



Certificate of Conformity

Certification Body:



SAI Global Certification Services Pty Limited

(ACN 108 716 669) Trading as "SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

Address: 680 George St, Sydney, NSW 2000

Website: www.saiglobal.com

Certificate Holder:



BGC Fibre Cement

121 Bannister Rd,
Canning Vale, WA 6155

Phone: (08) 9374 2900

Website:

<https://bgcinnovaldesign.com.au/contact-us/>

Certificate number: CM20252 Rev 1

THIS TO CERTIFY THAT

DURACOM™ and DURACOM Greystone™ Façade System

Type and/or use of product:

BGC Duracom™ and Duracom Greystone™ façade system is an exterior fibre cement cladding system for residential and commercial buildings. Suitable for use on all building classes where metal top hats can be fixed to a structural substrate.

For Class 2 to Class 9 buildings, BGC Duracom™ and Duracom Greystone™ façade system is suitable for only Type C Fire-Resisting Construction when fixed to timber stud framing.

Description of product:

BGC Duracom™ panels are square edged prefinished, 9mm or 12mm thick compressed autoclaved cellulose fibre cement panels trimmed and factory sealed. Available in a range of sizes. Refer below to A3 Product specifications.

The façade system components & accessories are detailed in the Technical Brochure – Duracom™ and Duracom Greystone™ façade system – dated June 2020.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2019

	Volume One	Volume Two
Performance Requirement(s)	BP1.1(a) limited to (b)(iii)	P2.1.1(a) limited to (b)(iii)
	Structural reliability	Structural stability and resistance
	FP1.4	Weatherproofing
Deemed-to-Satisfy Provision(s):	C1.1 including Spec C1.1 Clause 3	3.7.1.1(d)
	Fire Resistance – Type A Fire-Resisting Construction (90/90/90, or 60/60/60 from the outside when used in conjunction with 16mm GTEK™ fire and wet area plasterboard, refer to the Technical Brochure)	General concession – non-combustible materials
		3.7.2.4(b)(i)
		Fire separation of external walls – Construction of external walls (FRL 60/60/60)
		3.10.5.0(c)
		Construction in bushfire prone areas

SAI Global Certification Services

Frank Camasta

Global Head of Technical Services
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

Date of issue: 31 March 2021

Date of expiry: 31 August 2023



State or territory variation(s):

C1.8(a) including Spec C1.8 Clause 3.4

Lightweight construction – Walls generally

3.12.1.1(a)

Building Fabric – Building fabric thermal Insulation (as much as it can be used as part of a system contributing towards the Total R-Value as outlined in clause 3.12.1.4 External Walls) subject to state and territory variations

C1.9(e)(iv)

Non-combustible building elements

C1.10(a)(ii) including Spec C1.10 Clause 4

Fire hazard properties – Wall and ceiling linings

G5.1 & G5.2

Construction in bushfire prone areas – (up to and including BAL 40)

J1.2(a)

Building Fabric – Thermal Construction – general (as much as it can be used as part of a system contributing towards the Total R-Value as outlined in J1.5 Walls and glazing) subject to state and territory variations

SA C1.1(a)(iv) and (v); and SA C1.1(c) and (d)

Type of construction required

NSW 3.10.5.0

Construction in bushfire prone areas

QLD 3.10.5.0

Construction in bushfire prone areas

NSW 3.12

Energy Efficiency
In New South Wales, Part 3.12 does not apply.
Note: The New South Wales Additions contain energy efficiency measures that apply in New South Wales to support and complement BASIX

NSW G5.1 & G5.2

Construction in Bushfire Prone Areas – Protection

QLD G5.1

Construction in Bushfire Prone Areas – Construction Requirements

VIC 3.12.0(a)

3.12.0(a) is replaced in Victoria

NSW Section J

Section J is replaced with NSW Section J which consists of two (2) subsections:

NT 3.12

In the Northern Territory, Part 3.12 is replaced with BCA 2009 Part 3.12

- J(A) Energy Efficiency – Class 2 buildings and Class 4 part (BASIX)
- J(B) Energy Efficiency – Class 3 and Class 5 to 9 buildings

SA 3.12

In South Australia, for the purposes of this Part, a sunroom or the like is deemed to be a Class 10a building and must comply with 3.12.1.6

