDJ72B
	LD7M		Round grating D400			KDI7MB	KDJ7MB
	LC71		Cover C250, non-ventilated			KCI71B	KCJ71B
	LC72		Cover C250, ventilated			KCI72B	KCJ72B
	LC7M		Round grating C250			KCI7MB	KCJ7MB
	LB71		Cover B125, non-ventilated			KBI71B	KBJ71B
	LB72		Cover B125, ventilated			KBI72B	KBJ72B
	LB7M		Round grating B125			KBI7MB	KBJ7MB

JERG8		JERH8		LDRL8		LDRK8		LERM8		LERN8		Load class
Concrete collar frame 1200 mm		Concrete collar frame 1200 mm		Casting frame		Casting frame		Self-levelling frame		Self-levelling frame		
		with dirt-trap embedding				with dirt-trap embedding				with dirt-trap embedding		
KDG81B		KDH81B		KDL81B		KDK81B		KDM81B		KDN81B		D400
KDG82B		KDH82B		KDL82B		KDK82B		KDM82B		KDN82B		
KDG8MB		KDH8MB		KDL8MB		KDK8MB		KDM8MB		KDN8MB		
KEG81B		KEH81B						KEM81B		KEN81B		E600
KEG82B		KEH82B						KEM82B		KEN82B		
KEG8MB		KEH8MB						KEM8MB		KEN8MB		

JDRG7		JDRH7		LDRL7		LDRK7					Load class
Concrete collar frame		Concrete collar frame		Casting frame		Casting frame					
		with dirt-trap embedding				with dirt-trap embedding					
KDG71B		KDH71B		KDL71B		KDK71B					D400
KDG72B		KDH72B		KDL72B		KDK72B					
KDG7MB		KDH7MB		KDL7MB		KDK7MB					
KCG71B		KCH71B		KCL71B		KCK71B					C250
KCG72B		KCH72B		KCL72B		KCK72B					
KCG7MB		KCH7MB		KCL7MB		KCK7MB					
KBG71B		KBH71B		KBL71B		KBK71B					B125
KBG72B		KBH72B		KBL72B		KBK72B					
KBG7MB		KBH7MB		KBL7MB		KBK7MB					

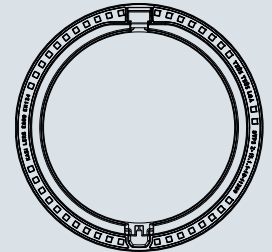
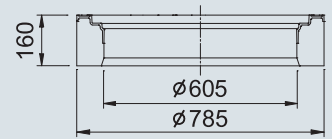
JER B8 / JER B9



Casting-concrete frame

Material:	casting, concrete
Weight:	81 kg
Standard:	EN124-2
Load class:	E600
Packing:	10 pcs/pal

Europa 8



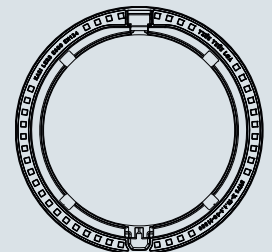
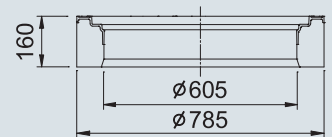
JER A8 / JER A9



Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	81 kg
Standard:	EN124-2
Load class:	E600
Packing:	10 pcs/pal

Europa 8

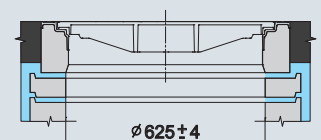


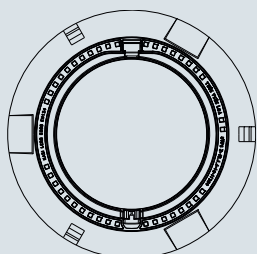
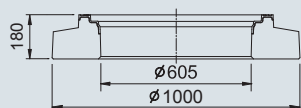
Frame description:

- Combination of casting and concrete.
- Gasket from EPDM resistant to oils and salts in the cover.
- Frame height 160 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- We suggest this as a standard solution for common use.

Installation:

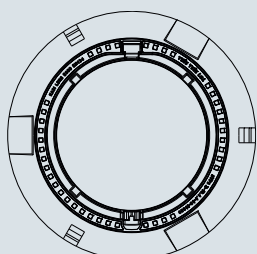
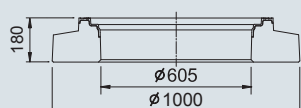
- Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.





Concrete collar frame 1000 mm

Material:	casting, concrete
Weight:	154 kg
Standard:	EN124-2
Load class:	E600
Packing:	6 pcs/pal



Concrete collar frame 1000 mm with dirt-trap embedding

Material:	casting, concrete
Weight:	154 kg
Standard:	EN124-2
Load class:	E600
Packing:	6 pcs/pal

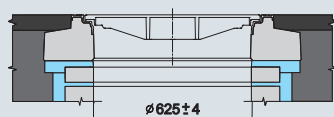


Frame description:

- Combination of casting and concrete.
- Gasket from EPDM resistant to oils and salts in the cover.
- Frame with outer diameter 1000 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

Installation:

- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



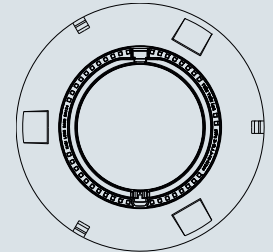
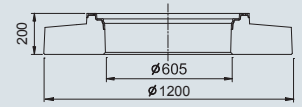
JER G8 / JER G9

Europa 8



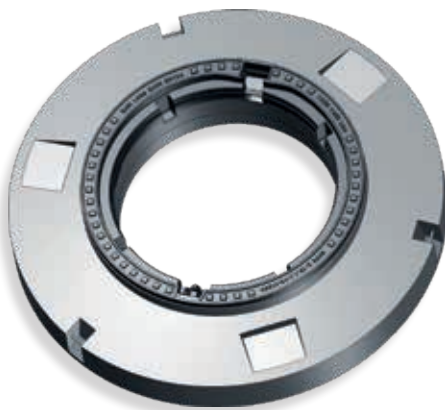
Concrete collar frame 1200 mm

Material:	casting, concrete
Weight:	265 kg
Standard:	EN124-2
Load class:	E600
Packing:	5 pcs/pal



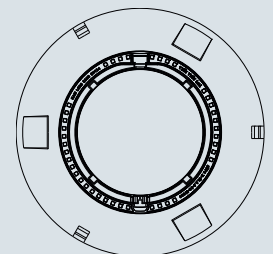
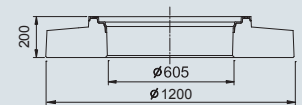
JER H8 / JER H9

Europa 8



Concrete collar frame 1200 mm with dirt-trap embedding

Material:	casting, concrete
Weight:	265 kg
Standard:	EN124-2
Load class:	E600
Packing:	5 pcs/pal

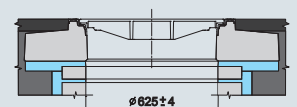


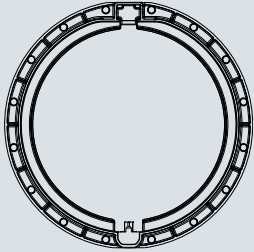
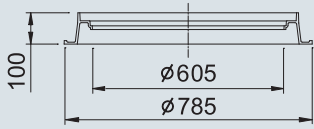
Frame description:

- Combination of casting and concrete.
- Gasket from EPDM resistant to oils and salts in the cover.
- Frame with outer diameter 1200 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

Installation:

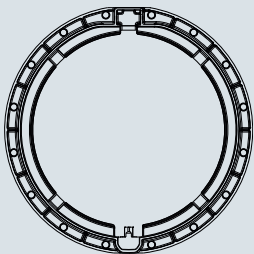
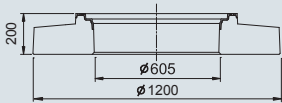
- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.





Casting frame

Material:	casting
Weight:	22 kg
Standard:	EN124-2
Load class:	D400
Packing:	16 pcs/pal



Casting frame with dirt-trap embedding

Material:	casting
Weight:	23 kg
Standard:	EN124-2
Load class:	D400
Packing:	16 pcs/pal

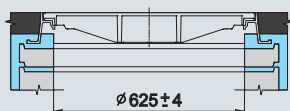


Frame description:

- Casting L-shaped frame.
- Gasket from EPDM resistant to oils and salts in the cover.
- Frame height 100 mm is suitable for installation into almost any location.
- As small checking holes as possible provides as large bottom contact surface as possible so the destruction of the cement connections and concrete elements is reduced.
- This type of frame is not suitable for heavy-traffic.
- We suggest this frame as an emergency solution for locations where no other type of frame can fit!

Installation:

- Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



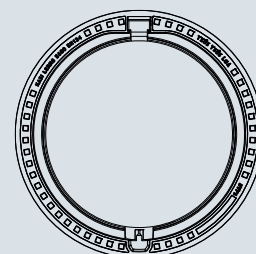
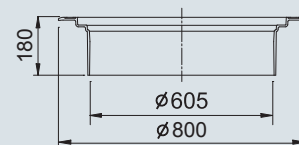
LERM8 / LERM9

Europa 8



Casting frame

Material:	Casting
Weight:	31 kg
Standard:	EN124-2
Load class:	E600
Packing:	14 pcs/pal



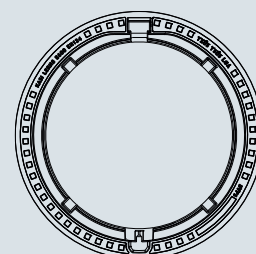
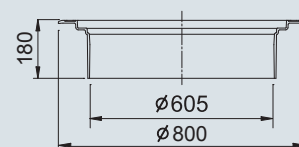
LERN8 / LERN9

Europa 8



Casting frame with dirt-trap embedding

Material:	casting
Weight:	32 kg
Standard:	EN124-2
Load class:	E600
Packing:	14 pcs/pal

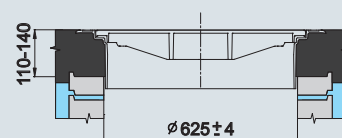


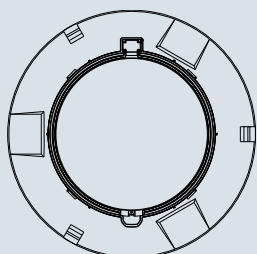
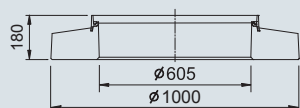
Frame description:

- | Casting self-levelling (floating) frame.
- | Gasket from EPDM resistant to oils and salts in the cover.
- | No counterpart (guide ring) necessary the frames moves inside of the adjustment ring.
- | The frame is not firmly attached to the manhole. It can move altogether with top layer of the road. This prevents from asphalt being teared away from the frame creating cracks.
- | Self-levelling provides smooth drive-overs for cars.
- | We suggest this frame as the most suitable solution for locations with the heaviest traffic!

