

TECHNICAL DATA

Multistop™ 5



Multistop™ 5 plasterboard is designed to resist mould growth and provide durability to incidental impacts, as well as providing fire, water and acoustic performance to a wide range of interior wall and ceiling applications.

Multistop™ 5 is ideal for commercial applications such as Healthcare, Hospitality and Childcare where mould resistance and plasterboard durability to incidental collisions are required.

Multistop™ 5 plasterboard contains a minimum of 10% overall recycled content, is certified by Good Environmental Choice Australia (GECA) and may contribute to the achievement of Green Star points.

ADVANTAGES

- Mould resistance
- Impact resistance to incidental collision
- Fire resistance
- Water resistance
- Sound resistance
- May contribute to the achievement of Green Star points

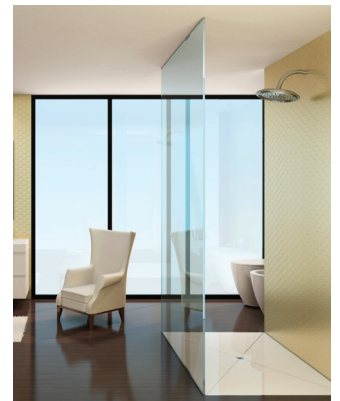
PERFORMANCE DETAILS

IMPACT

SOFT BODY IMPACT TEST

Multistop™ 5 exceeds BCA specification C1.8 requirements for soft body impact.

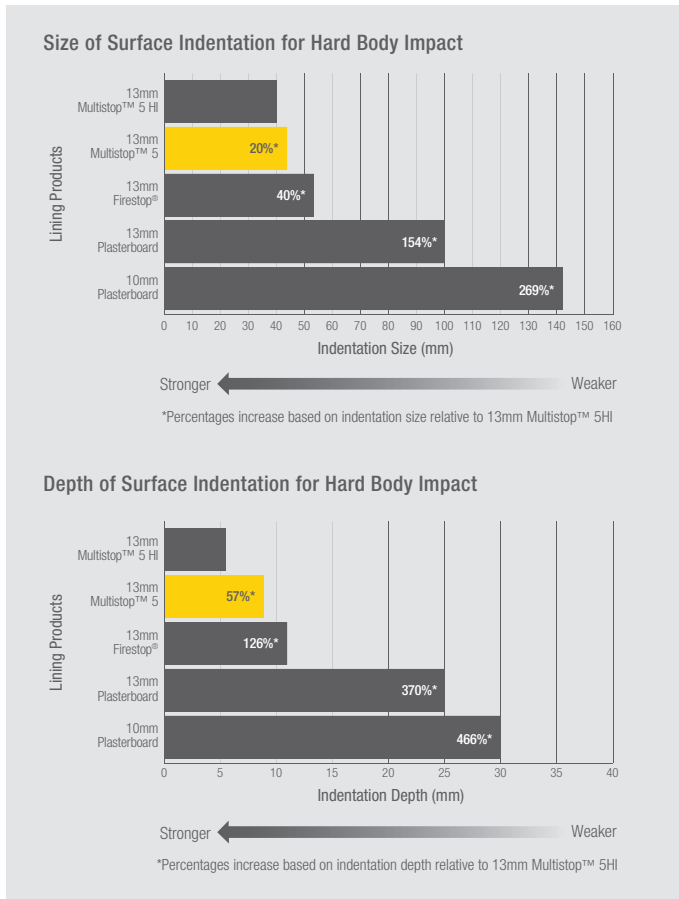
- Testing was conducted with a 27.2kg pendulum swing, impact bag into a 3.0m high wall specimen.



BOARD SPECIFICATION

Feature	Description
Thickness	13mm
Sheet Size (width x length)	1200 x 3000mm [1200 x 2700mm, 1200 x 3600mm, 1350 x 3000mm, 1350 x 3600mm (minimum order and lead times apply)]
Paper Colour	Light green
Mass	11.8 kg/m ² nominal
Fire Hazard Properties	Group 1 – in accordance with BCA Specification C1.10a Fire Hazard Properties – Floors, Walls and Ceilings.
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 04-2011 v2 – Panel Boards
Manufacture	Manufactured in Australia to the requirements of AS/NZS 2588:1998 Gypsum plasterboard and in accordance with AS/NZS ISO 9001:2008 – Quality management systems – Requirements

- 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 M17-25.



HARD BODY IMPACT TEST

Multistop™ 5 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.

FIRE

Multistop™ 5 is subject to full scale fire testing at Exova Warrington and satisfies AS 1530.4:2005 Fire Resistance Test of Elements of Construction.

