

Tate®

Site Installation Guide

Attiro®

Innovation by **Tate**



Approved Use

Attiro magnetic real wood flooring is designed for commercial use in retail, leisure, exhibition spaces, educational, religious buildings, residential and offices when supported on and connected to **Tate** steel encapsulated raised floor panels. All areas must be environmentally controlled prior to, during and continually after installation.

Excluded are those facilities used as dance studios, or areas where spiked footwear is worn and other locations where metal cleats may be used.

Storage, Handling & Installation

Attiro has to secure magnetically to the supporting **Tate** steel encapsulated raised floor panels to ensure that the desired look is achieved. The correct installation of the steel encapsulated raised floor system is critical to guarantee that connectivity is optimised. The difference in height between adjacent panels without floor finish should not exceed 0.75mm before the application of any load. At the completion of installation of the **Tate** steel encapsulated system the tolerances must be checked before commencing installation of the Attiro floor.

Once the raised floor is installed and commissioned, the installation of Attiro can commence if the following criteria are followed:

- The raised floor surface must be clean, free from dust, any existing carpet tackifier, bonded debris and any damage that has created high points on the raised floor panel's surface.
- Relative Humidity of the project site must be maintained between a minimum 40%, maximum 60%.
- Temperature setting must remain at constant level between 12°C and 22°C without drastic changes in temperature.
- A **Tate** approved and independently calibrated Relative Humidity and Temperature recording device is to be installed in each subdivided area of Attiro flooring. One reading must be recorded every 4hrs, 6 per 24hr period.
- Ensure all windows, openings and external doors are fully functioning, are watertight and the building is free from water ingress.

- All heavy works on the site have to be completed before installing Attiro, we suggest completing the following works using the **Tate** steel raised panels as a working platform:
 - Installation of ceilings and lighting.
 - Installation of partition walls.
 - Completion of mechanical and electrical works.
- Do not open the Attiro packaging prior to installation. Store and acclimatise the unopened packages inside in a horizontal position on a clean and debris free surface.
- Just prior to installation, inspect the boards in daylight for any visible faults or damage.
- To achieve a regular distribution of Attiro flooring, we recommend installing from two or three different packs at the same time.
- The facing veneer of Attiro is a natural product therefore it may vary in shade and appearance.

Direction Of Installation

This normally depends on the main source of light fall into the room and also the layout of the considered area.

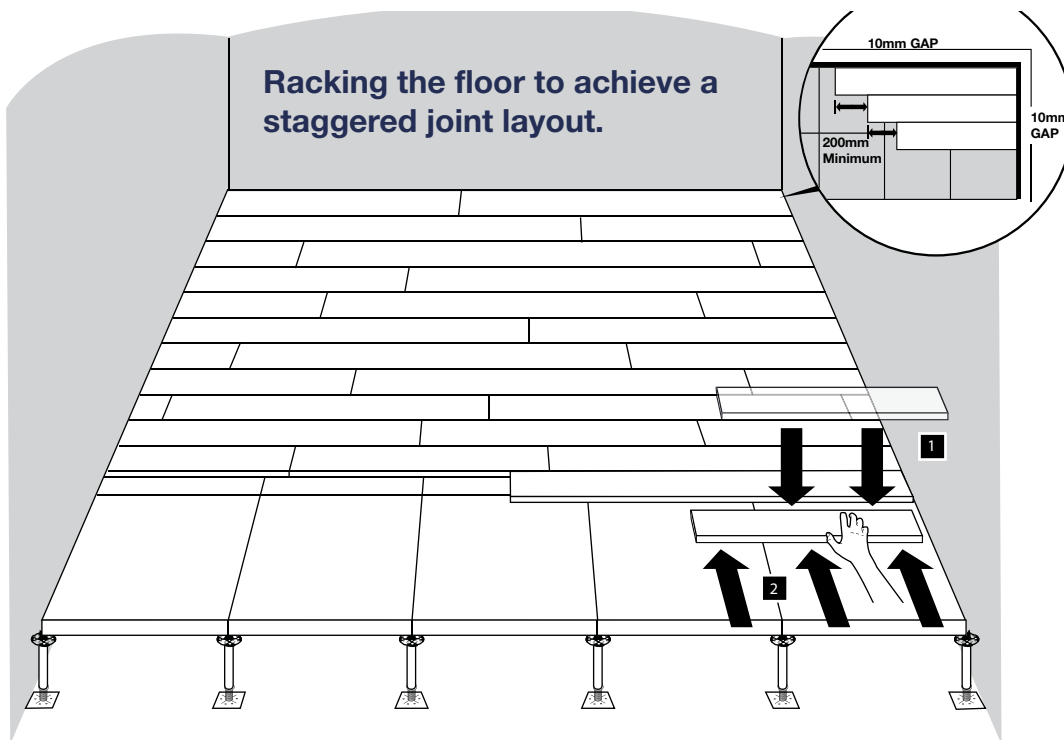
Attiro should run parallel with the entering light for best appearance, but it also looks more appealing when running parallel to the longer length of the space.

Layout Of Attiro Flooring

Racking the floor is essential to achieve a staggered joint appearance. Start by either using different lengths found in the box or by cutting four or five boards in random lengths, differing by at least 200mm.

Never waste materials, the end cuts from starter rows should be used at the opposite side of the room to complete rows or used to start the next row.

