

DUAL BOND



**Australian
HARDBOARDS**

THE NATURAL CHOICE

BENEFITS

- Less likely to retain indentations caused by point loads from chairs, tables, stools, heavy furniture and high heel shoes
- Sheets are pre-conditioned to improve stability
- Bridges irregularities in the sub-floor thereby reducing the adverse effects of movement on the floor covering
- Tough, flexible and resistant to cracking and fracturing
- Easier to install and faster to lay
- No glues, fasteners or specialised tools required
- Enviro-friendly - made from sawmill waste and forest thinnings
- High density hardboard
- Contains 'no added toxins or chemicals' ensuring its place as an enviro-friendly flooring solution
- Dual Bond Hardboard underlay complies to AS:1884-1985 Floor Coverings - Resilient Sheet and Tiles - Laying and Maintenance Practices
- Suitable for domestic and commercial markets
- Provides a smooth, flat base for cork, vinyl and resilient floor coverings
- Proudly made in Australia
- No emissions—EO
- 1220mm x 610mm - easier to handle
- Can be removed if required to allow for seasonal trends

TYPICAL APPLICATIONS

- Commercial applications (over concrete in shopfitting)
- Domestic applications (over ceramic tiles or slate tiles)
- Bridging of irregularities in timber or concrete
- Short term (event and exhibition)
- Access flooring to allow for wiring
- Heritage and restoration projects
- Renovating resilient flooring

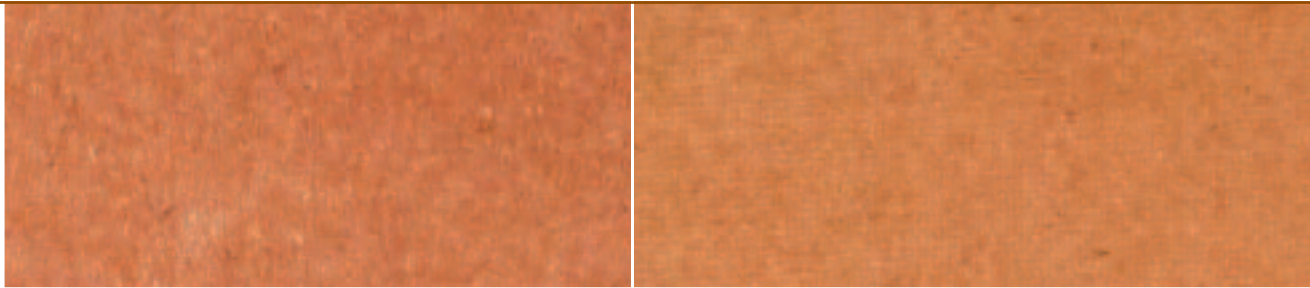
PRODUCT DETAILS

DIMENSIONS	TOLERANCES	SQUARENESS	MASS PER UNIT (WEIGHT)	PACKAGING	BUNDLE DETAILS
1220mm x 610mm	Length ±1.0mm Width ±1.0mm Thickness ±0.15mm	Variation in diagonals not more than 1.0mm	Aprox. 2.6kg/m ² or 1.95kg/sheet	Bundles of 10 sheets packaged in cardboard 40 Bundles to a pallet	Sheet Coverage - 7.44m ² (10 sheets) Floor Coverage - 3.72m ² (10 sheets) Mass 20kg

Special Note: Dual Bond is a TWO LAYER SYSTEM. Calculation: 7.44m² of product = 3.72m² of floor area covered.

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	PROPERTY	TYPICAL VALUE
Density (typically)	1050 kg/m ³	Impact Strength	4500 J/m ²
Mass/Unit Area	2.6 kg/m ³	Internal Bond Strength	1200 kPa
Modulus of Rupture	40 MPa	Thermal Conductivity	0.18 W/(m.K)
Modulus of Elasticity	4000 MPa	Hygro-expansivity	0.25% Change in face dimensions over 50% to 90% relative humidity.



