

TECHNICAL DATA - BATTS



BATTS - FLEXIBLE MULTI PURPOSE INSULATION

D-ROCK Stone Wool Batt is non-combustible stone wool insulation for thermal, sound and fire insulation applications in roofs, walls and floors.

DIMENSIONS		
WIDTH X LENGTH	THICKNESS	
600 mm x 1200 mm	25 - 150 mm	
430 mm x 1200 mm (special order)	50 - 150 mm	
580 mm x 1200 mm (special order)	50 - 150 mm	
Thickness Tolerance, T	ASTM C302	
Other Dimensions: Other sizes available on request.		
Density	35 kg/m ³ to 200kg/m ³	ASTM 302

PROPERTY	VALUE	ACCORDING TO
FIRE PROPERTIES		
Combustibility test for materials	Not Deemed Combustible	AS 1530.1:1994 (R2016)
Fire Hazard Properties	Indices - 0,0,0,2	AS/NZS 1530.3:1999
Fire resistance Test (for DR 80kg/m ³)	Minutes -/180/120	AS 1530.4:2014
THERMAL PROPERTIES		
Thermal Resistance	See table on page 2	AS/NZS 4859.1-2018
Thermal Conductivity λD	0.036 W/mK	AS/NZS 4859.1-2018
MOISTURE PROPERTIES		
Moisture Absorption	≤ 1% Vol	ASTM C1104
SOUND PROPERTIES		
NRC (noise absorption co-efficient) at 50mm thickness	NRC 0.85	ASTM C423
EMISSIONS		
Low VOC reporting	Pass	ASTM D5116
CFC	Not used in production	Company Declaration
Asbestos	Not detected	CASE.NC.0034
DIMENSIONAL STABILITY		
Maximum Service Temperature	650°C	ASTM C411 ASTM C447
DURABILITY OF FIRE AND THERMAL PROPERTIES		
Performance degradation from Ageing, Weathering, and Heat.	Durability of the Fire and Thermal Performance of Stone Wool Insulation does not deteriorate with time. The organic content will not increase and the stable fibre structure maintains its porosity whilst only containing atmospheric air.	

THERMAL TABLE - R-VALUE BY DENSITY AND THICKNESS

K-value	Density kg/m ³	R-value by Thickness									
		25mm	50mm	75mm	90mm	100mm	120mm	140mm	160mm	180mm	200mm
0.037	35	NA	1.35	2.03	2.43	2.70	3.24	3.78	4.32	4.86	5.41
0.036	40	NA	1.39	2.08	2.50	2.78	3.33	3.89	4.44	5.00	5.56
0.035	60	0.71	1.43	2.14	2.57	2.86	3.43	4.00	4.57	5.14	5.71
0.035	80	0.71	1.43	2.14	2.57	2.86	3.43	4.00	4.57	5.14	5.71
0.035	100	0.71	1.43	2.14	2.57	2.86	3.43	4.00	4.57	5.14	5.71
0.035	120	0.71	1.43	2.14	2.57	2.86	3.43	4.00	4.57	5.14	5.71
0.036	140	0.69	1.39	2.08	2.50	2.78	3.33	3.89	4.44	5.00	5.56
0.036	160	0.69	1.39	2.08	2.50	2.78	3.33	3.89	4.44	5.00	5.56
0.037	180	0.68	1.35	2.03	2.43	2.70	3.24	3.78	4.32	4.86	5.41
0.037	200	0.68	1.35	2.03	2.43	2.70	3.24	3.78	4.32	4.86	5.41

*K-value to R-value conversion - Millimetre thickness divided by 1000 then divided by K-value i.e., 100/1000/0.035 = R2.86

Building Code Compliance

Confidence in the materials compliance to the relevant building codes helps support the important certification process. D-ROCK Stone Wool Insulation is tested to the current Australian Standard, AS/NZS 4859.1:2018. continuous assessment of D-ROCK Stone Wool Insulation to upcoming codes changes ensures readiness for use in your new build.

Long lasting thermal performance

The high-density manufacturing of basalt stone fibre strands creates a product that is dimensionally stable, resistant to slumping over time and unaffected by broad temperature variations. Over time, your building will maintain its thermal comfort, noise controls, moisture management and passive fire protection with D-ROCK Stone Wool Insulation.

[Compliant thermal calculation for systems are available on request, see below.](#)



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