CSR BUILDING PRODUCTS LIMITED

REGULATORY INFORMATION REPORT

CSR Gyprock and Cemintel Products in accordance with AS 5637.1:2015

Prepared for

Howard Tse
CSR Building Products Limited

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JENSEN HUGHES

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Jensen Hughes Fire Testing Pty Ltd
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Formerly Warringtonfire Australia Pty Ltd[1]

Authorised by:

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[1] Warringtonfire Australia Pty Ltd was acquired by Jensen Hughes in December 2023. Jensen Hughes Fire Testing Pty Ltd is not affiliated, associated, authorised, or endorsed by Warringtonfire Australia Pty Ltd, Warringtonfire Testing and Certification Limited or its "Warringtonfire" or "Certifire" brands.

Executive summary

This report contains the minimum information required for regulatory compliance and refers to the referenced assessment report FAS190252 R14.4

This report documents the findings of an assessment undertaken to determine the fire hazard properties of a range of CSR wall and ceiling lining products.

The assessment was conducted in accordance with AS ISO 9705:2003 (R2016) and classified under AS 5637.1:2015 and was carried out at the request of CSR Gyprock.

The assessment found that the product variations are capable of achieving a Group 1 classification and 1-S smoke production rating, as shown in Table 1. These findings are based on the analysis conducted in Section 4 through Section 6, with limitations and requirements detailed in Section 3 and Section 7 of the referenced report.

The results of this assessment are valid until 31 July 2030.

Table 1 Overview of assessment outcomes for Gyprock plasterboard products in accordance with AS 5637.1:2015 and C/VM2[2]

Gyprock Plasterboard product Variations	Test standard	Reference test	Group Number
10~13 mm Gyprock Plus	AS ISO 9705:2003 (R2016)	RTF190098 R1.0	Group No. =1 $SMOGRA_{RC}$ (in m2·s-2 × 1000) ≤ 0.5
10~13 mm Supaceil			
10~13 mm Sensitive			
10~16 mm Standard plasterboard			
10~13 mm Soundchek			
10~13 mm Aquachek			
Flexible- 6.5 mm (used in two layers)			
Impactchek- 13 mm			
Superchek- 10 mm			
Gyprock HD – 10 mm			
25 mm ShaftLiner MR panel			
25 mm ShaftLiner MP panel			
25 mm ShaftLiner panel			
13~16 mm Fyrchek			
13~16 mm Fyrchek MR			
13 mm EC08 Partition			
13~16 mm EC08 Complete			
13 mm EC08 Impact			
13 mm EC08 Impact MR			
13 mm perforated panel 6 mm Round			

[2] All products in the table are capable of achieving Group Number 1-S with Average smoke production rate (0 to 20 minutes) ≤ 0.16 m2·s-1 in accordance with C/VM2 – Verification Method Framework for Fire Safety Design (for applications in New Zealand)

Gyprock Plasterboard product Variations	Test standard	Reference test	Group Number
12.5 mm Gyptone perforated ceiling panels: 12 mm Square 12 mm Square Minigrid Slotted Minigrid 12 mm Hexagon			
12.5 mm Rigitone perforated ceiling panels: Matrix 8 mm round Astral Matrix 12 mm square Galaxy Matrix 12 mm round Matrix 15 mm round Matrix 8 mm square Matrix 10 mm round			
6.5 mm Gyptone perforated panels: Flexible 12 mm Square Flexible Slotted Minigrid			
Gyptone Access Panels: Frame-600 mm × 600 mm Hatch- 510 mm × 510 mm			
Gyprock plasterboard tiles: Supatone – 10 mm Perforated Tile – 13 mm			
Gyprock Habito H plasterboard of 12.5 mm thickness		RTF190098 R1.0 RTF200198 R1.0	Group No. =1 Average Specific Extinction Area (ASEA) ≤ 7.3 m2/kg $SMOGRA_{RC}$ (in m2·s-2 × 1000) ≤ 0.5 In accordance with AS 5637.1:2015
13 mm EC08 Extreme		RTF190098 R1.0 RTF220062 R1.0 and RTF200198 R1.0	Group No. =1 Average Specific Extinction Area (ASEA) ≤ 3.1 m2/kg $SMOGRA_{RC}$ (in m2·s-2 × 1000) ≤ 0.5 In accordance with AS 5637.1:2015

Gyprock Plasterboard product Variations	Test standard	Reference test	Group Number
12.5 mm thick Rigitone perforated ceiling panels: Rigitone Astra, Rigitone Nebula Rigitone Stellar		RTF190098 R1.0	Group No. =1 $SMOGRA_{RC}$ (in m2·s-2 × 1000) ≤ 0.5
Notes: The perforated plasterboard panels may include an acoustic fabric backing.			

