



BUILDING PRODUCTS OF CANADA CORP.

# TECHNICAL DATA SHEET ASPHALT SHINGLES

## VANGARD 42 IR (RL833)

### DESCRIPTION:

**Vanguard 42 IR** is a 42 inch laminate shingle that meets UL2218 Class 4 Impact Resistance Standard. It is composed of an ultra strong fibreglass mat coated on both sides with elastomeric modified asphalt and surfaced with mineral granules. **Vanguard 42 IR** is covered by a Lifetime Warranty. Its standard wind Warranty covers up to 180 km/hr (110 mph) and its High Wind Warranty covers up to 220 km/hr (135 mph) as per special application instructions.

### USES:

**Vanguard 42 IR** can be applied on roof slopes greater than 4/12. It can also be applied to roof slopes from 2/12 to 4/12 following special low slope application. Please refer to the CSA A123.51 standard or the application instructions for further details.

### STORAGE:

Store on a flat surface no more than 2 pallets high.

### PHYSICAL PROPERTIES

Average coverage per bundle (approx.)	3.06 m <sup>2</sup> (32.9 ft <sup>2</sup> )
Exposure	152 mm (6")
Dimensions	1066.8 mm x 355.6 mm (42" x 14")
Bundles / Pallet	36

CHARACTERISTICS	UNITS		RESULTS BP		REQUIREMENTS		TEST METHOD
	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	
Tear strength (cross direction)	g	lb	Pass	Pass	1700	4.0	ASTM D3462
Tensile strength (machine direction)	kN/m	lb/in	Pass	Pass	10.5	60	ASTM D146
Tensile strength (cross direction)	kN/m	lb/in	Pass	Pass	7.0	40	ASTM D146
Fastener pull through 0°C	N	lbf	Pass	Pass	186	42	ASTM D3462
Average net mass per unit area of finished shingles	g/m <sup>2</sup>	lb/100ft <sup>2</sup>	Pass	Pass	4394	90	ASTM D228
Mass of glass mat per unit area	g/m <sup>2</sup>	lb/100ft <sup>2</sup>	Pass	Pass	85	1.7	ASTM D228
Asphalt mass per unit area	g/m <sup>2</sup>	lb/100ft <sup>2</sup>	Pass	Pass	732	15	ASTM D228
Impact Resistance (kinetic energy)	J	ft-lbf	Pass	Pass	32.12	23.71	UL 2218

### APPLICABLES STANDARDS

ASTM D3018;  
ASTM D3462;  
CSA A123.5M;  
UL 790 & CAN/ULC S107 & ASTM E108, Fire Resistance Class A;  
ASTM D3161 Class A, D and F;  
UL 2390 & ASTM D7158 Class H  
UL 2218 Class 4 Impact Resistance