- Multistop™ 5 achieves fire resistance equal to 13mm Firestop® when used in a fire-rated system. Refer Wall Systems Table.1.
- 13mm Multistop™ 5 is a substitute for 13mm Firestop® or 13mm Wet Area Firestop™ for fire-rated applications.
- Fire tested to achieve the least fire hazard Group Number for wall and ceiling materials as defined by BCA. BRANZ assessment No. FAR 4137.

ACOUSTIC

Multistop™ 5, 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

- Multistop™ 5 is manufactured to exceed water resistant grade gypsum plasterboard requirements of AS/NZS 2588:1998 Gypsum Plasterboard – Test Report No ENMS – Grace M8 – 1.
- 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.

MOULD

Multistop™ 5 is tested for mould resistance according to the requirements of ASTM Standard G21-09, “Determining Resistance of Synthetic Polymeric Materials to Fungi”. Achieving no mould growth with a rating of 0.

Testing conducted by Thor Technical Services NATA accredited laboratory. Test Report No. M13/700.

STRUCTURAL

Multistop™ 5 complies to relevant deem-to-satisfy provisions of BCA Specification C1.8 Structural Tests for Lightweight Construction. Resistance to Static Pressure - Test Report No M16-65. Resistance to Static Pressure – Test Report No M16-75.

- 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

Systems Configuration	FRL (minutes)	Acoustic (RW)
1 layer of 13mm Multistop™ 5 on both sides of a 92mm steel stud with 0.55 mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m3).	- / 60 / 60	46
1 layer of 13mm Multistop™ 5 on one side and 2 layers of 13mm Multistop™ 5 on the other side of a 92mm steel stud with 0.55mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m3).	- / 90 / 90	51
2 layers of 13mm Multistop™ 5 on both sides of a 92mm steel stud with 0.55mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m3).	- / 120 / 120	54

INSTALLATION

Refer to USG Boral website www.usgboral.com/plasterboard or call TecASSIST on 1800 811 222.

Green Star Rating Tools

Systems Configuration	Assessment Categories			
	Management (Man)	Indoor Environmental Quality (IEQ)		Materials (Mat)
	Waste Management	Internal Noise Levels	Volatile Organic Compounds	Walls and Partitions
Office Interiors v1.1	Man-6	IEQ-10	IEQ-11	Mat-3
Office Design v3	Man-7	IEQ-12	IEQ-13	–
Office As Built v3	Man-7	IEQ-12	IEQ-13	–
Retail Centre v1	Man-7	IEQ-7	IEQ-8	–
Education v1	Man-7	IEQ-7	IEQ-8	–
Healthcare v1	Man-7	IEQ-7	IEQ-8	Mat-14
Multi Unit Residential v1	Man-7	IEQ-7	IEQ-8	Mat-14

GBCA GREEN STAR RATINGS

The Green Building Council of Australia (GBCA) has developed a number of rating tools to determine and certify the sustainability of buildings, fit-outs and communities. Multistop™ 5 may contribute to Green Star rating as outlined in the table above.

SUSTAINABILITY

- Multistop™ 5 is manufactured with a high density core using recycled materials technology and 100% recycled liner paper.
- Multistop™ 5 has been independently certified by Good Environmental Choice Australia (GECA) and complies with requirements of GECA 04-2011 v2 – Panel Boards Standard.
- Independently tested for VOC and formaldehyde.
- The use of Multistop™ 5 may contribute to the achievement of credit points under various Green Star Rating Tools.

MANAGEMENT (MAN)

WASTE MANAGEMENT

Waste collection services are available to divert acceptable plasterboard waste away from land fill for recycling or re-processing for other uses. For information on waste collection services available, please contact your local USG Boral office.

INDOOR ENVIRONMENT QUALITY (IEQ)

INTERNAL NOISE LEVELS

Multistop™ 5, when used in an acoustic system, can assist in controlling noise levels and occupant comfort through the attenuation of noise transmissions. Refer to Acoustic section.

INDOOR ENVIRONMENT QUALITY (IEQ)

VOLATILE ORGANIC COMPOUNDS (VOC) AND FORMALDEHYDE MINIMISATION

USG Boral products, compounds and adhesives have been independently tested to confirm compliance with Green Star specification limits for VOCs and are formaldehyde free. Emission Test Certificate CV120424.

REFERENCES

Refer www.usgboral.com/multistop for Material Safety Data Sheet, Volatile Organic Compound Emission details and Fire Test Report information.

For Multistop™ range, refer to www.usgboral.com/multistop.

SALES ENQUIRIES 1800 003 377

TecASSIST® 1800 811 222

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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

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