# RAVATHERM™ XPS X 700 SL

## Technical data sheet

| Properties | | Value | | Unit | Standard | Designation Code |
|---|---|---|---|---|---|---|
| Thermal Conductivity Declared ($\lambda_D$) | | 0.031 | | W/m.K | BS EN 13164: 2012+A1:2015 | $\lambda_D$ |
| Compressive stress or compressive strength@ 10% deformation | | 700 | | kPa | BS EN 826:2013 | CS(10\Y) |
| Modulus (typical values) | | 25<br>30 | < 50mm<br>≥ 50mm | MPa<br>MPa | BS EN 826:2013<br>BS EN 826:2013 | |
| Compressive Creep max after 50 years < 2% deformation under stress σC | | 250 | | 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) |
| Water pick-up by diffusion | | 2<br>1 | < 80mm<br>≥ 80mm | %<br>% | BS EN 12088:2013 | WD(V) |
| Water pick up after Freeze Thaw | | 1 | | % | BS EN 12091:2013 | FTCD |
| Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh) | | < 5 | | % | BS EN 1604:2013 | DS(70,90) |
| Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions | | < 5 | | % | BS EN 1605:2013 | DLT(2)5 |
| Coefficient of linear thermal expansion (typical value) | | 0.07 | | mm/(m.K) | - | - |
| Reaction to fire classification | | E | | Euroclass | BS EN 13501-1:2018 | |
| Temperature limits | | -50/+75 | | °C | - | |
| Tolerances | (Thickness) | 1 | | Class | BS EN 823:2013 | T1 |
| Dimensions | Thickness<br>Width<br>Length | 50 - 120<br>600<br>1250 | | mm<br>mm<br>mm | BS EN 823:2013<br>BS EN 822:2013<br>BS EN 822:2013 | |
| Edge Profile | | Ship lap | | | | |
| Surface finish | | Skin | | | | |

| Thermal resistance[1] | | | |
|---|---|---|---|
| Thickness(mm) | 50 | 75 | 100 |
| $R_d$: $m^2$.K/W | 1.60 | 2.40 | 3.20 |

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< 80mm XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)2 - WL(T)0,7 - FTCD1

≥ 80mm XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)1 - WL(T)0,7 - FTCD1

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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