

# Thinline

## Description

GoldenEdge Thinline is specifically manufactured for interior use. Comprising especially engineered wood fibre bonded with synthetic resin adhesive under heat and pressure, GoldenEdge Thinline represents the most sophisticated and consistent thin interior board available, exceeding minimum specifications for all current relevant Building Standards. Available in 3, 4, 4.75 and 6mm thicknesses. GoldenEdge Thinline is ideally sized for normal building modules and numerous joinery and furniture applications.

GoldenEdge Thinline is not suitable for high humidity areas such as bathrooms, zones immediately adjoining kitchen benches and stoves, saunas and spas, or any external situation. Areas subject to extreme heat such as those immediately adjacent to solid fuel heaters and free-standing fireplaces are also unsuitable.

## Physical Properties (Metric)

Behaviour in use – 3, 4, 4.75, & 6mm thicknesses

Property	Unit	Min Value	Mean Value	Max Value
Density 3mm	kg/m <sup>3</sup>	770	800	–
4-6mm	kg/m <sup>3</sup>	750	780	–
Internal Bond	kPa	800	1350	–
Modulus of Rupture	MPa	36	46	–
Modulus of Elasticity	MPa	2300	2900	–
24 Hour Thickness Swell – 3mm	%	–	27	33
Moisture Content	%	6.0	8.0	11.0

## Physical Properties (Imperial)

Behaviour in use – 3, 4, 4.75, & 6mm thicknesses

Property	Unit	Min Value	Mean Value	Max Value
Density 3mm	lb/ft <sup>3</sup>	48.0	49.9	–
4-6mm	lb/ft <sup>3</sup>	46.8	48.7	–
Internal Bond	psi	116	196	–
Modulus of Rupture	psi	5220	6670	–
Modulus of Elasticity	psi x 10 <sup>3</sup>	334	421	–
24 Hour Thickness Swell – 3mm	%	–	27	33
Moisture Content	%	6.0	8.0	11.0

## Sheet Sizes (mm)

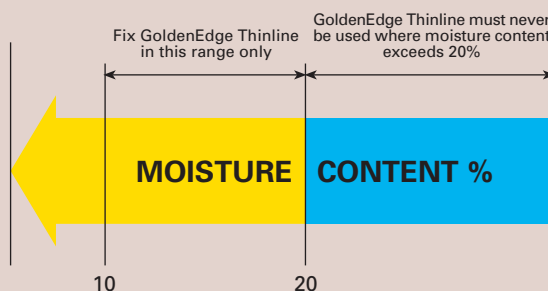
Thickness	Sheet Size
3mm	2440x915 2440x1220*
4mm	2440x915 2440x1220
4.75mm	2135x915 2440x915 2440x1220*
6mm	2440x915 2440x1220*

\* Also available as 2400x1200.

On request other sheet sizes and thicknesses are available.

## Sheet Tolerances (mm)

Thickness	±0.15
Length and Width	±1.6
Squareness (maximum difference between diagonals)	3.0
Straightness (maximum deviation from line)	1.6



## Framework Support Centres

WALL LINING			CEILING LINING	
Panel Thickness (mm)	Stud Centres (mm)	Nogging Centres (mm)	Joist/Truss Centres (mm)	Nogging Centres (mm)
6.0	400	1200	450	800
	450	1200	600	600
	600	600	900	480
			1200	480

## Furniture and Joinery Applications

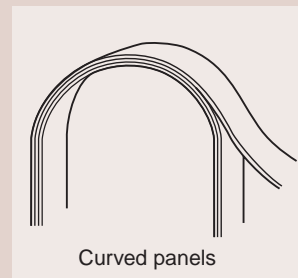
(all thicknesses)

GoldenEdge Thinline is ideal for thin panelling; it has excellent bending qualities which also makes it ideal for curved and laminated panels. Compatible with all types of interior panel products, GoldenEdge

Thinline is best when used with other GoldenEdge MDF Panel products.

Difficult shapes may be manufactured without steaming by laminating GoldenEdge Thinline. Refer to table for minimum bending radii specifications.

All types of woodworking glues are compatible with GoldenEdge Thinline including waterborne glues like PVA, if used to manufacturers' recommendations. Best results for gluing are achieved by sanding the board surface before application.



