

# 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.
- **Sarking:** pitched roof insulation (type nF with neutral felt).
- **Floor:** floor insulation (underfloor heating and concrete floors).
- **Wall:** cavity wall insulation.
- **Wrap:** outside wall insulation (closed joints).
- **Comfort:** loft insulation.

## Edge finish:

 Straight
  Rebate (SP)
  Tongue and groove (TG)

## Thermal performance:

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

## Fire properties

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

## Technical details:

- Bulk density:  $\pm 32 \text{ kg/m}^3$
- 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 80 °C and 40 kPa loading)
- Closed cells: **more than 95%**
- Water vapour diffusion: PIR foam:  $\mu = 60$  - ALU facing:  $\mu > 100,000$



## Technical approvals:

**Europe:** CE - EN 13165: T2-DS(70,90)3-DS(-20,-)1-DLT(2)-TR80-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 Komo CTG 544

**Germany:** Bauaufsichtliche Zulassung Z 23.15-1611

**USA:** FM Factory Mutual

## R<sub>D</sub>-value:

Thickness (mm)		30	40	50	60	70	75	80	82	85	90	100	110	120	130	132	140	150	160	180	200
R <sub>D</sub> (m <sup>2</sup> .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	6,65	7,25	8,15	9,05
1 200 x 600	m2/pac	11,52	8,64	7,20	5,76	5,04	-	4,32	4,32	-	2,88	3,60	-	2,88	2,16	2,16	2,16	2,16	1,44	1,44	1,44
	m2/pal	115,20	86,40	72,00	57,60	50,40	-	43,20	43,20	-	40,32	36,00	-	28,80	25,92	25,92	25,92	25,92	23,04	20,76	17,28
1 200 x 1 000	m2/pac	19,20	14,40	12,00	9,60	8,40	-	7,20	-	-	-	-	-	4,80	-	-	3,60	-	-	-	-
	m2/pal	96,00	72,00	60,00	48,00	42,00	-	36,00	-	-	-	-	-	24,00	-	-	21,60	-	-	-	-
2 400 x 1 200	m2/pac	46,08	34,56	28,80	23,04	20,16	11,52	17,28	-	14,40	11,52	14,40	11,52	11,52	11,52	-	8,64	5,76	5,76	5,76	5,76
	m2/pal	230,40	172,80	144,00	115,20	100,80	80,64	86,40	-	86,40	70,64	72,00	57,60	57,60	57,60	-	57,60	46,08	46,08	40,32	34,57