

# RAVATHERM™ XPS X PRIME SHAPE BL



## Technical data sheet

| Thermal resistance R <sub>D</sub>                                                                | Thickness(mm)                      | 30                                                          | 50   | 60          | 70                | 80   | 100        |        |                |    |  |
|--------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|------|-------------|-------------------|------|------------|--------|----------------|----|--|
|                                                                                                  | R <sub>D</sub> m <sup>2</sup> .K/W | 1.05                                                        | 1.75 | 2.10        | 2.45              | 2.80 | 3.50       |        |                |    |  |
| Properties                                                                                       |                                    | Value                                                       |      |             | Unit              |      | Standard   |        | CE Code        |    |  |
| Density (typical)                                                                                |                                    | 32                                                          |      |             | kg/m <sup>3</sup> |      | EN 1602    |        |                |    |  |
| Thermal Conductivity Declared (λ <sub>D</sub> )                                                  |                                    | 0.029                                                       |      |             | W/m.K             |      | EN 13164   |        | λ <sub>D</sub> |    |  |
| Compressive stress or compressive strength@ 10% deformation                                      |                                    | 300                                                         |      |             | kPa               |      | EN 826     |        | CS(10\Y)       |    |  |
| Modulus (typical values)                                                                         |                                    | -                                                           |      |             | MPa               |      | EN 826     |        |                |    |  |
| Compressive Creep max after 50 years < 2% deformation under stress σ <sub>C</sub>                |                                    | NPD                                                         |      |             | kPa               |      | EN 1606    |        | CC(2/1.5/50)σ  |    |  |
| Water vapour diffusion resistance factor μ (minimum)                                             |                                    | 150                                                         |      |             | -                 |      | EN 12086   |        | MU             |    |  |
| Long term water absorption by total immersion                                                    |                                    | NPD                                                         |      |             | %                 |      | EN 12087   |        | WL(T)          |    |  |
| Water pick-up by diffusion                                                                       |                                    | NPD                                                         |      |             | %                 |      | EN 12088   |        | WD(V)          |    |  |
| Water pick up after Freeze Thaw                                                                  |                                    | NPD                                                         |      |             | %                 |      | EN 12091   |        | FTCD           |    |  |
| Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)         |                                    | < 5                                                         |      |             | %                 |      | EN 1604    |        | DS(70,90)      |    |  |
| Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions |                                    | NPD                                                         |      |             |                   |      | EN 1605    |        | DLT(2)5        |    |  |
| Coefficient of linear thermal expansion (typical value)                                          |                                    | 0.07                                                        |      |             | mm/(m.K)          |      | -          |        |                |    |  |
| Fire performance                                                                                 |                                    | E                                                           |      |             | Euroclass         |      | EN 13501-1 |        |                |    |  |
| Temperature limits                                                                               |                                    | -50/+75                                                     |      |             | °C                |      | -          |        |                |    |  |
| Tolerances                                                                                       | Thickness                          | -2/+2                                                       |      | < 50 mm     |                   | mm   |            | EN 823 |                | T1 |  |
|                                                                                                  | Thickness                          | -2/+3                                                       |      | 50 - 120 mm |                   | mm   |            | EN 823 |                |    |  |
|                                                                                                  | Width                              | -3/+3                                                       |      |             |                   | mm   |            | EN 822 |                |    |  |
|                                                                                                  | Length                             | -10/+10                                                     |      |             |                   | mm   |            | EN 822 |                |    |  |
| Dimensions                                                                                       | Thickness                          | 30 - 100                                                    |      |             |                   | mm   |            | EN 823 |                |    |  |
|                                                                                                  | Width                              | 600                                                         |      |             |                   | mm   |            | EN 822 |                |    |  |
|                                                                                                  | Length                             | 2500                                                        |      |             |                   | mm   |            | EN 822 |                |    |  |
| Edge profile                                                                                     |                                    | Ship Lap on the long sides and Butt Edge on the short sides |      |             |                   |      |            |        |                |    |  |
| Surface finish                                                                                   |                                    | Planed with grooves                                         |      |             |                   |      |            |        |                |    |  |
| CE Code                                                                                          |                                    | XPS - EN 13164 - T1 - CS(10\Y)300 - DS(70,90)               |      |             |                   |      |            |        |                |    |  |

30E-224-1025



The quality of RAVATHERM XPS products is assured in accordance with EN 13164 and EN 13172 standards. These standards establish the type and frequency of measurements executed both by independent and recognized institutions, as well as by RAVAGO laboratories.

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