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Regulatory information report

CSR Gyprock plasterboard and CSR Cemintel fibre cement products assessed with Group numbers

Sponsor: CSR Gyprock

Report number: 45759 Revision: RIR13.2

Issued date: 24 October 2023 Expiry date: 31 August 2025

Quality management

Version	Date	Information about the report		
RIR13.2	Issue: 24 Oct 2023	Reason for issue	Issued in conjunction with FAS190252 R13.2	
	Expiry: 31 Aug 2025		**Prepared by**	**Reviewed by**
		Name	Mohammed Mutafi	Omar Saad
		Signature		

Executive summary

The analysis conducted in the referenced assessment report contains the minimum information required for regulatory compliance and refers to the referenced assessment report 45759 R13.2.

The analysis conducted in the referenced assessment 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 (R2016) and AS 5637.1:2015.

The analysis conducted in sections 5 and 6 of the referenced report found that the proposed variations are expected to achieve group number and smoke production as shown in Table 1 in accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015. The variations and outcomes of this assessment are subject to the limitations and requirements described in section 3 and 7 of the referenced report. The results of the referenced report are valid until 31 August 2025.

Table 1 Variations and assessment outcome

Product	Reference test and assessment report	Assessment classification - group number
CSR Gyprock plasterboard products		
10~13 mm Gyprock Plus 10~13 mm Supaceil 10~13 mm Sensitive 10~16 mm Standard plasterboard 10~13 mm Soundchek 10~13 mm Aquachek Flexible- 6.5mm (used in two layers) Impactchek- 13mm Superchek- 10mm Gyprock HD – 10 mm 25 mm ShaftLiner MR panel 25 mm ShaftLiner MR 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 Gyprock perforated plasterboard panels: 13 mm perforated panel 6 mm Round 12.5 mm Gyptone perforated ceiling panels: – 12mm Square – 12 mm Square Minigrid – Slotted Minigrid – 12 mm Hexagon 12.5 mm Rigitone perforated ceiling panels: – Matrix 8mm round – Astral	RTF190098 R1.0 and associated assessment report FAS190127 R1.0	Group No. =1 SMOGRA$_{RC}$ (in $m^2 \cdot s^{-2} \times 1000$) ≤ 0.5 In accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015 and Group No. =1-S Average smoke production rate (0 to 20 minutes) ≤ 0.16 $m^2 \cdot s^{-1}$ In accordance with C/VM2 – Verification Method: Framework for Fire Safety Design (for applications in New Zealand).

Product	Reference test and assessment report	Assessment classification - group number
– Matrix 12 mm Square – Galaxy – Matrix 12 mm round – Matrix 15 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 – Freshtone - 10 mm – Perforated Tile- 13 mm		
Gyprock Habito H plasterboard of 12.5 mm thickness	RTF190098 R1.0 RTF200198 R1.0 and ASCRRTF200198 R1.0	Group No. =1 Average Specific Extinction Area (ASEA) ≤ 7.3 m^2/kg In accordance with AS 5637.1:2015
13 mm EC08 Extreme	RTF190098 R1.0 RTF220062 R1.0 and RTF200198 R1.0 associated with assessment report FAS190127 R1.0	Group No. =1 Average Specific Extinction Area (ASEA) ≤ 3.1 m^2/kg In accordance with AS 5637.1:2015
CSR Cemintel fibre cement products		
6~12 mm CeminSeal Wallboard	RTF190235 R1.0	Group No. =1 $SMOGRA_{RC}$ (in $m2 \cdot s^{-2}$ × 1000) ≤0.2 In accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015 and Group No. =1-S Average smoke production rate (0 to 20 minutes) ≤ 0.1 $m^2 \cdot s^{-1}$ In accordance with C/VM2 – Verification Method: Framework for Fire Safety Design (for applications in New Zealand).
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		

Product	Reference test and assessment report	Assessment classification - group number
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		
8 mm Surround		

Notes:

1. The perforated plasterboard panels may include an acoustic fabric backing.
2. The plasterboard panels with vinyl facings are not included in this assessment.
3. Mineral wool or glasswool panels are excluded from this assessment.
4. 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.

Contents

1. Introduction

The analysis conducted in the referenced assessment report contains the minimum information sufficient for regulatory compliance and refers to the assessment report 45759 R13.2.

The analysis conducted in the referenced assessment 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[1] (R2016) and AS 5637.1:2015[2]. The majority of the previously assessed products were based on data from tests conducted in accordance with AS 1530.3:1999[3] (R2016) and AS/NZS 3837:1998[4] (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).

The referenced assessment was carried out at the request of CSR Gyprock. The sponsor details are included in Table 2.

Table 2 Sponsor details

Sponsor	Address
CSR Gyprock	376 Victoria Street Wetherill Park NSW 2164 Australia

2. 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 2021[5].

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.

[1] Standards Australia, 2003, Fire tests - Full-scale room test for surface products, AS ISO 9705:2003, Standards Australia, NSW.
[2] Standards Australia, 2015, Determination of fire hazard properties – Wall and ceiling linings, AS 5637.1:2015, Standards Australia, NSW.
[3] 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.
[4] 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.
[5] 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.

The referenced assessment has been written in accordance with the general principles outlined in EN 15725:2023[6] for extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports.

The referenced 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

The referenced assessment report has been prepared referencing test evidence for meeting deemed to satisfy (DTS) provision of the NCC 2022 under A5G6 for fire hazard properties that apply to the assessed systems.

