

TECHNICAL DATA SHEET



ECOTOP grate DN700

Manhole cover for water collection and drainage

Conform to EN 124-2
RAL-GZ692
Class: D400



PRODUCT DESCRIPTION

Self-leveling round cast iron frame and grate 700 [mm]. The grate is equipped with exchangeable MEIPREN cushioning inserts, which ensure the damping of noise generated during operation and increases lifetime of cover. The grate frame is compatible with a MEISTEP boarding tool socket to facilitate boarding (according to DIN 19572). Inlet cross-section: 1028 cm². It is certified at independent institution (KIWA) according to EN 124 and tested according to RAL-GZ692, a certificate is available to confirm this.

Material: cast iron

Weight: 83,5 kg

Height: 150 mm

Standards: EN 124-2, RAL-GZ692

Country of origin of the product: Germany



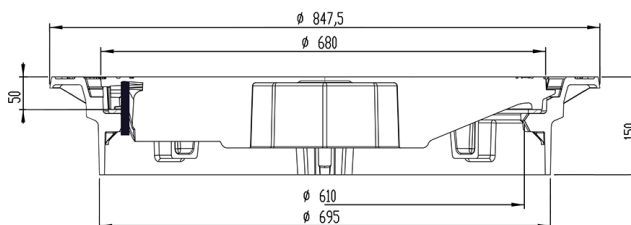
Class:
D400

APPLICATION AREA

By the application cover corresponds to 4th group of EN 124 (class D400) which states that cover can be used on carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.

PRODUCT DIMENSIONS

Parameters	Nominal size — DN700
Outer diameter of the frame, mm	847,5
Opening, mm	610
Height, mm	150
Frame neck size, mm	695

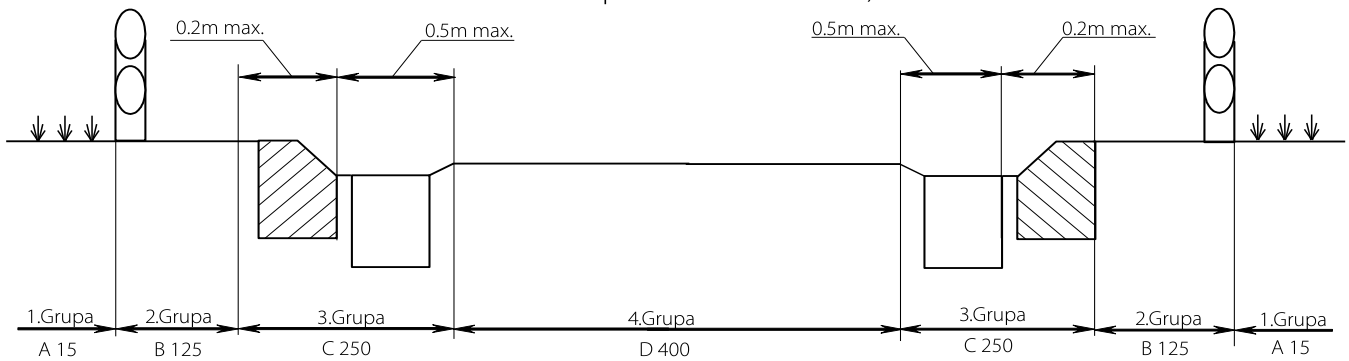


PRODUCT

Parameters	Description	Standard
Material	Cast iron	EN 124-2
Load capacity, kN	400	EN 124-2, RAL-GZ692
Weight, kg	83,5	

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Selection of chamber cover depending on the designed traffic load at the installation place (according to the requirements of EN 124).



Cross section of street where different groups of chamber covers are displayed according to EN 124.

Group	Class	Load, kN (t)	Application area
1st group	A 15	15 (1.5)	Areas which can only be used by pedestrians and pedal cyclists.
2nd group	B 125	125 (12.5)	Pedestrian areas and comparable areas, car parks or car parking decks.
3rd group	C 250	250 (25)	For gully tops, installed in the area of kerbside channels of roads which, when measured from the kerb edge, extends a maximum of 0,5m into carriageway and a maximum of 0,2 m into the pedestrian area.
4th group	D 400	400 (40)	Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.
5th group	E 600	600 (60)	Areas imposing high wheel loads, e.g. docks, aircraft pavements.
6th group	F 900	900 (90)	Areas imposing particularly high wheel loads, e.g. aircraft pavements.

Corresponding standards

No.	Title
EN 124	Gully tops and manhole tops for vehicular and pedestrian areas. Design requirements, type testing, marking, quality control.
EN 124-1	Gully tops and manhole tops for vehicular and pedestrian areas. Definitions, classification, general principles of design, performance requirements and test methods.
EN 124-2	Gully tops and manhole tops for vehicular and pedestrian areas. Gully tops and manhole tops made of cast iron.
EN 124-3	Gully tops and manhole tops for vehicular and pedestrian areas. Gully tops and manhole tops made of steel or aluminium alloys.
EN 124-4	Gully tops and manhole tops for vehicular and pedestrian areas. Gully tops and manhole tops made of steel reinforced concrete.
EN 124-5	Gully tops and manhole tops for vehicular and pedestrian areas. Gully tops and manhole tops made of composite materials.
EN 124-6	Gully tops and manhole tops for vehicular and pedestrian areas. Gully tops and manhole tops made of polypropylene (PP), polyethylene (PE) or unplasticized poly (vinyl chloride) (PVC-U).