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NT Section J	For a Class2 building and a Class4 part of a building, Section J is replaced with Section J of BCA 2009. Section J does not apply to Class 3 and 5-9 buildings	QLD 3.12	In Queensland, building work for the energy efficiency of Class 1 buildings is also regulated by the Building Act 1975 and the Queensland Development Code MP 4.1—Sustainable buildings
QLD Section J	In Queensland, for a Class 2 building, Section J is replaced with Section J of BCA 2009	ACT 3.12	In the Australian Capital Territory, see the ACT Appendix for further information on application to building work on new buildings and additions to existing buildings in the ACT

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. Installation shall be in accordance with the Duracom™ and Duracom Greystone™ façade system Technical Brochure – dated June 2020.
2. For Class 2 to Class 9 buildings, BGC Duracom™ and Duracom Greystone™ façade system is suitable for only Type C Fire-Resisting Construction when fixed to timber stud framing.
3. For timber framing applications, the wall system only achieves an FRL 60/60/60 when either BGC Duracom™ or Duracom Greystone™ are installed in conjunction with 1 layer of 16mm GTEK™ Fire and Wet Area Plasterboard on the external fire side. On the internal side, with 1 layer of 10mm GTEK™ Standard Plasterboard to be installed as the internal wall lining (refer to diagram on page 5 below).
4. For steel framing applications, the wall system only achieves an FRL 60/60/60 when either BGC Duracom™ or Duracom Greystone™ are installed in conjunction with 1 layer 16mm GTEK™ Fire and Wet Area Plasterboard on the external fire side. On the internal side, with 1 layer of 16mm GTEK™ Fire Plasterboard to be installed as the internal wall lining (refer to diagram on page 5 below).
5. The wall system only achieves an FRL 90/90/90 when either BGC Duracom™ or Duracom Greystone™ are installed in conjunction with 2 layers of 16mm GTEK™ Fire and Wet Area Plasterboard on the external fire side where joints in the second layer are to be staggered relative to joints in the first layer or ensuring that the joints in the first layer of plasterboard are lapped by the second sheet. On the internal side, with 1 layer of 16mm GTEK™ Fire Plasterboard to be installed as the internal wall lining.
6. The Duracom™ and Duracom Greystone™ façade system must be constructed from either:
 - a) A timber frame constructed in accordance with AS 1684 or AS 1720.1 (MGP10 grade or higher with minimum dimensions 90 mm x 45 mm & 600mm maximum stud spacing); or
 - b) A cold-formed steel frame constructed in accordance with NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria, or AS 3623 Domestic Metal Framing (with minimum stud specification of 0.75 mm BMT, G550, and 600mm maximum stud spacing).

Building classification/s:

Volume 1 – Class 2 to Class 9 buildings
Volume 2 – Class 1 and Class 10(a) buildings

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7. For Type A and Type B construction, sarking-type materials must comply with clause C1.9(e)(vi) of NCC 2019 BCA Volume 1 and the thermal insulation must be of non-combustible material.
8. BGC Duracom™ and Duracom Greystone™ façade system has been tested for weatherproofing requirements and achieved serviceability limit state wind pressures up to +820Pa and -1230Pa water penetration for the cavity system utilising a flexible vapour permeable building wrap as an air barrier and water control layer. With BGC Durabarrier™ rigid air barrier, the cavity system achieved serviceability limit state wind pressures up to ±2.5kPa water penetration.
9. Duracom™ (9.0mm and 12.0mm) and BGC Plasterboard (10mm to 16mm thick gypsum-based plaster core) when tested to AS 3837 achieved a Group Number 1 and an Average specific extinction area (ASEA) of 0.1 to 8.0m²/kg and 12.8 to 44.0m²/kg, respectively in accordance with AS 5637.1:2015.
10. Duracom™ and Duracom Greystone™ façade System is suitable for use on buildings constructed in accordance with AS 3959:2018 that have a Bushfire Fire Attack Level up to and including BAL 40.
11. BGC fibre cement sheets (9mm) when installed with 35mm & 120mm top hats and 90mm R2.70 bulk insulation achieved a Total R-Value of 1.89 in winter and 1.77 in summer.
12. BGC Duracom™ panels are not suitable as tiling substrate.
13. Site environmental factors such as wind and corrosivity zones need to be considered to determine its suitability for a particular environment.
14. All flashing including inter-storey junction must be metal flashing.

