

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_b : **0,022 W/(m.K)**

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: $\mu > 100,000$

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 (≤ 140 mm) TR40 (> 140 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)		30	40	50	60	70	75	80	82	85	90	100	110	120	130	132	140	150	160	180	200
Rd (m ² .K/W)		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	6,80	7,25	8,15	9,05
1 200 x 600	m ² /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
	m ² /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	m ² /pac	-	-	-	9,60	8,40	-	7,20	-	-	-	6,00	-	4,80	-	-	3,60	-	-	-	-
	m ² /pal	-	-	-	48,00	42,00	-	36,00	-	-	-	30,00	-	24,00	-	-	21,60	-	-	-	-
2400 x 1 200	m ² /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	-	-
	m ² /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	m ² /pac	43,58	32,69	27,24	-	19,07	-	16,34	-	-	-	13,62	-	10,90	-	-	-	-	-	-	-
	m ² /pal	217,92	163,44	136,20	-	95,34	-	81,72	-	-	-	68,10	-	54,48	-	-	-	-	-	-	-