Installation:

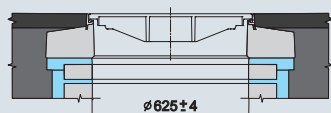
- | The frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring.
- | The frame must be installed into highly compacted asphalt to prevent its decreasing during operation.





Concrete collar frame

Material:	casting, concrete
Weight:	145 kg
Standard:	EN124-2
Load class:	D400
Packing:	6 pcs/pal



Frame description:

- Combination of casting and concrete.
- Gasket from PUR resistant to oils and salts in the frame.
- Frame with outer diameter 1000 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

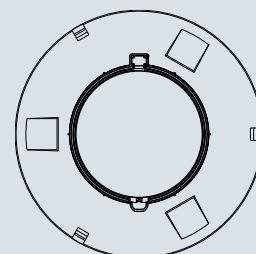
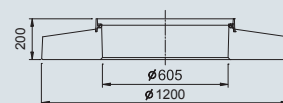
Installation:

- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



Concrete collar frame

Material:	casting, concrete
Weight:	265 kg
Standard:	EN124-2
Load class:	D400
Packing:	5 pcs/pal

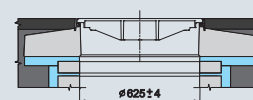


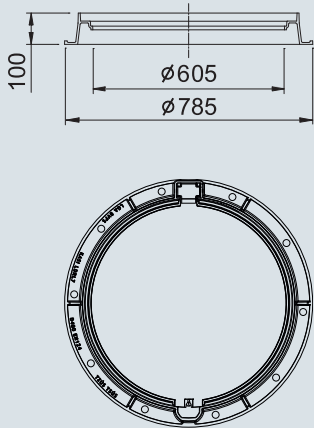
Frame description:

- Combination of casting and concrete.
- Gasket from PUR resistant to oils and salts in the frame.
- Frame with outer diameter 1200 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

Installation:

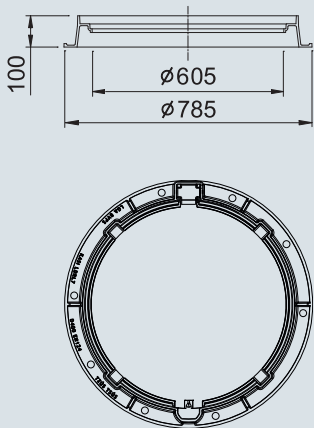
- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.





Casting frame

Material:	casting
Weight:	20 kg
Standard:	EN124-2
Load class:	D400
Packing:	20 pcs/pal



Casting frame with dirt-trap embedding

Material:	casting
Weight:	21kg
Standard:	EN124-2
Load class:	D400
Packing:	20 pcs/pal

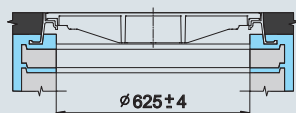


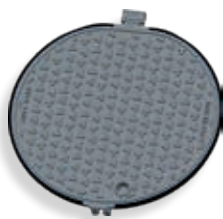
Frame description:

- | Casting L-shaped frame
- | Gasket from PUR resistant to oils and salts in the frame.
- | Frame height 100 mm is suitable for installation into almost any location.
- | As small checking holes as possible provides as large bottom contact surface as possible so the destruction of the cement connections and concrete elements is reduced.
- | This type of frame is not suitable for heavy-traffic.
- | We suggest this frame as an emergency solution for locations where no other type of frame can fit!

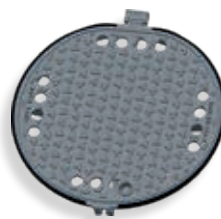
Installation:

- | Frame can be installed on adjustment rings BAR-V and BAR.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



LD91**Europa 9****Cover D400,
non-ventilated**

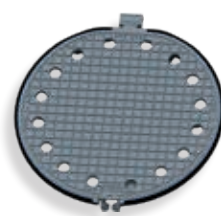
Weight: 41,5 kg

LD92**Europa 9****Cover D400,
ventilated**

Weight: 40,5 kg

LD95**Europa 9****Cover D400,
non-ventilated
Silent design**

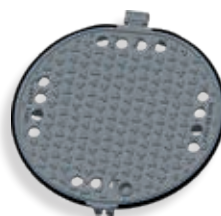
Weight: 44,5 kg

LD96**Europa 9****Cover D400,
ventilated
Silent design**

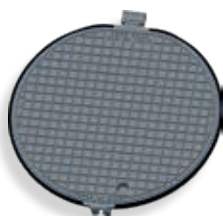
Weight: 43 kg

LE91**Europa 9****Cover E600,
non-ventilated**

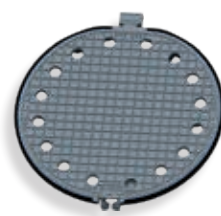
Weight: 45 kg

LE92**Europa 9****Cover E600,
ventilated**

Weight: 44,5 kg

LE95**Europa 9****Cover E600,
non-ventilated
Silent design**

Weight: 46,5 kg

LE96**Europa 9****Cover E600,
ventilated
Silent design**

Weight: 46 kg

LD81**Europa 8****Cover D400,
non-ventilated**

Weight: 37,5 kg

LD82**Europa 8****Cover D400,
ventilated**

Weight: 36 kg

LD8M**Europa 8****Round grating
D400**

Weight: 34 kg

LE81**Europa 8****Cover E600,
non-ventilated**

Weight: 44 kg

LE82**Europa 8****Cover E600,
ventilated**

Weight: 43 kg

LE8M**Europa 8****Round grating
E600**

Weight: 41,5 kg

LD71**Europa 7****Cover D400,
non-ventilated**

Weight: 33 kg

LD72**Europa 7****Cover D400,
ventilated**

Weight: 32 kg

LD7M**Europa 7****Round grating
D400**

Weight: 31 kg

LC71**Europa 7****Cover C250,
non-ventilated**

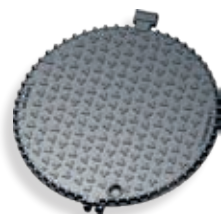
Weight: 30 kg

LC72**Europa 7****Cover C250,
ventilated**

Weight: 29 kg

LC7M**Europa 7****Round grating
C250**

Weight: 27 kg

LB71**Europa 7****Cover B125,
non-ventilated**

Weight: 25,5 kg

LB72**Europa 7****Cover B125,
ventilated**

Weight: 25 kg

LB7M**Europa 7****Round grating
B125**

Weight: 23,5 kg

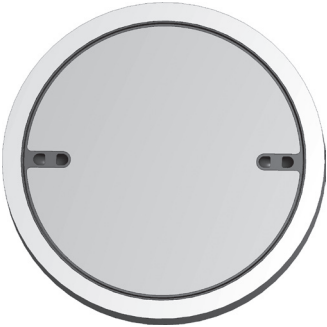
Options for Europa covers

- | Delivery without or with separate securing hinge pin
- | Screw-lock

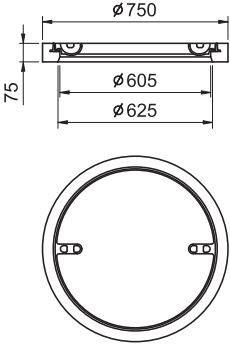
COVERS CLASS A15

CLASS A15, A50


Cover KAB01 EN124-2 A15 BG/BG non-ventilated



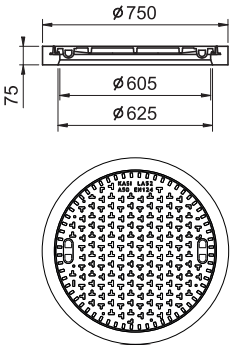
Frame:	LAR A50 EN124-2
Cover:	LA01 A15 EN124-2
Weight:	72 kg
Packing:	16 pcs/pal
Order code:	KAB01




Cover KAB02 EN124-2 A15 BG/GU non-ventilated



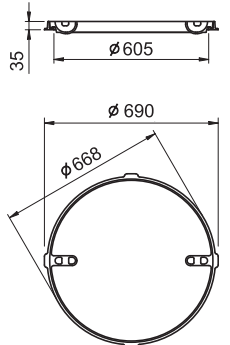
Frame:	LAR A50 EN124-2
Cover:	LA02 A15 EN124-2
Weight:	51 kg
Packing:	16 pcs/pal
Order code:	KAB02




Cover KAL01 EN124-2 A15 GU/BG non-ventilated



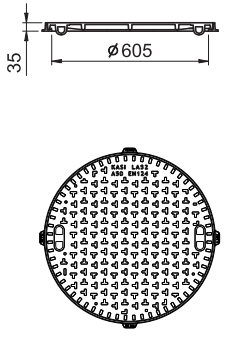
Frame:	LAR A15 EN124-2
Cover:	LA01 A15 EN124-2
Weight:	47 kg
Packing:	30 pcs/pal
Order code:	KAL01



Cover KAL02 EN124-2 A15 GU/GU non-ventilated

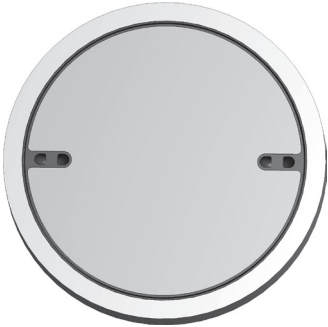


Frame:	LAR A15 EN124-2
Cover:	LA02 A15 EN124-2
Weight:	25 kg
Packing:	30 pcs/pal
Order code:	KAL02

