



### GENERAL

The **3180-4180 AL** series is a range of waterproofing membranes laminated with a strong aluminium foil for exposed system applications, or to be used as flashing, giving excellent reflective properties and mechanical protection.

### TYPES :

**DERMABIT 3180-4180 AL** are APP modified bituminous membranes. **ELASPHALT 3180-4180 AL** are SBS modified bituminous membranes.

### USES :

- Exposed waterproofing system for pitched roofs where high solar reflective properties are required.
- Flashing membranes used with APP or SBS modified bituminous waterproofing membranes.
- Cap sheets for exposed waterproofing systems on flat roofs.

### SPECIAL FEATURES :

- Easy to install because removable or torchable selvedge is provided to ensure bonding at overlaps, giving a level finish.
- Accommodates high temperature fluctuations.
- Maintains shape stability at both high and low temperatures.

### ROLL SIZE AND PACKING :

Both **DERMABIT** & **ELASPHALT 3180-4180 AL** are produced in rolls of

1x10 meters although special lengths are available on request.

### SURFACE FINISH

The upper surface is covered with an embossed aluminium sheet. The bottom surface is covered in a thin polyethylene film that is burnt off during application. **ELASPHALT** can also be provided with a sanded bottom surface and mechanically applied (see below).

### PREPARATION :

Where the membrane is to be laid directly on to a one-layer system on concrete, tiles or an existing roofing system, a coat of **DERMA PRIMER** at the rate of 200 to 300 gms/m<sup>2</sup> should first be applied and allowed to dry thoroughly. In areas of high humidity we recommend it be allowed to dry overnight.

### APPLICATION - POLYETHYLENE BOTTOM SURFACE

The membrane must first be unrolled and laid down on the area to which it is to be applied. Check the orientation carefully. Adjacent rolls should then be laid, each overlapping the one next to it by 10 cms on the side and 15 cms at the ends. Taking care not to change the orientation of each roll, reverse the process until each has been re-rolled. **We recommend you read our "Application Procedures" for a comprehensive explanation of the process.** When laying the roll, the lower

surface should be heated with a propane torch, using sweeping left to right movements. This will melt the lower surface of the membrane and allow it to stick to the substrate. Once laid, you should either remove the special selvedge paper or torch the special propylene selvedge which is provided with some membranes. Continue this process for each subsequent roll, remembering that the overlaps must be 10 cms for the edges and 15 cms at the ends. When the process is complete, carry out an inspection to ensure total adhesion.

### APPLICATION - SANDED BOTTOM SURFACE ON ELASPHALT

**ELASPHALT** with a sand bottom surface should be applied mechanically by nailing the membrane to the deck, using special fasteners.

### APPLICATION - AS A FLASHING MEMBRANE :

Parapet surfaces must be primed with **DERMA PRIMER** (See "Preparation") and dried. Cut the rolls to the required size and lay the membrane one piece adjacent to the other, remembering to allow an overlap of 10 cms.

The membrane is then torched directly on to the horizontal membrane continuing all the way up to the primed parapet surface. Finish the membrane in a groove. Fill the groove, or point with **DERMAFLASH**.

## TECHNICAL DATA

DERMABIT PRODUCTS ARE TESTED AT RANDOM INTERVALS BY INDEPENDENT LABORATORIES TO INTERNATIONAL STANDARDS AND THE RESULTS OF THESE TESTS ARE AVAILABLE ON REQUEST. IN ADDITION, EACH BATCH MANUFACTURED IS SUBJECT TO STRICT QUALITY CONTROL PROCEDURES TO ENSURE IT MEETS APPROPRIATE AND APPLICABLE STANDARDS AND/OR NORMS.

PROPERTIES		TYPICAL VALUES		TEST METHOD
		ELASPHALT 3180-4180 AL	DERMABIT 3180-4180 AL	
Softening point (R+B) of coating mixture		125°C	155°C	ASTM D36
Penetration (DOW) of coating mixture		4-45 dmm	25-30 dmm	ASTM D5
Thickness (±5%)		3180 - 3MM 4180 - 4MM		ASTM D751
Reinforcement core of the membrane		Non Woven Polyester 180 grms/m <sup>2</sup>		
Tensile strength	Longitudinal	880 N/5cm		UEAtc - ASTM D 146 CGSB-37-GP-56M
	Transverse	730 N/5cm		
Elongation	Longitudinal	43%		UEAtc - ASTM D 146 CGSB-37-GP-56M
	Transverse	47%		
Load Strain	Longitudinal	1596		UEAtc CGSB-37-GP-56M
	Transverse	1189		
Tear Resistance	Longitudinal	37500 N		UEAtc
	Transverse	34500 N		
Lap Joint Strength	Longitudinal	880 N/5cm		UEAtc CGSB-37-GP-56M
	Transverse	730 N/5cm		
Puncture Resistance	Longitudinal	L4 (Not performed at 25 Kg)		UEAtc
	Transverse	I 4		
Flexibility at low temperature (-10°C)		No cracking		UEAtc
Creeping of the membrane applied on a 60° sloped surface at a Test Temperature of 100 °C during 120 hours of testing		UEAtc		
Water absorption - PBS		Less than 0.15%		ASTM D570
Impermeability of the membrane to water		Absolutely impermeable		UEAtc
Resistance to Thermal Ageing		No signs of deterioration after the test		UEAtc
Resistance to Ageing due to UV-Radiation		No signs of deterioration after the test		ASTM G53
Adhesion strength of the membrane fully bonded to a concrete deck, previously treated with Dermaprimer		0.8 Kg/cm <sup>2</sup>		UEAtc
Water Vapour Permeability		Absolutely Impermeable		ASTM E96

### PACKING CONFIGURATION

DERMABIT 3180 AL - 30 rolls/pallets

DERMABIT 4180 AL - 23 rolls/pallets

ELASPHALT 3180 AL - 30 rolls/pallets

ELASPHALT 4180 AL - 23 rolls/pallets

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Submitted by :

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