

Add:Bali Village Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province, China.

1000 mm Net Opening SMC Composite Sealing Manhole Covers for Gas Station Driveway Applications

SMC composite material is an unsaturated resin glass fiber reinforced sheet molding compound, mainly composed of unsaturated resin, glass fiber, fillers, and functional additives. It is a high-performance composite material used for high-temperature compression molding. Its physical and chemical properties are as follows:

1. Anti-static Property:

SMC material with a surface resistivity of 10^7 ohms provides excellent anti-static performance. According to Chinese national standards, SMC material is considered to have anti-static properties if its surface resistivity is between 10^6 and 10^8 ohms. Through special formulations and processes, we achieve a surface resistivity of 10^7 ohms, giving the products better anti-static performance. Products made from SMC material are suitable for environments with flammable gases and can effectively prevent the risk of explosions caused by static electricity.

2. Chemical Corrosion Resistance:

SMC material has excellent resistance to chemical corrosion (resistant to acids, alkalis, salts, organic solvents, etc.), effectively resisting water, gasoline, alcohol, electrolytic salts, acetic acid, hydrochloric acid, sodium and potassium compounds, urine, asphalt, various acidic and alkaline soils, and acid rain corrosion. It can be used long-term in buried and oil/gas environments without causing changes to the internal structure and performance of the material.

3. Water Resistance:

SMC material has high density and low water absorption (0.15 mg), giving it excellent water resistance.

4. Deformation Resistance and Load-bearing Capacity:

SMC material has good mechanical properties. With optimized structural design, the products do not deform, shift, or crack during installation and use, and they have good load-bearing capacity.

5. High and Low Temperature Resistance and Shrinkage Deformation Resistance:

SMC material has a heat distortion temperature greater than 200°C and can be used long-term between -55°C and $+150^{\circ}\text{C}$. Changes in environmental temperature do not affect the product's performance. The material has a very low thermal expansion coefficient ($12 \times 10^{-6} / ^{\circ}\text{C}$), similar to that of steel, ensuring that temperature changes do not cause the surrounding soil to loosen.

6. Aging Resistance:

As the SMC material has excellent aging resistance so the product which is made of SMC material also has good aging resistance. The surface of the product has a strong UV-resistant protective layer, providing dual protection for better aging resistance. It is suitable for all kinds of harsh weather conditions and can maintain good physical and mechanical properties in environments ranging from -55°C to $+150^{\circ}\text{C}$. With a protection rating of IP54, SMC composite material ensures long product life and maintenance-free use.

Main Performance:

Item.	Performance	Test Method
Compressive strength	MPa ≥ 30	Refer to GBJ81
Flexural strength	MPa ≥ 14	Refer to GBJ81
Impact resistance	KJ/m ² ≥ 95	Refer to GB/T1043
Freeze-thaw resistance compressive strength loss rate	% ≤ 13	Refer to GBJ82

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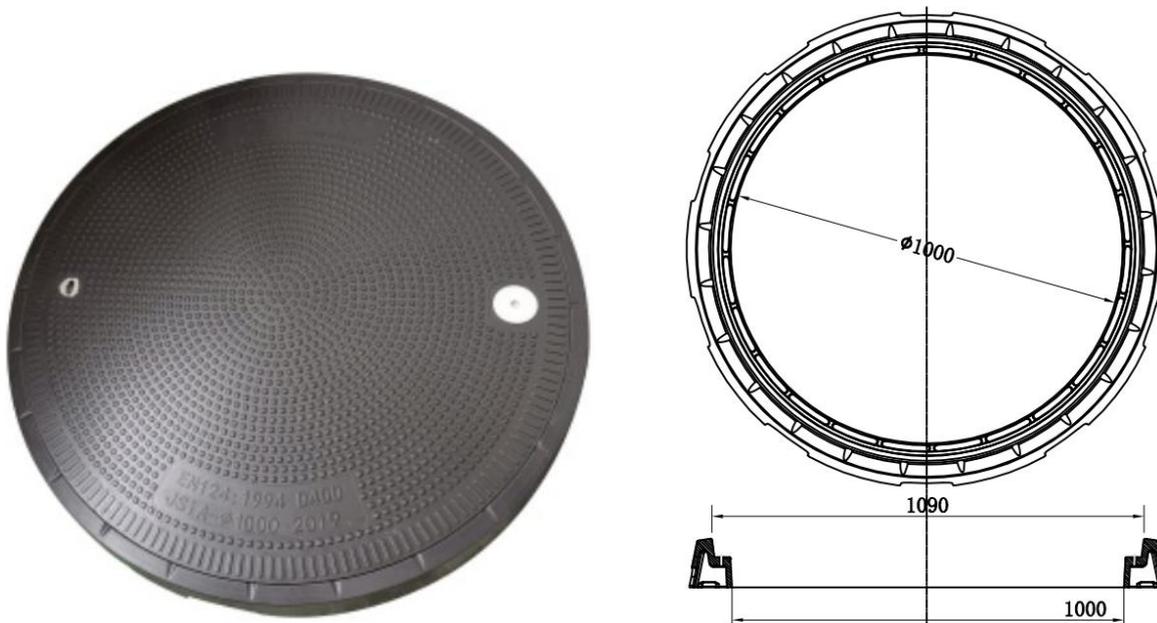
Features:

It weighs less than one-third of cast iron products, making it easy to install and convenient for regular inspection and maintenance.

It addresses issues like preventing bouncing, resisting impact, and reducing noise through its structure, overcoming challenges that cast iron products struggle with.

It has a refined and attractive appearance. You can choose colors that harmonize with the environment or categorize them according to industry standards, enhancing urban aesthetics."

