

Fiberock® Aqua-Tough™

USG Boral Fiberock® Aqua-Tough™ is the ideal lining for high traffic areas, wet areas and Alfresco ceilings. Fiberock® Aqua-Tough™ Panels are a unique, gypsum fibre product that includes a water-resistant core for supreme durability and superior performance. Easy to cut and install, these panels are highly desirable and durable in wet and dry environments alike.

Fiberock® Aqua-Tough™ linings can be used in ceiling applications as well as interior walls, including exterior areas protected from direct exposure to rain such as Alfresco dining, verandahs, carports, soffits or eaves that are horizontal or incline down away from the building. Fiberock® Aqua-Tough™ is Good Environmental Choice Australia (GECA) certified and may contribute to Green Star points when assessed under various Green Star rating Tools.

ADVANTAGES

- Exceptional impact resistance; when compared with plasterboard linings
- Fire rated wall systems up to 60 minutes (single layer) and 120 minutes (2 layers)
- High mass gives superior noise control, including inter-tenancy rated systems
- Excellent substrate for paint and tiles and a number of abrasion resistant coatings
- Paperless board means no paper face to scratch, tear, delaminate or feed mould
- Suitable fixtures can be attached to linings without the need to screw into studs or noggings
- Water resistance superior to plasterboard linings
- Mould resistance superior to plasterboard linings



BOARD SPECIFICATION

Feature	Description
Thickness	10mm, 13mm, 16mm
Edge Profiles	13mm, 16mm Recessed Edge 10mm Recessed Edge / Square Edge
Sheet Size (width x length)	Refer to Product Availability Chart on rear page
Mass	10 kg/m ² nominal (10mm) 12 kg/m ² nominal (13mm) 15 kg/m ² nominal (16mm)
Fire Hazard Properties	Group 1 - in accordance with BCA Specification C1.10a Fire Hazard Properties - Floors, Walls and Ceilings Group 1 - S - in accordance with NZBC verification method C/VM2 Appendix A
Combustibility	Non Combustible material as defined in BCA Deem-to-Satisfy Provisions C1.12
VOC	Less than 0.5mg/m ³ TVOC
GECA	Certified to GECA 04-2014 v2 - Panel Boards
Manufacture	Manufactured in USA to meet the requirements of ASTM C1278



Fiberock® Aqua-Tough™

PERFORMANCE DETAILS

IMPACT

SOFT BODY IMPACT TEST

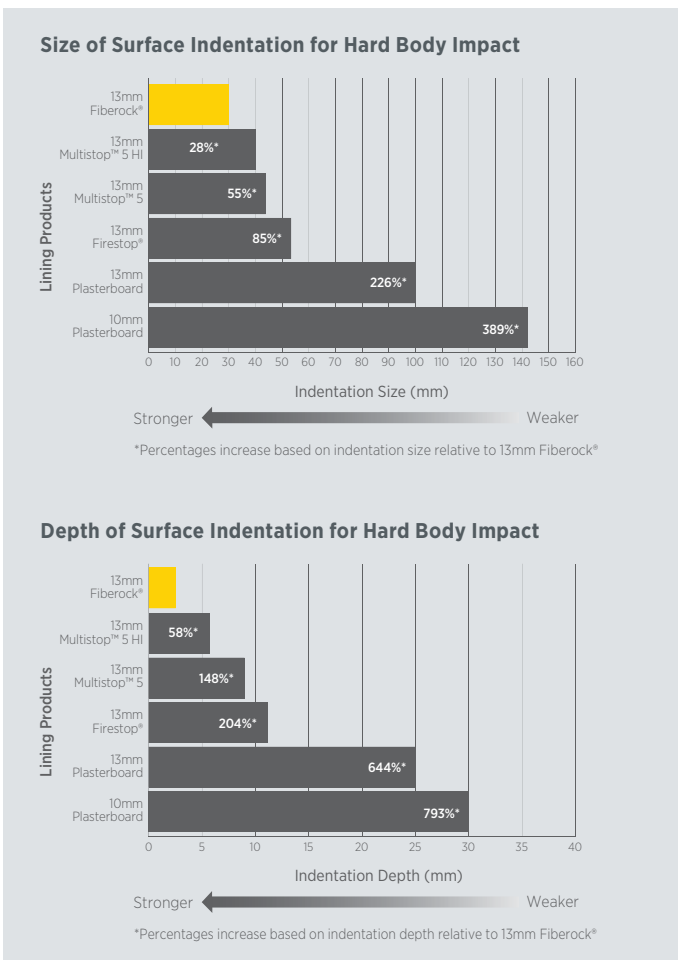
USG Boral Fiberock® exceeds BCA specification C1.8 requirements for soft body impact.

- Testing was conducted with a 27.2kg pendulum swing, impact bag into a 3.0m high wall specimen.
- A practical example of soft body impact is a bump to a wall surface by an average weight male shoulder at speed.
- Testing conducted by USG Boral NATA accredited Laboratory. Resistance to Impact – Test Report No M17-31.

HARD BODY IMPACT TEST

Fiberock® Aqua-Tough™ is subject to extensive hard body impact testing.

- Testing was conducted by a pendulum swing of a 100mm diameter 4.0kg steel ball on a 3.0m axis against the wall specimen.
- An example of hard body impact is a bump by a hospital trolley or an intentional kick to wall surface.
- Testing conducted by USG Boral NATA accredited Laboratory. Resistance to Impact – Test Report No HB 20120415-01.



EXTRA HIGH ABRASION RESISTANCE

Where very high levels of abrasion resistance are needed, a coating of USG Boral Tuff-Hide™ Primer-Surfacer as part of the final finishing system can be specified.



