

Class 1
Trade Essentials® 4.5mm Tempered Hardboard
Version: Trade Essentials® 4.5mm Tempered Hardboard | V1 14.09.23

Product name	Trade Essentials® 4.5mm Tempered Hardboard
Product line	N/A
Product identifier	Trade Essentials® 4.5mm Tempered Hardboard

Place of manufacture

Aotearoa New Zealand	
Overseas	✓

Product description

Trade Essentials® 4.5mm Tempered Hardboard is a wood fibre panel which is also called high-density fiberboard (HDF). The fine, densely bonded, wood fibre structure of tempered hardboard ensures excellent machining and working properties when using normal woodworking equipment or hand tools.

Trade Essentials® 4.5mm Tempered Hardboard is formed under heat and pressure using the lignin within the wood fibre and linseed oil, there is no additional resin and no added formaldehyde. A Paraffin wax is added to improve moisture resistance.

Trade Essentials® 4.5mm Tempered Hardboard has two smooth face surfaces, which provide an ideal base for paint finishing with most industrial and domestic coatings. (Trade Essentials® 4.5mm Tempered Hardboard is the substrate used for producing Seratone® Classic, Seratone® Specialty and Seratone® Space.

Trade Essentials® 4.5mm Tempered Hardboard is used in furniture and in the construction industry for general use in dry conditions.

Key technical specifications:

4.5mm hardboard sheet sizes	Density	Weight
• 2400 x 1200 x 4.5mm	1041 kg/m ³	14.4 kg
• 2400 x 900 x 4.5mm	1041 kg/m ³	10.7 kg
• 2700 x 1200 x 4.5mm	1041 kg/m ³	16.0 kg

Note: All dimensions and measurements are nominal.

Relevant building code clauses

- B1 Structure - B1.3.1, B1.3.2, B1.3.3 (f), (h), (j), B1.3.4
- B2 Durability - Performance B2.3.1 (c) 5 years
- C3 Fire affecting areas beyond the fire source - C3.4 (a)
- F2 Hazardous building materials - F2.3.1

Contributions to compliance

Trade Essentials® 4.5mm Tempered Hardboard is manufactured following the guidelines established within American National Standards Institute 135.4-2012 Basic Hardboard Standards. Tempered hardboard is made using wet formed processing of mixed North American hardwoods, agricultural oil (linseed or flax seed) and bonded under the application of heat and pressure.

When stored, handled, installed, and maintained in accordance with the Hardboard Brochure, 4.5mm Tempered Hardboard will meet the provisions of the New Zealand Building Code (NZBC) B2/AS1 - 1.2.1 and has a serviceable life of at least (c) 5 years.

No Added Urea Formaldehyde manufacturing process means DPI (Decorative Panels International) products are exempt from/automatically comply with CARB (California Air Resources Board), regulations for indoor air quality.

Scope of use

Trade Essentials® 4.5mm Tempered Hardboard is used as the substrate for Seratone® Classic, Seratone® Specialty and Seratone® Space.

Trade Essentials® 4.5mm Tempered Hardboard can be used as an internal wall and ceiling lining.

Other uses include:

- Furniture
- Displays / Peg board
- Door skins
- Signs & sign components
- Packaging
- Automotive industry (e.g. door cards etc)

Trade Essentials® 4.5mm Tempered Hardboard 4.5mm has a Material Group Number of 3.

Trade Essentials® 4.5mm Tempered Hardboard is not fire rated as part of a fire protected boundary or fire wall.

Conditions of use

Trade Essentials® 4.5mm Tempered Hardboard MUST NOT be used for:

- Exterior applications
- Areas subjected to repeated water spill or constant dampness
- Marine use
- Shower linings, saunas, indoor pools
- Window reveals

Trade Essentials® 4.5mm Tempered Hardboard panels are not waterproof and therefore **must not** be allowed to come in direct or prolonged contact with water. The panels must be finished with a protective coating prior to occupation of the building.

Adequate pre-conditioning prior to installation and precise following of installation instructions are essential for satisfactory results, especially during wet seasons and high humidity.

Due to the uptake of airborne moisture, permanent board distortion may occur if 4.5mm Tempered Hardboard is placed in close proximity to framework with moisture content exceeding 18%.

Supporting documentation

The following additional documentation supports the above statements:

Title (type)	Version	URL
Hardboard Brochure	J010529 02/23	Click here
Tempered Hardboard Fire Test	24 April 2013	Click here
4.5mm Tempered Hardboard Safety Data Sheet	19/11/2020	Click here

Contact details

Manufacture location	New Zealand
Legal and trading name of manufacturer	Decorative Panels International (DPI), Inc.
Address for service	2900 Hill Avenue Toledo Ohio 43607 USA
Manufacturer website	www.decpanels.com
Manufacturer email	webmaster@decpanels.com
Manufacturer phone number	419-535-5921
Manufacturer NZBN	N/A

Importer / distributor location	New Zealand
Legal and trading name of distributor	Fletcher Building Products Limited (company number 952008), trading as Laminex® NZ.
Distributor address for service	810 Great South Road Auckland 1061 New Zealand
Distributor website	laminex.co.nz
Distributor email	CSC@laminex.co.nz
Distributor phone number	0800 303 606
Distributor NZBN	9429037626969

Warnings and bans

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?

No