



# Torch Flex Vapour Barrier

## **PRODUCT DESCRIPTION**

Torch Flex Vapour Barrier is a Styrene-Butadiene-Styrene (SBS) modified metal lined membrane design to stop water vapour from entering the roof system causing condensation.

## **FEATURES AND BENEFITS**

### **High-Tech Formulation**

The Torch Flex Vapour Barrier has a high percentage of SBS rubber which when fused together with the torch applied membrane gives the system superior puncture and abrasion resistance. It also has high tensile and elongation characteristics.

### **Eliminates the Use of the 2 Ply Underlayment**

Because the Torch Flex Vapour Barrier is 3.0 mm thick, one ply will be sufficient as the underlayment for torch applied membrane.

### **Superior Strength**

The Torch Flex Vapour Barrier membrane is reinforced with a dual fibreglass scrim. The superior strength provided by this reinforcement resists the movement created by today's modern buildings and has excellent dimensional stability.

### **Advanced Rubber Technology**

When the SBS rubber is properly dispersed throughout the high penetration asphalt, the rubber provides increased thermal shock resistance, UV protection, heat resistance, elongation, and low temperature flexibility. To ensure proper dispersion, a special high shear mixer is used in manufacturing.

## **USES**

Torch Flex Vapour Barrier is used as the underlayment ply for any of Garland's torch-applied membranes where you wish to prevent water vapour from entering the roof system. It is fully compatible with SBS modified membranes.

## **APPLICATION INSTRUCTIONS**

The laying deck shall be clean, smooth and dry. For a better adhesion it may be previously treated either with Garland Garla-Prime. The membrane is then laid by melting the lower side with light propane gas flame. Edges shall be overlapped, always by torch, by at least 75mm on the sides and 100mm at the head laps so that waterproofing integrity is maintained.

Refer to specific specifications provided by your Regional Technical Manager.

## **TECHNICAL DATA**

### **Reinforcement type:**

Reinforced and stabilized non-woven polyester mat.

### **Compound type:**

Bitumen modified with thermoplastic rubber (SBS).

### **Surface finishing:**

Upper side: Textured polypropylene film.

Lower side: PE film.

### **Laying method:**

For lower side finishing with polymeric films: Propane-gas light flame

Characteristic	Test Method	Expression of result	Value	Units	Tolerance
Length	EN 1848-1	MLV	10	m	
Width	EN 1848-1	MLV	1	m	
Thickness	EN 1849-1	MDV	3	mm	± 10%
Weight	EN 1849-1	MLV	4	kg/m <sup>2</sup>	± 10%
Watertightness	EN 1928:2000 Method B	Pass	60	kPa	
Reaction to fire	EN 13501-1	EN 13501-1	Euroclass F	-	
Peel resistance of joint	EN 12316-1	MDV	-	N/50 mm	± 20 N
Maximum tensile force	EN 12311-1	MDV	1200/1200	N/50 mm	± 20 %
Elongation	EN 12311-1	MDV	4/4	%	± 10 %
Resistance to impact	EN 12691 Method A	MLV	-	mm	
Resistance to static loading	EN 12730	MLV	-	Kg	
Resistance to tearing (nail shank)	EN 12310-1	MDV	200/200	N	± 10 %
Dimensional stability	EN 1107-1	MLV	NPD	%	
Flexibility at low temperature	EN 1109	MLV	-20	°C	
Flow resistance at elevated temperature	EN 1110	MLV	100	°C	
Softening point of bitumen	ASTM D36	MDV	130	°C	
Water vapour transmission properties	EN 1931	μ = MDV or 20,000	1500000	-	

For specific application recommendations, please contact your regional Garland Technical Manager or the Garland Technical Department.