DATA SHEET FOR NOBILIUM®THERMALPANEL

Marked CE unique code MW-hEN13162-T5-CS(10/y)20-PL(5)6150-MUx2,86-TR30

Property	Value	Unit of measurement	Standard
Thickness	9 e 3 (+\-1mm)	mm	UNI EN 823
Dimensions	120 (±2,5mm) x 60 (+\-2,5mm)	cm	UNI EN 822
Determination TVOC (extremely low values confirming the reduced use of materials other than pure basalt in order to guarantee a safe, natural and versatile product, both outdoors and indoors)	43	(µg/m³)	UNI EN ISO 16000-9:2006 e UNI EN ISO 16000-9:2011
Squaring tolerance	<1	%	UNI EN 824
Flatness tolerance	<1	%	UNI EN 825
Density	187 ± 10	kg/m^3	UNI EN 1602
Resistance to compression with crushing of 10% (force necessary for compression of 0,9mm or 0,3mm)	>20,0	kPa	UNI EN 826
Resistance under concentrated load	6150,00	N	UNI EN 12430
Resistance to perpendicular traction to the faces	>30	kPa	UNI EN 1607
Resistance to parallel traction to the faces in the thickness sense: Longitudinal direction	1478	kPa	UNI EN 1608
Resistance to parallel traction to the faces in the thickness sense: Transversal direction	1735	kPa	UNI EN 1608
Thermal Conductivity λ 10°C	0.032	W·m^{-1}/K	UNI EN 12667
Thermal Resistance R_d 10°C	9mm 0.280 3mm 0,093	m^2·K/W	UNI EN 12667

Datasheet review dated 01.10.2021

Thermal Conductivity -150°C	0,017	Wm /K	UNI EN 12667
Thermal Conductivity -80°C	0,024	Wm /K	UNI EN 12667
Thermal Conductivity 100°C	0,043	Wm /K	UNI EN 12667
Thermal Conductivity 200°C	0,064	Wm /K	UNI EN 12667
Thermal Conductivity 300°C	0,081	Wm /K	UNI EN 12667
Thermal Conductivity 400°C	0,10	Wm /K	UNI EN 12667
Thermal Conductivity 500°C	0,13	Wm /K	UNI EN 12667
Thermal Conductivity 600°C	0,15	Wm /K	UNI EN 12667
Elastic Module E	136,0	kPa	UNI EN 826
Dimensional stability under specific temperature and humidiity conditions - DS(TH) 48h, 70°C, 90%Rh	<1	%	UNI EN 1604
	Class of tolerance DS (70, 90) 1		UNI EN 1604
Reaction to fire (Euroclasse)	A1		UNI EN ISO 1182 UNI EN 13823
Specific heat at 20°C	2090	J/Kg°K	UNI EN 12524
Resistance to the passage of water vapour Equivalent thickness of air Sd	µ 2,86 0,02m		UNI EN 12086

The NOBILIUM®THERMALPANEL product is a natural and 100% ricyclable product, with **CE marking** in **conformity with hEN 13162:2012 + A1:2015 and compliant with CAM EN 14021:2016**

AGOSTI NANOTHERM SRL

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