

Technical DATA SHEET

TOMBO ROCK – rolls & boards

Introduction

Tombo Rock (Rockwool) is inorganic spun fibres made from natural rocks and minerals bonded by organic binder. Rockwool is non-combustible, suitable for thermal insulation, fire protection and sound absorption/noise reduction.

Tombo Rock rolls are a flexible blanket insulation with a foil or white scrim facing for ease of handling. Tombo Rock boards are non-faced and suitable for most commercial and industrial applications.

Physical Properties

Nominal Density (kg/m ³)	Standard Sizes (mm)	Quantity per pack
60	1200 x 600 x 50	10
	4000 x 1200 x 50	1
	1200 x 600 x 75	6
	3000 x 1200 x 75	1
80	4000 x 1200 x 50	1
	3000 x 1200 x 75	1
100	4000 x 1200 x 50	1

*Other densities and sizes are also available on request

Service Temperature

Nominal Density (kg/m ³)	Maximum Service Temperature (°C)	Test Method	Classification by ASTM C553
60	650	ASTM C411	Type VII
80			
100			

Conforming Specifications

- ASTM C612 Mineral Fibre Block and Board Thermal Insulation – Type IV
- ASTM C553 Standard Specification for Mineral Fiber Blanket and Thermal Insulation for Commercial and Industrial Applications

Handling and Storage

- Handle carefully to avoid damage on the edge and surfaces of the product.
- Store indoors and protect from exposure to water.

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Apparent Thermal Conductivities

Apparent Thermal Conductivities (W/mK)				
Mean Temperature (°C)	Nominal Density (kg/m ³)			Test Method
	60	80	100	
24	0.033	0.034	0.034	ASTM C177
38	0.036	0.035	0.036	
93	0.045	0.043	0.043	
149	0.056	0.052	0.050	
204	0.064	0.059	0.057	
260	0.083	0.072	0.069	
316	0.101	0.088	0.082	
370	0.121	0.105	0.097	
Average 70 +5/-0	0.044 max. (Conform to JIS A9504 requirement)			JIS A1412 ISO 8302

These figures are actual test results based on Tombo Rock board data (shall not be used for specification).

Technical Properties

Items	Unit	Test Results*	Spec.	Test Method
Linear Shrinkage at 650 °C	%	1.22	2.0 max.	ASTM C356
Fire Performance	-	Non-combustible	-	BS 476 Part 4
Surface burning characteristic	Index	Flame spread 0	25 max.	ASTM E84
	Index	Smoke developed 0	50 max.	
Water vapor sorption	%	0.29	5.0 max.	ASTM C1104
Water absorption	kg/m ²	0.034	-	EN 1609
None fibrous (Shot) content	%	150 um 13.0	-	ASTM C1335
		500 um 1.6		4 max.
Corrosive resistances	-	Passed 28 day preproduction corrosion test		ASTM C795
Odor emission	-	Pass	-	ASTM C1304
Sound absorption	-	SAA** 1.0	-	ASTM C423
		NRC** 1.0		

*Based on Tombo Rock board 80kg/m³ data.

**SAA: Sound Absorption Average NRC: Noise Reduction Coefficient.

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