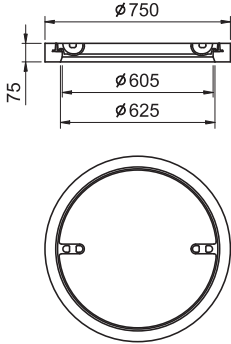


COVERS CLASS A15


Cover KAB51 EN124-2 A50 BG/BG non-ventilated



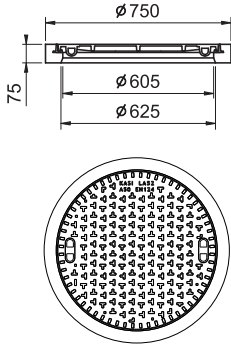
Frame:	LAR A50 EN124-2
Cover:	LA01 A50 EN124-2
Weight:	84 kg
Packing:	16 pcs/pal
Order code:	KAB51



Cover KAB52 EN124-2 A50 BG/GU non-ventilated




Frame:	LAR A50 EN124-2
Cover:	LA02 A50 EN124-2
Weight:	84 kg
Packing:	16 pcs/pal
Order code:	KAB52



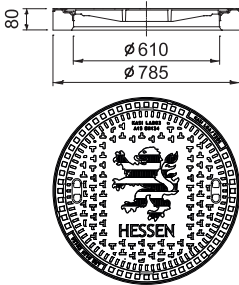
CLASS A15, A50

COVERS A50 WITH CUSTOM LOGO

Cover KAB803 EN124-2 A50 BG/GU without ventilation



Frame:	LBRB B125 EN124-2
Cover:	LAB03 A50 EN124-2
Weight:	76 kg
Packing:	12 pcs/pal
Order code:	KAB803





German types B125 and C250

(cover contact surface 26 mm deep)









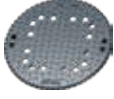






					Frames		
Covers	LB01		Non-ventilated, B125	Casting-concrete cover	LBRB	LBRA	LBRL
	LB02		Ventilated, B125	Casting-concrete cover			
	LB03		Non-ventilated, B125	Casting cover	Casting-concrete frame	Casting-concrete frame	Casting frame
	LB04		Ventilated, B125	Casting cover		with dirt-trap embedding	
	LB0M		Round grating, B125	Casting cover	KBB01	KBA01	KBL01
					KBB02	KBA02	KBL02
					KBB03	KBA03	KBL03
					KBB04	KBA04	KBL04
					KBB0M	KBA0M	KBL0M

Hinged covers B125 a C250

					Frames	
Covers	LB11		Non-ventilated, B125	Casting cover	LBRP / LCRP	JCRC
	LC11		Non-ventilated, C250	Casting cover		
	LC12		Ventilated, C250	Casting cover	Casting frame	Casting-concrete frame
						PUR gasket
					KBP11	KBC11
					KCP11	KCC11
					KCP12	KCC12

Austrian types B125 and C250

(cover contact surface 18 mm deep)

					Frames				
					LCRAR	LCRLR	LCRKR	LCRBG	LBRLG
									
					Casting-concrete frame	Casting frame	Casting frame	Casting-concrete frame	Casting frame
					with dirt-trap embedding		with dirt-trap embedding	Rám s PUR tlumící vložkou	Rám s PUR tlumící vložkou
Covers	LBS01		Non-ventilated, B125	Casting-concrete cover	KBAR01	KBLR01	KBKR01	KBBG01	KBLG01
	LBS02		Ventilated, B125	Casting-concrete cover	KBAR02	KBLR02	KBKR02	KBBG02	KBLG02
	LBS03		Non-ventilated, B125	Casting cover	KBAR03	KBLR03	KBKR03	KBBG03	KBLG03
	LBS04		Ventilated, B125	Casting cover	KBAR04	KBLR04	KBKR04	KBBG04	KBLG04
	LBS0M		Round grating, B125	Casting cover	KBAR0M	KBLR0M	KBKR0M	KBBG0M	KBLG0M
	LCS01		Non-ventilated, C250	Casting-concrete cover	KCAR01	KCLR01	KCKR01	KCBG01	
	LCS02		Ventilated, C250	Casting-concrete cover	KCAR02	KCLR02	KCKR02	KCBG02	
	LCS03		Non-ventilated, C250	Casting cover	KCAR03	KCLR03	KCKR03	KCBG03	
	LCS04		Ventilated, C250	Casting cover	KCAR04	KCLR04	KCKR04	KCBG04	
	LCS0M		Round grating, C250	Casting cover	KCAR0M	KCLR0M	KCKR0M	KCBG0M	

MATRIX B125, C250

Covers in frames LCRBG and LBRLG can be optionally secured with two screws.

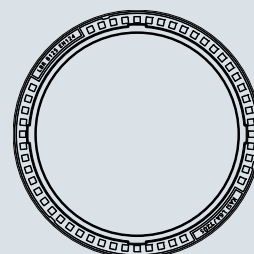
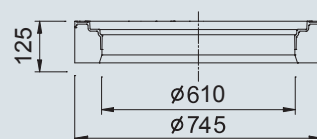
L B R B



Casting-concrete frame

Material:	casting, concrete
Weight:	48 kg
Standard:	EN124-2
Load class:	B125
Packing:	12 pcs/pal

B125



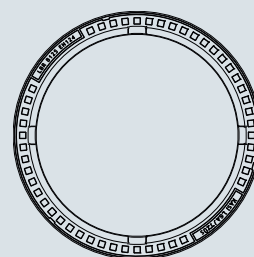
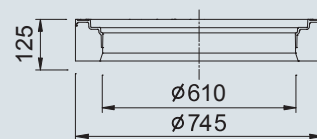
L B R A



Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	48 kg
Standard:	EN124-2
Load class:	B125
Packing:	12 pcs/pal

B125

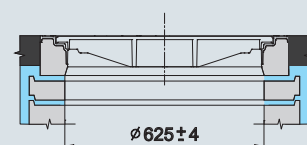


Frame description:

- Combination of casting and concrete.
- Frame height 125 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- We suggest this as a standard solution for common use.

Installation:

- Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.

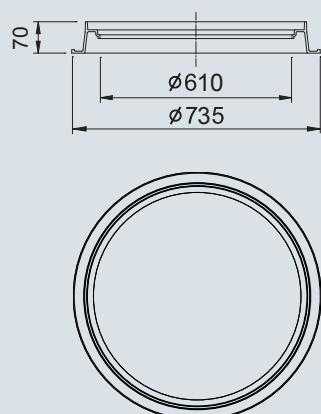


B125

LBRL

Casting frame

Material:	casting
Weight:	14 kg
Standard:	EN124-2
Load class:	B125
Packing:	20 pcs/pal

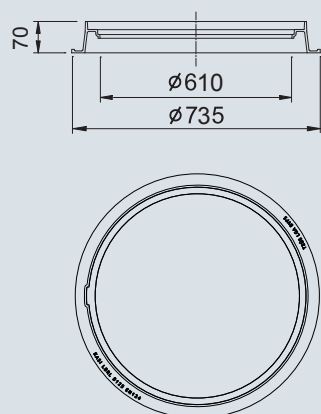


B125

LBRLG

Casting frame with PUR gasket

Material:	casting
Weight:	14 kg
Standard:	EN124-2
Load class:	B125
Packing:	20 pcs/pal

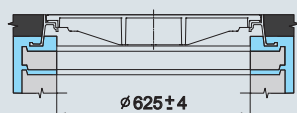


Frame description:

- | Casting L-shaped frame
- | Frame height 70 mm is suitable for installation into almost any location.
- | No checking holes for low class provides as large bottom contact surface as possible so the destruction of the cement connections and concrete elements is reduced.
- | We suggest this frame as an emergency solution for locations where no other type of frame can fit!

Installation:

- | Frame can be installed on adjustment rings BAR-V and BAR.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



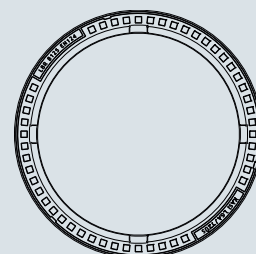
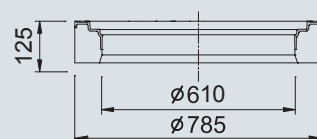
LCRAR



Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	48 kg
Standard:	EN124-2
Load class:	C250
Packing:	12 pcs/pal

B125 and C250



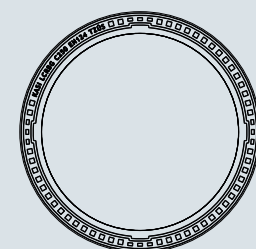
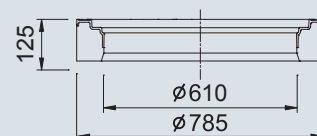
LCRBG



Casting-concrete frame with PUR gasket

Material:	casting, concrete
Weight:	48 kg
Standard:	EN124-2
Load class:	C250
Packing:	12 pcs/pal

B125 and C250

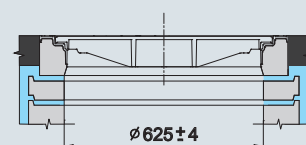


Frame description:

- Combination of casting and concrete.
- Frame height 125 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- We suggest this as a standard solution for common use.

