



MEMECO
GENERAL TRADING

MEMECO

MANHOLE DATASHEET



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INTRODUCTION

A manhole is an access point or opening in a utility system, typically located on streets or in public areas, that provides entry to underground utilities, such as sewer lines, storm water drains, water mains, electrical or telecommunications cables, and more. Manholes play a crucial role in the maintenance, inspection, and repair of these underground systems. Here is an introduction to manholes:

Key Features of Manholes:

- 1. Access Point:** Manholes serve as entry and exit points for personnel to access underground utilities for maintenance, inspection, cleaning, or repair.
- 2. Cover and Frame:** A manhole typically consists of a cover and frame at the surface level, designed to be load-bearing and safe for both pedestrians and vehicular traffic.
- 3. Shaft or Cylindrical Structure:** Below the cover, there is a vertical shaft or cylindrical structure that extends down to the depth of the underground utility. This shaft allows workers to descend into the utility system.
- 4. Ladder or Steps:** Inside the manhole shaft, there are often ladders, steps, or rungs to facilitate safe descent and ascent.
- 5. Utility Connection:** The utility system, whether it's a sewer line, water main, or other infrastructure, is connected to the manhole through pipes or conduits.
- 6. Safety Features:** Manholes are designed with safety in mind and may include features such as ventilation to control fumes, lighting for visibility, and safety barriers.

Types of Manholes:

- 1. Sewer Manholes:** These provide access to sewer lines for inspection, cleaning, and maintenance.
- 2. Storm water Manholes:** Designed to manage storm water drainage and prevent flooding. They provide access to storm water systems.
- 3. Utility Manholes:** These are used to access a variety of utility systems, including telecommunications, electrical, and gas lines.
- 4. Water Main Manholes:** Access points for water distribution and maintenance of water mains.
- 5. Traffic Signal Manholes:** Used for housing and accessing traffic signal and control equipment.
- 6. Sanitary Manholes:** Provide access to sanitary sewer systems for waste disposal.

Importance of Manholes:

- **Maintenance and Repairs:** Manholes allow utility workers to perform routine maintenance, inspections, and emergency repairs on underground systems without the need for excavation.
- **Access for Inspections:** Regular inspections are crucial to identify and address issues before they become major problems.
- **Public Safety:** Properly designed and maintained manholes ensure the safety of pedestrians and vehicles by covering and securing access points.
- **Utilities Management:** Manholes enable efficient management of utility systems, ensuring they function properly and reliably.

Manholes are an essential part of urban infrastructure, and they are designed and maintained to ensure the safe and reliable operation of underground utility systems.



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SPECIFICATIONS

- Made from raw non-recyclable materials (against theft)
- Made from resins materials non harmful to the environment.
- High resistance to acids and alkalis in different concentration.
- Durability and high resistance to friction and shocks.
- Maintenance free
- Less weight than those made from cast iron and noiseless.
- Assorted sizes and colors

LABORATORY TEST RESULTS

There is no change the color or cracks when exposed to UV.

• Acid impact test results

Effect of sulfuric acid (not to exceed 0.9%)

Effect of sulfuric acid (not to exceed 0.9%)

• Chlorides and sulfates effects test results

The impact of chlorides (not to exceed 0.92%)

The impact of polymetallic (not to exceed 0.95%)

• Organic solvents effects test results

The impact of gasoline (not to exceed 0.98%)

The impact of kerosene (not to exceed 0.91%)

• Alkali impact test results

Effect of sodium hydroxide (not to exceed 0.94%)

About SMC

SMC composite is a short form of "Sheet Moulding Compound". It's composed of resin, fiberglass and other chemical polymers, It's homogeneous material and often used in aerospace composite structures.

