



# VANGUARD 180 FF

## MODIFIED BITUMEN BASE SHEET

### DESCRIPTION

Vanguard 180 FF is composed of a heavy duty non-woven polyester enhanced with glass fiber strands and selected SBS modified bitumen for superior flexibility and stability. Both the underside and surface are covered with a micro thermofusible poly film for heat welding.

### USE

Vanguard 180 FF 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)	-	-	-	
Length	m (ft)	10 (32.8)	-	-	±1%	
Width	mm (in)	1005 (39.6)	-	-	± 6 (1/4)	
Area	m <sup>2</sup> (ft <sup>2</sup> )	10 (108)	-	-	-	
Thickness	mm (mils)	3.0 (118)	-	-	± 0.4 (16)	
Lines	mm (in)	90 (3.5) 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)*

\*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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