



CERTIFICATE OF ASSESSMENT

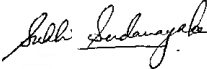


The reaction to fire performance of Armstrong WoodWorks
panels, planks and grilles classified in accordance with
AS 5637.1:2015

Client: Armstrong World Industries Pty Ltd

Job number: FAS190162 Issuing consultant: Sukhi Sendanayake

Date: 5 March 2020 Revision: SFC 1.1

Amendment schedule

Version	Date	Information relating to report			
SFC1.0	Issue: 24/02/2020	Reason for issue	Issued to Armstrong World Industries Pty Ltd for review and comments		
	Expiry: 28/02/2025		Prepared by	Reviewed by	Approved by
		Name	Mahmoud Akl	Omar Saad	Mahmoud Akl
SFC1.1	Issue: 05/03/2020	Reason for issue	Revised to include additional comments from the report sponsor		
	Expiry: 28/02/2025		Prepared by	Reviewed by	Approved by
		Name	Sukhi Sendanayake	Mahmoud Akl	Mahmoud Akl
		Signature			

Contact Information

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Report sponsor	Certificate issue date	Product
Armstrong World Industries Pty Ltd	5 March 2020	The reaction to fire performance of Armstrong WoodWorks panels, planks and grilles for ceilings and walls classified in accordance with AS 5637.1:2015

Introduction
The element of construction described below was assessed by this laboratory on behalf of the report sponsor in accordance with the stated test standard and achieved the results stated below. Refer to the referenced Assessment Report(s) or Regulatory Information Report(s) for the complete description of the assessment construction.

Referenced assessment report	Test methods	Report issue date	Report validity date
FAS190162 R1.1	AS ISO 9705-2003(R2016)	5 March 2020	28 February 2025

Description of assessment product and performance
The scope of the assessment includes a range of Armstrong Woodworks panels, planks and grilles used in ceilings and wall linings if tested in accordance with AS ISO 9705-2003(R2016) ¹ and classified in accordance with AS 5637.1:2015 ² .
Refer the referenced report for a complete description of the assessed construction.

Formal assessment summary
The analysis conducted in section 5 of the referenced assessment report found that the proposed variations are likely to achieve a Group 3 classification as shown in Table 1 and Table 2 , if tested in accordance with AS ISO 9705-2003(R2016) and classified in accordance with AS 5637.1:2015.

Table 1 Variations and assessment outcome to Australian Building Code requirements

Product	Reference test	Variation	Assessment classification	
			Group No.	SMOGR _{RC} (in m ² s ⁻² ×1000)
WoodWorks Panels or sheets	RTF190208.1	<ul style="list-style-type: none"> Typical installation is in ceilings and walls on roll-formed steel grid systems or directly fixed to a soffit Finish can optionally be laminate or veneer (with clear lacquer) Panel sizes vary to a maximum size of 3600×1200mm Panels can optionally be plain or perforated/slotted (up to 29% open area) Panel backing is P16 acoustical scrim 	3	<250
WoodWorks Linear Planks		<ul style="list-style-type: none"> Typical installation in ceilings only with a typical plenum space. The ceiling can optionally be installed suspended on 5mm drawn rod 		

¹ Fire tests-Full scale room test for surface products

² Determination of fire hazard properties Wall and ceiling linings

		<ul style="list-style-type: none"> Plank sizes vary, with lengths up to a maximum of 3600mm, with 2 typical widths: 80mm or 130mm Planks can optionally have up to 18% open area Panel finish can optionally be laminate or veneer (with clear lacquer) Panel backing is P16 acoustical scrim 		
WoodWorks Grille	RTF190207.1	<ul style="list-style-type: none"> Typical installation can optionally be on ceilings and walls on roll-formed steel grid systems or directly fixed a soffit Material can optionally be bamboo or solid wood of various species Grill orientation can optionally be vertical blades (open area up to 65%) or horizontal slats (open area 40%) Panel finish can optionally be natural or carbonised lacquer Panel backing is P16 acoustical scrim 	3	<250

Table 2 Variations and assessment outcome to New Zealand Building Code requirements

Product	Reference test	Variation	Assessment classification	
			Group No.	Average smoke production rate (m ² /s)
WoodWorks Panels or sheets	RTF190208.1	<ul style="list-style-type: none"> Typical installation is in ceilings and walls on roll-formed steel grid systems or directly fixed to a soffit Finish can optionally be laminate or veneer (with clear lacquer) Panel sizes vary to a maximum size of 3600x1200mm Panels can optionally be plain or perforated/slotted (up to 29% open area) Panel backing is P16 acoustical scrim 	3	<10
WoodWorks Linear Planks		<ul style="list-style-type: none"> Typical installation is in ceilings only with a typical plenum space of minimum 300mm. The ceiling can optionally be installed suspended on 5mm drawn rod Plank sizes vary, with lengths up to a maximum of 3600mm, with 2 typical widths: 80mm or 130mm Planks can optionally have up to 18% open area Panel finish can optionally be laminate or veneer (with clear lacquer) Panel backing is P16 acoustical scrim 		
WoodWorks Grille	RTF190207.1	<ul style="list-style-type: none"> Typical installation can optionally be on ceilings or walls on roll-formed steel grid systems or directly fixed to substrate 	3	<10

		<ul style="list-style-type: none"> • Material can optionally be bamboo or solid wood of various species • Grill orientation can optionally be vertical blades (open area up to 65%) or horizontal slats (open area 40%) • Panel finish can optionally be natural or carbonised lacquer • Panel backing is P16 acoustical scrim 		
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Refer to the referenced assessment report(s) or Regulatory Information Report(s) for a complete description of the assessed construction.

Conditions/ Validity
<ul style="list-style-type: none"> • This certificate is provided for general information only and does not comply with the regulatory requirements for evidence of compliance. • Reference should be made to the relevant test report or regulatory information report to determine the applicability of the test result to a proposed installation. Full details of the constructions and justification for the conclusions given, along with the validity statements, are given in the assessment reports. • The results of these fire tests may be used to assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all conditions. • All work and services carried out by Warringtonfire Australia Pty Ltd ACN 050 241 524 are subject to, and conducted in accordance with, the standard terms and conditions of Warringtonfire Australia Pty Ltd, which are available at https://www.element.com/terms/terms-and-conditions or upon request.