

TECHNICAL DATA

Multistop™ 3 HI



Multistop™ 3 HI is a multi performance plasterboard with embedded fibreglass mesh backing to provide high resistance to both soft and hard body impacts. Multistop™3 HI is suitable for projects that demand multiple functioning applications from internal linings, incorporating Fire, High Impact and Sound resistance.

Multistop™ 3 HI plasterboard contains a minimum of 10% overall recycled content.



ADVANTAGES

- High Impact resistance to incidental collision
- Fire resistance
- High acoustic performance

PERFORMANCE DETAILS

IMPACT

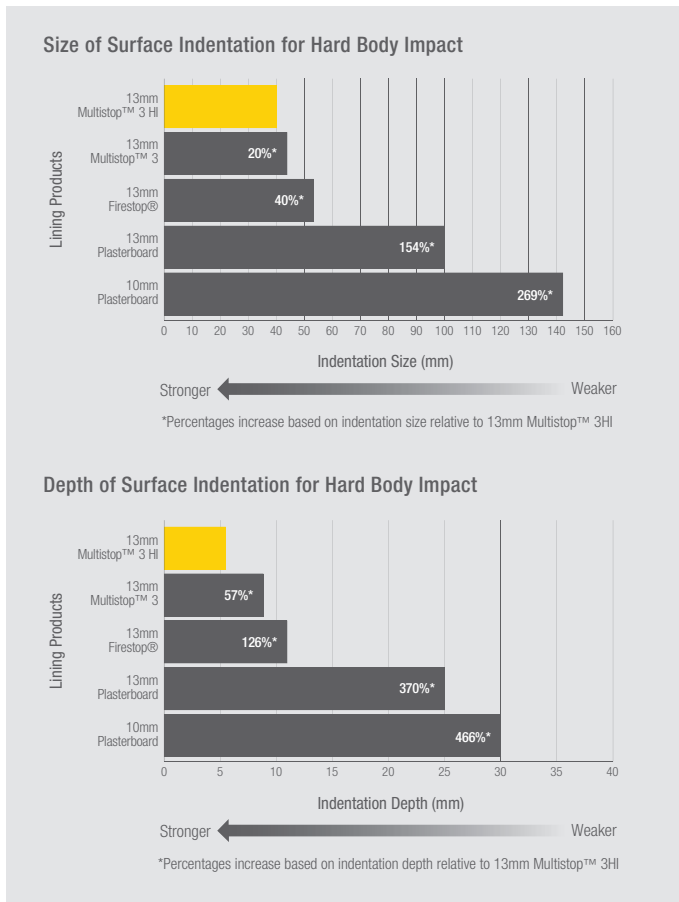
SOFT BODY IMPACT TEST

Multistop™ 3 HI 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 M17-30.

BOARD SPECIFICATION

Feature	Description
Thickness	13mm
Sheet Size (width x length)	1200 x 3600mm [1200x2700mm, 1200x3000mm, 1350x3000mm, 1350x3600mm (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	N/A
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



HARD BODY IMPACT TEST

Multistop™ 3 HI 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.

FIRE

Multistop™ 3 HI is subject to full scale fire testing at Exova Warrington and satisfies AS 1530.4:2005 Fire Resistance Test of Elements of Construction.

- Multistop™ 3 HI achieves fire resistance equal to 13mm Firestop® when used in a fire-rated system. Refer Wall Systems Table.1.
- 13mm Multistop™ 3 HI is a substitute for 13mm 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™ 3 HI, 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.

STRUCTURAL

Multistop™ 3 HI complies to relevant deem-to-satisfy provisions of BCA Specification C1.8 Structural Tests for Lightweight Construction. Resistance to Static Pressure – Test Report No M16-71.

- 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™ 3HI 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™ 3HI on one side and 2 layers of 13mm Multistop™ 3 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™ 3HI 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.

SUSTAINABILITY

USG Boral products are manufactured from a combination of natural gypsum and paper liner made from 100% reclaimed and recycled paper waste. Plasterboard waste can be reclaimed and recycled into new plasterboard.

Lightweight plasterboard construction offers the benefits of low embodied energy, non-toxic materials and ease of thermal and acoustic upgrading.

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.

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 080417a.

REFERENCES

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

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