

# Multistop™ 4

**Multistop™ 4** is an ideal solution for projects demanding multiple requirements from the internal linings incorporating Fire, Impact, Sound and Water resistance. Multistop™ 4 is suitable for a wide range of wall and ceiling applications, ideal for hospitals, schools and environments where a multi-performance board is required.

Multistop™ 4 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

- Impact resistance to incidental collision
- Fire resistance
- Water resistance
- High acoustic performance
- May contribute to the achievement of Green Star points

## PERFORMANCE DETAILS

### IMPACT

#### SOFT BODY IMPACT TEST

Multistop™ 4 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 M17-33.



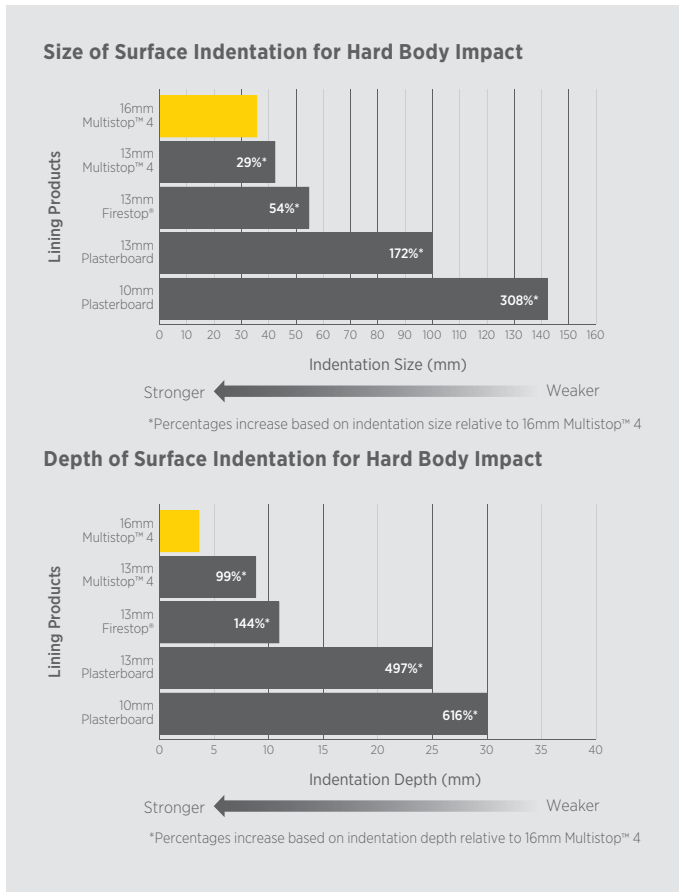
## BOARD SPECIFICATION

| Feature                     | Description   |
|-----------------------------|---|
| Thickness                   | 16mm  |
| Sheet Size (width x length) | 1200 x 3000mm (minimum order and lead times may apply)  |
| Paper Colour                | Light green   |
| Mass                        | 14.60 kg/m <sup>2</sup> 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 <sup>3</sup> 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 |



BOR-2011  
GECA 04-2011 v2  
Panel Boards

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## HARD BODY IMPACT TEST

Multistop™ 4 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™ 4 is subject to full scale fire testing at Exova Warrington and satisfies AS 1530.4:2005 Fire Resistance Test of Elements of Construction.

- 16 Multistop™ 4 achieves fire resistance equal to 16mm Firestop® when used in a fire-rated system. Refer Wall Systems Table 1.
- 16mm Multistop™ 4 is a substitute for 16mm Firestop® or 16mm 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™ 4, 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™ 4 is manufactured to exceed water resistant grade gypsum plasterboard requirements of AS/NZS 2588:1998 Gypsum Plasterboard.
- 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.

## STRUCTURAL

Multistop™ 4 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.

- 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 16mm Multistop™ 4 on both sides of a 92mm steel stud with 0.55 mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m³). | - / 90 / 90   | 47            |
| 2 layers of 16mm Multistop™ 4 on both sides of a 92mm steel stud with 0.55mm BMT at 600 centres and 50mm glasswool insulation (nominal 11 kg/m³). | - / 180 / 180 | 52            |

## INSTALLATION

Refer to USG Boral website [www.usgboral.com/plasterboard](http://www.usgboral.com/plasterboard) or call TecASSIST® on 1800 811 222.

## SUSTAINABILITY

- Multistop™ 4 is manufactured with a high density core using recycled materials technology and 100% recycled liner paper.
- Multistop™ 4 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™ 4 may contribute to the achievement of credit points under various Green Star Rating Tools.

## Green Star Rating Tools<sup>1</sup>

| 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               |

<sup>\*1</sup> Information regarding Green Star Points and Green Star Rating Tools is correct as at the date of publication. We recommend that you review the latest Green Star rating information available at [gbca.org.au/green-star/](http://gbca.org.au/green-star/)

### 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™ 4, 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

All USG Boral Multistop products, 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](http://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](http://www.usgboral.com)

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