

Alpine Underlay

Alpine Underlay is a High Performance Fibreboard (HPF) underlay for floors as specified in AS1884 - Floor Coverings. Alpine Underlay is made with E0 and moisture resistant resins. It is specifically manufactured for interior use complying with AS/NZS 1859.2 - Reconstituted Wood Based Panels.

Alpine Underlay is suitable to be laid over timber, plywood, particleboard, fibre-cement sheet and concrete floors to provide a flat, uniform indent resistant base for resilient sheet and tile floor coverings including semi rigid PVC, cork, rubber, linoleum, cushioned vinyl and textile floor coverings.

Physical Properties		Description	
Physical Properties	Values	Sheet Tolerances	Values
M.O.E	5000MPa	Thickness	+ / - 0.2 mm
M.O.R	50MPa	Length & Width	+ / - 1.5 mm
Density	850kg/m ³	Squareness	2.00 (Max diff. diagonal)
Internal Bond	1500kPa	Sheet Size	1220mm x 915mm x 5.0mm
Thickness Swell	<15%	Pack Size	120
Sheet Weight	4.75kg	Bundle Size	5

Overlaying Concrete Floors

Installation

The concrete subfloor must be prepared in accordance with AS1884 - Floor Coverings. Lay sheets in a brick/ashlar pattern. Allow 0.4mm clearance between panels and 3mm clearance at perimeter walls. For best practice, Alpine Underlay should be "conditioned" by dry laying and left for 24 hours prior to fixing; this will allow the underlay to reach equilibrium with the surroundings.

Use only premium quality flexible polyurethane adhesives specified by manufacturers suitable to bond Fibreboard to concrete and apply as per their specifications.

Site Conditions

Concrete slab floors must be protected from ground moisture by a correctly installed vapour barrier. Alpine Underlay must not be overlaid on new concrete floors until they have dried thoroughly to a surface

relative humidity reading of 75% or less in accordance with AS1884 - Floor Coverings as described by Testing Procedure ASTM F2170. As a general guide new concrete slabs require one month of drying for each 25mm of concrete thickness.

Overlaying Timber Floors

Installation

The moisture content of the floor and subfloor structure must be checked prior to installation and should be within 9 - 14%. Alpine Underlay should not be used if the moisture content exceeds this range and should be laid in accordance with AS1884 - Floor Coverings recommendations.

Replace any loose or broken boards. Floor nails must be punched below the floorboard surface. Alpine Underlay is sufficiently rigid to bridge minor irregularities in the floor surface. The best results are obtained when the floor is machine sanded to a flat plane. Lay sheets in a brick/ashlar pattern. Allow 0.4mm clearance between panels and 3mm clearance at perimeter walls. For best practice, Alpine Underlay should be "conditioned" by dry laying and left for 24 hours prior to fixing; this will allow the underlay to reach equilibrium with the surroundings.

Adhesive is to be used when Alpine Underlay is fixed to plywood or particleboard subfloors in conjunction with mechanical fixings (nails or staples) and should be fully adhered. Use only premium quality Acrylic adhesives specified by manufacturers suitable to bond Fibreboard to plywood or particleboard and apply as per their specifications.

Site Conditions

Alpine Underlay must only be installed over floors which are adequately ventilated and where there are no indications of dampness. If dampness is evident the cause must be corrected and the floor and subfloor must be allowed to dry prior to installation.

Subfloor ventilation must provide a clear, cross flow of air beneath the floor so that excessive moisture is removed from the subfloor area. Excess moisture and dampness can lead to the distortion and possible decay of flooring members and excessive movement of the Alpine Underlay. Adequate ventilation is particularly important where impervious floor coverings are used, as they restrict the escape of moisture through the floor.

Where underlay sheet is applied over timber, plywood or particleboard floors, joint show through may occur under certain reflective light due to moisture content changes within the subfloor and/or relative humidity variation in atmospheric conditions (refer to section 3 in AS1884 - Floor Coverings).



Fixing Table for Timber Floors

Hand Fastening

Nail size	Fastening Centres	
	Edge	Inter
25 x 2.0 or 25 x 2.5mm	75mm	150mm

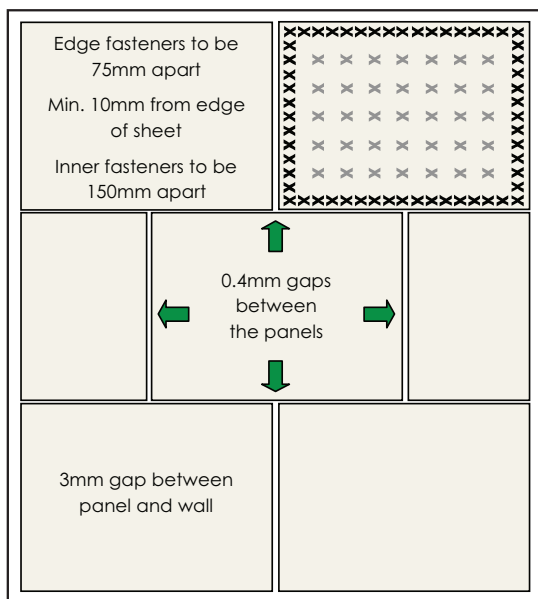
Galvanised steel, flat head ring grooved buttress or underlay type nails recommended.

Power Fastening

Staple Length	Fastening Centres	
	Edge	Inter
22 (7/8")	75mm	150mm

Staples to be resin coated galvanised, zinc or cadmium plated steel.

Minimum fixing distance of 10mm from any edge of the sheet is recommended.



Finishing

Check that all fasteners are correctly driven and not protruding above the board surface. Carefully sand joints to a flat plane and sand fixing points using a flat-based machine sander or sandpaper block. Do not use a disk type sander. Sweep or vacuum to ensure all dust is removed.

Product Care

Alpine Underlay must NOT be stored in areas subject to:

- High humidity
- Water infiltration
- Abnormal temperature variation
- Direct sunlight
- Spillage of liquids

Safe Work Practices

Work areas must be well ventilated and kept clean. Sawing, sanding and machining equipment must be fitted with dust extractors to ensure that dust levels are kept within standards laid down by Work Safe Australia. If not, a P1 or P2 dust mask conforming to AS/NZS 1715 and AS/NZS 1716 and eye protection conforming to AS/NZS 1337 must be worn. Off-cuts, shavings and dust must be disposed of in a manner that avoids the generation of dust and in accordance with the requirements of local waste disposal authorities.

Environmental Certificates

Alpine MDF Industries Pty Ltd is certified for Chain of Custody by Smartwood. Wood products certified by Smartwood are recognised as coming from "Responsible Sources" adhering to strict environmental and socio-economic standards in accordance with the principles and criteria of the Forest Stewardship Council (FSC®). Smartwood is a program of the Rainforest Alliance.



Alpine Underlay is manufactured in Australia by Alpine MDF Industries Pty Ltd in accordance with AS/NZS 1859.2. Reconstituted Wood Based Panels