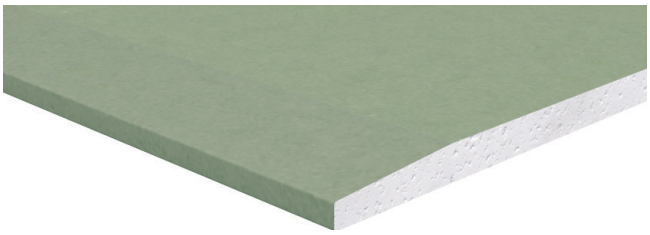
MULTISTOP™ ONE HI

Performance Board



Feature	Specification
Nominal thickness	13 mm
Edge Profile	Recessed edge
Paper Colour	Green
Nominal Mass	13 mm - 12.0 kg/m²
Fire Hazard Properties	Group 1 – as per the NCC Specification S7C4 Fire Hazard Properties – Walls and Ceilings, determined in accordance with AS 5637.1:2015
Combustibility	Non-combustible material as defined in NCC C2D10 Non-combustible building elements
VOC	Less than 0.5 mg/m³ TVOC
Manufacture	Manufactured in Australia to the requirements of AS/NZS 2588:2018 Gypsum Plasterboard and in accordance with AS/NZS ISO 9001:2015 – Quality Management Systems – Requirements
Application	▪ Healthcare facilities: patient rooms, corridors, and wet areas ▪ Education buildings: classrooms, hallways, and amenities ▪ Public buildings: transport hubs, libraries, and civic centres ▪ Hotels and student accommodation: bathrooms, service areas, and shared spaces ▪ Aged care facilities: combining safety, durability, and hygiene control

Description

MultiStop ONE HI is a mesh reinforced plasterboard that is an ideal solution for projects demanding multiple requirements from the internal linings incorporating fire, water, mould and very high impact resistance, and acoustic performance.

It is suitable for a wide range of wall and ceiling applications, ideal for specialist healthcare, data centres, police stations and gymnasiums where a very high-performance board is required.

Advantages

- Very high impact resistance to incidental collision
- Mesh reinforced
- Fire resistance
- Water resistance
- Mould resistance
- High acoustic performance
- Suitable surface for tiling up to 32 kg/m²
- Lightweight construction
- GECA certified
- Environmental Product Declaration (EPD)
- Product Aware registered
- Climate Active Opt-In certified (Carbon Neutral)

Limitations

- Should not be exposed to prolonged temperatures in excess of 52°c
- Not suitable for direct support of heavy loads

Key

- ✓ Fire Resistant
- ✓ Water Resistant
- ✓ Mould Resistant
- Lightweight
- ✓ Acoustic Performance
- Echo Reduction
- Impact Resistant
- High Impact Resistant
- ✓ Very High Impact Resistant
- Ultimate Impact Resistant
- ✓ Mesh Reinforced
- Flexible
- Block Basic Radiation

Performance Details

Fire Resistance

MultiStop ONE HI was fire tested and certified by BRANZ in accordance with AS 1530.4 to meet the requirements of the National Construction Code (NCC) and contributes to Fire Resistance Level when used in fire-rated systems.

Fire tested to achieve group number classification 1, the average specific extinction area less than the 250 m^2/ kg limit as defined by NCC.

Water Resistance

MultiStop ONE HI is manufactured to exceed water resistant grade gypsum plasterboard requirements of AS/NZS 2588:2018 Gypsum Plasterboard.

Meets deemed to comply requirements of the NCC and AS 3740:2021 Waterproofing of domestic wet areas when installed to Knauf plasterboard wet area installation details.

Mould Resistance

MultiStop ONE HI contains the added advantage of mould resistance and showed zero signs of mould growth when tested in accordance with ASTM D3273 and ASTM G21.

Acoustic Performance

MultiStop ONE HI can provide required levels of sound insulation to achieve specified acoustic ratings when used in an acoustic system. Refer to Systems+ manual for information.

Impact Resistance

MultiStop ONE HI is subject to extensive hard body impact testing.