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

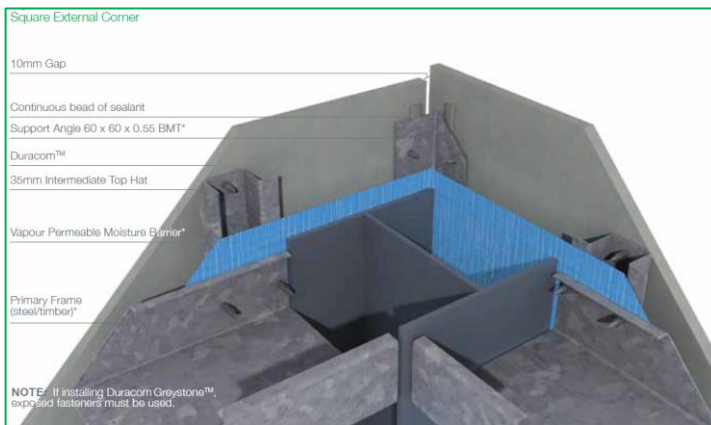
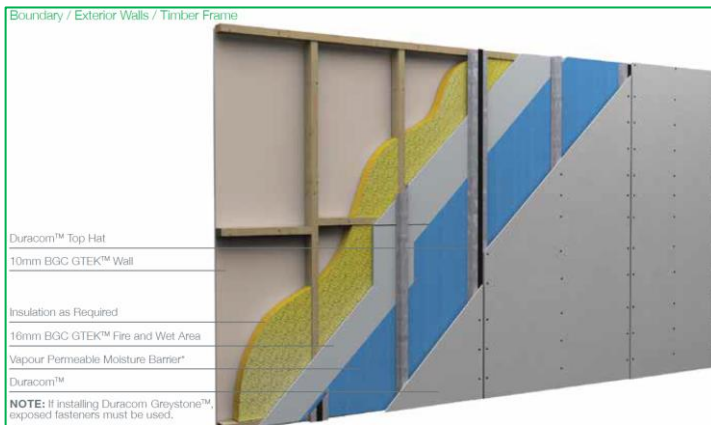
APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

Refer to Page 1 of this certificate.

A2 Description of product

Refer to Page 1 of this certificate and the below diagrams.



A3 Product specification

Below are some physical properties of DURACOM™ and DURACOM GREYSTONE™ fibre cement panels and accessories.

DURACOM™

Duracom™ panels are available in the following sizes.

THICKNESS mm	WEIGHT* kg/m ²	WIDTH mm	LENGTH mm			
			1800	2400	2700	3000
9	14.6	900	✓	✓		✓
		1200	✓	✓	✓	✓
12	19.5	1200		✓		✓

DURACOM GREYSTONE™

THICKNESS mm	WEIGHT kg/m ²	WIDTH mm	LENGTH mm	
			2400	3000
9	14.6	1200	✓	✓

Duracom™ to Top Hats (Concealed Fixing)

no.10 x 30mm Countersunk Self Drilling Screw



Duracom™ to Top Hats (Exposed Fixing)

no.10 x 25mm Pan Head Self Drilling Screw



no.10 x 25mm Wafer Head Self Drilling Screw



NOTE: If installing Duracom Greystone™, exposed fasteners must be used.

Top Hats to Primary Frame

Class 3 Hex Head Screw, 12-14 x 20mm



/ Fasteners must comply with AS 3566, with a minimum Class 3 coating.

FILLING/FINISHING OF FASTENERS

/ Countersunk screw holes must be filled with an epoxy filler such as Megapoxy PI, Hilti CA125 or Hilti CA273, and then with BGC Exterior Topcoat. Allow at least 24hours to dry. Sand flush.

PRIMARY TOP HAT GALVANISED STEEL	120 x 35 x 1.15mm BMT - 6000mm	BGC PRODUCT CODE 831	
	120 x 35 x 1.15mm BMT - 7200mm	BGC PRODUCT CODE 833	
INTERMEDIATE TOP HAT GALVANISED STEEL	50 x 35 x 1.15mm BMT - 6000mm	BGC PRODUCT CODE 835	
	50 x 35 x 1.15mm BMT - 7200mm	BGC PRODUCT CODE 837	
HORIZONTAL BACKING STRIP BMT 0.42	1190mm	BGC PRODUCT CODE 839	
	2390mm	BGC PRODUCT CODE 841	
	2990mm	BGC PRODUCT CODE 843	
EPDM FOAM GASKET	25m	BGC PRODUCT CODE 845	
WEATHER SEAL FACADE WASHER		BGC PRODUCT CODE DCA-WSEAL	
WAFER HEAD SELF-DRILLING SCREW. (Recommended for exposed fixing)	No.10 x 30mm	BGC PRODUCT CODE GSA-SCREW 3010	
EDGE SEALER	500ml	BGC PRODUCT CODE GSA-EDGESEAL	

A4 Manufacturer and manufacturing plant(s)

BGC Fibre Cement, 121 Bannister Road, Canning Vale, WA, 6155, Australia.

