

# XPRESS ISO



WATERPROOFING  
INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 190424SCANE

(supersedes 180620SCANE)

## DESCRIPTION

XPRESS ISO is a high performance insulating base sheet panel composed of SBS modified bitumen membrane with a non-woven polyester reinforcement, factory-laminated on a high density mineral wool (stone wool) support panel and on a 51 mm (2 in) polyisocyanurate insulation board (SOPRA-ISO). The surface is covered with a thermofusible plastic film.

## INSTALLATION

### BITUMEN

XPRESS ISO panel is installed in a bed of hot bitumen applied with a mop.

### ADHESIVE

XPRESS ISO panel is adhered with DUOTACK adhesives.

### MECHANICALLY FASTENED

XPRESS ISO panel is mechanically fastened to steel deck with SOPREMA screws and plates for membranes.

Mechanical fasteners must be installed on the distinctive line of the membrane side selvedge.

On a steel deck, fasteners must be installed on the steel deck top flanges. Install membranes perpendicular to the steel deck ribs.

For more details about the required number of adhesive or mechanical fasteners, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21.

### DUO SELVEDGE

Over the entire width of DUO SELVEDGE, 60 % of the surface is self-adhesive, which protects components under the base sheet. The remaining surface of the selvedge (40 %) is covered by a thermofusible plastic film to seal overlap by heat-welding with a propane torch or with the SOPRAMATIC automatic hot-air welder.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

## PACKAGING

| Specifications                             | XPRESS ISO  |
|--|---|
| Total thickness (Membrane & boards)        | 65.9 mm (2 <sup>19</sup> / <sub>32</sub> in)            |
| Reinforcement of the membrane              | Non-woven polyester                                     |
| Support panel dimensions (HD mineral wool) | 2.44 x 0.914 m (8 x 3 ft)<br>4.88 x 0.914 m (16 x 3 ft) |
| Insulation panel dimensions (Polyiso)      | 2.44 x 0.914 m (8 x 3 ft)<br>4.88 x 0.914 m (16 x 3 ft) |
| Total weight                               | 6.85 kg/m <sup>2</sup> (1.4 lb/ft <sup>2</sup> )        |
| Selvedge width                             | 90 mm (3.5 in)  |
| Surface                                    | Thermofusible plastic film                              |
| Underface                                  | Polyisocyanurate  |

(All values are nominal)



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## PROPERTIES

| Properties                                      | Standards                      | MEMBRANE                           |
|---|--------------------------------|------------------------------------|
| Membrane Thickness                              | -                              | 2.2 mm (86.6 mil)                  |
| Breaking Strength, MD/XD                        | CAN/CGSB-37.56-M,<br>9th draft | 17.0 / 12.5 kN/m                   |
| Ultimate Elongation, MD/XD                      | CAN/CGSB-37.56-M,<br>9th draft | 60 / 65 %                          |
| Tear Strength                                   | CAN/CGSB-37.56-M,<br>9th draft | 60 N                               |
| Cold Bending<br>- Initial<br>- 90 days at 70 °C | CAN/CGSB-37.56-M,<br>9th draft | -30 °C (-22 °F)<br>-30 °C (-22 °F) |

(All values are nominal)

| Properties                               | Standards        | HD MINERAL WOOL (STONE WOOL)              |
|--|------------------|---|
| Board thickness                          | -                | 12.7 mm (½ in)                            |
| Thermal Resistance R-Value (RSI)         | ASTM C518 (C177) | 0.70 m²K/W (4.0 hr.ft².F/Btu)             |
| Reaction to fire                         | ASTM E84         | Smoke spread: 0<br>Smoke develop index: 0 |
| Water Absorption                         | ASTM C209        | < 1 %                                     |
| Compressive Strength                     | ASTM C165        | 75 kPa (11 psi)                           |
| Dimensional stability : Linear Shrinkage | ASTM C356        | 1.1% @ 650 °C (1200 °F)                   |

(All values are nominal)

| Properties  | Standards                 | POLYISOCYANURATE INSULATION BOARD (SOPRA-ISO) |
|---|---------------------------|---|
| Board thickness   | -                         | 51 mm (2 in)                                  |
| Thermal resistance (LTTR)<br>50.8 mm (2 po) @ 24 °C (75 °F) | CAN/ULC S704-11           | 2.01 RSI (R – 11.4)                           |
| Compressive Strength  | ASTM D 1621               | 138 kPa (20 psi)                              |
| Density   | ASTM D 1622               | 32 kg/m³ (2.0 lb/ft³)                         |
| Linear Dimensional Stability                                | ASTM D 2126               | < 2.0 %                                       |
| Water Absorption  | ASTM C 209<br>ASTM D 2842 | < 1.0 %<br>< 3.5 %                            |
| Flame Spread*   | ASTM E 84                 | 40 - 60                                       |
| Tensile Strength  | ASTM D 1623               | 35 kPa (> 730 lb/ft²)                         |

(All values are nominal)

## STORAGE AND HANDLING

XPRESS ISO insulating base sheet panels must be stored on a flat substrate and sheltered from inclement weather. If the products are stored outdoors, cover them with an opaque protection cover.



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