ACO Composite Manhole Covers

Material performance that meet global standards
Sheet molding compound (SMC) resin is a fiberglass-based compression molding that is used in applications that require high strength. SMC is comprised of several materials including fiberglass, polymer resin, release agents and thickeners.

Why choose Composite Manhole Covers?

- Low risk of theft
- Available in round and square top sections
- Light, Medium and Heavy load classes (A15 – E600) for different applications
- Low maintenance and easy installation
- High chemical resistance to light oil and hydrocarbon
- High resistance to biological substances
- Light weight elements compared to concrete products
- Thermal stability and UV resistance
- Conforms to BS EN124 standards

Features and Benefits

- Two SS screws ensure secure locking of frame and cover
- Two vented opening holes makes it easy to lift the cover with tools
- Durable – manufactured from SMC material
- Sustained load tested
- Fire resistant
- Impact tested
- Lightweight – minimizes lifting / maintenance injuries

Typical applications

- Pedestrian walkways and pedal cyclists
- Car parking decks
- Driveways
- Coastal areas (near beaches and waterways)
- Footpaths
- Residential areas
- Sewer & Storm water drains
- Fuel and trade waste
- Water Parks and recreational areas

www.aco.co.za
ACO Composite Manhole Covers

Product information

<table>
<thead>
<tr>
<th>Product Codes</th>
<th>Clear opening</th>
<th>Load class</th>
<th>O</th>
<th>D</th>
<th>F</th>
<th>H</th>
<th>h</th>
<th>Lock</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZA-MR112D</td>
<td>600</td>
<td>D400</td>
<td>600</td>
<td>650</td>
<td>790</td>
<td>100</td>
<td>48</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Codes</th>
<th>Clear opening</th>
<th>Load class</th>
<th>O</th>
<th>D</th>
<th>F</th>
<th>H</th>
<th>h</th>
<th>Lock</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZA-MS220A</td>
<td>450*450</td>
<td>A15</td>
<td>450*450</td>
<td>500*500</td>
<td>620*620</td>
<td>75</td>
<td>50</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>ZA-MS220B</td>
<td>450*450</td>
<td>B125</td>
<td>450*450</td>
<td>500*500</td>
<td>620*620</td>
<td>75</td>
<td>50</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Codes</th>
<th>Clear opening</th>
<th>Load class</th>
<th>O</th>
<th>D</th>
<th>F</th>
<th>H</th>
<th>h</th>
<th>Screw</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZA-MS209D</td>
<td>600*450</td>
<td>D400</td>
<td>600*450</td>
<td>655*505</td>
<td>760*610</td>
<td>100</td>
<td>50</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ZA-MS209B</td>
<td>600*450</td>
<td>B125</td>
<td>600*450</td>
<td>655*505</td>
<td>760*610</td>
<td>100</td>
<td>50</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

EN124 Load Class Standards

<table>
<thead>
<tr>
<th>Group</th>
<th>Traffic Description</th>
<th>Class</th>
<th>Proof Load kN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Areas which can only be used by pedestrians and pedal cyclists.</td>
<td>A15</td>
<td>15 kN</td>
</tr>
<tr>
<td>2</td>
<td>Footways, pedestrian areas and comparable parks or car parking decks.</td>
<td>B125</td>
<td>125 kN</td>
</tr>
<tr>
<td>3</td>
<td>For gullies installed in the area of kerbside channels of roads.</td>
<td>C250</td>
<td>250 kN</td>
</tr>
<tr>
<td>4</td>
<td>Carriageways of roads (including pedestrian streets), hard shoulders and parking</td>
<td>D400</td>
<td>400 kN</td>
</tr>
<tr>
<td></td>
<td>areas, for all types of road vehicles.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Areas of imposing high wheel loads, e.g. dock and aircraft pavements.</td>
<td>E600</td>
<td>600 kN</td>
</tr>
</tbody>
</table>

www.aco.co.za
The surface water or the liquids being treated are collected from the surface as quickly and as completely as possible by the drainage system. This part of the ACO systems chain guarantees protection, safety and comfort for the people, buildings and traffic routes in the immediate vicinity.

The collected liquids are treated using integrated physical, chemical or biological processes that ensure they can be discharged into the public sewers – the minimum requirement. This part of the ACO system chain creates the conditions for recycling and sustainable use.

Containers, barriers and valves ensure that the liquids stay within the drainage system where they can be properly controlled. This part of the ACO system chain enhances protection and safety for extreme situations: e.g. heavy rain, flooding or handling hazardous liquids.

Pumps, lifting plant and pipe systems transfer the collected, treated and controlled water into the downstream system and processes. This part of the ACO system chain brings the collected, treated and controlled water to the surfaces for further treatment, reuse or release.

Your local sales contact

ACO Systems SA
122 Shad Road
Wadeviile Ext 2
Germiston
Gauteng
South Africa
0157

Tel: +27 11 824 3525/6
Email: info@aco.co.za

www.aco.co.za
www.buildingdrainage.aco
www.hygienefirst.com
Your local sales contact

ACO Systems (Pty) Ltd
122 Shad Road
Wadeville Ext.2
Germiston
Gauteng
South Africa

Tel: +27 11 824 3525/6
Fax: +27 11 824 3527
info@aco.co.za
www.aco.co.za

ACO Drainage Systems (Ltd)
Nairobi
Kenya

Tel: +254 (0) 790 579 772
Fax: +27 11 824 3527
info@aco.co.za / spisanu@aco.com
www.aco.co.za

www.buildingdrainage.aco
www.hygienefirst.com