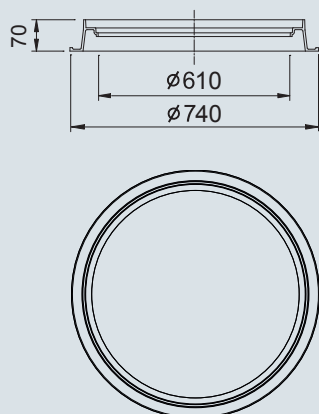
Installation:

- Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



B125 and C250

LCRLR



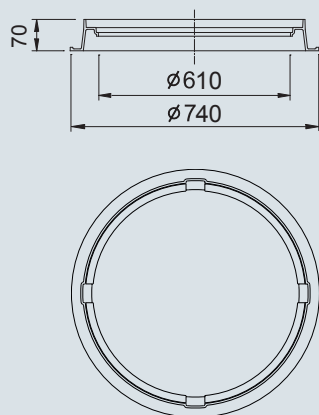
Casting frame

Material:	casting
Weight:	14 kg
Standard:	EN124-2
Load class:	C250
Packing:	20 pcs/pal



B125 and C250

LCRKR



Casting frame with dirt-trap embedding

Material:	casting
Weight:	13 kg
Standard:	EN124-2
Load class:	C250
Packing:	20 pcs/pal

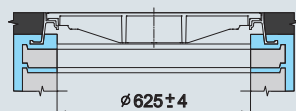


Frame description:

- | Casting L-shaped frame
- | Frame height 70 mm is suitable for installation into almost any location.
- | No checking holes for low class provides as large bottom contact surface as possible so the destruction of the cement connections and concrete elements is reduced.
- | We suggest this frame as an emergency solution for locations where no other type of frame can fit!

Installation:

- | Frame can be installed on adjustment rings BAR-V and BAR.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



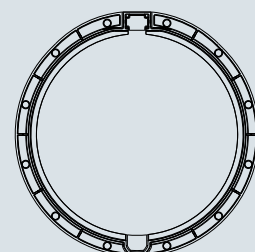
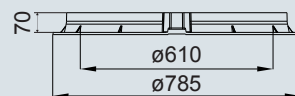
L B R P

B125 and C250



Casting frame

Material:	casting
Weight:	12 kg
Standard:	EN124-2
Load class:	B125
Packing:	20 pcs/pal



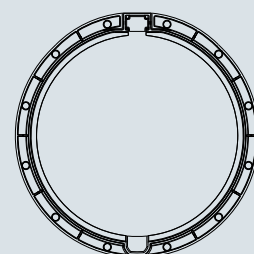
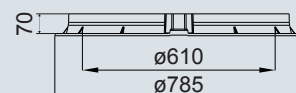
L C R P

B125 and C250



Casting frame

Material:	casting
Weight:	12 kg
Standard:	EN124-2
Load class:	C250
Packing:	20 pcs/pal

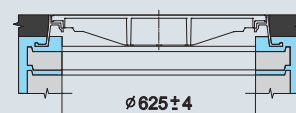


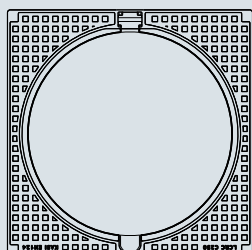
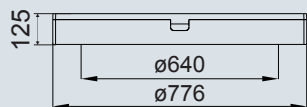
Frame description:

- | Casting L-shaped frame
- | Frame height 70 mm is suitable for installation into almost any location.
- | No checking holes for low class provides as large bottom contact surface as possible so the destruction of the cement connections and concrete elements is reduced.
- | We suggest this frame as an emergency solution for locations where no other type of frame can fit!

Installation:

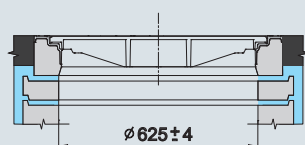
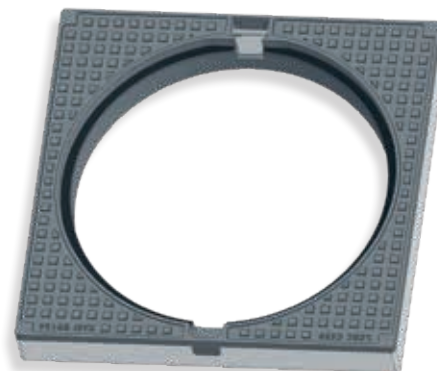
- | Frame can be installed on adjustment rings BAR-V and BAR.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.





Casting frame

Material:	casting, concrete
Weight:	76 kg
Standard:	EN124-2
Load class:	C250
Packing:	12 pcs/pal



Frame description:

- Frame height 125 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.

Installation:

- Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.

LB01

**Casting-concrete
cover, B125
Non-ventilated**

Weight: 54 kg

LB02

**Casting-concrete
cover, B125
Ventilated**

Weight: 54 kg

LB03

**Casting cover,
B125
Non-ventilated**

Weight: 24 kg

LB04

**Casting cover,
B125
Ventilated**

Weight: 24 kg

LB0M

**Casting cover,
B125
Round grating**

Weight: 24 kg

LBS01

**Casting-concrete
cover, B125
Non-ventilated**

Weight: 54 kg

LBS02

**Casting-concrete
cover, B125
Ventilated**

Weight: 54 kg

LBS03

**Casting cover,
B125
Non-ventilated**

Weight: 24 kg

LBS04

**Casting cover,
B125
Ventilated**

Weight: 24 kg

LBS0M

**Casting cover,
B125
Round grating**

Weight: 24 kg

LCS01



**Casting-concrete
cover, C250
Non-ventilated**

Weight: 62 kg

LCS02



**Casting-concrete
cover, C250
Ventilated**

Weight: 54 kg

LCS03



**Casting cover,
C250
Non-ventilated**

Weight: 28 kg

LCS04



**Casting cover,
C250
Ventilated**

Weight: 28 kg

LCS0M



**Casting cover,
C250
Round grating**

Weight: 26 kg

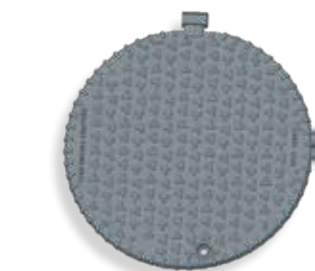
LB11



**Casting cover,
B125
Non-ventilated**

Weight: 24 kg

LC11



**Casting cover,
C250
Non-ventilated**

Weight: 28 kg

LC12





















**Casting cover,
C250
Ventilated**









Weight: 28 kg

Standard product line D400

Frames

JDRB	JDRA	JFRI	JFRJ	JFRG
				
Casting-concrete frame	Casting-concrete frame	Concrete collar frame 1000 mm	Concrete collar frame 1000 mm	Concrete collar frame 1200 mm
	with dirt-trap embedding		with dirt-trap embedding	

Covers	LD01		Ventilated, casting-concrete cover		KDB01	KDA01	KDI01	KDJ01	KDG01
	LD02		Non-ventilated, casting-concrete cover		KDB02	KDA02	KDI02	KDJ02	KDG02
	LD03		Ventilated, casting cover		KDB03	KDA03	KDI03	KDJ03	KDG03
	LD05		Non-ventilated, casting cover		KDB05	KDA05	KDI05	KDJ05	KDG05
	LD07		Non-ventilated, casting-concrete cover	Keyhole	KDB07	KDA07	KDI07	KDJ07	KDG07
	LD08		Non-ventilated, casting cover	Keyhole	KDB08	KDA08	KDI08	KDJ08	KDG08
	LD16		Ventilated, casting-concrete cover		KDB16	KDA16	KDI16	KDJ16	KDG16
	LD0M		Round grating		KDB0M	KDA0M	KDI0M	KDJ0M	KDG0M
KASI-PUR	LD61		Ventilated, casting-concrete cover	KASI-PUR	KDB61	KDA61	KDI61	KDJ61	KDG61
	LD62		Non-ventilated, casting-concrete cover	KASI-PUR	KDB62	KDA62	KDI62	KDJ62	KDG62
	LD63		Ventilated, casting cover	KASI-PUR	KDB63	KDA63	KDI63	KDJ63	KDG63
	LD65		Non-ventilated, casting cover	KASI-PUR	KDB65	KDA65	KDI65	KDJ65	KDG65
	LD68		Non-ventilated, casting cover	KASI-PUR, keyhole	KDB68	KDA68	KDI68	KDJ68	KDG68

JFRH	LDRL	LDRK	LERM	LERN	JFRT	JFRQ	JFRC
							
Concrete collar frame 1200 mm	Casting frame	Casting frame	Casting frame	Casting frame	Casting-concrete frame	Casting-concrete frame	Casting-concrete frame
with dirt-trap embedding		with dirt-trap embedding		with dirt-trap embedding	with dirt-trap embedding		with dirt-trap embedding
KDH01	KDL01	KDK01	KDM01	KDN01	KDT01	KDQ01	
KDH02	KDL02	KDK02	KDM02	KDN02	KDT02	KDQ02	
KDH03	KDL03	KDK03	KDM03	KDN03	KDT03	KDQ03	
KDH05	KDL05	KDK05	KDM05	KDN05	KDT05	KDQ05	
KDH07	KDL07	KDK07	KDM07	KDN07	KDT07	KDQ07	
KDH08	KDL08	KDK08	KDM08	KDN08	KDT08	KDQ08	
KDH16	KDL16	KDK16	KDM16	KDN16	KDT16	KDQ16	
KDH0M	KDL0M	KDK0M	KDM0M	KDN0M	KDT0M	KDQ0M	KDC0M
KDH61	KDL61	KDK61	KDM61	KDN61	KDT61	KDQ61	KDC61
KDH62	KDL62	KDK62	KDM62	KDN62	KDT62	KDQ62	KDC62
KDH63	KDL63	KDK63	KDM63	KDN63	KDT63	KDQ63	KDC63
KDH65	KDL65	KDK65	KDM65	KDN65	KDT65	KDQ65	KDC65
KDH68	KDL68	KDK68	KDM68	KDN68	KDT68	KDQ68	KDC68

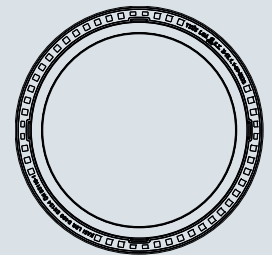
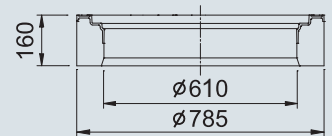
J D R B



Casting-concrete frame

Material:	casting, concrete
Weight:	74 kg
Standard:	EN124-2
Load class:	D400
Packing:	8 pcs/pal

D400



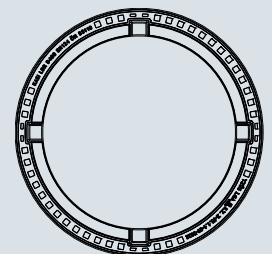
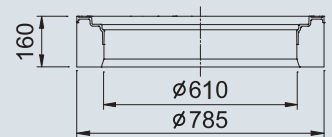
J D R A



Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	74 kg
Standard:	EN124-2
Load class:	D400
Packing:	8 pcs/pal

D400

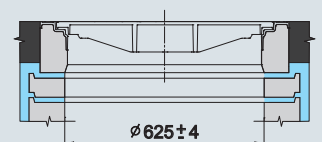


Frame description:

- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame height 160 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- We suggest this as a standard solution for common use.

