

RAVATHERM™ XPS X FUSION 300 SL



Technical data sheet

| Properties | Value | | Unit | Standard | Designation Code | | | | | | | | | | |
|--|-----------|---------------|------------------------|--------------------------|--|------|------|------|------|------|------|------|------|------|------|
| Thermal Conductivity Declared (λ_D) | 0.030 | | W/m.K | BS EN 13164:2012+A1:2015 | λ_D | | | | | | | | | | |
| Compressive stress or compressive strength@ 10% deformation | 300 | | kPa | BS EN 826:2013 | CS(10\Y) | | | | | | | | | | |
| Modulus (typical values) | 15 | < 50 mm | MPa | EN 826:2013 | | | | | | | | | | | |
| | 20 | \geq 50 mm | MPa | | | | | | | | | | | | |
| Tensile Strength | 200 | \geq 125 mm | kPa | BS EN 1607:2013 | TR | | | | | | | | | | |
| Compressive Creep max after 50 years < 2% deformation under stress σ_C | 130 | | kPa | BS EN 1606:2013 | CC(2/1.5/50) σ | | | | | | | | | | |
| Water vapour diffusion resistance factor μ (minimum) | 150 | | - | BS EN 12086:2013 | MU | | | | | | | | | | |
| Long term water absorption by total immersion | 0.7 | | % | BS EN 12087:2013 | WL(T) | | | | | | | | | | |
| Long term water absorption by diffusion | 3 | < 50 mm | % | BS EN 12088:2013 | WD(V) | | | | | | | | | | |
| | 2 | 50 - 79 mm | | | | | | | | | | | | | |
| | 1 | \geq 80 mm | | | | | | | | | | | | | |
| Additional water absorption after Freeze Thaw | 1 | | % | EN 12091:2013 | FTCD | | | | | | | | | | |
| Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh) | < 5 | | % | EN 1604:2013 | DS(70,90) | | | | | | | | | | |
| Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions | < 5 | | % | EN 1605:2013 | DLT(2)5 | | | | | | | | | | |
| Coefficient of linear thermal expansion (typical value) | 0.07 | | mm/(m.K) | - | | | | | | | | | | | |
| Reaction to fire classification | E | | Euroclass | EN 13501-1:2018 | | | | | | | | | | | |
| Temperature limits | -50/+75 | | °C | - | | | | | | | | | | | |
| Tolerances | Thickness | -2/+2 | < 50 mm 50 - 200 mm | mm | EN 823:2013 EN 823:2013 EN 822:2013 EN 822:2013 | | | | | | | | | | |
| | Thickness | -2/+3 | | mm | | | | | | | | | | | |
| | Width | -3/+3 | | mm | | | | | | | | | | | |
| | length | -6/+6 | | mm | | | | | | | | | | | |
| Dimensions | Thickness | 30 - 200 | mm | EN 823:2013 | T1 | | | | | | | | | | |
| | Width | 600 | mm | EN 822:2013 | | | | | | | | | | | |
| | Length | 1250 | mm | EN 822:2013 | | | | | | | | | | | |
| Edge Profile | Ship Lap | | | | | | | | | | | | | | |
| Surface finish | Skin | | | | | | | | | | | | | | |
| Thermal resistance¹ | | | | | | | | | | | | | | | |
| Thickness(mm) | 50 | 80 | 100 | 115 | 120 | 130 | 140 | 145 | 160 | 165 | 175 | 180 | 190 | 195 | 200 |
| R _d m ² .K/W | 1.65 | 2.65 | 3.30 | 3.80 | 4.00 | 4.30 | 4.65 | 4.80 | 5.30 | 5.50 | 5.80 | 6.00 | 6.30 | 6.50 | 6.65 |

DESIGNATION CODE: XPS-EN 13164-T1-CS(10\Y)300-CC(2/1.5/50)130-DS(70,90)-DLT(2)5-WL(T)0.7- WD(V)1,2,3⁽¹⁾-FTCD1 -TR200

1) Thickness dependent
1 N/mm² = 10³ kPa = 1MPa

Material shall be stored inside in original packaging, away from direct sun light or heat sources

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