

TruRock & TruRock HD

Performance Plasterboard



PRODUCT DATA SHEET

Benefits

- › Multi-purpose board for sound, impact, fire and water resistant applications
- › Simplify ordering, delivery and installation
- › Easy to repair and maintain
- › 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 minimises ongoing costs over the life time of the building.

TruRock incorporates impact, water and fire resistance, and sound insulation properties for multi-performance

applications. It has a high density core wrapped in heavy duty paper.

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.

Product Information

SHEET SIZE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)			WEIGHT* (kg/m ²)
			3000	3600	4200	
13	13	1200	•	•		12.3
		1350			•	
16	16	1200	•			14.8
FIRE HAZARD PROPERTIES	Group 1 with an Average Specific Extinction Area < 250 m ² /kg determined in accordance with AS 5637.1 as required by NCC C1.10, Clause 4.					
COMBUSTIBILITY	Classified as non-combustible according to NCC C1.9 (e)					
VOLATILE ORGANIC COMPOUNDS	Less than 0.5 mg/m ³ TVOC					
HAZARDS IDENTIFICATION	Non-hazardous according to WHS Regulations and the ADG Code					

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 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.

TruRock is an ideal substrate for tiles.

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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.



Fire

FRLs up to 240 minutes when used in Knauf systems.



Water

Meets the requirements of AS/NZS 2588 for water resistant plasterboard.



Sound

High density core for excellent acoustic performance.



Mould

The mould resistance technology used in TruRock HD dramatically reduces mould growth under severe conditions.

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*.

Fire

The TruRock range can substitute FireShield in any system to achieve 30 minutes to 240 minutes Fire Resistance Levels in accordance with AS1530.4, *Fire resistance tests for elements of construction*.

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.

Sound

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

TruRock and TruRock HD have been developed to meet the specific needs of the Australian market.



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*.

Warranty

Knauf's products are guaranteed by a 10 Year Warranty. For details visit knauf.solutions

Technical Advice

AU 1300 724 505

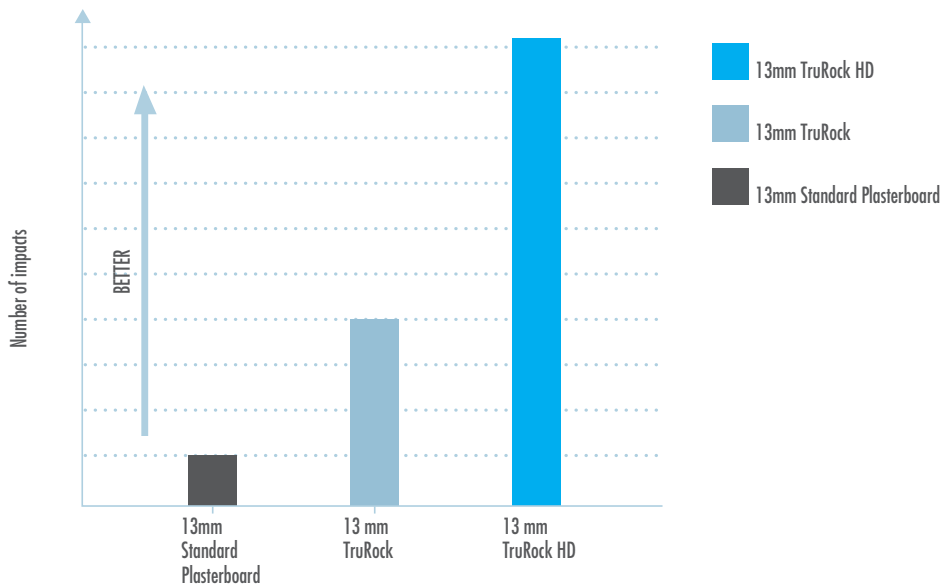
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Impact Test Results*

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.

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 [knauf.solutions/certificates](https://www.knauf.com.au/solutions/certificates)

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



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Installation

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

- ▶ Use Knauf 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.
- ▶ Masonry adhesive and stud adhesive are not permitted in fire rated or tiled areas. In areas that are not tiled or fire rated TruRock may be installed using the 'Fastener and Adhesive Method'.

Refer to the latest Knauf Blueprint 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 Blueprint.

DISCLAIMER

Products manufactured and systems designed by Knauf are produced in accordance with the Building Code of Australia and relevant Australian Standards. Information in this document is to be used as a guide only and is subject to project approval as many aspects of construction are not comprehensively covered. It is also the responsibility of the project to determine if Knauf's products and systems are suitable for the intended application. Knauf Plasterboard Pty Ltd 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 Standards.

Knauf technical information is regularly updated. To ensure this document is current with the latest information, visit knauf.solutions