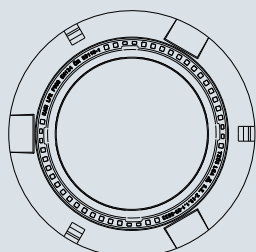
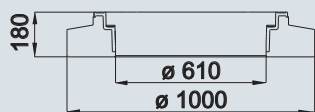
Installation:

- Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



F900

J F R I



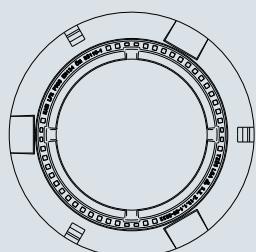
Concrete collar frame 1000 mm

Material:	casting, concrete
Weight:	152 kg
Standard:	EN124-2
Load class:	F900
Packing:	6 pcs/pal



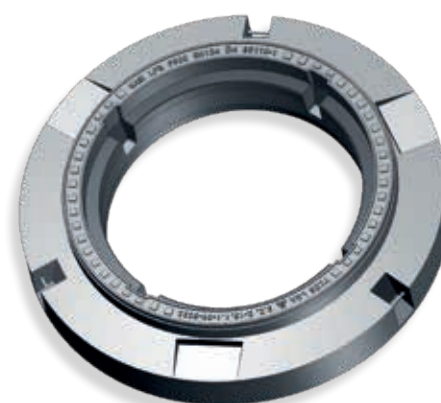
F900

J F R J



Concrete collar frame 1000 mm with dirt-trap embedding

Material:	casting, concrete
Weight:	152 kg
Standard:	EN124-2
Load class:	F900
Packing:	6 pcs/pal

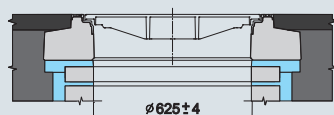


Frame description:

- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame with outer diameter 1000 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

Installation:

- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



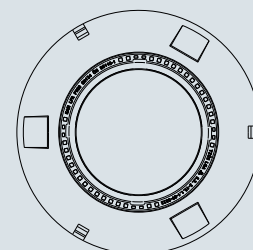
JFRG



Concrete collar frame 1200 mm

Material:	casting, concrete
Weight:	258 kg
Standard:	EN124-2
Load class:	F600
Packing:	5 pcs/pal

F600



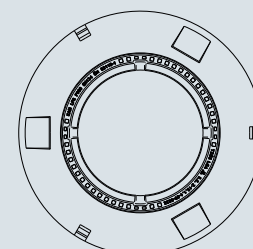
JFRH



Concrete collar frame 1200 mm with dirt-trap embedding

Material:	casting, concrete
Weight:	258 kg
Standard:	EN124-2
Load class:	F600
Packing:	5 pcs/pal

F600

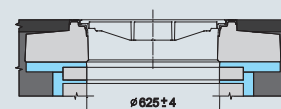


Frame description:

- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame with outer diameter 1200 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

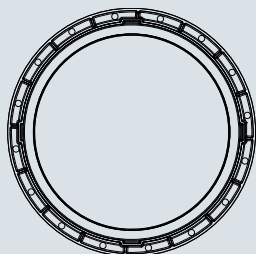
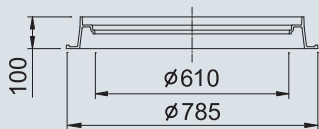
Installation:

- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



D400

LDRL



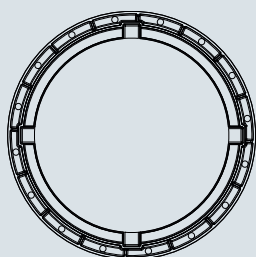
Casting frame

Material:	casting
Weight:	21kg
Standard:	EN124-2
Load class:	D400
Packing:	10 pcs/pal



D400

LDRK



Casting frame with dirt-trap embedding

Material:	casting
Weight:	21kg
Standard:	EN124-2
Load class:	D400
Packing:	10 pcs/pal

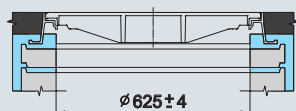


Frame description:

- | Casting L-shaped frame
- | PUR gasket resistant to oils, salts and similar materials.
- | Frame height 100 mm is suitable for installation into almost any location.
- | As small checking holes as possible provides as large bottom contact surface as possible so the destruction of the cement connections and concrete elements is reduced.
- | This type of frame is not suitable for heavy-traffic.
- | We suggest this frame as an emergency solution for locations where no other type of frame can fit!

Installation:

- | Frame can be installed on adjustment rings BAR-V and BAR.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



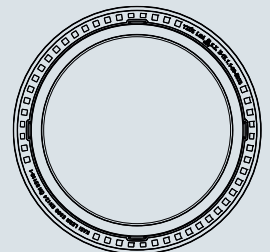
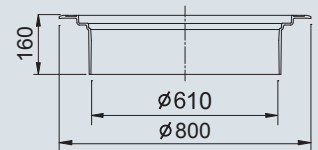
LERM



Casting frame

Material:	casting
Weight:	30 kg
Standard:	EN124-2
Load class:	E600
Packing:	10 pcs/pal

D400



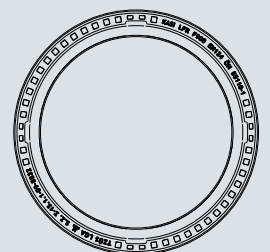
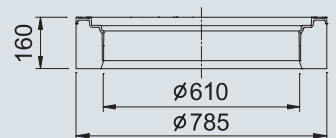
JFRQ



Casting-concrete frame

Material:	casting, concrete
Weight:	76 kg
Standard:	EN124-2
Load class:	F900
Packing:	8 pcs/pal

F900

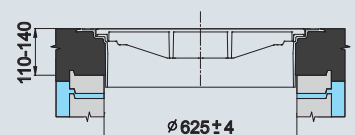


Frame description:

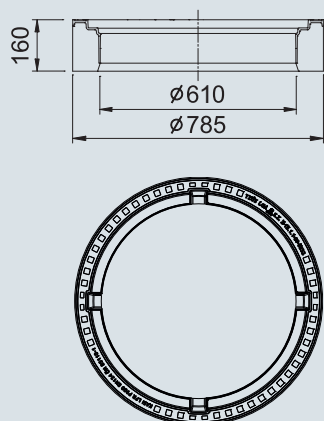
- | Casting self-levelling (floating) frame.
- | PUR gasket resistant to oils, salts and similar materials.
- | No counterpart (guide ring) necessary the frames moves inside of the adjustment ring.
- | The frame is not firmly attached to the manhole. It can move altogether with top layer of the road. This prevents from asphalt being torn away from the frame creating cracks.
- | Self-levelling provides smooth drive-overs for cars.
- | We suggest this frame as the most suitable solution for locations with the heaviest traffic!

Installation:

- | The frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring.
- | The frame must be installed into highly compacted asphalt to prevent its decreasing during operation.



F900

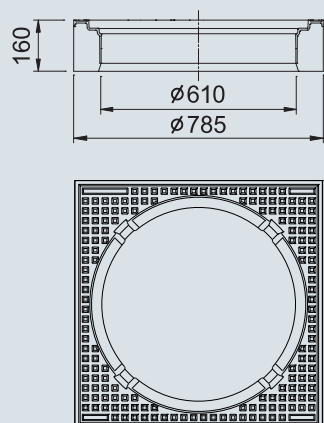


Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	76 kg
Standard:	EN124-2
Load class:	F900
Packing:	8 pcs/pal

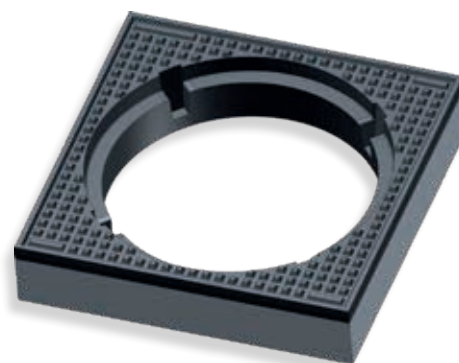


F900

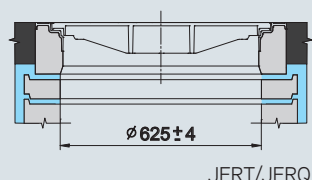


Casting-concrete frame with dirt-trap embedding

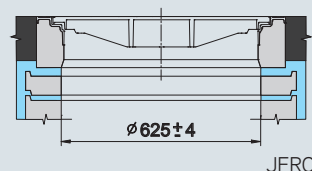
Material:	casting, concrete
Weight:	150 kg
Standard:	EN124-2
Load class:	F900
Packing:	5 pcs/pal



FRAMES D400



JFRT/JFRQ



JFRC

Frame description:

- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame height 160 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- JFRT** More resistant version of classic casting-concrete frame, where casting protects whole inner side.
- JFRQ** Like **JFRT** with out dirt-trap embedding.
- JFRC** The frame is according to DIN 19584-6. Frame with no gasket.

Installation:

- JFRT/JFRQ** Frame can be installed on adjustment rings BAR-V and BAR..
- JFRC** Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.

