

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:

- Flat Roof:** Roof insulation for timber, concrete and steel deck
- Pitch:** Pitched roof insulation
- Floor:** Floor insulation (underfloor heating and concrete floors)
- Wall:** Timber, steel frame
- Wrap:** Façade
- Comfort:** Loft insulation



Edge finish:

- Straight

Thermal performance:

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

Technical details:

- Bulk density: \pm **32 kg/m³**
- Compressive strength at 10% deformation: **175 kPa (17,5 ton/m²)**
- Behaviour under uniformly distributed loading: **Class C** (\leq 5% deformation at 70 °C and 40 kPa loading)
- Closed cells: **more than 95%**
- Water vapour diffusion: PIR foam: μ = **60** - ALU facing: μ > **100,000**

Fire properties

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

Technical approvals:

- UKCA:** BS/EN 13165: T2-DS(70,90)3-DS(-20,-)1-DLT(2)5-TR80 (\leq 140 mm) TR40 (> 140 mm)-CS(10Y)175-WL(T)1
- UK:** BBA 15/5283 UK: Range 30mm - 200mm

Availability:

| Thickness (mm) | | 25 | 30 | 40 | 50 | 60 | 70 | 75 | 80 | 90 | 100 | 110 | 120 | 140 | 150 | 160 | 180 | 200 |
|----------------|---------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2400 x 1200 | m2/pack | 57,60 | 46,08 | 34,56 | 28,80 | 23,04 | 20,16 | 11,52 | 17,28 | 11,52 | 14,40 | 11,52 | 11,52 | 8,64 | 5,76 | 5,76 | 5,76 | 5,76 |
| | m2/pal | 288 | 230,40 | 172,80 | 144,00 | 115,20 | 100,80 | 80,64 | 86,40 | 70,64 | 72,00 | 57,60 | 57,60 | 57,60 | 46,08 | 46,08 | 40,32 | 34,57 |