COMPANY OVERVIEW

Australian Hardboards Limited is the sole Australian manufacturer of 100% all natural thin hardboards.

Well established, our greatest strength is our ability to manufacture and supply high quality, environmentally friendly and market driven products both competitively and efficiently.

Servicing the domestic, manufacturing, flooring, signage, commercial, retail, hardware and home building industries, our innovative products and services offer numerous benefits to the specifier, installer and consumer.



FASTER AND EASIER TO INSTALL THAN OTHER SYSTEMS, DUAL BOND HARDBOARD UNDERLAY IS THE UNDERLAY OF THE FUTURE.

INNOVATIVE DESIGN

Dual Bond is an innovative 'floating underlay' system specially designed for the domestic and commercial flooring industries.

Designed to level and protect existing sub-floors in differing environments, Dual Bond does not utilise any fasteners or additional adhesives.

The Dual Bond underlay system is ideally suited to applications where protection of an existing floor is needed when new 'seasonal trends' floor designs are laid.

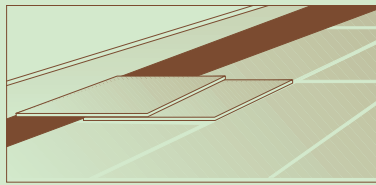
Consisting of two layers of 2.5mm thick environmentally friendly hardboard, Dual Bond has a 'pressure sensitive adhesive' applied to the sanded face. When these sheets are laid back to back, a bond is formed. Initially, the sheets can be adjusted, however, over time the bond will strengthen. The sheets are laid staggered (brick style pattern) to form a strong, flat 'floating floor'.

Faster and easier to install than other systems, Dual Bond is the underlay of the future.

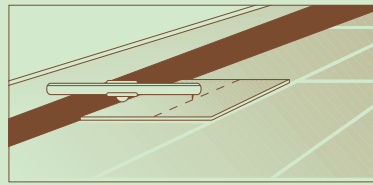


MARKING OUT

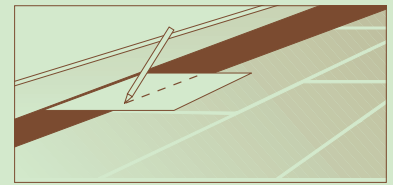
There are three ways to mark Dual Bond however, before cutting making sure that the underlay joints do not fall on joints in the subfloor.



Tile-on-tile method



Scribe bar method



Pattern Scribe method

CUTTING

Dual Bond packaging is designed to serve as a cutting pattern template. Cut Dual Bond with the adhesive side down and use a:

- Hand saw (fine tooth) or panel saw
- Utility knife (heavy duty blade - not break away type)
- Tungsten blade (scored and snapped)



AUSTRALIAN STANDARDS

AS 1884-1985: Floor Coverings—Resilient Sheet and Tiles—Laying Maintenance and Practices.

AS/NZS 2455.1:1995: Textile Floor Coverings—Installation Practice.

