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 gas-tight aluminium construction. This high-quality reflecting ALU cladding consists of no fewer than seven layers, combined into a single construction. It is tested under extreme conditions regarding water absorption, mechanical properties, corrosion resistance and emissivity.

Range of applications:

Rooftop: flat roof insulation for timber, concrete and steel deck.
Floor: floor insulation (underfloor heating and concrete floors).
Wall: cavity, steel and timber frame insulation.
Wrap: ventilated facade.
Sarking: pitched roof insulation.
Comfort Easy: loft floor insulation.

Edge finish:

Straight

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D: 0.022W/(m.K)

Technical details:

- Bulk density: ± 32kg/m³
- Compressive strength at 10% deformation: 155kPa (15.5ton/m²)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: μ = 60 - ALU facing: μ > 100,000
- Behaviour under uniformly distributed loading: Class C
  (≤ 5% deformation at 80°C and 40kPa loading)

Fire properties:

- Fire class according to EN 13501-1: **Class E**
- Fire class 'end use' according to 13501-1: **B-s2,d0** (steel deck)
- Fire class according to BS 476-p7 (1997): **Class 1**

	R_D-value (m².K/W)													
IKO enertherm ALU (mm)	**25**	**30**	**40**	**50**	**60**	**70**	**75**	**80**	**90**	**100**	**110**	**120**	**140**	**150**
1200 x 450	-	1.35	1.80	2.25	2.70	-	3.40	-	-	4.50	-	-	-	-
1200 x 1000	-	1.35	1.80	2.25	2.70	-	-	3.60	4.05	4.50	-	5.45	6.35	-
2400 x 1200	1.17	1.35	1.80	2.25	2.70	3.15	3.40	3.60	4.05	4.50	5.00	5.45	6.35	6.65