

Technical Guidance

Knauf Insulation with Ecosse Technology

AS/NZS 1530.3-1999 Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Compliance with AS1530.3 is demonstrated by testing products that represent Knauf Insulations range of product densities. As a result a test report for your specific product may not be represented.

Compliance with 1530.3 is demonstrated by three test reports.

20-001926 – approximately 30 kg/m³
20-001927 – approximately 14 kg/m³
20-001929 – approximately 7.7 Kg/m³

The above reports demonstrate the following indices.

Ignitability Index	– 0
Spread of flame	– 0
Heat Evolved Index	– 0
Smoke development Index	– 2 , 3

Products and brands covered by this testing include Knauf Insulation, Earthwool and Earthwool Glasswool.

For additional information or details on this practise please contact Guy Manthel.

Guy Manthel

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AWTA PRODUCT TESTING

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Phone (03) 9371 2400

TEST REPORT

Client : Knauf Insulation
Unit 2, 44 Borthwick Avenue
Murarrie QLD 4175

Test Number : 20-001926
Issue Date : 27/04/2020
Print Date : 22/05/2020

Sample Description Clients Ref : "251511 Knauf insulation manufactured with Ecosse"
Fibre Insulation Batt
Colour : Brown
End Use : Insulation
Nominal Composition : Glass mineral wool, Ecosse binder
Nominal Mass per Unit Area/Density : Approx: 30.40kg/m3
Nominal Thickness : 90mm

AS/NZS 1530.3-1999

Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested:	Face		
Date tested:	27/04/2020		
	Standard Error	Mean	
Ignition time	Nil	Nil	min
Flame propagation time	Nil	Nil	sec
Heat release integral	Nil	Nil	kJ/m ²
Smoke release, log d	0.0839	-1.7716	
Optical density, d		0.0187	/ metre
Number of specimens ignited:		0	
Number of specimens tested:		6	
Regulatory Indices:			
Ignitability Index		0	Range 0-20
Spread of Flame Index		0	Range 0-10
Heat Evolved Index		0	Range 0-10
Smoke Developed Index		2	Range 0-10

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Murarrie QLD 4175

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Issue Date : 27/04/2020
Print Date : 22/05/2020

These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

Each test specimen had an unattached backing of 4.5mm thick fibre reinforced cement board.

Each test specimen was restrained on the exposed face by a layer of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions and the assembly clamped along all sides.

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TEST REPORT

Client : Knauf Insulation
Unit 2, 44 Borthwick Avenue
Murarrie QLD 4175

Test Number : 20-001927
Issue Date : 28/04/2020
Print Date : 22/05/2020

Sample Description Clients Ref : "471039 Knauf insulation manufactured with Ecosse"
Fibre Insulation Batt
Colour : Brown
End Use : Insulation
Nominal Composition : Glass mineral wool, Ecosse Binder
Nominal Mass per Unit Area/Density : Approx: 14.56kg/m2
Nominal Thickness : 90mm

AS/NZS 1530.3-1999

Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested:	Face		
Date tested:	27/04/2020		
	Standard Error	Mean	
Ignition time	Nil	Nil	min
Flame propagation time	Nil	Nil	sec
Heat release integral	Nil	Nil	kJ/m ²
Smoke release, log d	0.1482	-1.5515	
Optical density, d		0.0367	/ metre
Number of specimens ignited:		0	
Number of specimens tested:		6	
Regulatory Indices:			
Ignitability Index		0	Range 0-20
Spread of Flame Index		0	Range 0-10
Heat Evolved Index		0	Range 0-10
Smoke Developed Index		3	Range 0-10

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TEST REPORT

Client : Knauf Insulation
Unit 2, 44 Borthwick Avenue
Murarrie QLD 4175

Test Number : 20-001929
Issue Date : 28/04/2020
Print Date : 22/05/2020

Sample Description Clients Ref : "Knauf Insulation Manufactured with Ecosse"
Fibre Insulation batt
Colour : Brown
End Use : Insulation
Nominal Composition : Glass mineral wool, Ecosse binder
Nominal Mass per Unit Area/Density : Approx: 7.74kg/m3
Nominal Thickness : 175mm

AS/NZS 1530.3-1999

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Face tested:	Face		
Date tested:	28/04/2020		
	Standard Error	Mean	
Ignition time	Nil	Nil	min
Flame propagation time	Nil	Nil	sec
Heat release integral	Nil	Nil	kJ/m ²
Smoke release, log d	0.0146	-1.6797	
Optical density, d		0.0210	/ metre
Number of specimens ignited:		0	
Number of specimens tested:		6	
Regulatory Indices:			
Ignitability Index		0	Range 0-20
Spread of Flame Index		0	Range 0-10
Heat Evolved Index		0	Range 0-10
Smoke Developed Index		2	Range 0-10

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