

## DECLARATION OF PERFORMANCE

### MARMOX Manhole cover

**1. Product Type:**

Unique identification code of the product-type:

**MARMOX Manhole cover gem**

**2. Type** batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

..... (type, date, order no. see label and product)

**3. Intended use** or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**Heavy duty manhole and golly covers** (as per the order items)

**See point 8.**

**4. Name, registered trade name** or registered trade mark and contact address of the manufacturer:

**MARMOX Manhole Cover**

**MARMOX, 319 El Haram St., Giza / Egypt  
Tel.: +20 – 23 58 28 534**

**5. Contact Address:**

Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

**LMS Dr. Lietz Marketing Services GmbH  
Wackenbergstr. 65-75  
D – 13156 Berlin**

**6. AVCP:**

System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V:

**Near East Services**

El Riham St, First 6<sup>th</sup> of October, Giza Governorate.

**National Organisation for Potable Water and Sanitary Drainage Egypt.**

Administration of Testing & Industry Supervision.

Gazirat Mit Oqbah, Agouza, Giza Governorate.

**National Research center**

Canter unit for analysis and scientific services

Dokki, Cairo, Egypt

**7. Harmonised standard:**

**EN 124:2015-5**

# Declaration of Performance

## 8. Declared performance:

S/N	Article	Class	Place of installation
1	0002M01	A-15 RD 600	Areas which can only be used by pedestrians and pedal cyclists
2	0002M02	B-125 RD 600	Footways, pedestrian areas and comparable areas, car parks or car parking decks
3	0002M03	C-250 RD 600	For gully tops installed in the area of curbside channels of roads which when measured from the curbside, extends a maximum of 0.5 m into the carriage way and a maximum of 0.2 into the footway.
4	0002M04	D-400 RD 600	Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.
5	0004M03	D-400 RD 640	Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.
6	0004M01	Grid C250 BK67	Manhole Grids are installed in the area of curbside channels of roads.
7	0004M02	Grid D400 BK67	Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.

## TECHNICAL SPECIFICATION OF

Property	Measurement Method	Values	Unit
Density	DIN 53472	2.4 (±5%)	g/cm <sup>3</sup>
Bending Strength	DIN 1164	300 (±5%)	kg/cm <sup>2</sup>
Compressive Strength	DIN 1164	900 (±5%)	kg/cm <sup>2</sup>
Tensile Strength	DIN 53455	150 (±5%)	kg/cm <sup>2</sup>
Modulus of Elasticity	DIN 53457	2.5 x 10 <sup>5</sup>	kg/cm <sup>2</sup>
Surface Hardness	ASTM D2583 & EN59	≥ 35	
Linear Thermal Coefficient of Expansion	VDE 0304/1	1.5 x 10 <sup>-5</sup> / 1°C	
Water Absorption	DIN 53495	< 0.3%	
Chemical Resistance		Highly resistant	
Environmental Aspects		Environmental friendly	
Fire Resistance	DIN 4102	Fire resistant (A2)	

## 9. Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Eng. Osama Saleh  
General Manager

Uwe Lietz, GF  
Head Corporate Target Market

Dr. Lietz Marketing Service GmbH  
Wackenbergsstraße 65-75  
13156 Berlin  
Tel. 030/47 75 03 50, Fax 030/4 77 11 41

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 **CMB**  
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