



# VANGUARD BOLT

## MECHANICALLY FASTENED MODIFIED BITUMEN BASE SHEET

### DESCRIPTION

Vanguard Bolt is composed of a heavy duty non-woven polyester strengthened with glass fiber scrim, in both machine and cross direction, 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. The side lap is a dual release self-adhering selvage with a SBS adhesive compound.

### USE

Vanguard Bolt is used as a mechanically fastened field base sheet in a two ply modified bituminous membrane system for new, retrofit, and re-roofing.

### 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)	15 (49)	-	-	-	
Width*	mm (in)	1005 (39.6)	-	-	-	
Area*	m <sup>2</sup> (ft <sup>2</sup> )	15 (162)	-	-	-	
Thickness*	mm (mils)	2.5 (98)	-	-	-	
Selvage*	mm (in)	89.2 (3.5)	-	-	-	
Cold Flex	°C (°F)	PASS	ASTM D6164	ASTM D5147	Min: -18 (0)	
Strain Energy @ 23°C	MD: XD:	kN/m	PASS PASS	CGSB-37.56-M	CGSB-37.56-M	Min: 5.5**
Tensile Strength	MD: XD:	kN/m (lbf/in)	PASS PASS	ASTM D6164	ASTM D5147	Min: 12.3 (70)
Ultimate Elongation	MD: XD:	%	PASS PASS	ASTM D6164	ASTM D5147	Min: 38
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)
Static Puncture		N (lbf)	PASS	CGSB-37.56-M	CGSB-37.56-M	>150 (34)**

\* All reported values are nominal.

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

### INSTALLATION

- Install membrane perpendicular to steel deck and always install fasteners on the top portion of the metal deck
- Membrane can be installed directly to certain types of insulation boards

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