



Installation Instructions for Products with the Angle / Angle Locking System

Before Installation:

1. READ THESE DETAILED INSTALLATION INSTRUCTIONS.
2. Material and tool requirements:
 - Estimate square footage and add 10%
 - Select underlayment. (Over concrete subfloors, gypsum subfloors, or moisture prone areas, the underlayment must have a vapor barrier. If underlayment does not have a vapor barrier, a separate vapor barrier must be used.
 - Spacers, pull bar, circular saw with a fine toothed blade, hammer, pencil, tape measure, straight edge, and wood glue.
3. Acclimation:
 - Store unopened boxes in the room where the floor is to be installed for a minimum 48 hours, prior to installation. Once boxes are opened, they should be installed immediately.
4. Please inspect the flooring panels carefully for any possible damage or defects before installation. No complaints regarding visual defects will be accepted after the flooring is installed. If you discover apparent defects in the flooring panels, you should stop the installation immediately and call us at 1-888-KAINDL -7 ext 201.
5. Kaindl laminate flooring is not suitable for wet areas.

Installation Instructions:

1. NEVER USE A TAPPING BLOCK OR INSTALLATION KIT DESIGNED FOR OTHER LAMINATE FLOORS. USING THESE TOOLS WILL DAMAGE YOUR FLOOR AND VOID YOUR WARRANTY.
2. Kaindl laminate flooring is designed to be installed floating. Under no circumstances should flooring panels be glued, nailed, screwed, or otherwise adhered (e.g.: door stopper, closet track, etc.) to the subfloor in any way.
3. Kaindl laminate flooring needs room to expand. An expansion gap of 10-15mm (3/8" – 5/8") should always be left around the perimeter of the room (e.g.: between the flooring panels and the walls or any other fixed elements, such as heating pipes or door jambs). The expansion gap can be covered up with baseboards, quarter round, or the appropriate floor molding. T-moldings (at least 2cm (1") in width) must be used between adjoining rooms, hallways and doorways. T-moldings must be used in the middle of rooms measuring 10 meters (33') in the direction of the panel length and more than 8 meters (26') in the direction of the panel width.
4. Installation should be carried out at a room temperature of at least 18° C (65° F) and a floor temperature of at least 15° C (59° F). The relative humidity in the room should be 50% - 70%. The temperature difference between the flooring panels and the subfloor should not exceed +/- 3°.
5. The subfloor must be dry, level, clean and firm. Verify that concrete slabs are dry according to ASTM F1869, with a maximum moisture emission rate of 5 lbs per 1000 sq/ft per 24 hours, or in accordance with Calcium Chloride Method $\leq 2\%$. Differences in floor level more than 3mm per 1

meter span (1/8" per 3' span) must either be sanded down or filled in with a suitable filling compound. Carpet is not a suitable underlayment.

6. For installation below grade, on a concrete subfloor, or on a gypsum subfloor an underlayment with a vapor barrier must be used. The seams of the underlayment moisture barrier should overlap by at least 10 cm (4"). And must be taped with moisture resistant tape along the length of the overlap. For more information regarding vapor emissions, please contact us at 1-888-KAINDL-7 ext 201.
7. For acoustic installation, an appropriate underlayment should be used. Underlayment maximum thickness under Kaindl laminate flooring is 4mm, and a minimum density of 53 kg/m³ (3.5 lbs/ft³).
8. Flooring panels should preferably be installed longitudinally (lengthwise) to the main light source.
9. Avoid narrow pieces at the finish wall. Measure the distance between the starting wall and the finish wall. Divide this number by the width of the plank, The remainder must be greater than 6.35cm (2 1/2").
10. For information on radiant heated floors call 1-888-KAINDL-7 ext 201 for further information. Radiant heated subfloors should never exceed 26° C (79° F).
11. Your Kaindl laminate flooring can be walked on immediately following installation. As soon as part of the flooring is installed, the furniture can be moved onto the finished surface.

Assembling Flooring Panels:

1. Install appropriate underlayment as per the underlayment manufacturer's guidelines.
2. For the first row of panels cut off the tongue of the plank. Lay the first plank with the trimmed tongue edge facing the wall while taking special care to maintain proper expansion as explained in point # 3 above.
3. Assemble the end joints by inserting the tongue on the short side of the panel at an angle of approximately 25°, and lower it into place. Continue in this manner until the first row is complete.
4. To start the second row, use the remainder of the last plank of the first row if it is longer than 30cm (12") long, otherwise, cut a new plank in half and proceed. To ensure structural integrity of the your floor, it is mandatory to always stagger the end joints from row to row by at least 40cm (16").
5. Assemble the end joints in the second row completely. Then, angle the tongue on the entire length of the second row into the groove on the long side of the planks of the first row.
6. In the case where you are unable to the panels (e.g. under a doorframe) you must cut away the locking edge of the lip of the bottom groove by using a wood chisel. Run a bead of glue on the now modified tongue and groove. Tighten the panels gently with the use of a pull bar and hammer.
7. If a doorframe must be undercut, lay a panel of flooring next to the doorframe with the patterned side facing down. Undercut the doorjamb with a saw, and then slide the flooring panel under the doorjamb with the decorative side facing upwards. Please note that the floor must be allowed to expand under the doorjamb and Kaindl's recommended expansion gap must be respected.
8. Continue the installation in this manner until you get to the last row. For the last row, measure the exact width required. To do this, lay a panel of flooring on the second to last row. Then lay a second panel of flooring on top of this panel with the tongue side of the plank touching the wall. This will allow you to determine the width needed for the final row. Make a mark with a pencil and cut with a saw along this mark. Expansion gap must be respected.

Care and Maintenance:

Laminate Flooring

Kaindl laminate Flooring is among the highest performing floors available, but is not indestructible. Minor cosmetic scuffing is considered normal wear for any laminate flooring. To ensure that your floors perform well for years to come, please follow the following care and maintenance recommendations..

Ambient conditions

To maintain the floor in peak condition and for overall comfort, surroundings should be kept at or near the ideal level (68-72° F and 50-60% relative humidity). If the relative humidity is likely to remain below this level for long periods, the use of a suitable evaporative humidifier is recommended. This is particularly true during periods when central heating is in use or when hot conditions occur naturally. Low humidity leads to a reduction in the moisture content of the wood: under these conditions joints can open up. By contrast, excessive humidity or standing surface water can lead to damage through swelling (deformation and discoloration).

Initial Treatment

Laminate floors require no initial treatment before use. The surface does not require a protective film. Maintenance products which leave a film behind must be avoided because they impair the wear properties of the product and make cleaning difficult.

Cleaning

- For day to day maintenance, simply clean your Kaindl laminate flooring by sweeping with a soft broom or by vacuuming with a vacuum meant for hard surface flooring.
- Wipe off foot marks with a very well wring out moist cloth. Do not use wet clothes or wet mop.
- Do not attempt to clean Kaindl laminate flooring with wax, oil soap, polish, or scouring materials.
- For stubborn stains, use a commercially available cleaner designed for laminate only; not a wood cleaner or polish.
- Use of wet jet mops and floor steamer type products are not recommended.

Care

- Place walk off mats or area rugs in main traffic areas and entrances.
- Chair and furniture legs, and objects that are likely to be pushed across the surface, should be fitted with felt gliders.
- Fit Type W castors to items such as office chairs, rolling bins, etc.
- Where radiant heating is in used, the surface temperature of the floor covering must not exceed 78° F. under any circumstances. This is important if rugs are placed over the surface as there is a risk of heat buildup.
- Observe the ambient conditions suggested above.

For questions regarding our products, please call toll free: 1-888-Kaindl-7 ext 201