



BUILDING PRODUCTS OF CANADA CORP.

# TECHNICAL DATA SHEET

## ROOF INSULATORS

### BP ESGARD HIGH DENSITY ROOF INSULATOR

#### DESCRIPTION:

**BP ESGARD High Density** Roof Insulators are composed of interlocking wood fibres impregnated with a water-repellent petroleum wax emulsion that imparts a high resistance to water absorption.

**BP ESGARD High Density** Roof Insulators have a very good insulation property. This product increases the rigidity and strength of the roof system. It provides an excellent substratum for the roofing membranes and it is an ideal surface for the application of hot asphalt.

**BP ESGARD High Density** Roof Insulators are available uncoated, impregnated with an asphalt emulsion or coated either with an asphalt or a regular coating. The emulsion or coating reduces asphalt penetration.

#### USES:

**BP ESGARD High Resistance** Roof Insulators can be used as follows: as a roof insulator, as a cap sheet over other insulations, as a separation board between old and new roofs, as an underlay on steel deck applications and as raw material in the making of slope insulation or cant strips.

#### MAINTENANCE:

**BP ESGARD High Resistance** Roof Insulators must be stored above the deck or the ground level and adequately protected from the elements with tarpaulins.

#### ROOF INSULATORS

| SKU        | Roof Insulator Description   | CAN/ULC-S706.1 |       | Coverage/<br>Bundle                             | Bundles/<br>Pallet |
|------------|--|----------------|-------|---|--------------------|
|            |  | Type           | Class |   |                    |
| BRC0524R1Z | Coated with asphalt on 1 side  | II             | 1     | 71.3 m <sup>2</sup><br>(768 ft <sup>2</sup> )   | 96                 |
| BRN0544ROB | Natural  | I              | 1     | 142.6 m <sup>2</sup><br>(1536 ft <sup>2</sup> ) |                    |
| BRI0544RNB | Impregnated on 1 side with an asphalt emulsion   | II             | 1     | 285.4 m <sup>2</sup><br>(3072 ft <sup>2</sup> ) |                    |
| BRN0548ROB | Natural  | I              | 1     |   |                    |
| BRC0548R6B | Coated with asphalt on 6 sides   | II             | 1     |   |                    |
| BRI0548R5B | Impregnated on 1 side with an asphalt emulsion and coated with asphalt on the other side | II             | 1     |   |                    |
| BRI1024HNS | Impregnated on 1 side with an asphalt emulsion   | II             | 2     | 71.3 m <sup>2</sup><br>(768 ft <sup>2</sup> )   |                    |

| CHARACTERISTICS  | UNITS  |          | RESULTS BP |          | REQUIREMENTS |          | TEST METHOD |        |      |
|--|--------|----------|------------|----------|--------------|----------|-------------|--------|------|
|  | METRIC | IMPERIAL | METRIC     | IMPERIAL | METRIC       | IMPERIAL | ASTM        |        |      |
| Thermal Resistance, 25.4 mm (1")                               | RSI    | R        | 0.528      | 3.0      | 0.455        | 2.6      | C518        |        |      |
| Transverse Load at Rupture, average min, Type I & II - Class 1 | N      | lbf      | Pass       | Pass     | 1/2"         | 1"       | 1/2"        | 1"     | C209 |
|  |        |          |            |          | 30           | 60       | 7           | 14     |      |
| Transverse Load at Rupture, average min, Type I & II - Class 2 | N      | lbf      | Pass       | Pass     | 1/2"         | 1"       | 1/2"        | 1"     | C209 |
|  |        |          |            |          | 50           | 160      | 11          | 36     |      |
| Compressive Strength @ 10% deformation, Min.                   | kPa    | psi      | Pass       | Pass     | 100          | 14.5     |             | C165-A |      |
| Tensile Parallel to Surface, (machine direction) Min.          | kPa    | psi      | Pass       | Pass     | 1000         | 145      |             | C209   |      |
| Tensile Perpendicular to Surface, Min.                         | kPa    | psi      | Pass       | Pass     | 30           | 4.3      |             | C209   |      |
| Linear Moisture Expansion Max                                  | %      | %        | Pass       | Pass     | 0.5          | 0.5      |             | D1037  |      |
| Water Absorption Max.  | %      | %        | Pass       | Pass     | 10           | 10       |             | C209   |      |

#### APPLICABLE STANDARDS

CAN/ULC-S706.1 Type I & II, Class 1 & 2;  
CCMC #03240-L