

Certificate of Test

QUOTE No.: NE8174

REPORT No.: FNE12415

AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

TRADE NAME: GGD2U Expanded Aluminium Gutter Mesh

SPONSOR: Gutter Guard Direct 2U
35/1470 Ferntree Gully Rd
KNOXFIELD VIC 3180
AUSTRALIA

DESCRIPTION OF SAMPLE:

The sponsor described the tested specimen as a powder coated expanded aluminium mesh with an aperture size of 3-mm by 4-mm.

Nominal thickness: 1 mm - 0.25 mm
Nominal mass: 500 g/m² ± 10 g/m²
Colour: black

TEST PROCEDURE: Six samples were tested in accordance with AS/NZS 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

RESULTS: The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	N/A	N/A
Flame Spread Time (s)	N/A	N/A
Heat Release Integral (kJ/m ²)	N/A	N/A
Smoke Release (log ₁₀ D)	-2.446	0.141

For regulatory purposes these figures correspond to the following indices:

Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
0	0	0	0-1

The results 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.

DATE OF TEST: 2 July 2019

Issued on the 19th day of July 2019 without alterations or additions.



Shaw Tran
Testing Officer



Brett Roddy
Team Leader, Fire Testing and Assessments

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NATA Accredited Laboratory
Number: 165
Corporate Site No 3625

Accredited for compliance with ISO/IEC 17025 – Testing.

CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA
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Certificate of Test

QUOTE No.: NE8274

REPORT No.: FNE12481

AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

TRADE NAME: GGD2U Premium Woven Ember Guard Aluminium Mesh

SPONSOR: Gutter Guard Direct 2U
35/1470 Ferntree Gully Rd
KNOXFIELD VIC 3180
AUSTRALIA

DESCRIPTION OF SAMPLE:

The sponsor described the tested specimen as an expanded aluminium mesh with an aperture size of 2-mm by 2-mm. The aluminium mesh was powder coated with polyester on both sides.

Nominal thickness: 1 mm
Nominal mass: 500 g/m² ± 10 g/m²
Colour: green

TEST PROCEDURE: Six samples were tested in accordance with AS/NZS 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

OBSERVATIONS: Although vapours from the specimen did not ignite under the standard test conditions, it was observed that direct flame contact with the specimen at the end of the test caused flames to spread across the specimen surface.

RESULTS: The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	N/A	N/A
Flame Spread Time (s)	N/A	N/A
Heat Release Integral (kJ/m ²)	N/A	N/A
Smoke Release (log ₁₀ D)	-2.436	0.277

For regulatory purposes these figures correspond to the following indices:

Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
0	0	0	0-1

The results 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.

DATE OF TEST: 23 October 2019

Issued on the 1st day of November 2019 without alterations or additions.



Shaw Tran
Testing Officer



Stephen Smith
Team Leader, Reaction to Fire

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Certificate of Test

QUOTE No.: NE8421

REPORT No.: FNE12620A

AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

TRADE NAME: GGD2U Premium Stainless-Steel Mesh SS316

SPONSOR: Gutter Guard Direct 2U
35/1470 Ferntree Gully Road
KNOXFIELD VIC 3180
AUSTRALIA

DESCRIPTION OF

SAMPLE: The sponsor described the tested specimen as a powder coated woven stainless-steel mesh with an aperture size of 1.8-mm by 1.8-mm. The mesh comprised 316 stainless steel with polyester powder coating applied at an application rate of 0.05 to 0.055-kg/m².

Nominal thickness: 0.5 mm
Nominal mass: 0.85 kg/m² ± 0.01 kg/m²
Colour: dark grey

TEST PROCEDURE: Six (6) samples were tested in accordance with AS/NZS 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

RESULTS: The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	N/A	N/A
Flame Spread Time (s)	N/A	N/A
Heat Release Integral (kJ/m ²)	N/A	N/A
Smoke Release (log ₁₀ D)	-1.537	0.100

For regulatory purposes these figures correspond to the following indices:

Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
0	0	0	2

The results 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.

DATE OF TEST: 6 August 2020

Issued on the 28th day of September 2020 without alterations or additions. This certificate supersedes report no. FNE12620 issued on 14th September 2020.



Stephen Smith
Team leader, Reaction to Fire



Brett Roddy
Group Leader, Fire Testing and Assessments

End of Report

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