

Valbonite Hardboard Underlay

5.0mm Valbonite Hardboard Underlay is a quality, durable product specifically designed to be used over strip timber, particleboard, plywood and concrete floors to provide a flat, uniform, indent resistant base for all vinyl type floor covering products.

Eco - Safe - Responsible

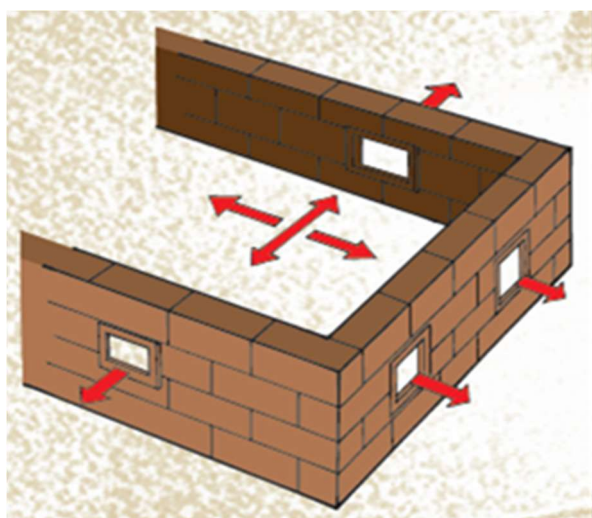
- ✓ Manufactured to meet Super E₀ Standards
- ✓ No added chemicals & no resins
- ✓ 100% natural plantation hardwood.

Strength & Savings

- ✓ Easy to work with and fix using normal wood working tools and flooring installation equipment.
- ✓ Highly indent resistant caused by heavy point load objects such as table legs, chairs, book cases and high heel shoes
- ✓ Perfect for use in high traffic areas such as hospital rooms, corridors, schools and sports stadiums.
- ✓ Minimise the adverse effect of movement in the subfloor on the floor covering as Valbonite Hardboard Underlay bridges any small irregularities in the subfloor.
- ✓ Tough, flexible and resistant to cracking or fracturing
- ✓ Valbonite Hardboard Underlay is preconditioned for the Australian Climate.

Hardboard Underlay - Specifications

	Standards	Typical Values
Thickness (mm)	EN 324-1	±0.15
Length (mm)	EN 324-1	±1.0
Width (mm)	EN 324-1	±1.0
Squareness (mm/m)	EN 324-2	1.0
Density (Kg/m ³)	EN 323 / EN 316	950 - 1000
Moisture Content (%)	EN 322 / EN 622-1	6% - 9%
Internal Bond (N/mm ²)	EN 319 / EN 622-2	1.0
Swelling after 24 hours (%)	EN 317 / EN 622-2	≤37
Bending Strength (N/mm ²)	EN 310 / EN 622-2	Min = 35



NB: Underfloor Ventilation

Good ventilation is essential under floors to prevent distortion, possible decay and excessive movement of the sub-floor, frame supports and underlay. If inadequate ventilation exists, subsequent damage to the floor covering material or adhesive system may occur.

1. Australian Standards

Valbonite Hardboard Underlay is a wood based product that complies with the recommendations within the Australian Standards AS 1884 - Floor Coverings - Resilient sheet and tile - Installation practices. Always refer to Australian Standards AS 1884 for confirmation of correct installation procedures

2. General Installation Guidance

The moisture content of timber, plywood or particleboard sub-floors and their structural supports must be checked before the underlay is installed - acceptable moisture content range: 9% - 14%. For best practice, Valbonite Underlay should be dry laid and left for 24 hours; this will allow the underlay to adapt to the humidity environment of the application site.

Install the Valbonite Underlay sheets with smooth face upwards on the floor surface.

Start on a straight wall with the long edges of the underlay at 90 degrees or at right angles to the longitudinal direction of the subfloor, using a brick pattern.

Lay the Valbonite Underlay sheets leaving 3mm-expansion gap around the perimeter walls and fixtures.

The preferred gap between sheets is 0.4mm.

3. Cutting

Valbonite Underlay can be cut using different tools such as a circular saw (33mm tooth), a jig saw (fine tooth timber blade), a hand saw (fine tooth), panel saw, or a utility knife (heavy duty blade - not break away type).

