

# 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)  $\lambda$ D: **0,022 W/(m.K)**

## Technical details:

- Bulk density:  $\pm$  **32 kg/m<sup>3</sup>**
- Compressive strength at 10% deformation: **175 kPa (17,5 ton/m<sup>2</sup>)**
- 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:  $\mu$  = **60** - ALU facing:  $\mu$  > **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 |