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## INSTALLATION MANUAL



## Installation Manual

### Overview

Timber needs to be carefully and properly selected, detailed and finished to work successfully in the built environment. The following guidelines represent best practice for installation with Clear Grain in interior and exterior applications.

### Storage & Handling

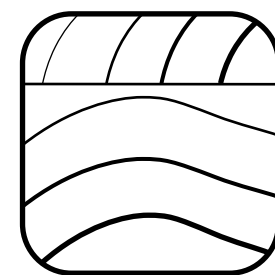
- Store materials in a covered area, away from direct sunlight and away from inclement weather conditions.
- Do not tip boards off the deck of a truck – instead, unload them by hand, crane or forklift and stack them on timber gluts at 450mm increments and at least 150mm from ground level.
- When handling the product on-site, carry individual boards on their edge and do not drag or transport them in a way that will damage the primer or substrate.
- In applications where there is a high risk of expansion or contraction - and if this movement is undesirable - allow the material to establish an equilibrium moisture content with typical in-service conditions. Do this by stacking boards so that there is good air circulation around each length, in a covered area close to the intended installation.

### Guidelines – Interior Products

- When using a drop saw, select a sharp carbide-tipped finishing blade and make cuts with the exposed surface facing upwards to prevent tear-out and splintering.
- Select screw and nail fasteners with an appropriate level of durability for the installation. Woodworking glues can be applied to Clear Grain products in conjunction with metal fixings. Pre-drilling is recommended where possible to prevent splitting of the timber during jointing and fastening.
- In areas where there are fireplaces, vented warm air from appliances, or high humidity – such as in bathrooms and wet areas – apply a preliminary coat of the selected finish to all Clear Grain surfaces prior to installation, paying close attention to the end grain. Coatings harmonise the movement of moisture into and out of the substrate, ensuring that dimensional changes are consistent across all surfaces.
- Clear Grain Interior is not recommended for areas that are frequently exposed to moisture and liquids, such as in shower cubicles, locations adjacent to baths or spas, and in sink, basin or laundry tub splashbacks.

### Guidelines – Exterior Products

- Apply an in-can preservative such as Tanalised® Enseal Clear to all cuts, notches and penetrations, and thoroughly reprime with a quality timber oil or varnish. We recommend Intergrain Universal™ Timber Oil.
- Design the installation so that water is discharged away from horizontal surfaces and the end grain. Timber can also absorb large quantities of moisture from soil, concrete and masonry – therefore, ensure that there is sufficient clearance between end grain and these materials.
- Where possible, apply a preliminary coat of the selected finish to all surfaces prior to installation, paying close attention to the end grain. Coatings harmonise the movement of moisture into and out of the substrate, ensuring that dimensional changes are consistent across all surfaces.
- Select fasteners with an appropriate level of durability for the intended application. Galvanised nails, screws and bolts should be used at a minimum. However stainless steel fixings may be required in corrosive environments.
- Clear Grain Exterior is not recommended for in-ground applications, or installations within 150mm of the finished floor level.



Install with vertical grain pattern exposed for best visual results

### Coatings

- The Intergrain Universal™ Timber Oil applied to Clear Grain products is a preparatory coating that protects the wood during installation and provides a strong foundation for the application of protective finishes. It must be overcoated, and will accept most water- and oil-based, penetrating and film-forming timber oils, stains, paints and varnishes.
- Topcoats should be applied within 12 weeks of installation, in accordance with the manufacturer's preparation and application guidelines.
- Protect the end grain by applying coatings to all cuts, notches and penetrations during and after the installation process.
- Dark colours absorb more solar radiation than light colours in exterior applications and can cause heat to build up in the timber substrate. This action drives moisture out of the wood, causing it to shrink or check as it moves towards a lower moisture content. If these characteristics are undesirable, select light-coloured finishes, as they reflect ultraviolet light away from the material.
- If clear finishes are to be used, select products that contain UV inhibitors or stabilisers. These additives prevent ultraviolet light from degrading the substrate beneath the coating film.

Specific guidelines relating to the installation of cladding, lining boards, and handrail components can be found on Woodhouse's website at <https://www.woodhouse.com.au/installation-guides/>.

# Specification Guide

Trade Name:	Woodhouse Clear Grain™
Species:	Radiata pine (Pinus radiata) clearwood
Origin:	New Zealand
Sustainability:	FSC® mix, CoC No. SGSHK-COC-500007
Carbon Footprint:	-668kg / m3 (A1-A3) (WPMA 2019)
Density:	450-500kg / m3 seasoned
Moisture Content:	Kiln-dried to approx. 12% (+/- 3%)
Typical Length Mix:	1.8m-5.4m, supplied in set length packs
Fire Hazard:	Group 3
Treatment Class:	Hazard Class 3 (H3). Also available untreated
Treatment Type:	Light Organic Solvent Preservative (LOSP)
Preservative Number:	064 – Propiconazole + Tebuconazole + Permethrin
Sawing Pattern:	Laminae are quartersawn – wood grain runs longitudinally along each piece of material
Lamination:	Glued with VOC- and formaldehyde-free single component polyurethane adhesive. Approved for Service Class 3 exterior exposed applications
Coating:	Primed with one coat of Intergrain Universal™ Timber Oil. Will accept most oil- and water-based, penetrating and film-forming coating systems.
Intended Use:	Preservative-treated products are resistant to rot, fungal decay and termite attack and can be installed in exterior, above-ground applications at least 150mm from ground level. Untreated products are to be installed in sheltered, interior applications only
Weathering Characteristics:	Will expand and contract with seasonal variations in in-service moisture and humidity levels. Minor surface checking and fibre pull can also be expected in exterior applications
Warranty Period:	For Clear Grain Interior, 7 years against fungal decay and termite attack. For Clear Grain Exterior, 15 years
Expected Service Life:	30 years or more when correctly installed and maintained



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