LD01

**Casting-
concrete cover,
ventilated**

Weight: 83 kg

LD02

**Casting-
concrete cover,
non-ventilated**

Weight: 85 kg

LD03

**Casting cover,
ventilated**

Weight: 82 kg

LD05

**Casting cover,
non-ventilated**

Weight: 83 kg

LD07

**Casting-
concrete cover,
non-ventilated
Keyhole**

Weight: 84 kg

LD08

**Casting cover,
non-ventilated
Keyhole**

Weight: 82 kg

LD16

**Casting-
concrete cover,
ventilated**

Weight: 91 kg

LD0M

Round grating

Weight: 93 kg

LD61



**Casting-concrete
cover, ventilated**
KASI-PUR gasket

Weight: 90 kg

LD62



**Casting-concrete
cover, non-
ventilated**
KASI-PUR gasket

Weight: 91 kg

LD63



**Casting cover,
ventilated**
KASI-PUR gasket

Weight: 81 kg

LD65



**Casting cover,
non-ventilated**
KASI-PUR gasket

Weight: 81 kg

LD68



**Casting cover,
non-ventilated**
KASI-PUR gasket
keyhole

Weight: 81 kg

Covers for custom filling

LD0K



**Cover for
custom filling
non-ventilated**

Weight: 90 kg

LD0P




**Cover for
custom filling
ventilated**







Weight: 90 kg

E600, F900

Rámy

JFRT	JFRQ	JFRI	JFRJ
			
Casting-concrete frame	Casting-concrete frame	Concrete collar frame 1000 mm	Concrete collar frame 1000 mm
with dirt-trap embedding			with dirt-trap embedding

Covers	LF01		Ventilated, casting-concrete cover		KFT01	KFQ01	KFI01	KFJ01
	LF02		Non-ventilated, casting-concrete cover		KFT02	KFQ02	KFI02	KFJ02
	LF03		Ventilated, casting cover		KFT03	KFQ03	KFI03	KFJ03
	LF05		Non-ventilated, casting cover		KFT05	KFQ05	KFI05	KFJ05
	LF0M		Round grating		KFT0M	KFQ0M	KFI0M	KFJ0M
KASI-PUR	LF61		Ventilated, casting-concrete cover	KASI-PUR gasket	KFT61	KFQ61	KFI61	KFJ61
	LF62		Non-ventilated, casting-concrete cover	KASI-PUR gasket	KFT62	KFQ62	KFI62	KFJ62
	LF63		Ventilated, casting cover	KASI-PUR gasket	KFT63	KFQ63	KFI63	KFJ63
	LF65		Non-ventilated, casting cover	KASI-PUR gasket	KFT65	KFQ65	KFI65	KFJ65
	LF68		Non-ventilated, casting-concrete cover	KASI-PUR gasket	KFT68	KFQ68	KFI68	KFJ68

JFRG	JFRH	LERM	LERN	LFRR	JFRC
					
Concrete collar frame 1200 mm	Concrete collar frame 1200 mm	Casting frame	Casting frame	Casting-concrete frame	Casting-concrete frame
	with dirt-trap embedding		with dirt-trap embedding	with dirt-trap embedding	with dirt-trap embedding
KFG01	KFH01	KEM01	KEN01	KFR01	
KFG02	KFH02	KEM02	KEN02	KFR02	
KFG03	KFH03	KEM03	KEN03	KFR03	
KFG05	KFH05	KEM05	KEN05	KFR05	
KFG0M	KFH0M	KEM0M	KEN0M	KFR0M	
KFG61	KFH61	KEM61	KEN61	KFR61	KFC61
KFG62	KFH62	KEM62	KEN62	KFR62	KFC62
KFG63	KFH63	KEM63	KEN63	KFR63	KFC63
KFG65	KFH65	KEM65	KEN65	KFR65	KFC65
KFG68	KFH68	KEM68	KEN68	KFR68	KFC68

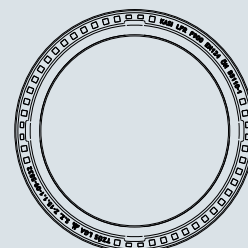
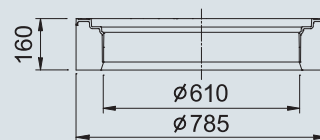
JFRQ



Casting-concrete frame

Material:	casting
Weight:	89 kg
Standard:	EN124-2
Load class:	F900
Packing:	8 pcs/pal

F900



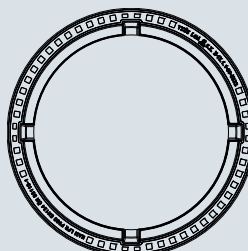
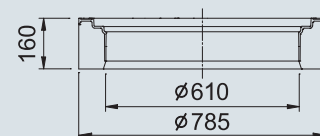
JFRT



Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	81 kg
Standard:	EN124-2
Load class:	F900
Packing:	8 pcs/pal

F900

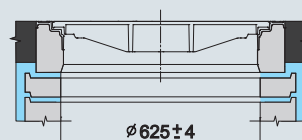


Frame description:

- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame height 160 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- JFRT** More resistant version of classic casting-concrete frame, where casting protects whole inner side.
- JFRQ** Like **JFRT** with out dirt-trap embedding.

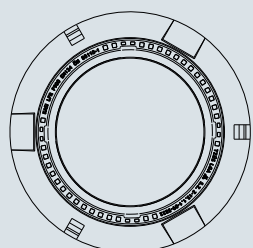
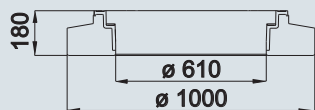
Installation:

- JFRT/JFRQ** Frame can be installed on adjustment rings BAR-V and BAR.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



F900

J F R I



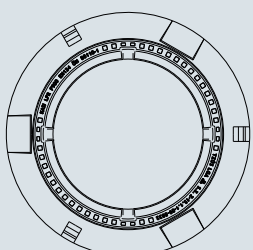
Concrete collar frame 1000 mm

Material:	casting, concrete
Weight:	152 kg
Standard:	EN124-2
Load class:	D900
Packing:	6 pcs/pal



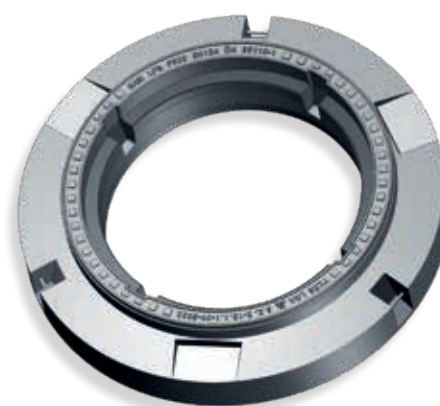
F900

J F R J



Concrete collar frame 1000 mm with dirt-trap embedding

Material:	casting, concrete
Weight:	152 kg
Standard:	EN124-2
Load class:	F900
Packing:	6 pcs/pal

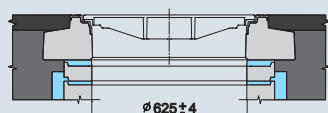


Frame description:

- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame with outer diameter 1000 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

Installation:

- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



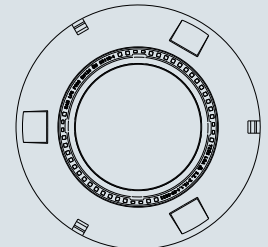
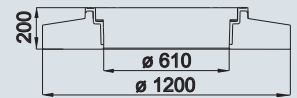
JFRG



Concrete collar frame 1200 mm

Material:	casting, concrete
Weight:	258 kg
Standard:	EN124-2
Load class:	F900
Packing:	5 pcs/pal

F900



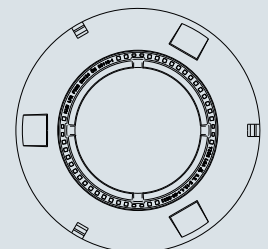
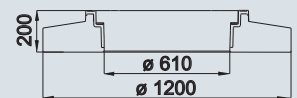
JFRH



Concrete collar frame 1200 mm with dirt-trap embedding

Material:	casting, concrete
Weight:	258 kg
Standard:	EN124-2
Load class:	F900
Packing:	5 pcs/pal

F900

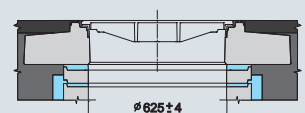


Frame description:

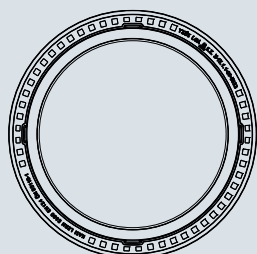
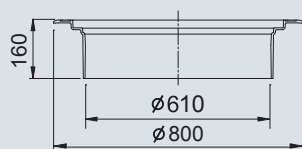
- Combination of casting and concrete.
- PUR gasket resistant to oils, salts and similar materials.
- Frame with outer diameter 1200 mm spreads the load forces also around the manhole.
- Frame includes reinforcement, which also serves as a manipulation handle.
- It can be installed on manholes with slightly damaged conical part thanks to the large diameter or a combination with grating can be used to replace mountain drains or atypical gratings.
- Can be installed on plastic chambers without any separate spreading concrete ring.

Installation:

- Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



E600

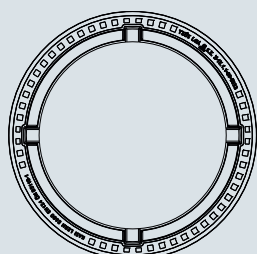
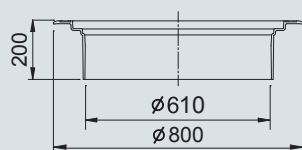


Casting frame

Material:	casting
Weight:	30 kg
Standard:	EN124-2
Load class:	E600
Packing:	10 pcs/pal



E600



Casting frame with dirt-trap embedding

Material:	casting
Weight:	30 kg
Standard:	EN124-2
Load class:	E600
Packing:	10 pcs/pal

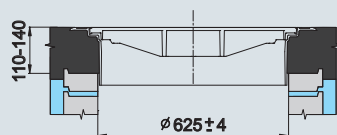


Frame description:

- | Casting self-levelling (floating) frame.
- | PUR gasket resistant to oils, salts and similar materials.
- | No counterpart (guide ring) necessary the frames moves inside of the adjustment ring.
- | The frame is not firmly attached to the manhole. It can move altogether with top layer of the road. This prevents from asphalt being teared away from the frame creating cracks.
- | Self-levelling provides smooth drive-overs for cars.
- | We suggest this frame as the most suitable solution for locations with the heaviest traffic!

Installation:

- | The frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- | There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring.
- | The frame must be installed into highly compacted asphalt to prevent its decreasing during operation.



