

IKO enertherm ALU




Product description:

IKO enertherm ALU is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex. This high-quality reflecting ALU cladding consists of no fewer than seven layers, combined into a single complex. It is tested under extreme conditions in respect of water absorption, mechanical properties, corrosion resistance and emissivity.

Application:

- **Rooftop:** flat roof insulation for timber, concrete and steel deck.
- **Sarking:** pitched roof insulation (type nF with neutral felt).
- **Floor:** floor insulation (underfloor heating and concrete floors).
- **Wall:** cavity wall insulation.
- **Wrap:** outside wall insulation (closed joints).
- **Comfort:** loft insulation.

Edge finish:

 Straight
  Rebate (SP)
  Tongue and groove (TG)

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_b : **0,022 W/(m.K)**

Fire properties

- Fire class according to EN 13501-1: Class E
- Fire class 'end use' according to 13501-1: B-s2,d0 (steeldeck)
- Fire class according to BS 476 - p7 : Class 1

Technical details:

- Bulk density: $\pm 32 \text{ kg/m}^3$
- Compressive strength at 10% deformation: **175 kPa (17,5 ton/m²)**
- Behaviour under uniformly distributed loading: **class C** ($\leq 5\%$ deformation at 80 °C and 40 kPa loading)
- Closed cells: **more than 95%**
- Water vapour diffusion: PIR foam: $\mu = 60$ - ALU facing: $\mu > 100,000$



Technical approvals:

Europe: CE - EN 13165: T2-DS(70,90)3-DS(-20,-)1-DLT(2)5-TR80-CS(10Y)175-WL(T)1

Belgium: ATG 2726 - ATG H867

France: Certificat Acermi N° 06/103/434 DTA 5/13-2350

Netherlands: Komo Attest met Productiecertificaat CTG 485 Komo CTG 544

Germany: Bauaufsichtliche Zulassung Z 23.15-1611

UK: BBA 15/5283

USA: FM Factory Mutual

Availability:

| Thickness (mm) | Rd (m ² .K/W) | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 82 | 85 | 90 | 100 | 110 | 120 | 130 | 132 | 140 | 150 | 160 | 180 | 200 |
|----------------|--------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 1,35 | 1,80 | 2,25 | 2,70 | 3,15 | 3,40 | 3,60 | 3,70 | 3,85 | 4,05 | 4,50 | 5,00 | 5,45 | 5,90 | 6,00 | 6,35 | 6,65 | 7,25 | 8,15 | 9,05 |
| 1 200 x 600 | m2/pac | 11,52 | 8,64 | 7,20 | 5,76 | 5,04 | - | 4,32 | 4,32 | - | 2,88 | 3,60 | - | 2,88 | 2,16 | 2,16 | 2,16 | 2,16 | 1,44 | 1,44 | 1,44 |
| | m2/pal | 115,20 | 86,40 | 72,00 | 57,60 | 50,40 | - | 43,20 | 43,20 | - | 40,32 | 36,00 | - | 28,80 | 25,92 | 25,92 | 25,92 | 25,92 | 23,04 | 20,76 | 17,28 |
| 1 200 x 1 000 | m2/pac | 19,20 | 14,40 | 12,00 | 9,60 | 8,40 | - | 7,20 | - | - | - | - | - | 4,80 | - | - | 3,60 | - | - | - | - |
| | m2/pal | 96,00 | 72,00 | 60,00 | 48,00 | 42,00 | - | 36,00 | - | - | - | - | - | 24,00 | - | - | 21,60 | - | - | - | - |
| 2 400 x 1 200 | m2/pac | 46,08 | 34,56 | 28,80 | 23,04 | 20,16 | 11,52 | 17,28 | - | 14,40 | 11,52 | 14,40 | 11,52 | 11,52 | 11,52 | - | 8,64 | 5,76 | 5,76 | 5,76 | 5,76 |
| | m2/pal | 230,40 | 172,80 | 144,00 | 115,20 | 100,80 | 80,64 | 86,40 | - | 86,40 | 70,64 | 72,00 | 57,60 | 57,60 | 57,60 | - | 57,60 | 46,08 | 46,08 | 40,32 | 34,57 |