



# ULTRALAY

## ULTRA HMR - NAF

(No Added Formaldehyde)

### High Performance Fibreboard

5.5mm Flooring Underlay

**Alpine Ultralay is an Australian Made High Performance Fibreboard (HPF) specifically manufactured using Ultra HMR resin (MDI) to be a uniform, indentresistant sheet for use over timber, plywood, particleboard, fibre-cement sheet and concrete floors.**

#### Ultra HMR

Alpine Ultralay is manufactured using a new Ultra HMR resin (MDI). The increased moisture resistance provides extended protection for the life of the product.

#### NAF (No Added Formaldehyde)

By using MDI resin no formaldehyde is added in the manufacturing process, minimal amounts of natural formaldehyde are present in all wood products which are far below any emission standards.

#### Australian Made

Alpine Ultralay is proudly manufactured in North East Victoria, Australia.

#### High Performance

Complies with AS/NZS 1859.2 - Reconstituted Wood Based Panels for High Performance Fibreboard (HPF) underlay.

### ULTRALAY SPECIFICATIONS

Physical Properties	Typical Values	Sheet Tolerances	Typical Values
M.O.E	3000MPa	Thickness	+ / - 0.2 mm
M.O.R	34MPa	Length & Width	+ / - 1.5 mm
Density	820kg/m <sup>3</sup>	Squareness	2.00mm (Max diff. diagonal)
Internal Bond	1200kPa	Sheet Size	1220mm x 915mm
Thickness Swell 1hr Boil	<25%	Thickness	5.5mm
Sheet Weight	5kg	Pack Size	120

## 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 Ultralay 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 Ultralay 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

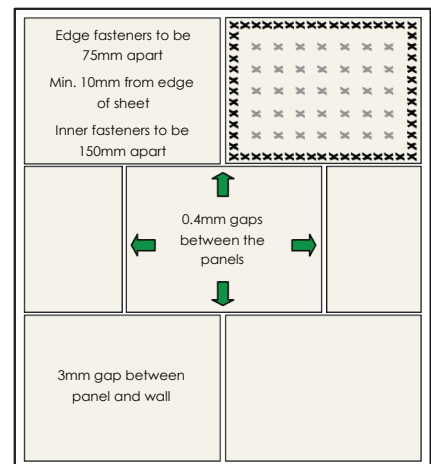
The moisture content of the floor and subfloor structure must be checked prior to installation and should be within 9 - 14%. Alpine Ultralay should not be used if the moisture content exceeds this range and should be laid in accordance with AS1884 - Floor Coverings recommendations. Replace any loose or broken boards. Floor nails must be punched below the floorboard surface. Alpine Ultralay 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 Ultralay 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 Ultralay 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 Ultralay 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 Ultralay. 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

Hand Fastening			Power Fastening		
Nail Size	Fastening Centres		Staple Length	Fastening Centres	
	Edge	Inner		Edge	Inner
25x2.0 or 25x2.5mm	75mm	150mm	22 (7/8")	75mm	150mm
Galvanised steel, flat head ring grooved buttress or underlay type nails recommended			Staples to be resin coated galvanised, zinc or cadmium plated steel.		



## Product Care

Alpine Ultralay must NOT be stored in areas subject to:

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

## 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.

## 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.

## Certification

PEFC and FSC® certification available.