


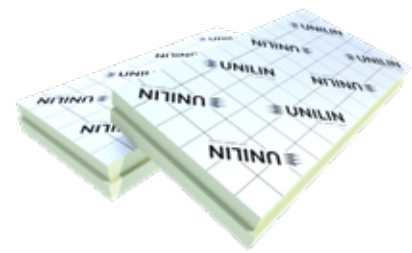
# UTHERM Roof LE LS

Insulation board  
for roofs

Utherm Roof LE LS is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer, with rebated (shiplap) edge finish on the 4 sides.

|                    |   |
|--------------------|---|
| <b>Application</b> | Insulation boards for flat and low sloped roofs   |
| <b>Insulation</b>  | Polyisocyanurate (PIR)<br><b>Declared lambda-value (<math>\lambda_D</math>):</b><br><b>0,022 W/m.K</b>              |
| <b>Facing</b>      | LE : multilayer gastight laminate   |
| <b>Dimensions</b>  | Standard : 1.200 x 600 mm or 2.400 x 1.200 mm   |
| <b>Edge finish</b> | Shiplap (rebated) on the 4 sides  |

lambda-value:  
**0,022**  
W/m.K



| Insulation-thickness [mm]         | R <sub>D INSUL</sub> value [m <sup>2</sup> K/W] CE | Boards per pack | m <sup>2</sup> per pack | Boards per pallet | m <sup>2</sup> per pallet | m <sup>2</sup> full load [= 22 pal.] | In stock | On demand* |
|-----------------------------------|--|-----------------|-------------------------|-------------------|---------------------------|--------------------------------------|----------|------------|
| <b>Roof LE LS: 1.200 x 600 mm</b> |  |                 |                         |                   |                           |                                      |          |            |
| 60                                | 2,70   | 8               | 5,76                    | 80                | 57,60                     | 1.267,20                             | ✓        |            |
| 80                                | 3,60   | 6               | 4,32                    | 60                | 43,20                     | 950,40                               | ✓        |            |
| 100                               | 4,50   | 5               | 3,60                    | 50                | 36,00                     | 792,00                               | ✓        |            |
| 120                               | 5,45   | 4               | 2,88                    | 40                | 28,80                     | 633,60                               | ✓        |            |
| 140                               | 6,35   | 3               | 2,16                    | 36                | 25,92                     | 570,24                               | ✓        |            |
| 160                               | 7,25   | 3               | 2,16                    | 30                | 21,60                     | 475,20                               | ✓        |            |
| 180                               | 8,15   | 2               | 1,44                    | 24                | 17,28                     | 380,16                               |          | ✓          |
| 200                               | 9,05   | 2               | 1,44                    | 24                | 17,28                     | 380,16                               |          | ✓          |

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

|  |  |
|--|--|
| <b>Declared thermal conductivity :</b><br>$\lambda_D$ according to EN 13165:2012+A2:2016 | 0,022 W/m.K  |
| <b>Compressive strength at 10% deformation :</b><br>CS(10/Y)150 according to EN 826      | $\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )   |
| <b>Tensile strength perpendicular to the faces</b>                                       | TR100 $\geq 100$ kPa   |
| <b>Dimensional stability</b><br>48h, 70°C, 90%RH<br>48h, -20°C                           | DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$<br>DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$ |
| <b>Deformation under compressive load and temperature conditions</b>                     | DLT(2) $\leq 5\%$  |
| <b>Density of the PIR foam</b>   | 32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>   |
| <b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>           | 50-100   |
| <b>Reaction to fire class</b>  | E according to EN 13501-1<br>B-s1, d0 (End-use steel deck)   |
| <b>Long term water absorption</b>  | WL(T)2 according to EN 13165 < 2%  |



| Certificates |                               |
|--------------|-------------------------------|
| CE           | $\lambda$ 0,022 W/m.K         |
| DOP          | Utherm Roof LE v3             |
| EPD          | B-EPD n° 21-0009-004-00-00-EN |

EX-ENG-23-1

For stock- and delivery conditions: inform with UNILIN, division insulation.

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