4. Adhesives

Adhesives for wooden sub-floors

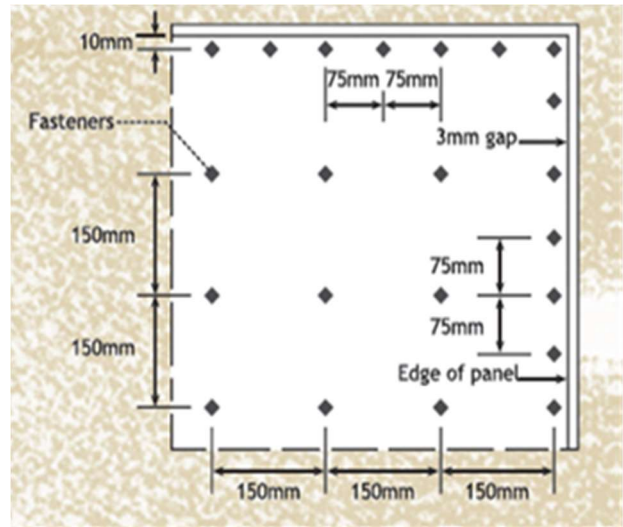
The adhesives to be used when Valbonite Underlay is fixed to plywood, particleboard or soft solid pine sub-floors (with nails and staples) are elastomeric (flexible polyurethane) adhesives (always follow adhesive manufacturer's specifications).

Adhesives for Concrete sub-floors

A premium grade flexible polyurethane adhesive is suitable for this application. When structural or relative humidity changes occur, the filling of expansion joints in the underlay is not recommended.

5. Spacing of nails or staples

- ★ Fasten all staples or nails 0.4mm below the underlay surface.
 - Staples 22mm resin coated staples or staples 3mm longer than the thickness of the existing Sub-floor.
- ★ Avoid nailing into sub-floor joints.
 - Nails 25mm x 2.5mm head ring grooved buttress type underlay nails.
- ★ Recommended spacing when fixing to timber sub-floor
 - 10mm in from the panel perimeter.
 - 75mm around the panel perimeter.
 - 150mm through the panel body.



6. Fixing

To a plywood or particleboard sub-floor: adhesive and staples is the recommended combination.

To a timber sub-floor: staples or nails are recommended.

To a concrete sub-floor: prepare the concrete sub-floor as per the adhesive manufacturer's recommendations and ensure the concrete is dry; lay the underlay allowing the recommended expansion of 0.4mm between sheets and 3mm around the perimeter; up-lift Valbonite Underlay sheet and apply adhesive to sub-floor using a V2 trowel; place the Valbonite Underlay sheets onto the adhesive and roll with a 40kg roller weight; allow the adhesive to cure; weight is required if changes in relative humidity delays adhesive bond time or causes the underlay to lift around the perimeter.

7. Finishing

Use a flat based sanding machine (Polyvac or similar) or sanding block. Carefully sand the Valbonite Underlay joints to a level plane. Light sanding of the fixing points will remove any fibre build up. Sweep or vacuum the floor so that all dust and loose fibre is removed.

Valbonite Underlay is then ready to receive the floor covering material.

8. Handling and Storage

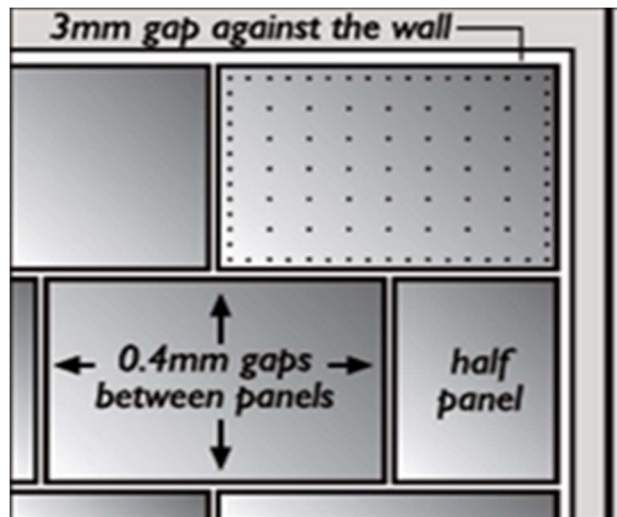
Carefully handle sheets to avoid damaging corners, edges or surfaces.

Stack panels flat on pallets or timber runners in a dry area with a moderate temperature and reasonably constant relative humidity.

Do not store in direct sunlight.

NB: Fastener Spacing

Avoid nailing into subfloor joints. Check to ensure that all staples or nails are 0.4mm below the surface of the Valbonite Hardboard Underlay.



NB: Sheet Layout

Mark out the underlay and start along a straight wall with the horizontal edges at right angles to the longitudinal direction of the sub-floor. Use an ashlar/brick pattern. Leave a 3mm expansion gap around the perimeter walls and fixtures and a 0.4mm expansion gap between the panels.