

TECH DATA

Benefits

- Perfect all-round boards
- Simplify ordering, delivery and installation
- Easy to repair and maintain
- Meet the requirements for fire and water resistant applications
- Reduce the transfer of sound between rooms
- Impact resistant
- Mould resistance with TruRock HD



TruRock and **TruRock HD** are all round, multi-functional boards. These high performance plasterboards simplify ordering, delivery and installation as well as resist the effects of wear and tear. They are easy to repair and maintain, which is reducing ongoing costs over the life time of the building.

TruRock

TruRock incorporates impact, water and fire resistance, and sound insulation properties for multi-performance applications. It has a high density core with glass fibre reinforcement wrapped in heavy duty paper.

TruRock HD

TruRock HD has the added benefits of mould resistance and enhanced impact performance. In addition to its heavy duty paper,

TruRock HD has a continuous fibreglass mesh embedded in the high density core limiting damage even under large impact forces. TruRock HD provides premium impact protection and mould resistance.

Application

TruRock and TruRock HD are a perfect fit for hospitals, schools and other demanding public or community spaces.

TruRock and TruRock HD can be used in a wide range of commercial walls, ceilings and specialty systems where impact, fire, water and mould resistance as well as sound insulation are required. Hospital wards, high traffic shopping centre or office areas and bathrooms in commercial buildings are prime application areas.



Quality
ISO 9001

SAI GLOBAL

TruRock and TruRock HD are manufactured in Australia in accordance with quality systems certified as complying with AS/NZS ISO 9001:2008 and meet the requirements of AS/NZS 2588, *Gypsum Plasterboard*.

TruRock and TruRock HD can be used within systems that require certified plasterboard to achieve 100% points in the relevant categories for Green Star projects.



TECH DATA

Performance

-  **Impact**
Excellent impact resistance, a high density core, with heavy duty face and back paper, as well as reinforcing fibreglass mesh in TruRock HD.
-  **Water**
Meets the requirements of AS/NZS 2588 for water resistant plasterboard.
-  **Fire**
Achieves up to 240 minutes Fire Rating.
-  **Sound**
High density core for excellent acoustic performance.
-  **Mould**
The mould resistance technology used in TruRock HD dramatically reduces mould growth for performance in constant high humidity environments.

Mould resistance

TruRock HD includes a mould inhibitor that protects the surface and the core against mould growth. The mould resistance technology used in TruRock HD dramatically reduces mould growth, as shown by testing based on ASTM G21, *Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi*, and ASTM D3273 *Resistance to Growth of Mould on the Surface of Interior Coatings in Environmental Chamber*.

Water

The TruRock range is manufactured to high internal standards that meet or exceed the requirements for water resistant gypsum board within AS/NZS 2588, *Gypsum Plasterboard*.

The installation of TruRock and TruRock HD in accordance with Knauf wet area installation instructions complies with the requirements from AS 3740, *Waterproofing of domestic wet areas*, and the BCA for wet areas.

Fire

The TruRock range can substitute FireShield in any system to achieve 30 minutes to 240 minutes Fire Rating in accordance with AS/NZS 1530.4, *Fire Resistance Test to Building Material*.

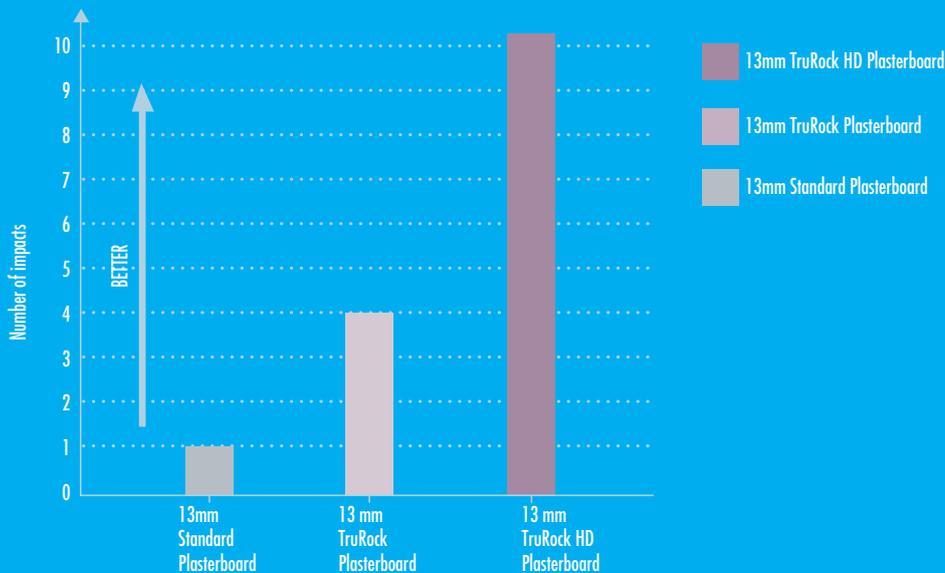
Sound

TruRock and TruRock HD have excellent sound insulation performance and can substitute 13mm SoundShield in any system and maintain the acoustic performance.

