



trurock and trurock hd

performance plasterboard



trurock and **trurock hd** are allround, 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 has resistance to impact, fire, sound and water. 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.

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 and ceilings where impact, fire water and sound resistance area required.

key benefits

- multi-purpose board for sound, impact, fire and water resistant applications
- simplify ordering, delivery and installation
- mould resistance with trurock hd



product information

	thickness(mm)	width (mm)	length (mm)			weight* (kg/m ²)
			3000	3600	4200	
sheet size	13	1200	•	•		12.3
		1350			•	
	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	May be used wherever a non-combustible material is required 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					

* Weights indicated are nominal

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 Siniat 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 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 to 240 minute Fire Resistance Levels in accordance with the BCA and 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*.

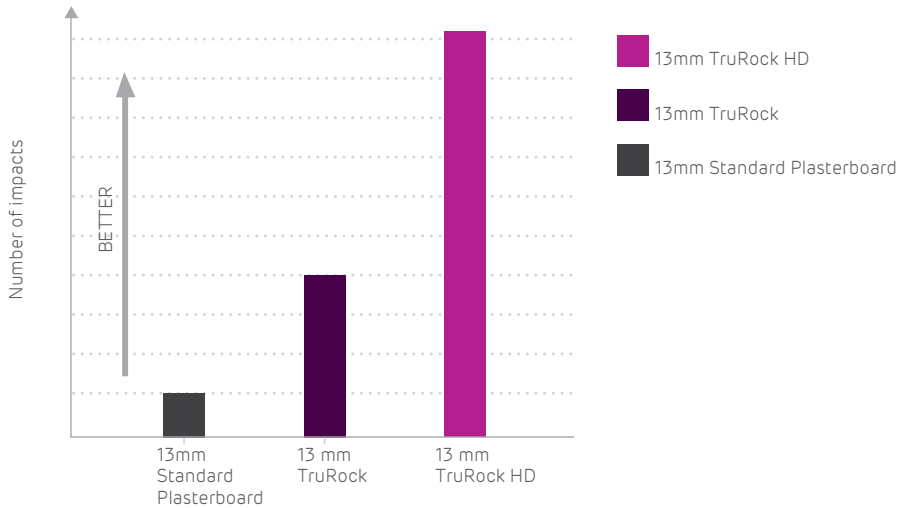
The installation of **trurock** and **trurock hd** in accordance with Siniat wet area installation instructions complies with the requirements from AS 3740, *Waterproofing of domestic wet areas*, and the BCA for wet areas.

Sound

trurock and **trurock hd** have excellent sound insulation performance and can substitute **soundshield** in any system and maintain the acoustic performance.

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.

installation

The **trurock** range is installed using the 'Fastener Only Method' for all systems requiring a Fire Rating, and tiled areas.

Refer to the latest Siniat 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 Siniat Blueprint.



Quality
ISO 9001



All Siniat products have been developed to meet the specific needs of the Australian market. Products manufactured in Australia comply with quality systems certified as complying with AS/NZS ISO 9001:2008 and meet the requirements of AS/NZS 2588, Gypsum Plasterboard.



The following Siniat products have been independently certified by Global GreenTag to GreenRate Level A: **mastashield**, **fireshield**, **fireshield h**, **soundshield**, **watershield**, **spanshield**, **multishield**, **curveshield**, **opal**, **trurock** and **trurock HD**. Compliance certificates are available on siniat.com.au.



All Siniat plasterboard and metal products are available on the Siniat Carbon Neutral Opt-In program to help you meet your sustainability goals. Visit siniat.com.au to find out more.

Disclaimer

Products manufactured and systems designed by Etex Australia Pty Ltd and branded Siniat, 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 Siniat's products and systems are suitable for the intended application. Etex Australia 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. Siniat technical information is regularly updated. To ensure this document is current with the latest information, visit siniat.solutions

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Etex Australia Pty Ltd

ABN 61 003 621 010
31 Military Road, Matraville
NSW 2036

siniat.com.au



warranty

Siniat's products are guaranteed by a 10 Year Warranty. For details visit siniat.com.au

technical advice
AU 1300 724 505