



VANGUARD 180 FS

MODIFIED BITUMEN BASE SHEET

DESCRIPTION

Vanguard 180 FS is composed of a heavy duty non-woven polyester enhanced with glass fiber strands and selected SBS modified bitumen for superior flexibility and stability. The surface is covered with a micro thermofusible poly film for heat welding, while the underside is covered with light sand for mopping in hot asphalt or cold process adhesive.

USE

Vanguard 180 FS is used as the field base sheet and base sheet flashing in a two ply modified bituminous membrane system for new, retrofit, and re-roofing. It is also used for waterproofing above and below grade construction.

APPROVALS & COMPLIANCES

This product will easily satisfy the requirements of CGSB-37.56-M for Class P, Type 2, and Grade 2 materials as well as the requirements of ASTM D6164 for Type I, Grade S materials.



TECHNICAL DATA

CHARACTERISTIC	UNITS	NOMINAL VALUE	SPECIFICATION	TEST METHOD**	STANDARD LIMITS	
Rolls Per Pallet	-	32	-	-	-	
Pallet Size	cm (in)	132 x 112 (52 x 44)	-	-	-	
Roll Weight	kgs (lbs)	34.5 (76)	-	-	*	
Length	m (ft)	10 (32.8)	-	-	±1%	
Width	mm (in)	1005 (39.6)	-	-	± 6 (1/4)	
Area	m ² (ft ²)	10 (108)	-	-	-	
Thickness	mm (mils)	3.0 (118)	-	-	± 0.4 (16)	
Lines	mm (in)	505 (19.9)	-	-	± 5 (1/4)	
Cold Flex	°C (°F)	PASS	ASTM D6164	CGSB-37.56-M	Min: -18 (0)	
Strain Energy @ 23°C	MD: XD:	kN/m	PASS PASS	CGSB-37.56-M	ASTM D5147	Min: 5.5**
Tensile Strength	MD: XD:	kN/m (lbf/in)	PASS PASS	ASTM D6164	ASTM D5147	Min: 8.8 (50)
Ultimate Elongation	MD: XD:	%	PASS PASS	ASTM D6164	ASTM D5147	Min: 35
Tear Strength	MD: XD:	N (lbf)	PASS PASS	CGSB-37.56-M	CGSB-37.56-M	Min: 20 (4.5)**
Tensile-Tear	MD: XD:	N (lbf)	PASS PASS	ASTM D6164	ASTM D5147	Min: 246 (55)
Lap Strength 5D @ 23°C	MD : XD:	kN/m (lbf/in)	PASS PASS	CGSB-37.56-M	CGSB-37.56-M	Min: 4 (23)*
Static Puncture		N (lbf)	PASS	CGSB-37.56-M	CGSB-37.56-M	>150 (34)**

* Optimum performance based on thickness, not weight.

**CGSB-37.56-M revision, 9th draft, dated January 1997.

*** Although both ASTM and CGSB may have requirements for a particular test, only the more stringent is indicated.

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