TECH DATA

Impact Test Results*

Figure 1. LARGE HARD BODY IMPACT TEST



Exposed to impact with the equivalent energy of a cricket ball travelling at 60km/h

- standard plasterboard is penetrated at the first impact while
- TruRock resists until the 4th impact and
- TruRock HD withstands until the 10th impact.

(Figure 1.)

Impact

TruRock and TruRock HD have been tested for soft body impact in accordance with BCA C1.8, meeting the impact requirements for fire rated walls and fire isolated exits.

Small hard body impact resistance was tested with a 50mm steel ball weighing 510 grams, dropped onto 400mm square plasterboard samples. The samples were placed on a 300mm square aluminium support sitting on concrete.

- Standard 13mm plasterboard is completely penetrated at a drop height of 2.4m while TruRock only sustained a dent 2mm deep.
- At a 1.6m drop height, 13mm standard plasterboard suffered an impact more than 4mm deep, while TruRock showed only a minor dent 1mm deep.

Large hard body impact resistance was tested with a 5 kg spherical steel weight, swung from a height of 300mm. This impact simulates a reasonable kick with a steel capped boot and makes a hole in standard 13mm plasterboard. It has about the same energy as a cricket ball travelling at 60 km/hr.

The number of impacts it took to penetrate the lining was recorded. Penetration was defined by the ability of a 10mm diameter probe to pass through the lining when applied with 2.5 kg of force.

- 13mm standard plasterboard was penetrated after 1 impact, 13mm TruRock withstood a further 3 hits before being penetrated on the 4th impact. 13mm TruRock HD was penetrated on the 10th impact.

TECH DATA



Installation

The TruRock range is installed using the 'Fastener Only Method' for all systems requiring a Fire Rating. To maintain fire and acoustic integrity:

- ▶ Use BindEx Fire and Acoustic Sealant on all gaps and around perimeter.
- ▶ Use MastaMate Paper Tape with either two coats of MastaBase / MastaLongset or three coats of MastaLite / MastaTape Universal. Refer to the latest Knauf Technical Manual on the website for complete installation instructions.

Systems

TruRock has the fire performance of FireShield and the acoustic performance of SoundShield. This enables the use of TruRock in most of the fire and acoustic systems within the Knauf Technical Manual.

Sustainable

Knauf offers supporting documentation for sustainable building projects including product stewardship, VOC certificates, OnBoard – Design for Disassembly as well as information regarding Sustainability Policy and environmental management.

Green Star compliance documents are available at www.knaufplasterboard.com.au/sustainability-documents

TECH DATA



DISCLAIMER

Products manufactured and systems designed by Knauf are produced in accordance with the Building Code of Australia and the New Zealand Building Code, and also relevant Australian and New Zealand Standards. Information in this document is to be used as a guide only as many aspects of construction are not comprehensively covered. It is the responsibility of the project to determine if Knauf's products and systems are suitable for the intended application. Knauf Plasterboard will not be held responsible for any claims resulting from the installation of its products or other associated products not in accordance with the recommendations of the manufacturer's technical literature or relevant Australian or New Zealand Standard.

Knauf technical information is regularly updated. To ensure this document is current, visit the web site.

Product Information

SHEET PROPERTIES	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	WEIGHT* (kg/m ²)
TruRock HD	13	1200	3000, 3600	12.3
TruRock	13	1200	3000, 3600	12.3
	13	1350	4200	12.3
	16	1200	3000	14.8
FIRE HAZARD PROPERTIES	Group 1 material according to the requirements of BCA Section C1.10 Fire Hazard Properties Average Specific Extinction Area < 250 m ² /kg as required by BCA Specification C1.10a, Clause 3(c) Group 1S according to NZBC Performance Clause 3.4(a)			
COMBUSTIBILITY	Classified as non-combustible according to the BCA Section C1.12			
VOLATILE ORGANIC COMPOUNDS	Less than 0.5 mg/m ³ TVOC			
HAZARDS IDENTIFICATION	Not classified as hazardous according to the criteria of NOHSC Australia			

*Weights are nominal.

Warranty

Knauf's products are guaranteed by a 10 Year Warranty.

For details visit

knaufplasterboard.com.au
knaufplasterboard.co.nz

Technical Advice

AU **1300 724 505**

NZ **0800 884 326**