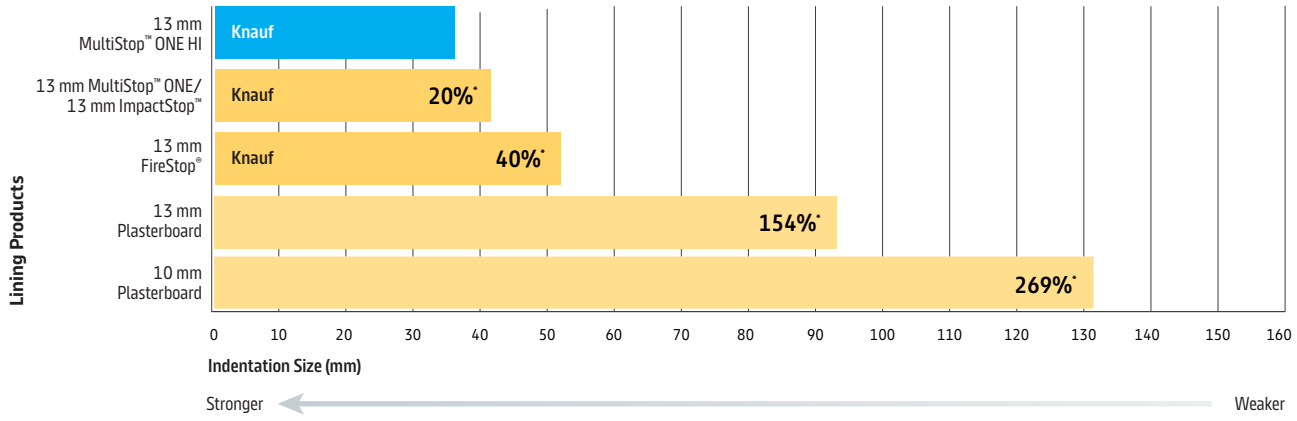
- Testing was conducted by a pendulum swing of a 100 mm diameter 4.0 kg steel ball on a 3.0 m axis against the wall specimen
- An example of hard body impact is a bump by a hospital trolley or an intentional kick to wall surface
- Testing conducted by Knauf NATA accredited Laboratory. Resistance to Impact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

Structural

MultiStop ONE HI is listed in Product Aware and wall systems comply to the relevant Deemed-to-Satisfy provisions of NCC Specification 6 Structural Tests for Lightweight Construction.

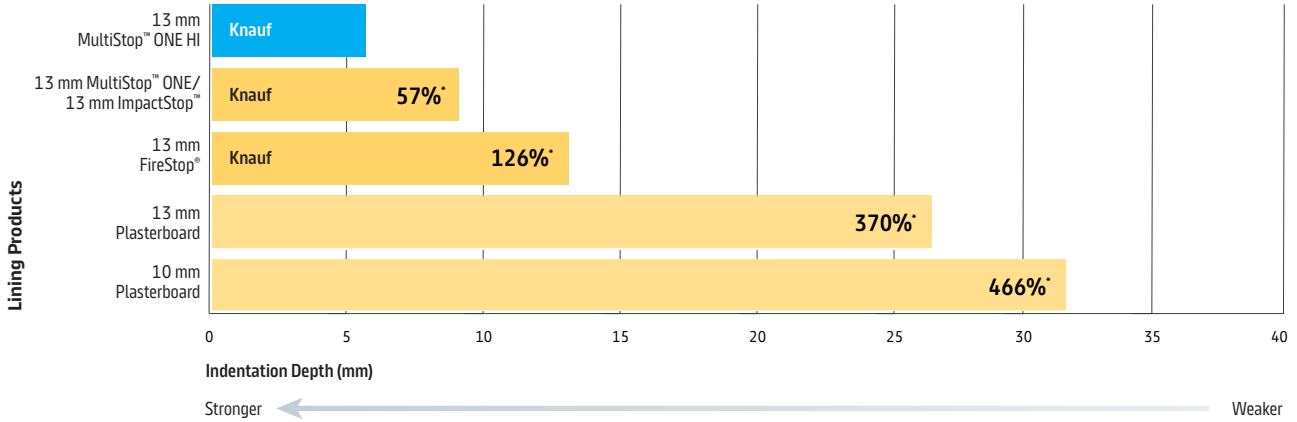
- Exceeds compliance criteria for NCC resistance to impact test to ASTM E695-03
- Exceeds compliance criteria for NCC resistance to static pressure test to ASTM E72-15

SIze of Surface Indentation for Hard Body Impact



*Percentages increase based on indentation size relative to 13 mm MultiStop ONE HI

Depth of Surface Indentation for Hard Body Impact



*Percentages increase based on indentation depth relative to 13 mm MultiStop ONE HI

Installation, Jointing and Finishing

Knauf has a comprehensive range of jointing and adhesives compounds in premixed or powder form to meet market needs and varying climatic conditions. Apply appropriate painting system or other finishes as recommended for the required level of finish and application. This product data sheet does not provide plasterboard installation, jointing and finishing details. Refer to Knauf Plasterboard Installation Manual or knauf.com for further information.

Indoor, Environment, Quality

Knauf plasterboard products, compounds and adhesives have been independently tested to confirm compliance with Green Star specification limits for VOCs and formaldehyde.

References

For detailed information on Volatile Organic Compound (VOC) emissions and fire test reports, please visit knauf.com

Safety and First Aid

For detailed safety information, including handling, storage, and first aid guidance, please visit the relevant product page on knauf.com to access the safety datasheet and additional resources.

Sustainability

Knauf plasterboards 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 or reused as soil conditioner.

Knauf MultiStop ONE HI is listed in Product Aware and has GECA, Climate Opt-In certification and independently verified EPD that may contribute to Green Star credit points. For more information refer to Green Building Council of Australia.

Technical Resources

Plasterboard Installation Manual

CAD Library

eSelector

Technical Assistance:
TecASSIST™ 1800 811 222

Sales Enquiries:
1800 003 377

www.knauf.com

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