Table 2 Overview of assessment outcomes for CSR Cemintel fibre cement products in accordance with AS 5637.1:2015 and C/VM2[3]

CSR Cemintel fibre cement products	Test Standard	Reference test	Group Number
6~12 mm CeminSeal Wallboard	AS ISO 9705:2003 (R2016)	RTF190235 R1.0	Group No. =1 $SMOGRA_{RC}$ (in m2·s-2 × 1000) ≤0.2 In accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015
6~9 mm Rigid Air Barrier			
6 mm Ceramic tile underlay			
7.5~9 mm Texture Base Sheet			
8~12 mm Rendaline			
6 mm Cladding sheet			
9 mm Simpleline			
6 mm Eaves lining			
9~24 mm Compressed Sheet			
9~12 mm Expresspanel			
9~12 mm Barestone Exterior with colour options/ 9~12 mm Barestone Bark			
9~12 mm Barestone Interior with colour options/ 9~12 mm Barestone Bark			
8 mm Edge			
8 mm Mosaic			
7.5 mm Plank – Smooth and Woodgrain			
10 mm Headland Weatherboard			
12 mm and 16 mm Scarborough Weatherboard			
10 mm Endeavour Weatherboard			
16 mm Balmoral Weatherboard			
6 mm Soffitline			
18~22 mm Constructafloor Interior			
18~22 mm Constructafloor Exterior			
16 mm Territory			

[3] All products in the table are capable of achieving Group Number 1-S with Average smoke production rate (0 to 20 minutes) ≤ 0.1 m2·s-1 in accordance with C/VM2 – Verification Method Framework for Fire Safety Design (for applications in New Zealand)

CSR Cemintel fibre cement products	Test Standard	Reference test	Group Number
8 mm Surround			
Notes: All equivalent percentage by weight composition of fibre cement products must have the same or cellulosic fibres incorporated in the cement base as the tested 6 mm specimen.			

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1.0 Introduction

This report contains the minimum information sufficient for regulatory compliance and refers to the assessment report FAS190252 R14.4.

This report documents the findings of the assessment undertaken to determine the expected fire hazard properties of the CSR wall and ceiling lining products in accordance with AS ISO 9705:2003[4] (R2016) and AS 5637.1:2015[5]. The majority of the previously assessed products were based on data from tests conducted in accordance with AS 1530.3:1999[6] (R2016) and AS/NZS 3837:1998[7] (R2016).

The sponsor had subsequent re-testing conducted on representative samples of the range of products to establish new baseline data in accordance with the current requirements of AS 5637.1:2015 and AS ISO 9705:2003 (R2016).

2.0 Framework for the assessment

2.1 Assessment approach

An assessment is a professional opinion about the expected performance of a component or element of structure subjected to a fire test.

No specific framework, methodology, standard or guidance documents exists in Australia for undertaking these assessments. We have therefore followed the 'Guide to undertaking technical assessments of the fire performance of construction products based on fire test evidence' prepared by the Passive Fire Protection Forum (PFPF) in the UK in 20218.

This guide provides a framework for undertaking assessments in the absence of specific fire test results. Some areas where assessments may be offered are:

Where a modification is made to a construction which has already been tested

The interpolation or extrapolation of results of a series of fire resistance tests, or utilisation of a series of fire test results to evaluate a range of variables in a construction design or a product

Where, for various reasons – eg size or configuration – it is not possible to subject a construction or a product to a fire test.

Assessments can vary from relatively simple judgements on small changes to a product or construction through to detailed and often complex engineering assessments of large or sophisticated constructions.