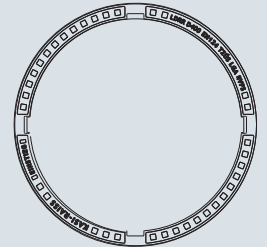
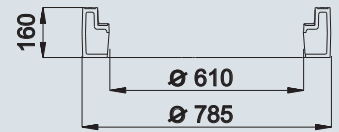
LFRR



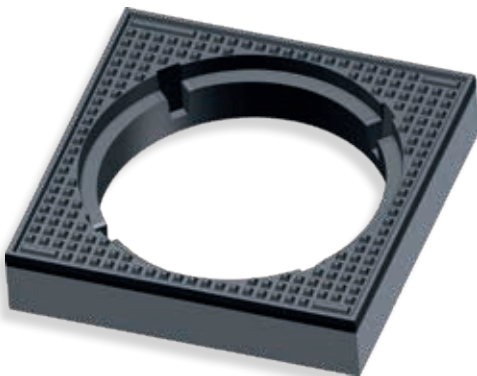
Casting frame with dirt trap embedding

Material:	casting,
Weight:	50 kg
Standard:	EN124-2
Load class:	F900
Packing:	8 pcs/pal

F900



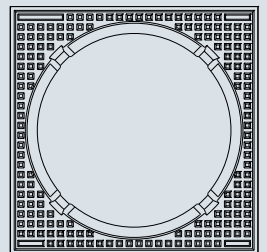
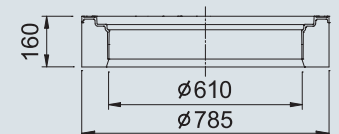
JFRC



Casting-concrete frame with dirt-trap embedding

Material:	casting, concrete
Weight:	150 kg
Standard:	EN124-2
Load class:	F900
Packing:	5 pcs/pal

F900

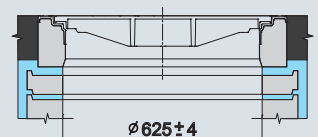


Frame description:

- Frame height 160 mm is suitable for installation into most locations.
- Thanks to flat outer side it does not cause lifting and cracking of asphalt layer, compared to L-shaped frame, which does.
- Larger bottom surface of the frame, compared to L-shaped frames, provides better protection of the cement connection and concrete elements from crushing.
- JFRC** The frame is according to DIN 19584-6.
- JFRC** Frames with no gasket.
- LFRR** PUR gasket resistant to oils, salts and similar materials.

Installation:

- LFRR** Frame can be installed on adjustment rings BAR-V, BAR.
- JFRC** Frame can be installed on adjustment rings BAR-V, BAR and BAR-P.
- There must be at least 2 cm high cement/mortar connection with 45 MPa strength between the frame and the adjustment ring as well as between all adjustment rings and manhole cone.



JFRC / LFRR

LF21

**Casting-concrete
cover ventilated,
With gasket,
DIN 19584**

Weight: 91 kg

LF23

**Casting cover
ventilated,
With gasket**

Weight: 84 kg

LF22

**Casting-concrete
cover
non-ventilated,
With gasket**

Weight: 91 kg

LF25

**Casting cover
non-ventilated,
With gasket**

Weight: 85 kg

LF61**KASI-PUR**

**Casting-concrete
cover, ventilated
KASI-PUR gasket**

Weight: 91 kg

LF63**KASI-PUR**

**Casting cover,
ventilated
KASI-PUR gasket**

Weight: 84 kg

LF62**KASI-PUR**

**Casting-concrete
cover,
non-ventilated
KASI-PUR gasket**

Weight: 91 kg

LF65**KASI-PUR**

**Casting cover,
non-ventilated
KASI-PUR gasket**

Weight: 85 kg

LF68**KASI-PUR**

**Casting-concrete
cover,
non-ventilated
KASI-PUR gasket**

Weight: 84 kg

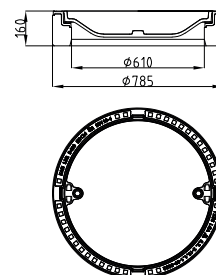
WATERTIGHT AND GASTIGHT MANHOLE COVERS D400

- | Special sealing gasket made of PUR
- | Secured with 2 screw-locks
- | Resistance 0,5 Bar (5m water column)
- | Designed for halls, flood areas and to protect technologies

KDBV12BN | Water/gastigh cover EN124-2



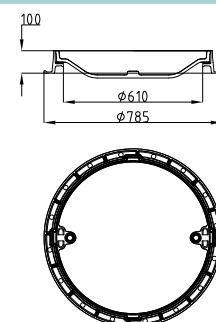
Frame:	casting, concrete
Cover:	casting, concrete
Weight:	163 kg
Packing:	8 pcs/pal
Order code:	KDBV12BN



KDLV12BN | Water/gastigh cover EN124-2

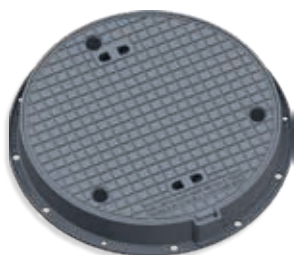


Frame:	casting
Cover:	casting, concrete
Weight:	113 kg
Packing:	10 pcs/pal
Order code:	KDLV12BN

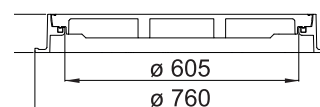


KELV14CS | Watertight cover with cast-iron frame and cast-iron lid

DN 600, load class E600, cover suitable for traffic loads including tunnels, bolted

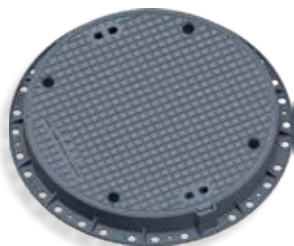


Weight:	83 kg
Packing:	10 pcs/pal
Pressure resistance:	2 bar
Code:	KELV14CS

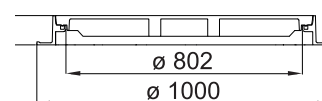


K8ELV14CS | Watertight cover with cast-iron frame and cast-iron lid

DN 800, load class E600, cover suitable for traffic loads including tunnels, bolted



Weight:	135 kg
Packing:	8 pcs/pal
Pressure resistance:	2 bar
Code:	K8ELV14CS



TECHNICAL GUIDE FOR INSTALLATION OF KASI MANHOLE COVERS

Concrete-Casting Frame

Installation method for concrete-casting frame. Both cover and all adjustment rings must be installed on the conical part of the manhole or the adapter-panel into the mortar/cement layer with high-strength material (minimal strength 45MPa, e.g. Izolsan FIX). All items must be connected with at least 10mm of this material.

The cover must be orientated so the axis hinge-opening hole is in the drive direction, the best is with hinge to be the first part to drive on.

Casting frame („L-shaped“ frame)

Installation method for casting frame. Both cover and all adjustment rings must be installed on the conical part of the manhole or the adapter-panel into the mortar/cement layer with high-strength material (minimal strength 45MPa, e.g. Izolsan FIX). All items must be connected with at least 10mm of this material. The frame of the cover must be connected to the adjustment ring with high-strength liquid mortar (e.g. IZOLSAN HF) so that the bottom „foot“ of the frame is at least 25mm under the mortar surface.

The cover must be orientated so the axis hinge-opening hole is in the drive direction, the best is with hinge to be the first part to drive on.

Spreading frames

Installation method for spreading frames. Both cover and all adjustment rings must be installed on the conical part of the manhole or the adapter-panel into the mortar/cement layer with high-strength material (minimal strength 45MPa, e.g. Izolsan FIX). All items must be connected with at least 10mm of this material from the bottom side. That means that the frame must be connected also with the surrounding material around the manhole.

The cover must be orientated so the axis hinge-opening hole is in the drive direction, the best is with hinge to be the first part to drive on.

Self-levelling frame

Installation method for floating (self-levelling) frames. After finishing of the supporting asphalt layer there has to be made a hole to the conical piece or the adapter-panel so the diameter of this hole is approx 1100mm. Before the placing of the final asphalt layer, the adjustment rings must be installed into the mortar/cement layer with high-strength material (minimal strength 45MPa, e.g. Izolsan FIX). to the height from -13 to -15 cm under the desired road level. Adjustment rings and its surrounding space must be filled with high-strength liquid mortar (e.g. IZOLSAN HF) so there will be solid support layer for the final asphalt layer. The self-levelling installation tool is placed on the supporting asphalt. The hole is filled with new hot asphalt and vibrated to the solid state, at most near the tooling mold to prevent descent of the frame in the asphalt. We eject the tooling from the asphalt and insert the self-levelling cover. The asphaltting (finishing) car goes over the whole construction and creates the final asphalt layer. The cover is dug out and pulled 2cm above the final layer. Hot asphalt is pushed under the hanging frame and the valve car pushes the cover to the road level.

The cover must be orientated so the axis hinge-opening hole is in the drive direction, the best is with hinge to be the first part to drive on.

Installation below 5 degrees Celsius must be consulted with producer! Cover must be dry and without icing

ADJUSTMENT RINGS

Adjustment rings are in accordance with EN 1917 standard, are used as manhole cover underlay and to adjust covers to road level. Rings are placed on load-bearing structure (reducing part, cover plate) always on the mortar bed with minimal 40 Mpa strength.

There are produced three types of rings, which differs in shape and bearing surface size. Type of ring is chosen according to underlying parts.

Adjustment ring DIN 4034-1 AR-V 625 x height

These are used for frames and cover plates manufactured in accordance with DIN V 4034-1 Prefabricated concrete manholes, unreinforced, steel fibre and reinforced for drains and sewers. Ring shoulder prevents from sliding between rings, manhole cover or bearing construction.

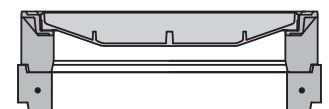
Adjustment ring DIN 4034-2 AR 625 x height

These are used for frames and cover plates manufactured in accordance with DIN V 4034-2 Precast unreinforced and reinforced concrete components for well shafts and soakaways. Ring design does not prevent from sliding between rings, manhole cover or bearing construction.