Outstanding Advantages:

- 1, It can maintain good dielectric performance under high frequency, and does not reflect or block the microwave. It is suitable for application in crowded or narrow places, and can effectively avoid the danger of electric shock.
- 2, It has effective resistance to water, gasoline, alcohol, electrolyte salt, acetic acid, sodium potassium compounds, asphalt, acid base soil and acid rain corrosion.
- 3, Under the combined action of three-dimensional network molecular structure and reinforcing fiber, the material has good impact resistance, easy to be machined, easy to drill and cut, and accurate positioning.
- 4, It has strong impact resistance to avoid deformation, with high tensile strength, bending strength and impact toughness.
5. As a smokeless and non-toxic material, it does not contain halogens, and it's an environmentally friendly material that can meet the needs of future development.
- 6, The fire retardant can reach to FVO level, and the smoke & gas level is quasi-safety level 1 (ZA1), which meets the requirements of domestic and international UL94 standards.
7. It's a poor conductor of heat, has low deformation rate of high-temperature resistance which can reduce the influence of environmental temperature difference on the internal structure of products.
8. It's able to adapt to any kind of harsh weathers, it can be used in the climate of -50°C-160°C for a long time. The protection level is IP54, which can maintain good physical and mechanical properties.



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Gas station / Anti- leakage Manhole Covers

1. This series of products can achieve a bearing capacity higher than the standard EN124 D400. Our company has high-quality sheet material produced by advanced sheet equipment, industry-leading lightweight design and large press production of 1500 tons.
2. The products have high density, strong resistance to pressure, bending resistance, impact resistance, heat and cold resistance, abrasion and aging resistance, acid and alkali corrosion resistance and not easy deformation.
3. It utilizes special material for the sealing ring design, with anti-leakage function, including to prevent the rainwater seep into, sewage overflow and smell out. It's able to solve the noise generated by passing vehicles to prevent noise pollution and environmental pollution.






Anti-theft & Double-layer Design

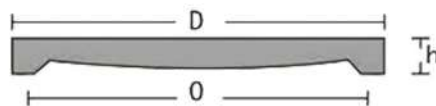
1. The specially designed double-layer manhole cover is patented as a utility model.
2. It is equipped with anti-theft lock device and opening hole. The main cover and well base are connected by means of clamshell.
- 3, Double cover design is useful when the main cover damaged sub-cover can also play a temporary buffer role, to prevent falling danger. There are two handles on the sub-cover that can be opened directly without other auxiliary tools, and there are four leakage holes to prevent water from filling up.



MONHOLE COVER SERIES

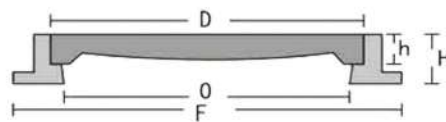
PRODUCT CODE	CLEAR OPENING	LOADING CAPACITY	O	D	H	LOCK/SCREW	SEALING
MEM-MNH DN500	500	500 KG	500	550	34		
MEM-MNH DN600	600	500 KG	600	650	34		
MEM-MNH DN700	700	500 KG	700	760	36		
MEM-MNH DN800	800	500 KG	800	890	37		

-  BLACK
-  GRAY
-  BLUE
-  GREEN
-  OTHER

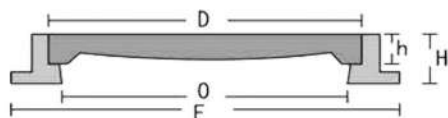


PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h	LOCK/SCREW	SEALING
MEM-MNH F800X800S	600	D400/C250	600	660	800x800	100	70	SCREW	YES
MEM-MNH F890X890S	600	D400/C250	600	690	800x850	100	70	SCREW	YES

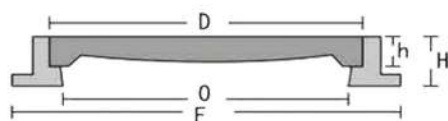
-  BLACK
-  GRAY
-  BLUE
-  GREEN
-  OTHER



PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h	LOCK/SCREW	SEALING
MEM-MNH DN500	450	D400/C250/B125/A15	450	500	600	90	60	SCREW	YES
MEM-MNH DN600	550	D400/C250/B125/A15	550	600	700	90	70	SCREW	YES
MEM-MNH DN700	610	D400/C250/B125/A15	610	700	860	105	70	SCREW	YES
MEM-MNH DN860	800	D400/B125	800	860	970			SCREW	YES
MEM-MNH DN900	840	D400/C250/B125/A15	840	900	1050	115	80	SCREW	YES



PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h	LOCK/SCREW	SEALING
MEM-MNH CO600	600	D400/C250/B125/A15	600	660	755	100	70	SCREW	YES
MEM-MNH720	630	D400/C250/B125/A15	630	720	870	96	70	SCREW	YES






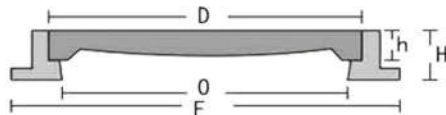
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SMC MANHOLE COVER





PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h	LOCK/SCREW	SEALING
MEM-MNH F300x300A	450	220x220	220x200	244x244	300x300	30	20	NO	YES
MEM-MNH300x300A	550	273x273	273x273	300x300	355x355	30	20	NO	YES
MEM-MNH F400x400A	610	320x320	320x320	345x345	400x400	30	20	NO	YES
MEM-MNH400x400A	800	375x375	375x375	400x400	450x450	31	20	NO	YES
MEM-MNH500x500A	840	475x475	475x475	500x500	557x557	31	20	NO	YES
MEM-MNH CO450x450A	840	450x450	450x450	472x472	527x527	30	20	NO	YES
MEM-MNH CO600x450A	840	600x450	600x450	622x472	677x527	30	20	NO	YES
MEM-MNH600x600	840	550x550	550x550	600x600	690x690	100	70	SCREW	YES
MEM-MNH CO600x600	840	600x600	600x600	660x660	750x750	100	75	SCREW	YES
MEM-MNH CO600x900	840	600x900	600x900	660x960	760x1060	100	65	SCREW	YES
MEM-MNH CO900x900	840	900x900	900x900	960x960	1060x1060	110	75	SCREW	YES

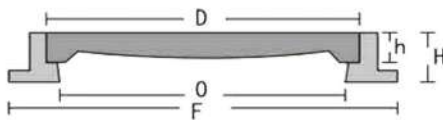
-  BLACK
-  GRAY
-  BLUE
-  GREEN
-  OTHER



COMPOSITE TELCOM MANHOLE COVER

PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h	LOCK/SCREW	SEALING	HINGE
MEM-MNH500x750	450x700	D400 C250 B125	220x200	500x750	600x850	100	60	SCREW	YES	YES
MEM-MNH750x1000	700x950	D400 C250 B125	273x273	750x1000	850x1100	100	60	SCREW	YES	YES
MEM-MNH750x1500	700x1450	D400 C250 B125	320x320	750x1500	850x1600	100	60	SCREW	YES	YES
MEM-MNH500x1000	435x926	D400 C250 B125	375x375	500x1500	613x1143	100	60	SCREW	YES	YES
MEM-MNH1000x1000	935x935	D400 C250 B125	475x475	1000x1000	1115x1115	100	60	SCREW	YES	YES
MEM-MNH1000x1500	935x1435	D400 C250 B125	450x450	1000x1500	1125x1625	100	60	SCREW	YES	YES
MEM-MNH520x800	455x735	D400 C250 B125	600x450	520x800	635x920	100	60	SCREW	YES	YES
MEM-MNH800x1040	735x980	D400 C250 B125	550x550	800x1040	920x1160	100	60	SCREW	YES	YES
MEM-MNH800x1560	735x1500	D400 C250 B125	600x600	800x1560	920x1685	100	60	SCREW	YES	YES

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-  GRAY
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-  OTHER

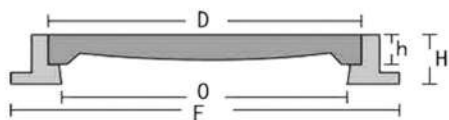
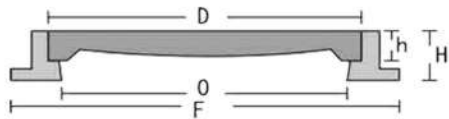