[4] Standards Australia, 2003, Fire tests - Full-scale room test for surface products, AS ISO 9705:2003, Standards Australia, NSW.
[5] Standards Australia, 2015, Determination of fire hazard properties – Wall and ceiling linings, AS 5637.1:2015, Standards Australia, NSW.
[6] Standards Australia, 1999, Methods for fire tests on building materials, components and structures – Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, AS 1530.3:1999, Standards Australia, NSW.
[7] Standards Australia, 1998, Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter, AS/NZS 3837:1998, Standards Australia, NSW.
[8] Passive Fire Protection Forum (PFPF), 2021, Guide to undertaking technical assessments of the fire performance of construction products based on fire test evidence, Passive Fire Protection Forum (PFPF), UK.

This assessment has been written in accordance with the general principles outlined in EN 15725:20239 for extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports.
This assessment has been written using appropriate test evidence generated at accredited laboratories to the relevant test standard. The supporting test evidence has been deemed appropriate to support the manufacturer's stated design.

2.2 Compliance with the National Construction Code

This assessment report has been prepared to meet the evidence of suitability requirements of the NCC 2022[10] Amendment 1 under A5G3(1)(d). It references test evidence for meeting deemed-to-satisfy (DTS) provisions of the NCC under A5G6 for fire resistance level that apply to the assessed systems based on Specifications 1 and 2 for fire resistance for building elements.

The proposed details and systems (building elements) in this report are confirmed to be assessed, without the aid of an active fire suppression system, based on prototype tests that are equivalent to or more severe than a standard fire test as specified in section 4.4, in accordance with S7C4.

This assessment report may also be used to demonstrate compliance with the requirements for evidence of suitability under the relevant sections of previous versions of the NCC.

2.3 Declaration

The 'Guide to undertaking technical assessments of the fire performance of construction products based on fire test evidence' prepared by the PFPF in the UK requires a declaration from the client. By accepting our fee proposal on 27 June 2025, CSR Building Products Limited confirmed that:

- To their knowledge, the variations to the component or element of structure, which is the subject of this assessment, have not been subjected to a fire test to the standard against which this assessment is being made.
- They agree to withdraw this assessment from circulation if the component or element of structure is the subject of a fire test by a test authority in accordance with the standard against which this assessment is being made and the results are not in agreement with this assessment.
- They are not aware of any information that could adversely affect the conclusions of this assessment and – if they subsequently become aware of any such information – they agree to ask the assessing authority to withdraw the assessment.

[9] European Committee for Standardization, 2023, Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports, EN 15725:2023, European Committee for Standardization, Brussels, Belgium
[10] National Construction Code Volumes One and Two - Building Code of Australia 2022, Australian Building Codes Board, Australia.

3.0 Requirements and limitations of this assessment

- The scope of this report is limited to an assessment of the variations to the tested systems described in section 4.3.
- This report details the methods of construction, test conditions and assessed results in accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015.
- This report relies on type test evidence and applies only to the specific specimens tested. It does not verify ongoing compliance or the performance of future production batches.
- Jensen Hughes has provided this report on the fire performance of building elements in a controlled laboratory setting, strictly within the parameters allowed by the test standards and building regulations. The outcomes of this report are intended to assist in verifying the suitability of the product or system for practical use in specific applications.
- This report is only valid for the assessed systems and must not be used for any other purpose. Any changes with respect to size, construction details, loads, stresses, edge or end conditions – other than those identified in this report – may invalidate the findings of this assessment. If there are changes to the system, a reassessment will need to be done by an Accredited Testing Laboratory (ATL) that is accredited to the same nominated standards of this report.
- This report has been prepared using information provided by others. Jensen Hughes has not verified the accuracy and/or completeness of that information and will not be responsible for any errors or omissions that may have been incorporated into this report as a result.
- This assessment is based on the proposed systems being constructed under comprehensive quality control practices and following appropriate industry regulations and Australian Standards on quality of materials, design of structures, guidance on workmanship and expert handling, placing and finishing of the products on site. These variables are beyond the control and consideration of this report.
- This assessment was carried out to determine the performance of the system based on the procedures and requirements in AS 5637.1:2015. Variations to the tested specimen plasterboard product consist of alterations to the thickness, size, and minor compositional differences. Products with combustible facings and a core material alternative to plasterboard were omitted from this report. These products may be reinstated once new supporting test data, compliant with AS5637.1:2015 becomes available.
- The above assessment does not include lining materials such as vinyl, which would melt and combust at relatively low temperatures, as there is insufficient baseline test data to support the assessment. The same exclusion applies to mineral wool or glass fibre core materials where such panels have not been subjected to a fire test in accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015.

