



Technical Data Sheet

PROTECTION BOARDS

MS 30, MS 40, MS 60

Bituminous Protection Board, complies with ASTM D 6506

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 is laid and inspected.
- Improves the overall ability of the waterproofing system.
- High impact and puncture resistance
- Resists the attack of salts and chemicals (sulphate, chloride, etc...)

FUNCTIONS

MS are typically used as a protection board for all types of vertical waterproofing applications. It provides permanent protection to most waterproofing and damproofing 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

On vertical applications such as retaining walls, MS should be spot bonded on to membrane by torch applications method. Torching can done on the membrane at particular areas and Protection Board shall be attached to the membrane. MS can also be fixed by using AWAZEL STICK-O-TAPE-R (Self Adhesive Bituminous Tape, surfaced with siliconized release film on both sides. AWAZEL Gluing compound (AMG) can also be used for bonding the boards.

HEALTH & SAFETY

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

PACKING

MS are produced in sheets of 1 x 2 meters.

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	ASTM D 5147 UEAtc M.O.A.T. 30
Nominal Unit Weight, kg/m ²	3.5	4.6	6.7	ASTM D 5147 UEAtc M.O.A.T. 30
Board size, m	2 x 1			ASTM D 5147 UEAtc M.O.A.T. 30
Softening Point of coating Asphalt, °C	> 100			ASTM D 36
Puncture Resistance, N	250	300	400	ASTM E 154
Static Puncture Resistance	L1 (Not perforated at 7 kg load)	L3 (Not perforated at 15 kg load)	L4 (Not perforated at 25 kg load)	UEAtc M.O.A.T. 27
Dynamic Puncture Resistance	I1 (Not perforated at 25 - 30 mm indenter)	I2 (Not perforated at 15 - 20 mm indenter)	I3 (Not perforated at 8 - 12 mm indenter)	UEAtc M.O.A.T. 27
Water Absorption, %	≤ 10	≤ 10	≤ 10	ASTM D 994

Note: The above shown technical data are typical results obtained, to the best of our knowledge. From our quality control records extra details can be provided upon request.

Refer TDS Control Nos. SA041604, for Supporting Tape

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