The referenced 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 15 June 2020, CSR Gyprock confirmed that:

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

3. Requirements and limitations of the referenced assessment

- The scope of the referenced assessment report is limited to an assessment of the variations to the tested systems described in section 4.3.
- The assessment is limited to products with no added facings such as, but not limited to, vinyl facings or combustible coatings other than those already tested and assessed.
- The referenced assessment report details the methods of construction, test conditions and assessed results expected in accordance with AS 5637.1:2015.
- The referenced assessment applies to assessed products if used as internal wall and ceiling lining.
- The documentation that forms the basis for the referenced assessment report is listed in Appendix A of the referenced assessment report.
- The referenced assessment report is only valid for the assessed system/s 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 the referenced assessment report – may invalidate the findings of the referenced 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 the referenced assessment report.

[6] 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

- The referenced assessment report has been prepared using information provided by others. Warringtonfire 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 the referenced assessment report as a result.
- The referenced 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 the referenced assessment report.

4. Description of the specimen and variations

4.1 Description of assessed system

The referenced 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 proposed products is assessed 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 expected 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.

Table 3 Referenced test data

Report number	Test sponsor	Test date	Testing authority
RTF190235 R1.0	CSR Gyprock	14 October 2019	Warringtonfire Australia
RTF190098 R1.0 and associated assessment report-FAS190127 R1.0	CSR Gyprock	15 June 2019	Warringtonfire Australia
RTF200198 R1.0 and classification report ASCRRTF200198 R1.0	CSR Gyprock	25 June 2020	Warringtonfire Australia
RTF220062 R1.0	CSR Gyprock and Cemintel	25 August 2022	Warringtonfire Australia
23-003351	CSR Building Products Ltd	31 August 2023	AWTA Product Testing

4.3 Variations to the tested systems

The tested systems and variations to those tested system/s – together with the referenced standard fire tests – are described in Table 4.

Table 4 Variations to tested systems

Item and thickness	Item and thickness
10~13mm Gyprock Plus	25mm ShaftLiner MR panel
10~13mm Supaceil	25mm ShaftLiner panel
10~13 mm Sensitive	25 mm ShaftLiner MP
10~16 mm Standard plasterboard	13~16 mm Fyrchek
10~13 mm Soundchek	13~16 mm Fyrchek MR
10~13 mm Aquachek	13 mm EC08 Partition
Flexible- 6.5 mm (used in two layers)	13~16mm EC08 Complete

Item and thickness	Item and thickness
Impactchek- 13 mm	13 mm EC08 Impact
Superchek- 10 mm	13 mm EC08 Impact MR
Gyprock HD – 10 mm	13 mm EC08 Extreme
Gyprock perforated plasterboard panels: 13 mm perforated panel 6 mm Round 12.5 mm Gyptone perforated ceiling panels: – 12mm Square – 12 mm Square Minigrid – Slotted Minigrid – 12 mm Hexagon 12.5 mm Rigitone perforated ceiling panels: – Matrix 8mm round – Astral – Matrix 12 mm Square – Galaxy – Matrix 12 mm round – Matrix 15 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 – Freshtone - 10 mm – Perforated Tile- 13 mm
Notes: 1. The perforated plasterboard panels may include acoustic fabric backing 2. The plasterboard panels with vinyl facings are not included in the assessment.	

Table 5 Variation to tested CSR Cemintel fibre cement products

Item and description	Item and description
6~12 mm CemInSeal Wallboard	8 mm Edge
6~9 mm Rigid Air Barrier	8 mm Mosaic
7.5~9 mm Texture Base Sheet	7.5 mm Plank – Smooth and Woodgrain
8~12 mm Rendaline	10 mm Headland Weatherboard
6 mm Cladding sheet	12 mm & 16 mm Scarborough Weatherboard
9 mm Simpleline	10 mm Endeavour Weatherboard
6 mm Eaves lining	16 mm Balmoral Weatherboard
9~24 mm Compressed Sheet	6 mm Soffitline
9~12 mm Expresspanel	18~22mm Constructafloor Interior
9~12 mm Barestone Exterior with optional colour finishes in Ash, Lunar and Graphite	18~22mm Constructafloor Exterior
9~12 mm Barestone Interior with optional colour finishes in Ash, Lunar and Graphite	16mm Territory
9~12 mm Barestone Bark	8mm Surround

Item and description	Item and description
6 mm Ceramic tile underlay	-

4.4 Purpose of the test

The test was performed in accordance with the requirements of AS ISO 9705:2003 (R2016) and

AS 5637.1:2015 to determine the group number that may be assigned to the material using the classification schemes given in AS 5637.1:2015 and C/VM2 – Verification Method: Framework for Fire Safety Design

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

5. Conclusion

Details of the assessment and discussion are only available in the referenced main assessment report. It has been concluded that, the referenced assessment demonstrates that the range of plasterboard products listed in Table 4 and Table 5 is expected to achieve Group 1 classification if they were tested in accordance with AS ISO 9705:2003 (R2016) and AS 5637.1:2015.

6. Validity

Warringtonfire Australia does not endorse the tested or assessed products and systems in any way. The conclusions of the referenced 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.

The referenced 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 Warringtonfire 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 Warringtonfire's ongoing assessment. The primary goal of this notification is to allow Warringtonfire 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 Warringtonfire 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 is therefore recommended that the referenced assessment report be reviewed on, or before, the stated expiry date.

The referenced assessment represents our opinion about the performance of the proposed system/s that is expected to be demonstrated when subjected to test conditions in accordance with AS 1530.4:2014, based on the evidence referred to in the referenced assessment report.

The referenced assessment is provided to CSR Gyprock for their own specific purposes. The referenced assessment 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 the referenced assessment report for a specific installation.

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