4.0 Description of the specimen and variations

4.1 Description of assessed systems

This assessment considers the following range of products:

CSR Gyprock plasterboard wall and ceiling products, plasterboard ceiling tiles and access panels, and CSR Cemintel fibre cement products. The performance of the product range is determined based on the relevant test evidence in accordance with AS 5637.1:2015.

4.2 Referenced test data

The assessment of the variation to the tested systems and the determination of the performance are based on the results of the fire tests documented in the reports summarised in Table 3. Further details of the tested systems are included in Appendix A of the referenced report of the referenced report.

Table 3 Referenced test data

Report number	Test sponsor	Test date	Testing authority
RTF190235 R1.0	CSR Gyprock	14 October 2019	Jensen Hughes Fire Testing (formerly known as Warringtonfire Australia)
RTF190098 R1.0	CSR Gyprock	15 June 2019	
RTF200198 R1.0 and ASCRRTF200198 R1.0	CSR Gyprock	25 June 2020	
RTF220062 R1.0	CSR Gyprock and Cemintel	25 August 2022	
23-003351	CSR Building Products Ltd	31 August 2023	AWTA Product Testing

4.3 Variations to the tested systems

The 6 mm cement sheet used with the AFS Logicwall ® system referenced in RTF190235 R1.0 and variations to the tested system – together with the referenced standard fire tests – are described in Table 4.

Table 4 Variations to tested system referenced in RTF190235 R1.0

Variations to the 6 mm cement sheet used with AFS Logicwall ® system			
6~12 mm CeminSeal Wallboard	16 mm Balmoral Weatherboard	7.5 mm Plank – Smooth and Woodgrain	9~12 mm Barestone Exterior with colour options/ 9~12 mm Barestone Bark
6~9 mm Rigid Air Barrier	6 mm Soffitline	10 mm Headland Weatherboard	9~12 mm Barestone Interior with colour options/ 9~12 mm Barestone Bark
6 mm Ceramic tile underlay	18~22 mm Constructafloor Interior	12 mm and 16 mm Scarborough Weatherboard	8 mm Edge
7.5~9 mm Texture Base Sheet	18~22 mm Constructafloor Exterior	10 mm Endeavour Weatherboard	8 mm Mosaic
8~12 mm Rendaline	16 mm Territory	9~12 mm Expresspanel	9 mm Simpleline
6 mm Cladding sheet	8 mm Surround	9~24 mm Compressed Sheet	6 mm Eaves lining

Variations to the 6 mm cement sheet used with AFS Logicwall ® system
Notes: + The perforated plasterboard panels may include an acoustic fabric backing. + The plasterboard panels with vinyl facings are not included in this assessment. + Mineral wool or glasswool panels are excluded from this assessment. + All fibre cement products must have the same or equivalent percentage by weight composition of cellulosic fibres incorporated in the cement base as the tested 6 mm specimen.

The Rigitone Matrix 12 Square acoustic panel system referenced in RTF190098 and variations to the tested system – together with the referenced standard fire tests – are described in Table 5.

