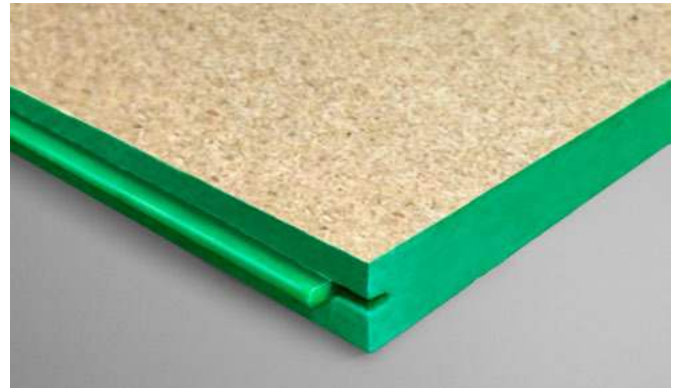




Particleboard Flooring

Summary

EnduraFloor by Laminex Particleboard Flooring is made from a moisture resistant particleboard and features an easy to use tongue and groove system that gives the flooring remarkable strength in between the joists. EnduraFloor by Laminex Particleboard Flooring is manufactured using wood particles which are encapsulated in resins ensuring the moisture resistance is distributed through-out the floor panel. In addition, all edges are coated with a wax edge seal. There is also the option of Termite Treated Particleboard Flooring, should the specific situation demand this protection.



Applications

- Interior Flooring

EnduraFloor by Laminex Particleboard Flooring is an engineered wood based product, bonded with moisture resistant resin and wax, specifically formulated for use as interior flooring. It is suitable for all domestic housing as well as commercial installations, provided it is installed to the requirements of AS 1860.2 (Installation of Particleboard Flooring). It can be used on both timber, laminated timber and steel framed building constructions including fitted floor, upper storey and platform construction.

Properties: (Typical physical properties when tested to AS/NZS 1860.1)

Attribute	Measurement	Thickness	
		19mm	22mm
Specification	Unit		
Density	Kg/m ³	690	670
Internal Bond	MPa	0.80	0.70
Modulus of Rupture	MPa	25.0	25.0
Modulus of Elasticity	MPa	3400	3400
Thickness Swell (24hr)	%	<5	<4
Thickness Stability	%	<10	<9
Surface Water Absorption	g/m ²	<60	<60
Glue Bond Quality	MPa	15.5	14.0
Wet Bending Strength (Method A)	MPa	5.0	5.0

Weight

Thickness	19mm	22mm
Kg per m ²	13.1	14.7

Fire Test Results

Classification	Result
Critical Heat Flux	5.6kw/m ²
Smoke Value	9% min





Moisture Resistance – General Information

EnduraFloor by Laminex Particleboard Flooring is capable of withstanding general weathering for up to 3 months. To maintain best practice, boards must be stored correctly on site prior to installation. Site maintenance is required where extreme weather conditions affect the site once installed.

It is recommended to avoid where possible, exposure of the panels to severe conditions, such as prolonged exposure to intense sun, cyclic soaking rain etc, as these exposures have the potential to alter the moisture gradient of the panels and may cause dimensional change, similar to natural timber.

For further information refer: AS/NZS 1860.2: Particleboard Flooring Part 2 Installation.

Storage and Exposure of Particleboard Flooring

EnduraFloor by Laminex Particleboard Flooring should always be stored flat and in a dry area, with timber bearers spaced about 450mm apart to keep it off the floor or ground. Packs of board are best protected from the weather.

Packs should be protected on the top and sides with waterproof material (such as plastic sheeting). When stored, it is important that air circulation can always occur.

To maintain best practice, packs of Particleboard Flooring should be protected from the weather before installation. Particleboard Flooring should be stored for about 1 week (where possible longer) prior to fixing to allow adjustment to site conditions. Water absorption will cause expansion of the sheets and this will lead to gaps in the floor later when the particleboard sheet dries out. It is recommended to avoid where possible, exposure of the panels to severe conditions, such as prolonged exposure to intense sun, cyclic soaking rain etc, as these exposures have the potential to alter the moisture gradient of the panels and may cause dimensional change, similar to natural timber.

Like nearly all timber products, Particleboard Flooring may react to changes in humidity and to direct wetting, but if laid in accordance with the required standards and the recommendations outlined in this brochure, EnduraFloor by Laminex Particleboard Flooring will withstand the conditions of platform construction.

Water should not be allowed to lie on the flooring surface. Sweep it off or drill drain holes in positions that will be covered when the job is completed. It is recommended that protection by roof and walls be provided as soon as possible.

Safety and Handling

Particleboard is a reconstituted wood product containing wood, resin and wax. Machine tools should be fitted with dust extractors and the wearing of a dust mask is recommended. Material Safety Data Sheets for Particleboard Flooring are available at Laminex.com.au, or by contacting Laminex Customer Service on 132 136.

Installation Instructions

1. Assess the site

Ensure correct sub-floor clearance and ventilation as per Australian Standard 1860 "Installation of Particleboard Flooring", or local building regulations. Particleboard Flooring is not suitable under conditions of permanent dampness, i.e. where particleboard moisture content is permanently in excess of 16 per cent moisture content.

2. Positioning and fixing

Locate a string line parallel to the perimeter of the floor and at right angles to the joists. Fit the first new row of sheets with the tongued edge to the string line. This will ensure edge straightness. Tongue and grooved edges must run parallel to the span and sheeting must span no less than two floor joist spacings. Fix second sheet in a similar manner inserting plastic tongue into the groove of sheet one. Be sure to apply bead of adhesive to tongue prior to installation.

DO NOT clamp or over-tighten. After each row is laid, fully nail or screw the previous row (refer to the fixing pattern).

Install all sheets with the same face upwards, to ensure flush mating of adjoining faces. Butt joints should be staggered in alternative rows to give a rigid floor.

Handy hints:

Laminex recommends the use of a high-performance construction adhesive with a flexible glue line.

If the tongue and grooved profile is changed to a square edge during trimming or cutting of sheet, re-profile the edge with a circular saw and insert a tongue, or alternatively use as square edged Particleboard Flooring.

Where Particleboard Flooring is used in square edge form, the sheets should be laid with their long edges supported by noggings or trimmers. Sheet butt joints must be staggered.

Warranty Document

To view the latest Warranty Document for this product, please visit www.laminex.com.au.

Care & Maintenance Document

To view the latest Care & Maintenance Document for this product, please visit www.laminex.com.au.

Safety Data Sheet

To view the latest Safety Data Sheet for this product, please visit www.laminex.com.au.