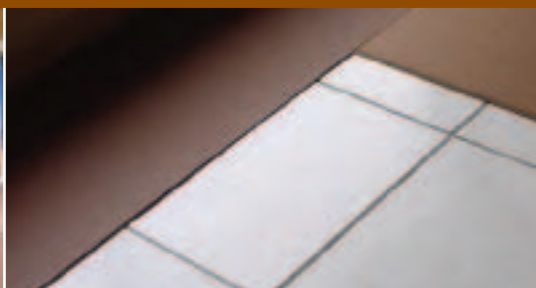
IMPORTANT INFORMATION

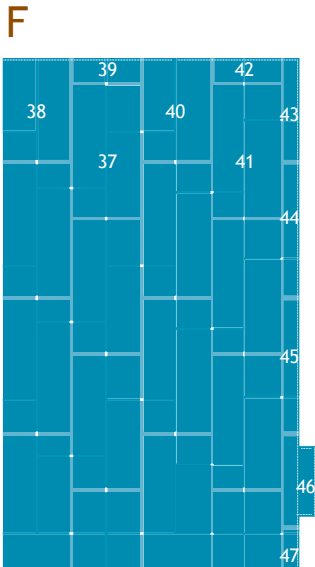
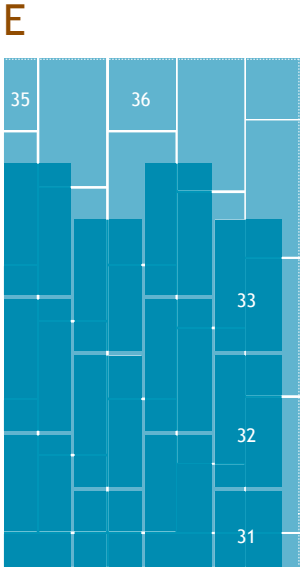
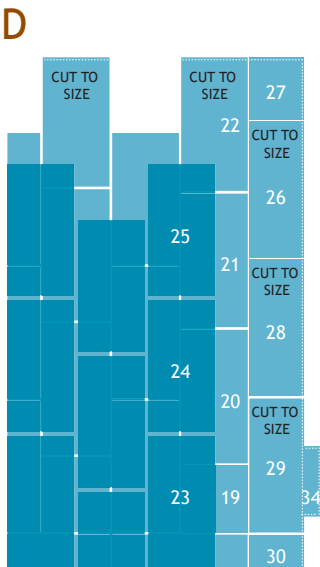
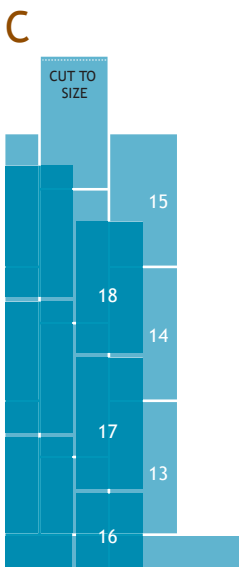
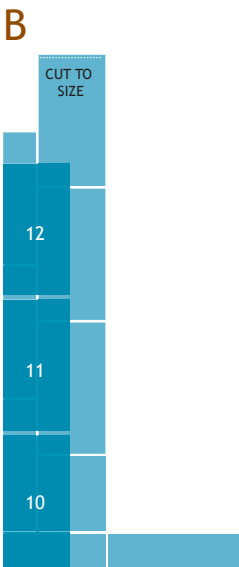
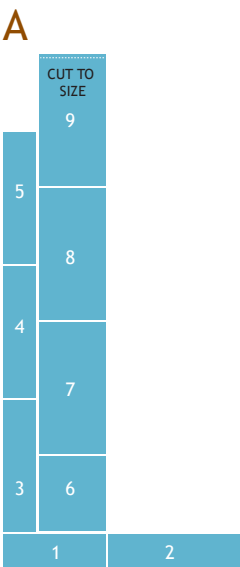
How does Dual Bond work?

Dual Bond has a transparent pressure sensitive adhesive applied to the sanded side of the sheet. When the adhesives of the two sheets are placed together, they will form a bond. Initially, these sheets can be separated for preliminary adjustments; however, once pressure has been applied to the floor system the strength of this bond will increase.

Where the moisture content exceeds the Australian Standards or inadequate sub-floor ventilation is evident, a moisture barrier (foam foil with a polyethylene film) will be required. Ensure that a suitable tape is used to cover the seams. Offcuts may be utilised in the bottom layer.