## Minimum Bending Radii

Thickness (mm)	Minimum Bending Radii (mm)
3.0	150
4.0	200
4.75	240
6.0	300



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### **Overlay for Floors/Underlay for Floor Coverings Wooden Floors (6mm recommended)**

GoldenEdge Thinline is suitable for overlaying timber, particle board, plywood, MDF, 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.

GoldenEdge Thinline must only be installed over floors which are adequately ventilated and where there are no indications of dampness. The cause of moisture must be corrected and the floor allowed to dry.

Subfloor ventilators must provide a clear, cross flow of air beneath the floor so that any excessive moisture vapour 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 GoldenEdge Thinline.

Adequate ventilation is particularly important where impervious floor coverings are used, as they restrict the escape of moisture through the floor.

In some circumstances, a moisture impervious membrane, such as polyethylene film or bitumen impregnated felt, may be used to cover the ground beneath the floor to retard moisture rise.

For further information on subfloor ventilation contact your distributor.

Under normal climatic conditions, GoldenEdge Thinline may be used direct from the pack, however, best results will be achieved when the product is loose laid on the floor 24 hours before fixing. This will allow the material to equilibrate its moisture content with the site conditions.

The practice of loose laying the board for 24 hours is strongly recommended where there is any doubt on the adequacy of the subfloor ventilation.

GoldenEdge Thinline Underlay is not suitable for the application of water proofing membranes such as those used in showers and bathrooms.



#### **Note:**

Prevailing climatic or installed environmental conditions can influence moisture content changes in wooden floors and underlays. The resulting dimensional movement may become noticeable where the floor covering bridges the GoldenEdge Thinline joins.

In some cases, the joins may be highlighted by the effects of glancing light on the floor surface.

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# Thinline

## Wooden Floors Overlay

### Installation

Replace any loose or broken boards. Floor nails must be punched below the floorboard surface.

GoldenEdge Thinline 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 bond pattern.

Allow 0.5mm clearance between panels and 5mm clearance at perimeter walls.

### Fixing Table for Overlaying Wooden Flooring

#### Hand Fastening

Nail Size (mm)	Fastening Centres		
	Corner (mm)	Edge (mm)	Inter (mm)
25x2 or 25x2.5mm	50	75	150

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

#### Power Fastening

Staple Length (mm)	Fastening Centres		
	Corner (mm)	Edge (mm)	Inter (mm)
22 (7/8")	50	75	150

Staples to be galvanised, zinc or cadmium plated or resin coated steel. Recommended staple types BEA-90 series, SENCO N4450, HAYBOLD 60 series.

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

### Overlaying Concrete Floors

Concrete slab floors must be protected from ground moisture by a correctly installed vapour barrier.

GoldenEdge Thinline must not be overlaid on new concrete floors until they have dried thoroughly to a surface relative humidity reading of 70% or less when measured using a hygrometer in accordance with AS 1884, Appendix A6, AS 2455.1, Appendix B3 or BRANZ Bulletin 388.

As a general guide new concrete slabs require one month of drying for each 25mm of concrete thickness.

#### Fixing for Concrete Floors

On concrete floors fix with 4mm diameter beads of adhesive applied in a grid pattern at approximately 150mm centres in both directions.

### Adhesives

Refer to relevant manufacturers for adhesive which is suitable for bonding Thinline to substrate.

### Finishing

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

## Lining Exposed Beam Ceilings (6mm minimum)

To retain the integrity of GoldenEdge Thinline both surfaces and all edges must be pre-primed before fixing.

Fixing between the rafters after the roof covering is laid, is the preferred procedure.

Exposure to wet weather must be avoided. Therefore if GoldenEdge Thinline must be laid on top of rafters the exposed interior ceiling should be laid progressively with the exterior covering.

### Finishing

Veneers and Plastic Sheeting Surfacing:

Satisfactory adhesion by cold cured adhesives rely on keying of the surface of GoldenEdge Thinline by light sanding. It is essential that a balancing of surfacing be provided on both surfaces to avoid board distortion.

Veneering of GoldenEdge Thinline on one surface alters the balance of the material to absorb moisture, therefore the risk of board distortion is high. This practice is not advisable.

