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## INSTALLATION GUIDE

D'Arbre Timber is constructed with the best European oak wear layer, bonded onto a multi layered EUC plywood base. This ensures stability and longevity. All boards are manufactured with tongue and groove on ends and sides.

Different thicknesses are available depending on the product chosen. D'Arbre is available in 15mm/4mm and 21mm/6mm boards.

Colour variation occurs with all natural timbers. Due to the nature of these variations in the raw material, boards may vary and have tonal differences between batches. The quality of our boards is exceptional in appearance and trueness. High quality engineered floors can be laid without restrictions that apply to a solid product. For example; shrinkage and movement is greatly reduced. Artisan recommends qualified floor layers be used to install our floors.

## PRE-INSTALLATION CONSIDERATIONS

Wastage allowances: We recommend a minimum wastage factor of between 5%- 10% and up to 20% for the herringbone pattern. Moisture & Environment: We recommend following the ATFA Specification For Engineered, Laminate & Bamboo Installation guidelines. <https://www.atfa.com.au>

## STAIRS

D'Arbre Timber offers both solid and tongue and groove stair nosing options. Solid come in raw European or American oak. Solid nosing can be professionally stained to tie in with the colour of your floor or alternatively can be left raw and coated with oil only (depending on the colour of your floor this can act as a safety measure as the nosings differ in colour and accentuate the individual steps). Note that it is acceptable to have some variation in a set of stairs and nosings may not be an exact match to flooring colour.

Stairs must be installed to NZS/AS 1657

## INSTALLATION METHODS

Using a block to install: Care must be taken fitting boards together to avoid damaging the edges. Use a wooden or nylon block to knock boards together by hitting the board against the tongue side not the groove. Damaged edges can be hard to spot on completion of the job but after time a damaged edge can splinter up and personal injury can occur.

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## INSTALLING OVER A CONCRETE SLAB

- Preparation of the slab: The concrete must be structurally sound, dry (no more than 5.5% moisture content), level and cleaned of waxes, adhesives dust etc
- Apply a moisture barrier sealant to the slab to ensure no moisture rises to the surface.
- Slabs must be level with no more than a 3mm deviation over a 3 metre radius. If deviations are greater than above, use a self-levelling compound or grind the slab to level the surface within the above tolerance.
- It is important to consider the possible risk of sub slab water ingress from surrounding areas. A relative humidity & moisture content reading is required prior to installation; please document readings for your records. If moisture content is more than 5.5%, please contact us for further advice.
- Installation of boards by direct sticking the boards to the slab: Over a prepared slab (see above re: slab preparation). Glue the boards with Sika Bond-T55 (J) to the slab using a 3-6mm notch trowel. Spot weight across the floor and weight any hollow or drummy areas to ensure floorboard and sub-floor contact.
- Installation of boards onto ply over concrete slab: The minimum thickness of ply which can be used over a slab in order to secret nail is 9mm. Over a levelled slab lay thick polythene sheet as a moisture barrier. Overlap each sheet by 150mm and attach the overlaps using a 50mm wide double sided tape. Lay the ply over the polythene sheet in the opposite direction (cross laminate) to the intended direction of the floor, for example; place the long length of the ply perpendicular to the direction of the boards. Attach the sheets to the slab using pre-drill sleeve pins only, at a rate of 28 pins per 2400mm x 1200mm sheet. Level ply as necessary by plane or sanding. Adhere boards glue Sika Bond-T55 (J) SF applied in either a snake pattern individually to the back of the board or applied by 3-6mm notch trowel to the ply. Secret nail every 100-200mm.
- Installation of boards by direct sticking to slab with acoustic matting: The matting system is a requirement in multiresidential developments to reduce noise transfer. Over a prepared slab (see above re: slab preparation) The matting will need to be applied to the slab with Sika Bond-T55 (J) using a 3mm notched trowel and allowed to dry to the manufacturer's specifications. Glue the boards directly to the matting with Sika Bond-T55 (J) also using a 6mm notched trowel. Spot weight across the floor and weight any hollow or drummy areas to ensure floorboard and sub-floor contact.
- Underfloor Heating Options: In-slab and above-floor heating systems can be used under our flooring. In-slab heating uses either electric or hydronic heating elements which are embedded in the slab. If using in-slab heating we recommend our direct stick to slab method (above). It is vital that any underfloor heating system be fitted with a cut-off thermostat set no higher than 22 degrees Celsius when measured under the timber flooring. Irreparable damage to wooden floors occurs if it is subjected to temperatures above 22 degrees. Even heat distribution is vitally important as hot spots can cause greater board movement (shrinkage or cupping) in some areas of the floor compared to others. Likewise, seasonal operation of the system can cause some gapping or board shape changes. It is best to run the heating system prior to install for around 2 weeks to ensure slab dryness.
- Sub-floor temperature should be checked prior to install and should not exceed 22°C. Relative humidity should be in the range of 45 to 60% at a room temperature of 20°C. Then turn off the heating for at least two days where you can then install the flooring as per above. Once completed, gradually turn the heating up in stages over a period of 10 days in increments of 2°C per day then maintain at desired level for 2 weeks. Gradually increasing and decreasing the temperature or operational use will help the timber to acclimatise and minimise disturbance to the floorboards.

## INSTALLATION OVER STRUCTURAL TIMBER FLOORING OR EXISTING TIMBER STRIP FLOORING

- Installation over structural timber flooring (eg. Chipboard or Yellow Tongue): Rough sand the timber substrate if joints are peaking or level is greater than 3mm over 3m. Glue using Sika Bond-T55 (J) applied in either a snake pattern individually to the back of the board or applied by 3-6mm notch trowel to the ply. Secret nail every 100-200mm.
- Installation over existing timber strip flooring: It is important to ensure that existing floors are sound and free of rot etc prior to installation of new timber over top. If running the boards in the opposite direction to the existing timber floors, the boards can be glued and secret nailed directly to the substrate. If installing in the same direction as existing flooring, a 4mm ply must be pinned down over the existing floor to create cross lamination. This minimises movement between the existing timber floor and new timber floor. Rough sand ply and glue using Sika Bond-T55 (J) applied in either a snake pattern individually to the back of the board or applied by 3-6mm notch trowel to the ply. Secret nail every 100-200mm.
- We do not suggest the installation of our boards directly over battens, bearers & joists, or as a floating floor. Please call us to discuss further if you have any questions
- Caulking: As the boards are engineered, the need for expansion allowances is minimized. We suggest a 3mm gap be left between boards & skirting. Caulk out the gap in a colour to match the floor or skirting (applicable when floor is installed direct stick only)
- Transitions: In most cases a 3mm aluminium flat bar is used as a transition between timber and other floor finishes.
- After installation/Builders Clean: If dust is present, vacuum immediately, do not mop. Moisture can set plaster dust into the low grain of the timber making it very difficult to remove if not impossible.
- Floor Protection during construction: It is preferred that the boards are laid as late as possible in the project to prevent the boards from being damaged by other trades as they are prefinished. Should further work need to be done on the project after installation has been completed it is essential that the floor be protected using a 2mm foam underlay and a 3mm or 4mm MDF sheeting over top that is securely taped together (do not apply tape to the finished floor) or other protection method.
- Cleaning and Maintenance: We recommend using WOCA products for cleaning and maintaining D'Arbre timber floors. <https://www.wocadenmark.com> (Also - Refer to our Care & Maintenance Guide)