TO PREVENT CONTAMINATION OF THE ADHESIVE LAYERS, NEVER WALK, CUT OR FINISH THE HARDBOARD WITHIN THE AREA TO BE LAYED





A	<ul style="list-style-type: none"> Start laying Dual Bond against the wall opposite the door. Dual Bond is a timber product and may experience moisture movement of up to 1.0mm per metre; therefore an expansion gap at the perimeter of the room is required. Butt the ends and edges of the sheets together with no gaps however allow a minimum of 5.0mm as a gap between the sheets and the wall. Cut sufficient narrow sheets (1220 x 305mm) for the length of the wall. Sheets are easily cut with a Stanley knife or alternatively, sheets can be scored and snapped using a tungsten blade. Cut one sheet to a $\frac{3}{4}$ narrow (see sheet 1) and lay ADHESIVE SIDE UP. Then place the row of narrow sheets (sheets 3-5) along the wall ensuring they are straight and true. Starting with a half sheet (sheet 6) place a row of full sheets alongside the narrow (sheets 7-9) in a brick style (ashlar) pattern, staggering the joints. Dust and scrapings on the adhesive side will seriously affect its performance - work cleanly.
B	<ul style="list-style-type: none"> Keeping the 5.0mm expansion gap against the wall, place the top sheet (sheets 10-12) ADHESIVE SIDE DOWN. The adhesive will allow for initial re-adjustments to be made if required, however repeated separation is not recommended. Continue laying the top sheets in an ashlar pattern ensuring maximum overlap over joints in the bottom layer. The remainder of the floor is now ready for completion as per diagrams C-F.
C	<ul style="list-style-type: none"> Ensure an expansion gap of 5.0mm is consistent on all sides of the room (anticipate 1.0mm per metre). Accurate cutting to the prescribed perimeter gap is more critical in the upper layer. Pressure on the finished floor system will enhance the adhesion process. Any slight height discrepancies of joints can be sanded or lightly scuffed. For large floors or long corridors allow a 3.0mm expansion joint at 10 metre centres.
D	<ul style="list-style-type: none"> For a professional finished edge at doorways and junctions use a multipurpose pinless base section and finish with an edge-capping insert.
E	<ul style="list-style-type: none"> Continue laying out.
F	<ul style="list-style-type: none"> Continue laying out.

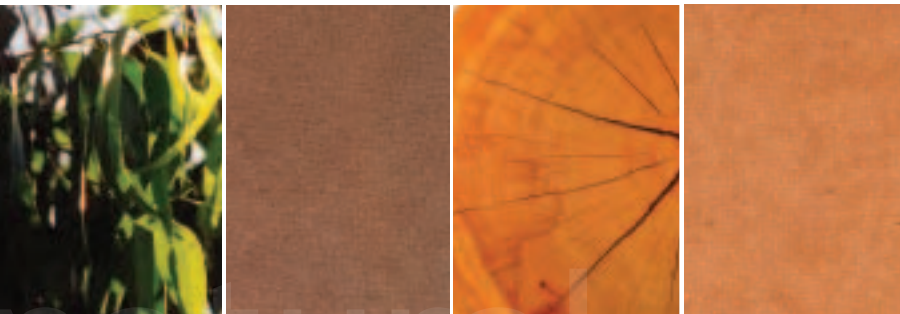
STORAGE

Dual Bond is packaged in a cardboard carton, in a bundle of ten (10) sheets. There are forty bundles to a pallet. To avoid excessive pressure of the adhesive system DO NOT stack pallets more than three (3) high or at heights exceeding 1800mm. Dual Bond is date stamped and has a shelf life prior to use of twelve months from date of manufacture. Once installed Dual Bond will give excellent long term performance.



HEALTH AND SAFETY WARNING

Inhalation of dust generated from processing Dual Bond may cause irritation and sensitisation by inhalation (asthma) and by skin contact (dermatitis). Repeated inhalation of wood dust increases the risk of nasal cavity cancer and of lung fibrosis (scarring). Do not breathe dust. Wear a respirator if using power tools. Call Customer Service on 1300 366 681 for a Material Safety Data Sheet.



It is our intention to maintain a sustainable, environmentally responsible business that respects the quality of the environment and uses resources efficiently.

THE NATURAL CHOICE

Australian Hardboards Ltd ABN 40 088 183 420.

Conditions of Sale: Australian Hardboards products and services are sold on our terms and conditions, copies of which can be obtained through our Customer Service Centre.

Currency of Information: In the interests of continuing product improvements, Australian Hardboards Ltd reserves the right to change or alter specifications and/or products contained within this publication at any time as deemed necessary.

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