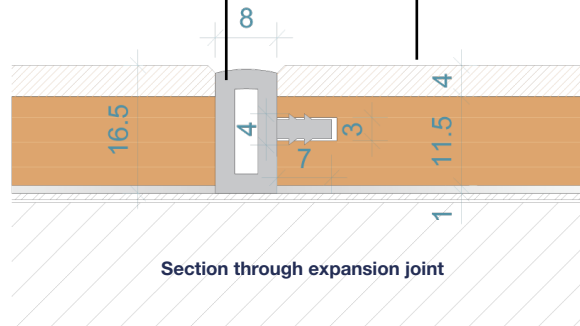
As you continue working across the floor maintain 200mm to 400mm minimum space between end joints. **Randomly install different lengths from different boxes to avoid a patterned appearance.**



Expansion Joints

A 8mm – 10mm expansion gap is required around all perimeters or any fixed vertical element (e.g. columns), this can be infilled with Class O neoprene or the 8mm silicone expansion joint. In open spaces the 8mm silicone expansion joint is to be included every 15m on the width and every 35 - 40m along the length, or in coincidence with structural joints. Typically expansion is most likely to occur in the width direction.

Silicone Expansion Joint Attiro Stave



See technical detail drawing TAF-SD-19059

Waste Allowance

5% cutting allowance should suffice for a staggered joint layout and running bond however a minimum of 10% should be considered for herringbone and bordered layouts.

Site Cleaning

It is usually sufficient to clean the Attiro wood finish dry, using a dust mop, soft broom or vacuum cleaner with soft wheels. Cleaning can then proceed as per the Attiro Cleaning, Maintenance, Operator & User Guide.

Site Protection

Ideally the installation will commence as late as possible in the fit out programme, however when needed for light duty and non impact protection, then a soft breathable FR rated material should be installed on the surface.

We do not recommend the use of protection that is non-breathable.

If higher impact protection is required and is acceptable by the main contractor, then plywood or OSB board should be used with a layer of soft breathable material between it and the surface of the Attiro.

All approved protection should remain in place for as little time as possible in order to reduce the effects of photo-degeneration.

Protecting Attiro After Installation

To preserve the quality and appearance of your Attiro we only recommend soft, non-marking castors, felt pads (not rubber) are used under furniture and doormats installed at external entrances. For additional protection we highly recommend placing mats under chairs located at work desks.

As well as we make our flooring, Attiro is not designed for abnormal wear and tear, nor misuse or accidents, adequate measures must be made to prevent, stains, wear or puncture from narrow heeled shoes, damage from furniture or equipment movement, rolling loads, impairment caused by heavy items or by impact, scratches or scarring by animals or abrasive, sharp or pointed items, moisture damage caused by wet mopping, spills and standing water.

It should also be taken into consideration, that most adhesive tapes contain solvents that might harm the finish or even remove it if applied for long periods.

Attiro is designed to be a decorative floor finish and should be treated as such in terms of any trafficking that may take place across its surface during and after installation.

Removing Attiro

Attiro should only be lifted with the appropriate lifting devices, available from Tate. Once one piece of Attiro is removed, then the adjoining boards can be removed in the same way if required. Under no circumstances should hard tools be used to prise up the Attiro, as this could potentially result in damage to the stave and its bevelled edge.

Climatic Conditions During Installation And Life

In order to maintain the quality and appearance of your Attiro, an indoor climate of 40% - 60% relative air humidity is ideal with an average room temperature of approx. 20°C.

To keep the air humidly constant, especially during the heating season (autumn & winter), we recommend using an electrical air humidifier to prevent extreme drying out of the floor. Air humidifiers should be switched on right from the beginning of the heating season.

If the recommended air humidity level falls below our recommendations, minor gaps may develop in the joints between the Attiro boards or on the board itself, which normally close up again after the heating season.

A **Tate** approved and independently calibrated Relative Humidity and Temperature recording device is to be installed in each subdivided area of Attiro flooring. One reading must be recorded every 4hrs, 6 per 24hr period, prior to installation, commissioning the HVAC system and practical completion. The monitoring and recording is to continue for a full climatic period of 12 months after practical completion.

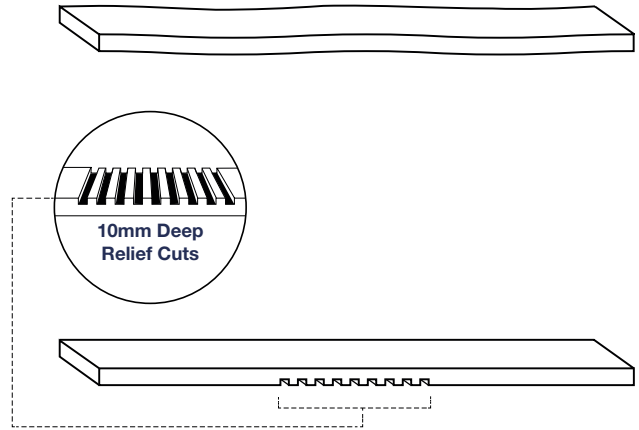
Crowned Or Stave Heads Lifting

Although engineered, Attiro comprises of a natural wood veneer, which is sensitive to humidity, temperature changes and incorrect storage. After the Attiro has been removed from its protective packaging, it can be susceptible to movement if storage and the recommended temperature and Relative Humidity guide lines are not followed correctly.

We recommend the following actions to remedy this:

- Check that the raised floor panels are free from debris, damage and are installed to the correct tolerance guidelines, and where fixings are flush with the panel's surface.
- If the centre of the stave is crowned return the Relative Humidity to the recommended levels, see Climatic Conditions. This can be done using a portable de-humidifier.
- If Attiro still doesn't secure, make 3 - 10, 10mm relief cuts around the apex of the crown.
- If the heads of the Attiro stave have lifted, this is normally as a result of the environment being too dry. If this occurs then the Relative Humidity must be returned to the recommended levels. The use of a portable or humidifier will assist with its return to a satisfactory level condition.

Relief Cut





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