



CERTIFICATE OF CONFORMITY

This is to certify that

USG Boral Bracing Systems



Complies with the New Zealand Building Code:

1. B1.3.1, B1.3.2, B1.3.3(a),(f),(h) and (j) & B1.3.4 - Structure
2. B2.3.1(a) - Durability
3. F2.3.1 - Hazardous building materials

Product Description

USG Boral Bracing Systems are a range of eight wall bracing systems based on the use of USG Boral Sheetrock® Ceiling and Wall, and USG Fiberock®, Aqua-Tough™ and Multistop™4.

Refer A1 for further information.

Product Purpose or Use:

The USG Boral Bracing Systems have been certified for use as interior wall bracing systems in buildings within the scope limitations of NZS 3604:2011 or specific engineering design of comparable stiffness, and for dry, internal situations only. The USG Boral Bracing Calculator provides an electronic means of calculating bracing demand and resistance and may be used as an alternative to the manual method.

Subject to the following Conditions & Limitations:

- a. Must be installed in accordance with the [USG Boral PlasterBoard Bracing Manual PB400/2 March 2017](#).
- b. The USG Boral Bracing Systems are not permitted for use in wet areas such as shower cubicles or behind baths.
- c. To be constructed with timber-framing within the scope of NZS 3604:2011, or to a specific engineering design of comparable stiffness.
- d. Maximum building height of 10.0m when designed in accordance with NZS 3604:2011.
- e. Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.
- f. The certificate holder must maintain compliance with the conditions set out in Section 15 of the Building (Product Certification) Regulations 2008.

Certificate Holder

USG Boral Building Products NZ
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Mangere, Auckland, New Zealand
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www.usgboral.com

Certification Body

CertMark International Pty Ltd
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John Thorpe
CertMark International Pty Ltd

13/12/2017
Date of Issue

CM40045-I01-R01
Certificate Number

- This certificate is issued by an independent certification body accredited by the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation & Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms to the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims, 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 building method(s) or product(s) referred to in this certificate
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 **MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT**
HIKINA WHAKATUTUKI

A1 Product or System Specification

Technical properties

The USG Boral Bracing Systems comprise of 8 individual systems as listed in the following table:

USG Boral Bracing Systems Summary & Bracing Ratings

Bracing System Reference	System Description	Board Type	Hold Downs	Minimum Wall Length (M)	Maximum Wall Length (M)	Wind Value Bu's/M	Earthquake Value Bu's/M
UB1S	10mm Sheetrock® on one side	Sheetrock®	No	0.4	6.0	55	50
UB2S	10mm Sheetrock® on both sides	Sheetrock®	No	0.4	4.8	65	60
UB1M	10mm Multistop™4 on one side with Hold Downs	Multistop™4	Yes	0.4 1.2	1.2 2.4	85 100	85 85
UBSM	10mm Multistop™4 one side, 10mm Sheetrock other side with Hold Downs	Multistop™4 & Plywood	Yes	0.6	2.4	130*	125*
UBMP	10mm Multistop™4 on one side, 7mm DD Structural Plywood the other side with Hold Downs	Multistop™4 & Plywood	Yes	0.4 0.6 1.2	0.6 1.2 2.4	90 120* 150*	110 130* 150*
UB1FR	13mm Fiberock® Aqua-Tough™ on one side with Hold Downs	Fiberock® Aqua-Tough™	Yes	0.4 1.2	1.2 4.8	105 145*	125* 140*
UB2FR	13mm Fiberock® Aqua-Tough™ on both sides with Hold downs	Fiberock® Aqua-Tough™	Yes	0.4 1.2	1.2 2.4	115 150*	130* 150*
UBFRP	13mm Fiberock® Aqua-Tough™ on one side, 7mm DD Structural Plywood on the other side with Hold downs	Fiberock® Aqua-Tough™ & Plywood	Yes	0.4 1.2	1.2 2.4	105 150*	130* 150*

*Timber Floors - A limit of 120 BU/m applies to NZS 3604:2011 timber floors

Note: Where linings are specified on both faces, each face must be fastened as a bracing element.

The USG Boral Bracing Systems components required for each USG Bracing System is detailed in the USG Boral Plasterboard Bracing Manual PB400/2 March 2017 and are to be supplied by the building contractor.

Type and Use of Product

USG Boral Bracing Systems are a range of eight wall bracing systems based on the use of USG Boral Sheetrock® Ceiling and Wall, and USG Fiberock®, Aqua-Tough™ and Multistop™4. The USG Boral Bracing Systems have been certified for use as interior wall bracing systems in buildings within the scope limitations of NZS 3604:2011 and for dry, internal situations only.

A2 Installation Requirements

Must be installed in accordance with the [USG Boral PlasterBoard Bracing Manual PB400/2 March 2017](#).

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Installation of USG Boral Bracing Systems must be completed by, or under the supervision of, a Licensed Building Practitioner with the relevant License Class, in accordance with the USG Boral PlasterBoard Bracing Manual PB400/2 March 2017.

A3 Other Relevant Technical Data

Durability
USG Boral Bracing Systems, including linings and their fixings have a serviceable life of at least 50 years. The ability of the systems to remain durable is dependent on them remaining dry in service, and being maintained in accordance with the USG Boral PlasterBoard Bracing Manual PB400/2 March 2017.

Substitutions

Plasterboard substitutions are allowed in accordance with the following table:

USG Boral Specified Board	Fiberock®		Firestop®		Soundstop™		Multistop™4		Wetstop™	
	13mm	16mm	13mm	16mm	10mm	13mm	10mm	13mm	10mm	13mm
10mm Sheetrock®	✓ ¹	✓ ²	✓	✓ ²	✓	✓	✓	✓	✓	✓
10mm Multistop™4	✓ ¹	✓ ²								
10mm Fiberock® Aqua-Tough™	N/A	✓ ²								

Note: ¹ use 41 x 6g screws / ² use 51 x 7g screws

B1 Basis of CodeMark Certification

USG Boral Bracing Systems have been evaluated in accordance with the requirements of the Building (Product Certification) Regulations 2008 Clause 8. CMI has followed procedures for certifying USG Boral Bracing Systems which are based on evidence established by:

- Testing and assessment of the USG Boral Bracing Systems.
- Assessing a quality plan for the USG Boral Bracing Systems that conforms to ISO 10005:2018 and the CodeMark Scheme Rules version 2009.1.
- By reviewing the testing and assessments of samples to ascertain whether or not the product meets the performance requirements specified on this certificate.
- Conducting site audits of the factory to verify compliance of the USG Boral Bracing Systems.

B2 Sources of Information

- USG Boral Bracing; BRANZ Appraisal No.899 [2015]; Amended; dated 24 November 2017.
- Scion P21:2010 Testing.
- AS/NZS 1170:2002 Structural design actions.
- AS/NZS 2588:2018 Gypsum plasterboard.
- NZS 3603:1993 Timber Structures Standard.
- NZS 3604:2011 Timber-framed building.

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