

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

**Client :** Dott.Gallina s.r.l  
Strada Carignano 104  
10040 La Loggia Italy  
Italy

**Test Number :** 15-002176  
**Issue Date :** 18/05/2015  
**Print Date :** 19/05/2015

**Sample Description** Clients Ref : "Arcowall 5613 X 15A006"  
Extruded plastic building system  
Colour : Satin Clear  
End Use : Roofing system  
Nominal Composition : >94% Polycarbonate, 5% Flame retardant  
Nominal Mass per Unit Area/Density : 5500g/m2  
Nominal Thickness : 60mm

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: 14/05/2015

	Standard Error	Mean
Ignition time	Nil	Nil min
Flame propagation time	Nil	Nil sec
Heat release integral	Nil	Nil kJ/m <sup>2</sup>
Smoke release, log d	0.0000	-0.5858
Optical density, d		0.2596 / metre
No of samples which ignited		1
For Samples which ignited		
Smoke Release (Log D) - Mean		-0.5858
Smoke Release (Log D) - Standard Error		0.0000
No of samples which did not ignite		8
For Samples which did not ignite		
Smoke Release (Log D) - Mean		-2.0921
Smoke Release (Log D) - Standard Error		0.0433

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- Mechanical Testing  
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: Accreditation No. 983  
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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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Number of specimens tested:	9
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	5 Range 0-10

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.

The specimens melted and flowed away from the area of maximum heat during the test. Due to this phenomena it should be recognised that this test result may not be a true indication of the product's fire hazard properties.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

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.

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