U Thermo Board

ULTIMATE: Mineral wool for high temperature applications

DESCRIPTION
Resin-bonded, semi-rigid high temperature resistant mineral wool boards/slabs. The board is supplied plain, however on request it can be faced with reinforced kraft/aluminium foil.

APPLICATIONS
Thermal insulation of process plant and equipment. Suitable for application on flat or slightly curved surfaces. Suitable for increasing the fire resistance of lightweight building elements e.g. partition walls.

QUALITY MANAGEMENT SYSTEM
ISOVER products are manufactured according to ISO 9001:2008.

ENVIRONMENTAL SUSTAINABILITY
ISOVER products are manufactured according to ISO 14001:2004.
Less material, less energy and less emitions
- Zero ozone depleting potential (ODP)
- Zero global warming potential (GWP)

FEATURES & BENEFITS
- Mineral wool developed for high temperature applications
- Excellent lambda values (thermal conductivity) which reduces heat loss
- Shot free
- Lightweight products, easy to handle
- Soft touch, easy cutting
- Outstanding flexibility: can be bent around corners or odd shapes without any edge breaks
- Fast and efficient installation
- Chemically inert and when applied under controlled conditions will not promote or cause corrosion
- Meets the European criteria in being non-hazardous to health (EUCEB certificate)

FIRE PROPERTIES
Non-combustible - tested to SANS 10177-5

ACOUSTIC PERFORMANCE
Has excellent sound absorption characteristics which will provide effective acoustic insulation where reduction in noise levels is required.

CORROSIVITY
U Thermo Board typically contains less than 10ppm chloride (SABS Method 1119-1988).

DURABILITY
- Will not sustain vermin
- Will not breed or promote fungi, mould or bacteria
- Will not settle under vibration
- Rot proof
- Dimensionally stable but care must be exercised to limit moisture ingress as this not only compromises the structural integrity but interferes with the thermal resistance properties of the products as well

HANDLING & STORAGE
All U Thermo Board products should be stored and handled with care to maintain ex-works quality. The packaging will provide some protection but care should be taken to keep the material dry at all times. Extra protection should always be provided when storing the product outdoors.

ISOVER SAINT-GOBAIN

U Thermo Board

THERMAL CONDUCTIVITY (according to EN 12 667)

	T [°C]	50	100	200	300	400	500	600
U Thermo Board 3	[W/(m.K)]	0.036	0.044	0.064	0.090	0.125	0.169	0.224
U Thermo Board 6	[W/(m.K)]	0.034	0.039	0.054	0.074	0.098	0.129	0.166
U Thermo Board 8	[W/(m.K)]	0.033	0.038	0.051	0.067	0.086	0.110	0.138

Type	Product name	Thickness (mm) & Surface weight (kg/m^2)			
		25mm	50mm	75mm	100mm
Boards	U Thermo Board 3	1.0	2.0	3.0	4.0
	U Thermo Board 6	1.5	3.0	4.5	6.0
	U Thermo Board 8	2.0	4.0	N/A*	N/A*
Dimensions	Length (mm)	1 200	1 200	1 200	1 200
	Width (mm)	600	600	600	600

*N/A - not available in standard product range

MAXIMUM SERVICE TEMPERATURE (MST) under 500Pa (according to EN 14 706)

The Maximum Service Temperature according to EN 14 706 is the temperature for which the deformation of the insulation material is less than 5% under a load of 500Pa and when exposed to such temperature for a continuous period of 72 hours. This test method is a more stringent evaluation of the highest permanent, operating temperature the product can sustain.

	MST under 500 Pa*
U Thermo Board 3	450°C
U Thermo Board 6	580°C
U Thermo Board 8	640°C

* According to EN 14 706

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