FIRE

Fiberock® Aqua-Tough™ is subject to full scale fire testing at Exova Warrington, BRANZ, CSIRO and satisfies AS 1530.4:2005 Fire Resistance Test of Elements of Construction.

- Fire tested to achieve the least fire hazard Group Number for wall and ceiling materials as defined by BCA and NZBC. BRANZ assessment No. FH 3290 (AU) and FH5774 (NZ)

13mm Fiberock® Aqua-Tough™ is also a suitable lining behind steel or glass splashbacks in accordance with AS 5601 Gas Installations (Refer relevant State and Territory Authorities for requirements).

ACOUSTIC

Fiberock® Aqua-Tough™, when used in an acoustic system can provide required levels of sound insulation to achieve specified acoustic ratings. Refer to Table 1 under Wall Systems for acoustic performance.

WET AREA

- Fiberock® Aqua-Tough™ is manufactured to exceed water resistant grade gypsum plasterboard requirements of AS/NZS 2588:1998 Gypsum Plasterboard – Test Report No 6904.
- Meets deemed to comply requirements of the BCA and AS 3740:2010 Waterproofing of domestic wet areas when installed to USG Boral plasterboard wet area installation details.

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MOULD

The cellulose reinforcement within Fiberock® Aqua-Tough™ is not a readily available food source for mould because it is processed under high temperature and pressure and also because it is dispersed throughout the material - away from everyday moisture which remains on the sheet surface. As a result Fiberock® Aqua-Tough™ is the stand out leader in resistance to mould formation, scoring the top score of 10 in the ASTM D3273 test.

STRUCTURAL

Fiberock® Aqua-Tough™ complies to relevant deem-to-satisfy provisions of BCA Specification C1.8 Structural Tests for Lightweight Construction. Resistance to Static Pressure - Test Report No M16-20130612.

- Exceeds compliance criteria for BCA resistance to impact test to ASTM E695-75.
- Exceeds compliance criteria for BCA resistance to static pressure test to ASTM E72-80.

WALL SYSTEMS

Table 1. Full systems details can be found in Systems+ Guide. Refer to **USGBoral.com**

Systems Configuration	FRL/FRR (minutes)	Acoustic (Rw/STC)
1 layer of 13mm Fiberock® Aqua-Tough™ on both sides of a 92mm steel stud with 0.55 mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m³).	- / 30 / 30	45/45
1 layer of 13mm Fiberock® Aqua-Tough™ on one side and 2 layers of 13mm Fiberock® Aqua-Tough™ on the other side of a 92mm steel stud with 0.55mm BMT at 600 centres and 75mm glasswool insulation (nominal 11 kg/m³).	- / 30 / 30	50/51
2 layers of 13mm Fiberock® Aqua-Tough™ on both sides of a 92mm steel stud with 0.55mm BMT at 600 centres and 75mm glasswool insulation (nominal 11 kg/m³).	- / 120 / 120	53/54
2 layers of 13mm Fiberock® Aqua-Tough™ on both sides of a 92mm Rondo Quiet Stud steel stud with 0.55mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m³).	- / 90 / 90	55/55

INSTALLATION

Refer to **USGBoral.com/fiberock** or call TecASSIST® on 1800 811 222 (Australia) or 0800 USG Boral (New Zealand)

SUSTAINABILITY

Fiberock® Aqua-Tough™ is 95% recycled waste product and can be reclaimed for land fill. Fiberock® Aqua-Tough™ offers the benefits of low embodied energy, non-toxic materials, enhanced indoor air quality and ease of thermal and acoustic upgrading. Fiberock Aqua-Tough complies with requirements of (Panel Board Standard GECA 04-2014 v2).

REFERENCES

Refer **USGBoral.com/fiberock** for Material Safety Data Sheet and Plasterboard Installation Manual.

Product Availability			
Thickness (mm)	Width (mm)	Length (mm)	
		2700	3000
10	1200	✓	
13	1200		✓
16	1200		✓

To confirm product availability, please check with your local **USG Boral supplier**, or contact **USG Boral customer service**.

SALES ENQUIRIES **1800 003 377**

TecASSIST® **1800 811 222**

New Zealand **0800 USG BORAL**

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This technical information is intended to provide general information on plasterboard products and should not be a substitute for professional building advice. We recommend you use a qualified person to install USG Boral plasterboard. Illustrations in this guide are only representative of USG Boral plasterboard products and the appearance and effects that may be achieved by their use. To ensure the information you are using is current, USG Boral recommends you review the latest building information available on the USG Boral website. **www.USGBoral.com** website. Product availability should be checked with your local USG Boral Sales Office, as availability may vary. Information regarding Green Star points and Green Star rating tools is correct at the date of publication. We recommend that you review the latest Green Star rating information available at www.geca.org.au/get-certified

USG Boral Building Products Pty Limited - ABN 84 004 231 976 251 Salmon Street, Port Melbourne, Vic. 3207
New Zealand - 118 Savill Drive Mangere East Auckland 2024

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Suitability of 13mm & 16mm Fiberock behind a splash back

To whom it may concern,

13mm & 16mm Fiberock Aqua Tough are suitable backing material for splash back and complies with the requirements of AZ/NZS 5601.1: 2013 Appendix C.

If you have any questions please don't hesitate contacting TecASSIST on 1800 811 222

Regards,



Daniel Lim

Senior Development Engineer

USG Boral Australia

t: 03 9214 2110

m: 0401 894 301

f: 03 9214 2192

e: Daniel.Lim@usgboral.com