

TECHNICAL DATA SHEET

PRODUCT DETAILS

Nuratherm 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.

INSTALLATION / APPLICATION

- Rooftop: flat roof insulation for timber, concrete and steel deck.
- Pitch: pitched roof insulation
- Floor: floor insulation (underfloor heating and concrete floors)
- Wall: timber, steel frame and cavity wall insulation
- Wrap: outside wall insulation (closed joints)

EDGE FINISH

 Straight Edge

 Tongue and Groove (TG)

	Nuratherm ALU (mm)	40	50	60	70	80	100
Straight Edge	1200 x 600	1.82	-	-	-	-	-
Tongue and Groove (TG)	2270 x 1200	-	2.27	2.73	3.18	3.64	4.55

THERMAL PERFORMANCE

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

FIRE PROPERTIES

- 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 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

- Moisture Absorption Rate (<1%)

Critical resistance to compression:

- 30 to 200 mm: $R_{cs} \geq 90$ kPa
- Minimum conventional service deformation: 1,1%
- Maximum conventional service deformation: 2,0%
- Elasticity service modulus $E_s \geq 3,5$ mPa

NZBC DETAILS

Compliance to the NZBC under the following clauses:

- B1 Structure
- B2 Durability
- C1/C3 Fire
- E2 External Moisture
- E3 Internal Moisture
- F2 Hazardous Materials
- H1 Energy Efficiency

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

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TECHNICAL APPROVALS

BRANZ Appraisal No. 732 Nuraply Nuratherm Insulating Roofing System

Europe: CE – EN 13165: T2-DS(70,90)3-DS(-20,-)1-DLT(2)5-TR80 (\leq 140 mm) TR40 ($>$ 140 mm)-CS(10Y)175-WL(T)1

UK: BBA Certified

AVAILABILITY

Thickness (mm)	40	50	60	70	80	100
R Value Achieved	1.82	2.27	2.73	3.18	3.64	4.55

Note: Various board sizes are available dependent upon the thickness and order quantity required. There may be a minimum order quantity to access the sizes. Please contact Nuralite Waterproofing for details.

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