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.
- **Floor:** floor insulation (underfloor heating and concrete floors).

Edge finish:

Straight

Thermal performance:

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

Technical details:

- Bulk density: **± 32 kg/m³**
- Compressive strength at 10% deformation: **175 kPa (17,5 ton/m²)**
- Behaviour under uniformly distributed loading: **class C** (≤ 5 % deformation at 80 °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:

Europe: CE – EN 13165: T2-DS(70,90)3-DS(-20,-)1-DLT(2)5-TR80 (≤ 160 mm) TR40 (> 160 mm)-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
USA: FM Factory Mutual (consult roofnav.com)

Availability:

Thickness (mm) Rd (m².K/W)		30 1,35	40 1,80	50 2,25	60 2,70	70 3,15	75 3,40	80 3,60	82 3,70	85 3,85	90 4,05	100 4,50	110 5,00	120 5,45	130 5,90	132 6,00	140 6,35	150 6,80	160 7,25	180 8,15	200 9,05
1 200 x 600	m²/pac	11,52	8,64	7,20	5,76	5,04	-	4,32	-	-	2,88	3,60	-	2,88	-	-	2,16	-	1,44	1,44	1,44
	m²/pal	115,20	86,40	72,00	57,60	50,40	-	43,20	-	-	40,32	36,00	-	28,80	-	-	25,92	-	23,04	20,76	17,28
1 200 x 1 000	m²/pac	-	-	-	9,60	8,40	-	7,20	-	-	-	6,00	-	4,80	-	-	3,60	-	-	-	-
	m²/pal	-	-	-	48,00	42,00	-	36,00	-	-	-	30,00	-	24,00	-	-	21,60	-	-	-	-
2400 x 1 200	m²/pac	46,08	34,56	28,80	23.04	20,16	-	17,28	-	14,40	11,52	14,40	11,52	11,52	-	-	8,64	5,76	5,76	-	-
	m²/pal	230,40	172,80	144,00	115.20	100,80	-	86,40	-	86,40	80,64	72,00	57,60	57,60	-	-	57,60	46,08	46,08	-	-
2270 x 1 200	m²/pac	43,58	32,69	27,24	-	19,07	-	16,34	-	-	-	13,62	-	10,90	-	-	-	-	-	-	-
	m²/pal	217,92	163,44	136,20	-	95,34	-	81,72	-	-	-	68,10	-	54,48	-	-	-	-	-	-	-