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SMC COMPOSITE FUEL STATION MANHOLE COVER

PRODUCT CODE	LENGTH	LOADING CLASS	H	D	F	H	h	STANDARC	HINGED
MEM-MNH LD15	900	D 400	900	976	1020	100	38	EN 124	NO
MEM-MNH LD15	1025	C 250	1025	1100	1200	100	38	EN 124	NO

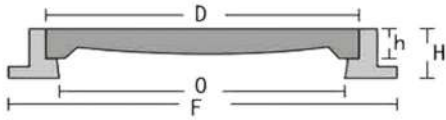


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SMC COMPOSITE LINEAR DRAIN SERIES

PRODUCT CODE	LN	L	LENGTH	H	HI	LOADING/CLASS
MEM-MNH LD15	150	200	1000			4 TONES
MEM-MNH LD15	200	250	1000			4 TONES
MEM-MNH LD15	250	300	1000			4 TONES
MEM-MNH LD15	300	350	1000			4 TONES



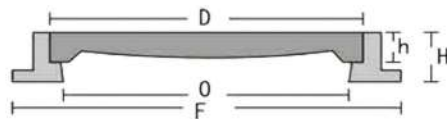
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GULLY GRATING

PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h	LOCK/SCREW	SEALING
MEM-MNH G300x300B	264x264	B125	264x264	300x300	374x374	45	30	NO	NO
MEM-MNHG400x400B	358x358	B125	358x358	400x400	480x480	47	30	NO	NO
MEM-MNH G500x500B	452x452	B125	452x452	500x500	589x589	60	40	NO	NO
MEM-MNH G300x500	266x266	C250 C125	266x266	300x500	366x366	60	40	NO	NO
MEM-MNH G400x500C	340x440	C250	340x440	400x500	500x600	60	40	NO	NO
MEM-MNH G400x600C	350x550	C250	350x550	400x600	500x700	60	40	NO	NO
MEM-MNH G450x750C	400x700	C250	400x700	450x750	555x855	70	50	NO	NO

-  BLACK
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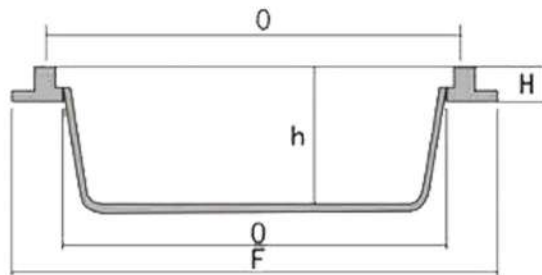


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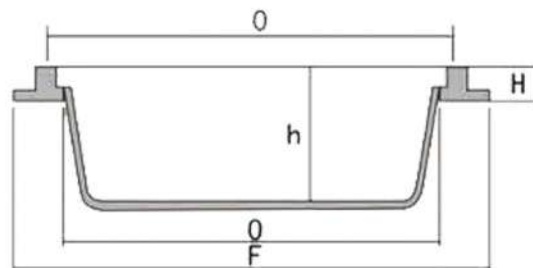
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GRASS MANHOLE COVER

PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h
MEM-MNH L500A	465	A15	465	500	565	43	120
MEM-MNH L600A	565	A15	565	600	670	43	120
MEM-MNH L700A	662	A15	662	700	770	40	120



PRODUCT CODE	CLEAR OPENING	CLASS	O	D	F	H	h
MEM-MNH L400x400A	375x375	A15	375x375	400x400	457x457	20	123
MEM-MNH L500x500A	465x465	A15	465x465	500x500	573x573	30	130
MEM-MNH L600x600A	550x550	A15	550x550	600x600	695x695	40	135
MEM-MNH L500x750A	445x690	A15	445x690	500x750	605x850	30	130
MEM-MNH L750x1000A	690x940	A15	690x940	750x1000	1157x850	30	130
MEM-MNH L750x1500A	690x1435	A15	690x1435	750x1500	1595x850	30	130



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PACKAGE AND PACKING:

Usually export goods are packed in pallets in our factory before loading, as shown in the picture below.



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