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# ARDEX WPM 188

## (Shelterbit Garden Tanking Membrane)

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3.0mm SBS bitumen membrane

Positive vapour barrier

Excellent resistance to pollutants and aging

Good elongation and flexibility

For waterproofing planter boxes, garden beds, roof gardens and flower beds

Contains root inhibitor – stops roots from plants damaging the membrane

High flexibility during application at sub zero temperatures with no physical strain

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ARDEX Australia Pty Ltd  
20 Powers Road  
Seven Hills NSW 2147  
Ph: (02) 9851 9199  
Email: [techinfo@ardexaustralia.com](mailto:techinfo@ardexaustralia.com)  
Internet: [www.ardex.com](http://www.ardex.com)

ARDEX New Zealand Ltd  
32 Lane St, Woolston  
Christchurch, New Zealand  
Ph: (03) 373 6900  
Email: [techinfo@ardexaustralia.com](mailto:techinfo@ardexaustralia.com)  
Internet: [www.ardex.com](http://www.ardex.com)

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## (Shelterbit Garden Tanking Membrane)

### 3.0mm SBS Bitumen Membrane

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#### PRODUCT DESCRIPTION

ARDEX WPM 188 is an S.B.S. (Styrene Butadiene Styrene) torch applied modified bitumen waterproofing membrane, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high grade visco-elastic polymers and reinforced with a high quality combined reinforcement (fibreglass and polyester) and treated with preventive chemicals to stop roots from plants damaging the membrane.

The exceptional elongation properties of SBS combined with the strength and dimensional stability of the reinforcing, provides an excellent waterproofing membrane for new and existing constructions.

ARDEX WPM 188 is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

#### FEATURES AND BENEFITS

- Positive vapour barrier.
- Excellent resistance to pollutants and aging.
- High flexibility during application at sub zero temperature with no physical strain.
- Maintains shape stability at high temperatures.
- High resistance to perforation.
- Resists root growth ingress into both the membrane and the laps.
- Good elongation and flexibility.
- Heat welded laps provide an homogenous joint.

#### USES

ARDEX WPM 188 has been especially formulated for the waterproofing of:

- Planter boxes.
- Garden beds.
- Roof gardens.
- Flower beds.
- Green covered civil works etc.

ARDEX WPM 188 is used as a single layer or multi layer tanking membrane in horizontal or vertical applications, also for waterproofing balconies, terraces and flat roofs.

#### INSTALLATION

The application of ARDEX WPM 188 should be carried out by an accredited applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

All surfaces to which the ARDEX Shelterbit systems are installed must be properly prepared prior to installation. All surfaces must be clean, dry, smooth, and free of sharp edges, fines, loose or foreign materials, oil, grease and other materials which may damage the membrane. New concrete must be cured a minimum of 28 days prior to the installation.

#### ARDEX WPM 188

Apply to all surfaces one coat of ARDEX WPM 240 Bituminous Primer at a coverage rate of 5 square metres per litre and allow to dry thoroughly.

A layer of ARDEX WPM 188 shall be installed over all positive side surfaces by LPG torch application techniques by an ARDEX accredited applicator. The ARDEX WPM 188 must be fully bonded to the prepared substrate with side laps of 7.5cm and end laps of 10cm. The membrane must be detailed in accordance with ARDEX recommendations. Overlaps shall be sealed by torch.

The ARDEX WPM 188 membrane shall extend to at least 100mm above the backfill level. The top edge of the membrane shall be finished using an ARDEX Pressure Seal to prevent ingress of water behind the membrane.

After all membranes have been installed they shall be protected from mechanical damage by placing ARDEX Protection Board against the membrane before backfilling. The board shall be fixed using PVC Duct Tape – do not use mechanical fixing that will puncture or penetrate the membrane.

#### SAFETY PRECAUTIONS

ARDEX WPM 188 is hazardous; non-dangerous goods.

However during installation, exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

#### STORAGE

All rolls of ARDEX WPM 188 should be stored in a covered area protected against sunlight and UV radiation. Rolls should be stored in a vertical position on a smooth floor so as not to damage the edges.

## PACKAGING

Roll size: 1m x 10m

Roll weight: Approximately 35kg

Rolls per pallet: 28

## TECHNICAL DATA

The Technical Data shown below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 188 Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
Length	EN 1848-1	m	10
Width	EN 1848-1	m	1.0
Thickness	EN 1849-1	mm	3.0
Aeric mass	EN 1849-1	kg/m <sup>2</sup>	3.5
Heat stability	EN 1110	°C	90
Cold flexibility	EN 1109	°C	-20
Tensile strength	EN 12311-1		
Ultimate longitudinal		N/5cm	720
Ultimate transverse		N/5cm	420
Elongation at break	EN 12311-1		
Longitudinal		%	40
Transverse		%	45
Tear resistance	EN 12310-1		
Longitudinal		N	130
Transverse		N	140
Reinforcement	Combined	g.s.m.	180
Surface finishes	Lower <sup>1</sup>	torch film	
	Top <sup>2</sup>	torch film	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

## DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

### **ARDEX Australia Pty Ltd**

**Technical Services Toll Free: 1800 224 070**

New South Wales	Ph (02) 9851 9100
Queensland	Ph (07) 3817 6000
Victoria/Tasmania	Ph (03) 9308 9255
South Australia	Ph (08) 8268 2511
Western Australia	Ph (08) 9256 8600

### **ARDEX New Zealand Ltd**

**Technical Services Toll Free: 0800 227 339**

Auckland	Ph (09) 580 0005
Wellington	Ph (04) 568 5949
Christchurch	Ph (03) 373 6900