



**Australian
HARDBOARDS**
THE NATURAL CHOICE

DUAL BOND - FLOATING UNDERLAY



CHANGE THE 'LOOK' TODAY
PROTECT THE SUB-FLOOR FOR TOMORROW

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 Sub Floor', ready to accept most floor coverings.

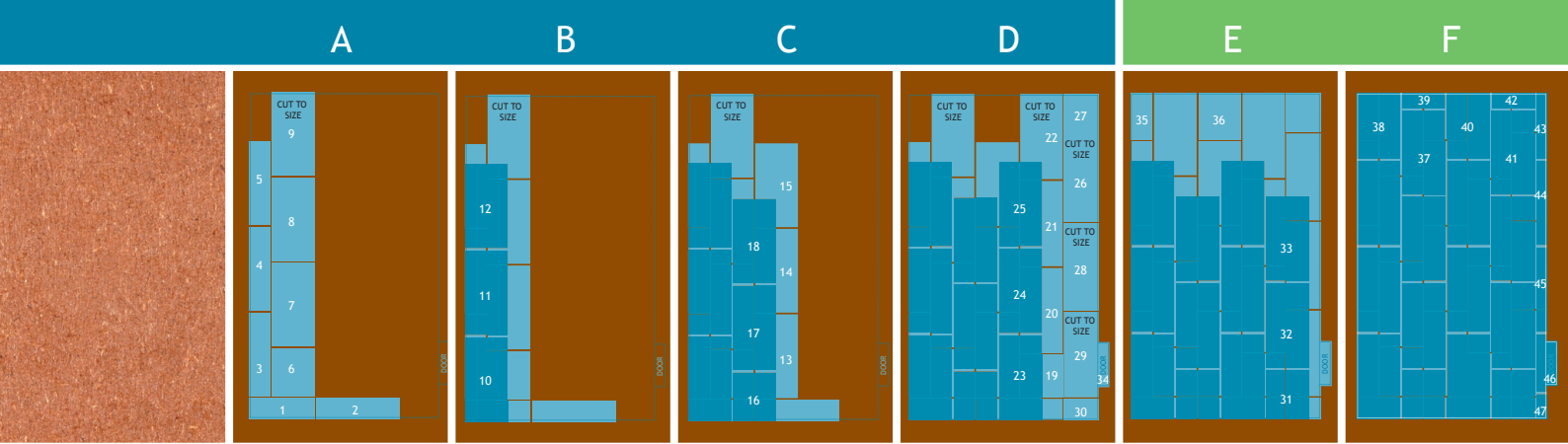
Faster and easier to install than other systems, Dual Bond is the underlay of the future.

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 floors)
- Access flooring to allow for wiring
- Heritage and restoration projects
- Renovating resilient flooring

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
- High density hardboard
- Easier to install and faster to lay
- No glues, fasteners or specialised tools required.
- Enviro-friendly - made from sawmill waste and forest thinnings.
- 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 most floor coverings including cork, carpet, vinyl and resilient floor coverings
- Proudly made in Australia
- No emissions - EO
- 1220mm x 610mm - easier to handle
- Can be removed easily if required to allow for seasonal trends



- A** 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** 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** 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** For a professional finished edge at doorways and junctions use a multipurpose pinless base section and finish with an edge-capping insert.

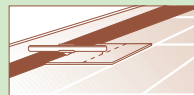
IMPORTANT Avoid walking on or touching the adhesive layers to prevent contamination by dirt, oil or dust.

MARKING OUT HARDBOARDS

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



Tile-on-tile method



Scribe bar method



Pattern scribe method

SPECIFICATIONS

- Dimensions:** 1220 x 610mm
- Tolerances:** Length \pm 1.0mm
Width \pm 1.0mm
Thickness \pm 0.15mm
- Squareness:** Variation in diagonals of not more than 1.0mm
- Packaging:** Bundles of 10 sheets packaged in cardboard.
40 bundles to a pallet.
- Bundle details:** Sheet coverage - 7.44m² - (10 sheets)
Floor coverage - 3.72m² - (10 sheets)
Mass - 20kg

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)

PHYSICAL PROPERTIES

| PROPERTY | TYPICAL VALUE |
|------------------------|---|
| Density | 1050 kg/m ³ |
| Mass/Unit Area | 2.6 kg/m ² or 1.95kg per sheet |
| Modulus of Rupture | 40 MPa |
| Modulus of Elasticity | 4000 MPa |
| Impact Strength | 4500 J/m ² |
| Internal Bond Strength | 1200 kPa |
| Thermal Conductivity | 0.18 W/(m.K) |
| Hydro-expansivity* | 0.25% |

*(change in face dimensions over 50% to 90% relative humidity)

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