A5 Installation requirements

Refer to Page 3 of this certificate and the following:

- Technical Brochure – Duracom™ and Duracom Greystone™ façade system – dated June 2020.

A6 Other relevant technical data

- None.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The system has been assessed as complying with the identified Performance Requirements of the NCC 2019 BCA Volumes 1 and 2. This involved a review of product specifications, test reports, installation manuals, and associated documentation.

1. Structural assessment:

- Volumes 1 & 2 – A2.2(2)(a) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – Cyclone Testing Station, James Cook University (NATA accreditation No. 14937)
- Volumes 1 & 2 – A2.2(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person. (JLP Consulting Engineers, MW Engineers, Wallbridge Gilbert Aztec)
- Volumes 1 & 2 – A2.2(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Acronem Consulting)

2. Weatherproofing assessment:

- Volumes 1 & 2 – A2.2(2)(a) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – Ian Bennie and Associates (NATA accreditation No. 2371)
- Volumes 1 & 2 – A2.2(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Acronem Consulting)

3. Fire Resistance assessment:

- Volumes 1 & 2 – A2.3(2)(a) / A5.2(1)(d) – A test report issued by an Accredited testing Laboratory – Exova Warringtonfire (NATA accreditation No. 3277)
- Volumes 1 & 2 – A2.3(2)(a) / A5.2(1)(e) – An assessment report issued by an Accredited testing Laboratory – Exova Warringtonfire (NATA accreditation No. 3277)

4. Lightweight Construction assessment:

- Volumes 1 & 2 – A2.3(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person – CSIRO and Ian Bennie and Associates

5. Non-Combustibility

- Volumes 1 & 2 – A2.3(2)(a) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – CSIRO (NATA accreditation No. 165)

6. Fire Hazard Properties assessment:

- Volume 1 – A2.3(2)(a) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – CSIRO (NATA accreditation No. 3632) and AWTA Product Testing (NATA accreditation No. 1356)
- Volume 1 – A2.3(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (AWTA and IGNIS Solutions)

7. Resistance to Bushfire Attack assessment:

- Volumes 1 & 2 – A2.3(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Exova Warringtonfire)

8. Thermal Insulation assessment:

- Volumes 1 & 2 – A2.3(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (James M Fricker)

B2 Reports

Evaluation methods	Related Supporting Evidence as listed below
Structural Assessment	Numbers 1 – 7
Weatherproofing Assessment	Numbers 8 & 9
Fire Resistance assessment	Numbers 10 & 11
Lightweight Construction Assessment	Numbers 12 – 14
Non-Combustibility Assessment	Number 15
Fire Hazard Properties Assessment	Numbers 16 – 24
Resistance to Bushfire Construction Assessment	Number 25
Thermal Insulation Assessment	Number 26

Structure

1. **Test Report for Cyclic Simulated Wind Load Strength Testing of Duracom Façade System (9mm nominal thickness) from James Cook University (NATA Accreditation No: 14937), Report No. TS1150, dated: 23 July 2019**
This document contains the test results of Duracom Façade system for resistance to simulated cyclic wind load carried out in accordance with AS 4040.2:1992 and AS 4040.3:2018.
2. **Test Summary Report for Assessment of the Cyclonic Wind Load Capacity of Duracom Façade System (9mm nominal thickness) from James Cook University (NATA Accreditation No: 14937), Test Summary Sheet No. TS1150, dated 25 July 2019**
This document contains the reappraisal of the test results from test report TS1150 and recommended limit state design wind pressures for non-cyclonic wind loads.
3. **Section and Material properties of Duracom Top Hat Wall Cladding Metal Components from JLP Consulting Engineers, Report No. Mill/JLP 11665, Table JS 01**
This document contains the section properties of wall cladding battens (top hat) and maximum spans tabulated for each section and wind pressures based on Limit State Design in accordance with AS1170.2 for wind actions and AS4600 Cold Formed Steel Structures.
4. **Multiple Span Tables for Wall Cladding Battens from JLP Consulting Engineers – Document Reference Mill/JLP 11665**
This document provides junction stud load span tables for Millform Products for wind pressure vs batten spacing for various stud sizes.
5. **MW Engineering, compliance letter, External Reference: Mill/JLP 11665, dated 18 December 2019**
This document verifies the maximum load span tables prepared by JLP Consulting Engineers for top hat spans and spacings of Duracom façade system assessed against the provisions of AS4600 Cold Formed Steel Structures in accordance with normal engineering practice and principals.
6. **Fixing spacing calculations from WG&A (Wallbridge Gilbert Aztec RFP, Structural Engineers)**
This document provides engineering calculations for fixing spacing for non-cyclonic and cyclonic wind regions.