Table 5 Variations to tested system referenced in RTF190098 R1.0

Variations to the Rigitone Matrix 12 Square acoustic panel system		
13 mm perforated panel 6 mm Round	Gyprock plasterboard tiles: Supatone- 10 mm Perforated Tile- 13 mm	13~16 mm Fyrchek MR
12.5 mm Gyptone perforated ceiling panels: 12mm Square 12 mm Square Minigrid Slotted Minigrid 12 mm Hexagon		13 mm EC08 Partition
		13~16 mm EC08 Complete
	10~13 mm Gyprock Plus	13 mm EC08 Impact
	10~13 mm Supaceil	13 mm EC08 Impact MR
12.5 mm Rigitone perforated ceiling panels: Matrix 8mm round Astral Matrix 12 mm Square Galaxy Matrix 12 mm round Matrix 15 mm round. Matrix 8 mm square Matrix 10 mm round	10~13 mm Sensitive	Superchek- 10 mm
	10~16 mm Standard plasterboard	Gyprock HD – 10 mm
	10~13 mm Soundchek	25 mm ShaftLiner MR panel
	10~13 mm Aquachek	25 mm ShaftLiner MP panel
	Flexible- 6.5 mm (used in two layers)	25 mm ShaftLiner panel
6.5 mm Gyptone perforated panels: Flexible 12 mm Square Flexible Slotted Minigrid	Gyptone Access Panels: Frame-600 mm × 600 mm Hatch- 510 mm × 510 mm	13~16 mm Fyrchek
		Impactchek- 13 mm
12.5 mm thick Rigitone perforated ceiling panels: Rigitone Astra, Rigitone Nebula Rigitone Stellar	12.5 mm thick Rigitone Astra panel (12% free open hole area)	
	12.5 mm thick Rigitone Nebula panel (13% free open hole area)	
	12.5 mm thick Rigitone Stellar panel (9% free open hole area)	

Table 6 outlines the variations justified by multiple test reports

Table 6 Variation Assessments Supported by multiple test reports

Variation	Tested systems	Test reports
Gyprock Habito H plasterboard of 12.5 mm thickness	Rigitone Acoustic Ceiling	RTF190098 R1.0
	Gyprock Habito H	RTF200198 R1.0 and ASCRRTF200198 R1.0
13 mm EC08 Extreme	Rigitone Acoustic Ceiling	RTF190098 R1.0
	Gyprock Habito H	RTF200198 R1.0 and ASCRRTF200198 R1.0
	13 mm EC08 Extreme	RTF220062

4.4 Referenced standards

AS 5637.1:2015 sets out procedures for assessing internal wall and ceiling linings according to their tendency to ignite, release heat, cause flashover, release smoke and contribute to fire growth.

AS ISO 9705:2003 (R2016) sets out a full-scale test method for evaluating the reaction-to-fire performance of internal surface linings under controlled conditions. It assesses how wall and ceiling materials contribute to fire growth, smoke production, and heat release when exposed to a developing fire in a room scenario.

5.0 Conclusion

Details of the assessment and discussion are only available in the referenced main assessment report. It has been concluded that the range of plasterboard products listed in Table 4, Table 5 and Table 6 is capable of achieving a Group 1 classification accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015.

6.0 Validity

Jensen Hughes does not endorse the tested or assessed products and systems in any way. The conclusions of this assessment 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 conditions.

Due to the nature of fire testing and the consequent difficulty in quantifying the uncertainty of measurement, it is not possible to provide a stated degree of accuracy. The inherent variability in test procedures, materials and methods of construction, and installation may lead to variations in performance between elements of similar construction.

This assessment is based on test data, information and experience available at the time of preparation. If contradictory evidence becomes available to the assessing authority, the assessment will be unconditionally withdrawn, and the report sponsor will be notified in writing. Similarly, the assessment should be re-evaluated, if the assessed construction is subsequently tested since actual test data is deemed to take precedence.

The sponsor is responsible for formally notifying Jensen Hughes of any additional testing performed on their product/system. This obligation applies regardless of where the test was conducted, the results of the test, or whether it was initially considered part of Jensen Hughes' ongoing assessment. The primary goal of this notification is to allow Jensen Hughes to review the changes and determine whether they require re-evaluation or re-testing to determine whether the changes have affected the product's performance. It is important that the client promptly notify Jensen Hughes if any such changes are implemented.

The procedures for the conduct of tests and the assessment of test results are subject to constant review and improvement. The sponsor therefore recommended that this report be reviewed on, or before, the stated expiry date.

This assessment represents our opinion about the performance of the proposed systems that are expected to be demonstrated when subjected to test conditions in accordance with AS 5637.1:2015, based on the evidence referred to in this report.

This assessment is provided to CSR Building Products Limited for their own specific purposes. This report may be used as evidence of suitability in accordance with the requirements of the relevant National Construction Code. Building certifiers and other third parties must determine the suitability of the systems described in this report for a specific installation.