



AWAZEL MEMBRANE SHIELD

3, 4, 6 mm thick, Bituminous Protection Boards

Description

MEMBRANE SHIELD (MS) are durable, light-weight, semi - rigid and strong, bituminous protection boards, for shielding waterproofing membrane from site damage or puncture by back-filling material. MS are manufactured from selected fine aggregates bound in oxidized asphalt, and then encased between two layers of asphalt saturated glass fiber/composite mat, to form a semi - rigid, dense and strong board with high compressive strength capable of bearing typical foundation pressures. The high compressive strength of MS is capable of supporting the foundation reinforcements.

Features

- Mostly suitable for vertical applications
- Resists penetration of back-filling materials and accidental damage from site operations
- Pre-formed, easy to handle, quick to use and economical
- Avoids the need for screed or masonry protection
- Avoids delay; can be applied immediately after waterproofing membrane laid and inspected.
- Improves the overall ability of the waterproofing system.
- High impact and puncture resistance

Function

MS are typically used as a protection board for all types of vertical waterproofing applications. It

provides permanent protection to most water proofing and dampproofing systems. Its high puncture resistance protects the waterproofing membrane from any impact by sharp aggregates during the back-fill process and other later settlements. Its own waterproofing characteristics will improve the overall waterproofing ability of the system.

Instructions for Application

Displacement of the MS can be prevented by bonding with AWAZEL Adhesive Compound, AMG. On vertical applications such as retaining walls, MS should be spot bonded on to the membrane with AMG, prior to back-filling or concrete operations. As general practice, MS can be installed by torch bonding method also (a very slight torching can be done on the membrane at particular areas and the Protection Board shall be attached to the membrane) MS can also be fixed by mechanical fastening methods.

Health & Safety

MS has no health hazard due to its use and applications.

Packing

MS are produced in sheets of 1 x 2 meters. Other lengths are available upon request.

Storage & Material Handling

Should be kept flat in original packing in a shaded area. Normally the pallets should not be stacked one over another.

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TECHNICAL DATA

Properties	Typical Results			Test Method
	MS 30	MS 40	MS 60	
Board Thickness, mm	3.0	4.0	6.0	UEAtc M.O.A.T. 30
Unit Weight of Board, kg/m ²	3.5	4.6	6.7	UEAtc M.O.A.T. 30
Board Size, m (Standard)	2 x 1			UEAtc M.O.A.T. 30
Density, g/cc	1.1 - 1.4			UEAtc M.O.A.T. 30
Softening Point OF Coating Asphalt, °C	> 100			ASTM D 36
Puncture Resistance, N	250	300	350	ASTM E 154
Deflection, mm	10.5	11.0	12.0 – 13.0	ASTM E 154
Static Puncture Resistance	L ₂ (Not punched at 7 kg load)	L ₃ (Not punched at 15 kg load)	L ₃ (Not punched at 15 kg load)	UEAtc M.O.A.T. 27
Dynamic Puncture Resistance	I ₁ (Not perforated at 25-30 mm indenter)	I ₂ (Not perforated at 15-20 mm indenter)	I ₂ (Not perforated at 15-20 mm indenter)	UEAtc M.O.A.T. 27

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