Adjustment ring BAR-P BAR-P 625 x height

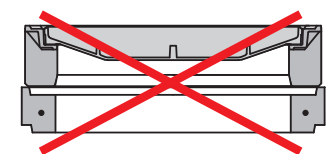
Used for placing on shafts with wall thickness less than 90 mm or 100 mm, where prevention from sliding between rings, manhole cover or bearing construction is required.

Where these rings are used with class D400 covers, it is possible to use KASI covers only with frames LDR or LD81 with shoulder shape on the outside.



Frame with shoulder

Right – Good



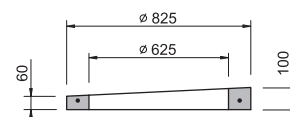
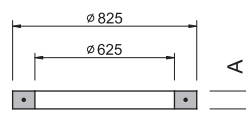
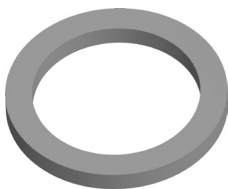
Frame without shoulder

Wrong

Inclined adjustment rings

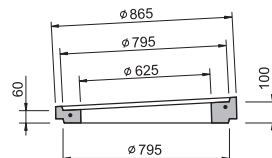
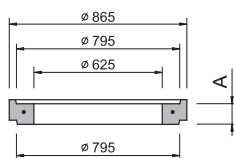
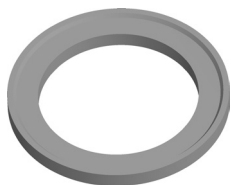
Intended to compensate road inclination and produced for all three types of adjustment rings.

Adjustment rings BAR, BARZS



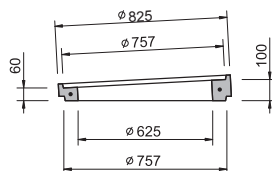
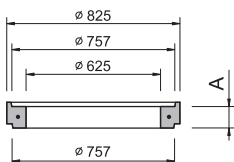
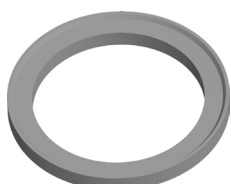
Ring marking		Order code	Ring height (A)	Weight	Packing
DIN4034-AR 625x40	Ⓢ	BAR04	40mm	23,0 kg	17 pcs
DIN4034-AR 625x60	Ⓢ	BAR06	60mm	33,0 kg	18 pcs
DIN4034-AR 625x80	Ⓢ	BAR08	80mm	44,0 kg	14 pcs
DIN4034-AR 625x100	Ⓢ	BAR10	100mm	55,0 kg	11 pcs
DIN4034-AR 625x120	Ⓢ	BAR12	120mm	66,0 kg	9 pcs
DIN4034-AR 625x60/100	Ⓢ	BARZS	60/100mm	44,0 kg	10 pcs

Adjustment rings BAR-V, BAR-VS



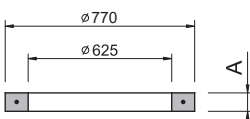
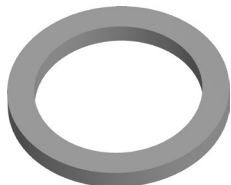
Ring marking		Order code	Ring height (A)	Weight	Packing
DIN4034-AR-V 625x40	Ⓢ	BAR-V04	40 mm	27,5 kg	17 pcs
DIN4034-AR-V 625x60	Ⓢ	BAR-V06	60 mm	40,0 kg	18 pcs
DIN4034-AR-V 625x80	Ⓢ	BAR-V08	80 mm	53,0 kg	14 pcs
DIN4034-AR-V 625x100	Ⓢ	BAR-V10	100 mm	68,0 kg	11 pcs
DIN4034-AR-V 625x120	Ⓢ	BAR-V12	120 mm	81,0 kg	9 pcs
DIN4034-AR-V 625x60/100	Ⓢ	BAR-VS	60/100 mm	53,0 kg	10 pcs

Adjustment rings BAR-P, BAR-PZS; Prague design



Ring marking		Order code	Ring height (A)	Weight	Packing
625x40	Ⓢ	BAR-P04	40 mm	23,0 kg	17 pcs
625x60	Ⓢ	BAR-P06	60 mm	33,0 kg	18 pcs
625x80	Ⓢ	BAR-P08	80 mm	44,0 kg	14 pcs
625x100	Ⓢ	BAR-P10	100 mm	55,0 kg	11 pcs
625x120	Ⓢ	BAR-P12	120 mm	66,0 kg	9 pcs
625x60/100	Ⓢ	BAR-PZS	60/100 mm	44,0 kg	10 pcs

Adjustment rings BAR-F



Ring marking		Order code	Ring height (A)	Weight	Packing
770-625x40	Ⓢ	BAR-F04	40 mm	16,0 kg	17 pcs
770-625x60	Ⓢ	BAR-F06	60 mm	23,0 kg	18 pcs
770-625x80	Ⓢ	BAR-F08	80 mm	30,0 kg	14 pcs
770-625x100	Ⓢ	BAR-F10	100 mm	38,0 kg	11 pcs

PRODUCTS FOR PLASTIC PIPES/MANHOLE

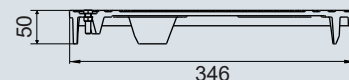
Covers for elements DN315/DN400/DN600/DN1000

LPA

Cover has no frame and is installed on top of the DN400 plastic pipe, it is secured with a screw.



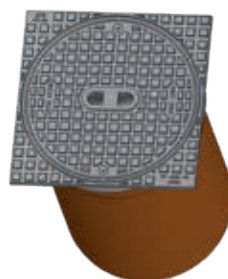
A15



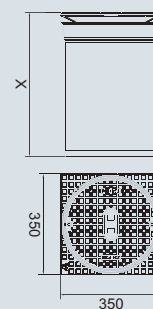
KPB1

Non-ventilated, square frame, secured with two screws.

Code	X	Weight	Packing
KPB1	9 cm – no pipe	13.3 kg	60 pcs/pal
KPB150	50 cm	19.1 kg	18 pcs/pal
KPB170	70 cm	21.1 kg	12 pcs/pal



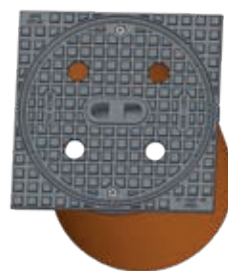
B125



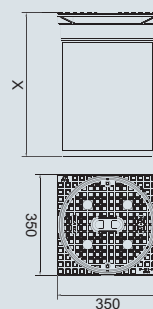
KPB2

Ventilated, square frame, secured with two screws.

Code	X	Weight	Packing
KPB2	9 cm – no pipe	13.4 kg	60 pcs/pal
KPB250	50 cm	19.2 kg	18 pcs/pal
KPB270	70 cm	21.2 kg	12 pcs/pal



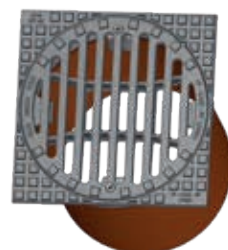
B125



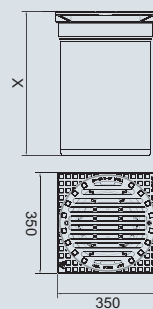
KPBM

Grating, square frame, secured with two screws.

Code	X	Weight	Packing
KPBM	9 cm – no pipe	13.9 kg	60 pcs/pal
KPBM50	50 cm	19.7 kg	18 pcs/pal
KPBM70	70 cm	21.7 kg	12 pcs/pal



B125



Covers for elements DN315/DN400/DN600/DN1000

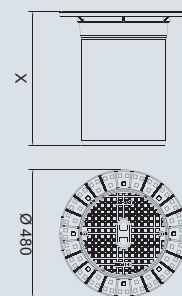


KPD1

Non-ventilated, round frame,
PUR gasket, secured with two screws.

Code	X	Weight	Packing
KPD1	9 cm – no pipe	20.1 kg	60 pcs/pal
KPD150	50 cm	25.9 kg	18 pcs/pal
KPD170	70 cm	27.9 kg	12 pcs/pal

D400

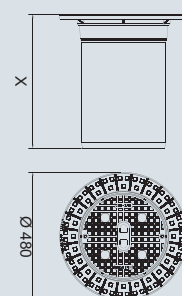


KPD2

Ventilated, round frame, PUR gasket,
secured with two screws.

Code	X	Weight	Packing
KPD2	9 cm – no pipe	20.1 kg	60 pcs/pal
KPD250	50 cm	25.9 kg	18 pcs/pal
KPD270	70 cm	27.9 kg	12 pcs/pal

D400

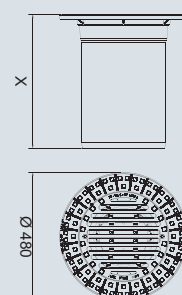


KPDM

Ventilated, round frame, PUR gasket,
secured with two screws.

Code	X	Weight	Packing
KPDM	9 cm – no pipe	21.1 kg	60 pcs/pal
KPDM50	50 cm	26.9 kg	18 pcs/pal
KPDM70	70 cm	28.9 kg	12 pcs/pal

D400

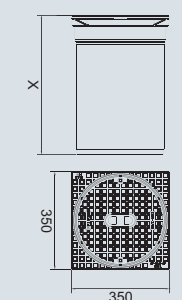


KPD3

Non-ventilated, square frame, PUR gasket, secured with two
screws.

Code	X	Weight	Packing
KPD3	9 cm – no pipe	20.2 kg	60 pcs/pal
KPD350	50 cm	26.0 kg	18 pcs/pal
KPD370	70 cm	28.0 kg	12 pcs/pal

D400



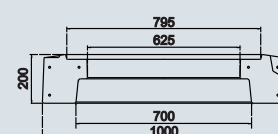
BORD1000/700

Concrete spreading frame for cover installation on
plastic manholes DN600/DN1000. Weight: 175 kg,
packing: 5 pcs/pal.

XTDMAN

Rubber reduction gasket from DN400 to DN315.

D400





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The KASI catalogue set also includes:

- | Manhole covers and adjustment rings
- | Street gullies and gully gratings
- | Manhole steps

