

DECLARATION OF PERFORMANCE

MARMOX Manhole and gully covers

1. Product Type: Unique identification code of the product-type:	MARMOX Manhole and gully covers
2. Material:	Polymer concrete
3. Type serial number or any other element allowing identification of the construction product as required under Article 11(4):	0002 M01, 0002 M02, 0002 M03, 0002 M04, 0002 M 05, 0003 M01, 0003 M02, 0003 M03, 0004 M01, 0004 M02, 0004 M03, 0004 M04, 0005 M01, 0005 M02, 0005 M03
4. 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 gully covers (as per the order items) See point 9.
5. 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
6. 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
7. AVCP: System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V:	SGS Egypt Limited LLC Industrial Service – member of SGS Group. 9G Ahmed Kamel Street (off Laselky Street), New Maadi, Cairo, Egypt. National Organisation for Potable Water and Sanitary Drainage Egypt. Administration of Testing & Industry Supervision. Nasr City – Cairo. Egypt. National Research center Center unit for analysis and scientifically services Dokki, Cairo, Egypt.
8. Standard:	EN 124

9. Declared performance:

CLASSES OF MARAMOX MANHOLE COVERS ACCORDING TO EN-124

Group	Min. Class	Place of installation
1	A-15	Areas which can only be used by pedestrians and pedal cyclists
2	B-125	Footways, pedestrian areas and comparable areas, car parks or car parking decks
3	C-250	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	D-400	Carriage ways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.
5	E-600	Areas imposing high wheel roads, e.g. decks, aircraft pavements
6	F-900	Areas imposing particularly high wheel loads, e.g. aircraft pavements

TECHNICAL SPECIFICATION OF

Property	Measurement Method	Values	Unit
Density	DIN 53472	2.45 (±5%)	g/cm ³
Bending Strength	DIN 1164	300 (±5%)	kg/cm ²
Compressive Strength	DIN 1164	1150 (±5%)	kg/cm ²
Tensile Strength	DIN 53455	150 (±5%)	kg/cm ²
Modulus of Elasticity	DIN 53457	2.5 x 10 ⁵	kg/cm ²
Surface Hardness	DIN 53505	≤ 80	
Linear Thermal Coefficient of Expansion	VDE 0304/1	1.5 x 10 ⁻⁵ / 1°C	
Water Absorption	DIN 53495	< 0.1%	
Chemical Resistance		Highly resistant	
Environmental Aspects		Environmental friendly	
Fire Resistance	DIN 4102	Fire resistant (A2)	

10. Declaration

The performance of the product identified in points 1 and 3 is in conformity with the declared performance in point 9. This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 5.

Signed for and on behalf of the manufacturer by:



Mourad Hawas
Head Corporate Product Engineer Membranes



Uwe Lietz, GF
Head Corporate Target Market

9, January 2015.

9. Declared performance:

CLASSES OF MARAMOX MANHOLE COVERS ACCORDING TO EN-124

Group	Min. Class	Place of installation
1	A-15	Areas which can only be used by pedestrians and pedal cyclists
2	B-125	Footways, pedestrian areas and comparable areas, car parks or car parking decks
3	C-250	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	D-400	Carriage ways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.
5	E-600	Areas imposing high wheel roads, e.g. decks, aircraft pavements
6	F-900	Areas imposing particularly high wheel loads, e.g. aircraft pavements

TECHNICAL SPECIFICATION OF

Property	Measurement Method	Values	Unit
Density	DIN 53472	2.45 (±5%)	g/cm ³
Bending Strength	DIN 1164	300 (±5%)	kg/cm ²
Compressive Strength	DIN 1164	1150 (±5%)	kg/cm ²
Tensile Strength	DIN 53455	150 (±5%)	kg/cm ²
Modulus of Elasticity	DIN 53457	2.5 x 10 ⁵	kg/cm ²
Surface Hardness	DIN 53505	≤ 80	
Linear Thermal Coefficient of Expansion	VDE 0304/1	1.5 x 10 ⁻⁵ / 1°C	
Water Absorption	DIN 53495	< 0.1%	
Chemical Resistance		Highly resistant	
Environmental Aspects		Environmental friendly	
Fire Resistance	DIN 4102	Fire resistant (A2)	

10. Declaration

The performance of the product identified in points 1 and 3 is in conformity with the declared performance in point 9. This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 5.

Signed for and on behalf of the manufacturer by:

Mourad Hawas
Head Corporate Product Engineer Membranes

Uwe Lietz, GF
Head Corporate Target Market

9th, January 2015.