

IKO enertherm ALU is a 100 % CFC-free insulation board with a rigid polyisocyanurate foam core, faced with aluminium tri-laminate foil on both sides. The insulation board is designed for the application in mechanically fixed or loose laid roof waterproofing systems made of reinforced polymers modified bitumen membranes and single ply plastic sheets. Also a partial bonding self-adhesive multi-layer bitumen waterproofing system with underlayer of Quadra Rock KSK is allowed.

APPLICATIONS

Thermal insulation of flat roofs, floors and walls.

TECHNICAL CHARACTERISTICS

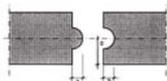
- Core density: 32 kg/m³
- Compression strength at 10% deformation: ≥120 kPa (EN 13165)
- Performance under the influence of an equally distributed load: class C
- λ_d -value (EN 13165 – declared value) : 0,023 W/mK
- Tensile strength perpendicular to surface: > 80 kPa (EN 1607)
- Facing: aluminium tri-laminated foil
- Fire reaction: Class E according to EN 13501 part 1

THERMAL PERFORMANCE

λ_d value according EN 13165 = 0,023 W/mK

thickness in mm	Risol = RD [m ² K/W]
30	1,30
40	1,70
50	2,15
60	2,60
70	3,00
80	3,45
100	4,30
120	5,20

Tongue and groove profile of the edges:



Vapour diffusion resistance coefficient:

PIR boards: $\mu = 60$

ALU-facing: $\mu > 100.000$

Chemical resistance: only degraded by concentrated leach and acids. Most in practice used paintings and solvents have no influence on the foam.

Fungus resisting: PIR insulation boards have no potential on growing micro organisms.

CERTIFICATION

Product homologation certificate from Intron bv in Holland registered under # CTG 485.

ACERMI CSTB France Certificate n° 06/103/434/2.

CE-key: PIR – EN – 13165 – T2-DS(TH)8-DLT(2)5-TR80-CS(10Y)120.

FIXATION OF INSULATION

- Mechanical fixation to the substrate
- Loose laid with ballast

DIMENSIONS (standard*)

Roof application: Butt-edge finishing							
Board dimensions	600 x 1200 mm						
	1000 x 1200 mm						
	2400 x 1200 mm						
Thickness mm	30	40	50	60	70	80	100

Roof application: Shipped lap finishing of the edges							
							
Dimensions 600 x 1200 mm							
Thickness mm	40	50	60	70	80	100	120
Dimensions 2400 x 1200 mm							
Thickness mm			60		80	100	120

Wall application: Edge finishing with Tongue and Groove							
Dimensions 600 x 1200 mm							
Thickness mm	40	50	60	70	80		

* other dimensions possible on request

ISOLATION with INTEGRATED SLOPE

Dimensions 1200 x 1200 mm	
Slope 1 on 120	Slope 1 on 80
Thickness mm	Thickness mm
30-40	30-45
40-50	45-60
50-60	60-75
60-70	75-90
70-80	
80-90	Slope 2 on 120
90-100	On request