

## **AWAZEL MEMBRANE SHIELD**

*MS - 30, MS - 40, MS - 60*  
*Bituminous Protection Boards*

**Complies with the requirements of ASTM D 6506 & AASHTO M 33**

### **Description**

MEMBRANE SHIELD are durable, light-weight, Semi-rigid and strong protection boards, for shielding waterproofing membranes from site damage or puncture by back-filling material. MS are manufactured from selected fine aggregate bound in oxidized asphalt, encased between two layers of asphalt saturated glass fiber or Composite mat, to form a rigid, dense and strong board with high compressive strength capable of bearing typical foundation pressures of low rise construction up to three stories. 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.

### **Functions**

MEMBRANE SHIELD products are typically used as a protection board for all types of vertical waterproofing. Its own waterproofing characteristics will improve the overall waterproofing ability of the system. MS is rot-proof providing a permanent high impact and puncture resistant protection to waterproofing membranes.

### **Instructiuons For Application**

MS Board can be applied by spot torching method. A very slight torching can done on the membrane at particular areas and the Protection Board shall be attached to the membrane.

### **Health & Safety**

MEMBRANE SHIELD has no health hazard due to its use and application.

### **Precautions**

No special precautions are needed.

### **Packing**

It is produced in sheets of 1 x 2 m; other length are available upon request. Sheets are shrink wrapped and palletized.

### **Storage & Material Handling**

There are no special requirement for MS storage, however it should be kept flat in original packing.

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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 <sup>2</sup>	3.5	4.6	6.7	UEAtc, M.O.A.T.30
Board Size (Standard)	2 x 1			UEAtc, M.O.A.T.30
Density, g/cc	1.10 - 1.20			UEAtc, M.O.A.T.30
Softening Poit (R&B) Coating Asphalt, °C	>100			ASTM D 36
Puncture Resistance, N	250	300	400	ASTM E 154
Static Puncture Resistance:	L <sub>2</sub> (Not perforated at 7 kg load)	L <sub>3</sub> (Not perforated at 15 kg load)	L <sub>4</sub> (Not perforated at 15 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)	I2 (Not perforated at 15-20 mm) indenter)	UEAtc M.O.A.T. 27

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.