

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) λ D: **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 KB 19/12/1997: A1 (Belgium)

Available accessories:

- IKO grafe 42 (not with barbs for floor heating) - IKO stapler
- IKO rive, edging strip in XPE AS-SK: 5/120 mm, 5/150 mm and 8/150 mm - IKO ALU tape AS: 50 mm 50 m
- IKO pro flex PU foam
- IKO pro fix PU adhesive
- IKO pro sarking screws
- IKO pro fix cavity anchors
- IKO pro fix flat roof screws
- IKO Polyvent under-roof film



Technical details:

- Bulk density: \pm **32 kg/m³**
- 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: μ = **60** - ALU facing: μ > **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

ALU (mm)	30	40	50	60	70	80	85	90	100	110	120	140	160	180	200
1200x600	1,35	1,80	2,25	2,70	3,15	3,60	-	4,05	4,50	-	5,45	6,35	7,25	8,15	9,05
1200x600 SP	-	-	-	2,70	-	3,60	-	-	4,50	-	5,45	6,35	-	-	-
1200x600 TG	-	1,80	2,25	2,70	3,15	3,60	-	4,05	4,50	-	5,45	6,35	7,25	-	-
1200x1000	1,35	1,80	2,25	2,70	3,15	3,60	-	4,05	4,50	-	5,45	6,35	-	-	-
1200x2400	1,35	1,80	2,25	2,70	3,15	3,60	-	4,05	4,50	5,00	5,45	6,35	-	-	-
1200x2400 SP	-	-	2,25	2,70	3,15	3,60	3,85	4,05	4,50	5,00	5,45	6,35	7,25	8,15	9,05

ALU Slope (1200 x 1200 mm)	thickness (mm)										
1/120 (0.83%)	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110	110 - 120		
1/80 (1.25%)	30 - 45	45 - 60	60 - 75	75 - 90	90 - 105	105 - 120					
1/60 (1.67%)	40 - 60	60 - 80	80 - 100	100 - 120							

Packaging units		30	40	50	60	70	80	85	90	100	102	110	120	140	160	180	200
1200 x 600	m2/pack	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/pall	115,20	86,40	72,00	57,60	50,40	43,20	-	40,32	36,00	-	-	28,80	25,92	23,04	20,16	17,28

Packaging units		30	40	50	60	70	80	85	90	100	102	110	120	140	160	180	200
1200 x 1000	m2/pack	19,20	14,40	12,00	9,60	8,40	7,20	-	4,80	6,00	-	-	4,80	-	-	-	-
	m2/pall	96,00	72,00	60,00	48,00	42,00	36,00	-	33,60	30,00	-	-	24,00	-	-	-	-
2400 x 1200	m2/pack	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	5,76
	m2/pall	230,40	172,80	144,00	115,20	100,80	86,40	86,40	80,64	72,00	-	57,60	57,60	51,84	46,08	40,32	34,56