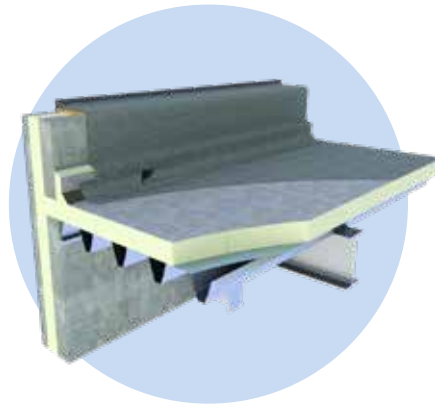



Insulation board for roofs



ROOF BGM is a PIR insulation board finished on one side with a gas open bituminized glassfleece finished with a fine fleece and on the other side with a gas open mineralized glassfleece.

| | |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | Insulation boards for flat and low sloped roofs |
| Insulation | Polyisocyanurate (PIR) Declared lambda-value (λ_D) : 0,027 W/m.K (d < 80 mm) 0,026 W/m.K (80 mm ≤ d < 120 mm) 0,025 W/m.K (d ≥ 120 mm) |
| Facing | BG : gas open bituminized glassfleece finished with a fine fleece M : gasopen mineralised glassfleece |
| Dimensions | Standard : 1200 x 600 mm |
| Edge finish | Straight on the 4 sides  |

| Insulation-thickness [mm] | R _{D INSUL} value [m ² K/W] CE | Boards per pack | m ² per pack | Boards per pallet | m ² per pallet | m ² full load [= 22 pal.] | In stock | On demand* |
|---------------------------------|----------------------------------------------------|-----------------|-------------------------|-------------------|---------------------------|--------------------------------------|----------|-------------------------|
| ROOF BGM : 1200 x 600 MM | | | | | | | | |
| 20 | 0,70 | 24 | 17,28 | 240 | 172,80 | 3.801,60 | | from 500 m ² |
| 30 | 1,10 | 16 | 11,52 | 160 | 115,20 | 2.534,40 | | from 500 m ² |
| 40 | 1,45 | 12 | 8,64 | 120 | 86,40 | 1.900,80 | | from 500 m ² |
| 50 | 1,85 | 10 | 7,20 | 100 | 72,00 | 1.584,00 | | from 500 m ² |
| 60 | 2,20 | 8 | 5,76 | 80 | 57,60 | 1.267,20 | ✓ | |
| 70 | 2,55 | 7 | 5,04 | 70 | 50,40 | 1.108,80 | | from 500 m ² |
| 81 | 3,10 | 6 | 4,32 | 60 | 43,20 | 950,40 | ✓ | |
| 100 | 3,80 | 5 | 3,60 | 50 | 36,00 | 792,00 | ✓ | |
| 110 | 4,20 | 4 | 2,88 | 40 | 28,80 | 633,60 | | from 500 m ² |
| 120 | 4,80 | 4 | 2,88 | 40 | 28,80 | 633,60 | ✓ | |
| 140 | 5,60 | 3 | 2,16 | 36 | 25,92 | 570,24 | | from 500 m ² |
| 160 | 6,40 | 3 | 2,16 | 30 | 21,60 | 475,20 | | from 500 m ² |
| 200 | 8,00 | 2 | 1,44 | 24 | 17,28 | 380,16 | | from 500 m ² |

* Unilin reserves the right to charge and deliver a maximum of 5% overproduction

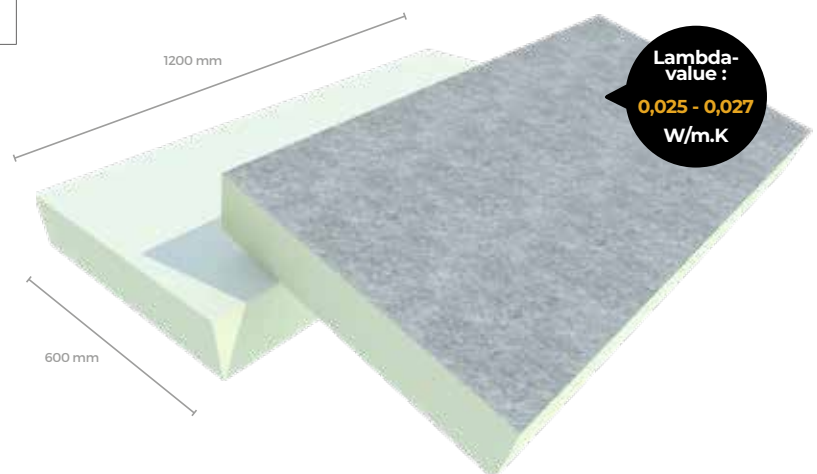


Technical properties

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Declared thermal conductivity : λ_D according to EN 13165 : 2015 | 0,027 W/m.K (d < 80 mm) 0,026 W/m.K (80 mm ≤ d < 120 mm) 0,025 W/m.K (d ≥ 120 mm) |
| Compressive strength at 10% deformation : CS(10/Y)150 according to EN 826 | ≥ 150 kPa (1,5 kg/cm ²) |
| Tensile strength perpendicular to the faces | TR80 ≥ 80 kPa |
| Dimensional stability 48h, 70°C, 90%RH 48h, -20°C | DS(70,90)3 : $\Delta e_{l,b} \leq 2$ / $\Delta e_d \leq 6$ DS(-20,-)1 : $\Delta e_{l,b} \leq 1$ / $\Delta e_d \leq 2$ |
| Deformation under compressive load and temperature conditions | DLT(2) ≤ 5% |
| Density of the PIR foam | 32 kg/m ³ ± 3 kg/m ³ |
| Water vapour transmission resistance of the PIR foam : μ | 50-100 |
| Reaction to fire class | F according to EN 13501-1 |
| Long term water absorption | WL(T)2 according to EN 13165 < 2% |

Certificates

| | |
|------|-----------------------------------|
| KOMO | CTG-671 |
| FIW | WLS 026 027 028 DAA dh, DAA ds |
| CE | λ 0,025 - 0,027 W/m.K |
| DOP | UTHERM ROOF BGM v1 |
| EPD | EPD-IVP-20140206-IBE1-DE |



Nr. EX-ENG-19-1

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

UNILIN, division insulation - Waregemstraat 112 - B-8792 Waregem – T +32 56 73 50 91 – F +32 56 73 50 90

E info.insulation@unilin.com – W www.unilininsulation.com – H.R Kortrijk 87.153 – VAT BE 0405 414 072