1000 mm Net Opening Series of Sealing Manhole Cover Kits



Ordering Specifications:

Item No.	Manhole Cover	Cover Outer Diameter	Cover Insert Depth	Loading Class
C1090-400	Manhole Cover	1090 mm	50 mm	D400 (40 Ton)
C1090-250		1090 mm	50 mm	C250 (25 Ton)
F1180	Frame	Frame Outer Diameter	Frame Height	Net Opening Diameter
		1180 mm	100 mm	1000 mm

Technical Specifications:

Dimensions in the diagram are in millimeters (mm).

Material: Surface layer made of SMC composite material.

Exterior surface: Features square raised patterns for anti-skid purposes.

Color: We can produce it according to client's requirement

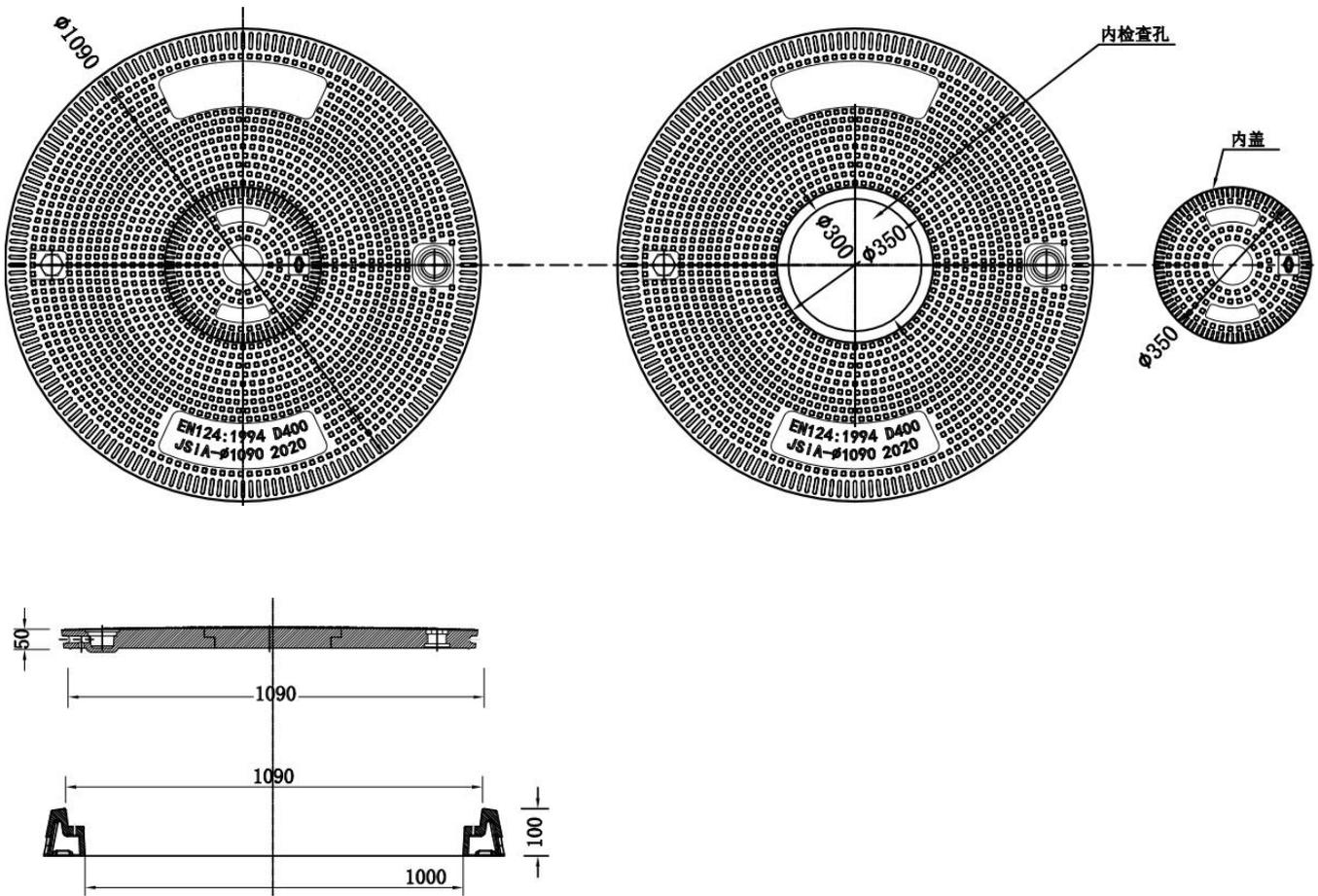
Product Features: Load-bearing, Sealed, Watertight, Antiskid, Anti-static

Material: SMC, Rubber Seals and Metal Fastenings

Suitable for gas station driveway load-bearing areas, heavily used lanes and sites for heavy vehicles

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1000 mm Net Opening Series of Sealing Manhole Cover With Monitoring Hole Kits



Ordering Specifications:

Item No.	Manhole Cover with Monitoring Hole	Cover Outer Diameter	Cover Insert Depth	Loading Class
C1090-400-M		1090 mm	50 mm	D400
F1180	Frame	Frame Outer Diameter	Frame Height	Net Opening Diameter
		1180 mm	100 mm	1000 mm

Technical Specifications:

Dimensions in the diagram are in millimeters (mm).

Material: Surface layer made of SMC composite material.

Exterior surface: Features square raised patterns for anti-skid purposes.

Color: We can produce it according to client's requirement

Product Features: Load-bearing, Sealed, Watertight, Antiskid, Anti-static

Material: SMC, Rubber Seals and Metal Fastenings

Suitable for gas station driveway load-bearing areas, heavily used lanes and sites for heavy vehicles