7. Appraisal Report for Innova Duracom Façade System – External Walls from Acronem Consulting Australia Pty Ltd, Report No. ACA 190626 200717, dated 17 July 2020

This appraisal describes the basis of a performance solution based on engineering calculations and other test reports to satisfy the relevant Performance Requirements and DTS provisions of the NCC 2019 for structural resistance and reliability.

Weatherproofing

8. Test Report for Air Infiltration, Water Penetration and Structural ULS of Duracom Cladding System (Cavity Fixed) from Ian Bennie and Associates (NATA Accreditation No: 2371), Report No. 2019-019-S2, dated May 2019

This test report provides results of Duracom Cladding System (Cavity Fixed with a vapour permeable building wrap) against the requirements of the NCC 2016 Weatherproofing Verification Methods FV1 & V2.2.1, carried out in accordance with AS/NZS 4284:2008 Testing of building facades and concludes that the product passed the compliance requirements at the nominated test parameters.

9. Test Report for Air Infiltration, Water Penetration and Structural ULS of Duracom Cladding System (Cavity Fixed) from Ian Bennie and Associates (NATA Accreditation No: 2371), Report No. 2019-019-S8 (dated December 2019)

This test report provides results of Duracom Cladding System (Cavity Fixed with DurabARRIER rigid air barrier) against the requirements of the NCC 2016 Weatherproofing Verification Methods FV1 & V2.2.1, carried out in accordance with AS/NZS 4284:2008 Testing of building facades and concludes that the product passed the compliance requirements at the nominated test parameters.

Fire Resistance

10. Test Report for Fire resistance of a BGC loadbearing wall system from Exova Warringtonfire (NATA Accreditation No. 3277), Report # 2369800.1, dated 18 September 2009

This report provides the results of testing BGC fibre cement wall system to AS1530.4:2005 comprising a timber framed wall with 7.5mm fibre cement clad to the exposed face backed by BGC 16mm thick wet area fireboard, with BGC 10mm plasterboard to the unexposed face and returned a result of FRL 60/60/60.

11. Assessment Report from Warringtonfire for Fire resistance performance of loadbearing boundary wall clad with various BGC fibre cement sheets, Report #53202100 Rev 5, dated 6 May 2019

This report provides an assessment of the fire resistance performance of BGC Wall Systems if tested in accordance with AS1530.4:2014 with various BGC fibre cement panels and BGC GTEK Fire and Wet Area plasterboard on the external or exposed side and 10mm BGC GTEK standard plasterboard internal lining.

Lightweight Construction

12. Test Report of BGC Duracom fibre-reinforced cement board from CSIRO, Report # 8133, dated 15 March 2019

This report concludes that BGC Duracom fibre-reinforced cement board conform to the requirements of Type A Category 4 of AS/NZS2908.2:2000 including the extra test for modulus of elasticity with flexural method to AS1774.31.1:2000 (R2013).

13. Test Report for Impact Test with various BGC fibre cement sheets (including Duracom) from Ian Bennie and Associates, Report #2019-109 Report 1, dated February 2020

This report provides an assessment based on witnessed testing of a lightweight wall construction carried out by Curtin University for impact test to ASTM E695-79 modified to the requirements of NCC 2019 Vol 1 Specification C1.8.

14. Test Report for surface indentation tests with various BGC fibre cement sheets (including Duracom) from Ian Bennie and Associates, Report #2019-109 Report 2, dated February 2020

This report provides results of testing wall materials for surface indentation and concludes it passed the test requirements as specified in the NCC 2019 BCA Vol 1 Specification C1.8 Clause 5(d).

Non-Combustibility

15. Certificate of Test, Combustibility Test of BGC fibre cement board from CSRIO (NATA Accreditation No: 165), Report # FNC11592, dated 12 January 2016

This report provides test results of specimens tested for combustibility in accordance with AS1530.1:1994 and concludes that the material is not deemed combustible.

