



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:

Do not double-stack pallets. Store on a flat surface.

### 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