

# Planks in Staggered Layout

## Installation Guidelines

### Purpose

When installing Hakwood plank flooring, creating a proper random pattern with staggered end joints is essential for both structural integrity and aesthetic appeal. This document outlines the specific requirements for achieving an optimal staggered layout.

These guidelines must be used in conjunction with the [Hakwood Installation Instructions for Flooring](#) document.

#### ALL GENERAL REQUIREMENTS REGARDING:

- Climate control
- Surface preparation
- Storage and handling
- Environmental conditions
- Installation methods

as specified in the main document must be met in addition to the specific requirements detailed below.

### Structural Benefits

- STRUCTURAL INTEGRITY The staggered placement of end joints ensures the floor stays level and stable. By avoiding aligned joints between rows, the floor maintains better structural unity across the entire surface.
- INSTALLATION ALIGNMENT Following the specified minimum stagger requirements helps maintain straight rows throughout the installation process. This makes it easier to keep the entire floor properly aligned from wall to wall.
- JOINT INTEGRITY PREVENTION Strategic staggering of joints minimizes stress concentration at board ends, reducing the likelihood of joint separation or gap formation between boards. This proper distribution of end joints helps maintain consistent seam tightness throughout the floor's service life.

### Aesthetic Benefits

- NATURAL APPEARANCE A random pattern creates an organic, harmonious appearance that enhances the inherent beauty of Hakwood engineered flooring. This natural layout allows the wood's characteristics to be the primary visual focus.
- VISUAL HARMONY Regular or repeating end joint patterns create visual interruptions that draw attention away from the overall floor appearance. By properly staggering the joints in a random pattern, the floor maintains its visual continuity, allowing the natural beauty of the wood to be the focal point.

## Installation Requirements

### 1. Layout Preparation

- Carefully measure room dimensions
- Calculate optimal row distribution across the installation area
- Plan the layout to ensure proper stagger patterns throughout the installation

### 2. Random Pattern Requirements

- End joints must stagger by minimum **600mm (23 ½")** between consecutive rows
- End joints must stagger by minimum **1.5 times the board width** between alternate rows

EXAMPLE: For 180 mm (7") wide boards, minimum stagger is 270 mm (10 ½")

For 240 mm (9 ½") wide boards, minimum stagger is 360 mm (14 ¼")

### AVOID CREATING VISIBLE PATTERNS OR REPETITIONS IN END JOINT PLACEMENT