Fire Hazard Properties

16. Test Report for Heat and Smoke Release Rates of BGC Greystone Compressed fibre cement board (9mm) from AWTA, (NATA Accreditation No: 1356), Test No. 18-007379, dated 23 January 2019

This report provides test results on the behaviour of the test specimens when tested in accordance with AS/NZS 3837:1999 and concluded that for the average heat release the material failed to ignite (fti) and returned an Average Specific Extinction Area (ASEA) of 0.1m²/kg.

17. Assessment Report for Group Number of BGC Greystone Compressed fibre cement board (9mm) from AWTA, Test No. 18-007379, dated 25 January 2019

This document provides an assessment in accordance with AS 5637.1:2015 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 0.1m²/kg.

18. Test Report for Heat and Smoke Release Rates of BGC Duracom (4.5mm, 6.0mm, 10.0mm and 12.0mm) from CSRIO (NATA Accreditation No: 3632), Report # FNK 8760, dated 30 January 2007, and certificate of assessment (No. 915)

This report provides test results on the behaviour of the test specimens for heat and smoke release rates for materials tested in accordance with AS/NZS 3837:1998 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 7.6m²/kg.

19. Assessment Report for Group Number of BGC fibre cement sheet from Ignis Solutions, Report No. IGNIS-8120-01 I02 R00, dated 22 May 2020

This document provides an assessment in accordance with AS 5637.1:2015 based on CSIRO test reports for specimens tested in accordance with AS/NZS 3837:1998 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 6.5 to 8.0m²/kg.

20. Test Report for BGC Fire Rated Water-Resistant Plasterboard (13.0mm to 16.0mm) from CSIRO (NATA Accreditation No: 3632), Report # FNK 8979, dated 5 November 2007, and certificate of assessment (No. 1024)

This report provides test results on the behaviour of the test specimens for heat and smoke release rates for materials tested in accordance with AS/NZS 3837:1998 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 32.1m²/kg.

21. Test Report for Heat and Smoke Release Rates of BGC Fire Rated Water-Resistant Plasterboard (13.0mm) from CSIRO (NATA Accreditation No: 3632), Report # FNK 9070, dated 29 January 2008, and certificate of assessment (No. 1046),)

This report provides test results on the behaviour of the test specimens for heat and smoke release rates for materials tested in accordance with AS/NZS 3837:1998 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 44.0m²/kg.

22. Assessment Report for Group Number of BGC Plasterboard sheet from Ignis Solutions, Report No. IGNIS-8120-02 I01 R01in accordance with AS 5637.1:2015, dated 27 May 2020

This document provides an assessment based on CSIRO test reports for specimens tested in accordance with AS/NZS 3837:1998 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 12.8 to 44.0m²/kg.

23. Test Report for Heat and Smoke Release Rates of BGC Plasterboard (10.0mm and 13.0mm) from CSIRO (NATA Accreditation No: 3632), Report # FNK 0422, and certificate of assessment (No. 725), dated 8 December 2005

This report provides test results on the behaviour of the test specimens for heat and smoke release rates for materials tested in accordance with AS/NZS 3837:1998 and concludes that the material achieved Group Number 1 and an Average Specific Extinction Area (ASEA) of 12.8m²/kg.

24. Test Report for Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release of BGC Duracom Greystone Compressed fibre cement board (9mm) from AWTA (NATA Accreditation No: 1365), Test No. 19-002077, dated 1 May 2019

This report provides test results on the behaviour of the test specimens for 'Early Fire Hazard Indices' when tested to AS/NZS 1530.3 and reports an Ignitability Index 0, Spread of Flame Index 0, Heat Evolved Index 0, and Smoke Developed Index 1.

Resistance to Bushfire Attack

25. Review Report against AS3959-2009 Amendment 3 of BGC Duracom Fibre Cement sheets (9mm or 12mm) from Exova Warringtonfire, Report No. 23616-RPT01-2, dated 19 December 2014

This report provides a review of a range of BGC products and their suitability for use in bushfire prone areas in accordance with AS3959-2009. It indicates Duracom 9mm and 12mm is suitable for use in bushfire prone areas up to and including BAL 40.

Thermal Insulation

26. Thermal Performance Calculations of BGC fibre cement sheets from James M Fricker, Report # i367c, dated 3 September 2019

This report provides the R-value calculations to AS/NZS 4859:2018 Parts 1 and 2 of BGC fibre cement sheets (9mm) when installed with 35mm & 120mm top hats and 90mm R2.70 bulk insulation achieved a Total R-Value of 1.89 in winter and 1.77 in summer.