



FRONTIER SERIES WATER RESISTANT LAMINATE

INSTALLATION INSTRUCTIONS CLEANING & MAINTENANCE WARRANTY

Frontier
WATER RESISTANT LAMINATE FLOORING



1 PRE-INSTALLATION

1.1 ESSENTIALS

Please read all installation instructions carefully before beginning installation.

Frontier Series Laminate is intended for interior use only and is designed as a floating floor. The flooring must be allowed to expand and contract freely and must not be nailed, screwed, glued or otherwise fastened through the flooring into the subfloor.

Failure to follow these installation instructions may void applicable warranties.

Important Requirements

- It is critical that the subfloor is clean, dry, flat, and structurally sound.
- Moisture testing is required on all concrete subfloors.
- Proper expansion space must be maintained around all walls and fixed objects.
- Mouldings, trims, transitions, and finishing pieces must not restrict floor movement.
- Flooring should be inspected prior to installation. Do not install damaged or defective boards.
- Mix planks from multiple cartons during installation to achieve a natural variation in colour and pattern.
- This product is not suitable for outdoor use, damp rooms, saunas, rooms with floor drains, rooms subject to flooding, or rooms with damp concrete.
- Standing water, pet urine, and other liquids must be removed immediately.

Storage & Acclimation

The heating and cooling systems must be operational for a minimum of two weeks prior to installation.

The installation area must be maintained between:

- 17°C and 24°C
- 40% and 65% relative humidity for at least five days before delivery and throughout the life of the product.

Humidity should never be allowed to fall below 30%, as excessive shrinkage and gapping may occur.

Maximum Installation Area

The maximum continuous installation size is: **12m x 12m**

Transition mouldings are required at all doorways.

1.2 TOOLS

For all installation methods:

- Saw
- Safety glasses
- Dust mask / PPE
- 10mm spacers
- Utility knife
- Straight edge or T-square
- Pencil
- Tape measure
- Adhesive tape
- Rubber mallet
- Silicone sealant
- Foam underlay (where required)
- Minimum 6 mil polyethylene moisture barrier for concrete installations

If existing skirting boards cannot be removed, quarter-round moulding may be required to cover the expansion gap.

1.2 SUITABLE TYPES OF FLOORS AND FLOOR PREPARATION

The subfloor must be flat, dry, clean, structurally sound, and free from contaminants including paint, wax, grease, oils, dust, and adhesive residue.

Subfloors must not exceed:

- 5mm variation within 3 metres

- 3mm variation within 1.8 metres

Areas exceeding these tolerances must be levelled using an appropriate Portland cement-based floor leveller.

Underlay Requirements

For products without attached underlay, a foam underlay not exceeding 3mm in thickness must be installed. Acoustical underlayments must meet applicable laminate flooring performance standards.

Concrete Subfloors

Installation is permitted over concrete at all grade levels when a suitable moisture barrier is installed.

Requirements:

- Minimum 6 mil polyethylene vapour barrier
- Concrete must be cured for a minimum of 90 days
- Moisture emission must not exceed 5 lbs / 1000ft² / 24 hours (ASTM F1869)
- Relative humidity must not exceed 75% (ASTM F2170)

All holes, cracks, grooves, and irregularities must be repaired and levelled before installation.

Wood Subfloors

Wood subfloors must:

- Be structurally sound
- Be flat and level
- Show no excessive movement or deflection
- Be suspended at least 450mm (18") above ground level
- Have adequate crawlspace ventilation
- Have an effective vapour barrier where required

Excessive subfloor movement may result in squeaking, gapping, locking system failure, and premature wear.

Existing Flooring

This product may be installed over:

- Existing hardwood flooring
- Non-cushioned sheet vinyl
- Vinyl tile
- Ceramic tile
- Marble
- Terrazzo

Existing floors must be:

- Well bonded
- Structurally sound
- Clean and dry
- Free from excessive moisture

Large grout joints should be levelled before installation.

This product must not be installed over:

- Carpet
- Heavily cushioned flooring
- Multi-layer cushioned vinyl flooring

1.3 UNDERFLOOR HEATING

Frontier Series Laminate may be installed over embedded hydronic (water-based) radiant heating systems.

Requirements:

- Floor surface temperature must never exceed 27°C
- Heating system must run at maximum temperature for several weeks before installation to remove residual moisture
- Heating system must be turned off for 48 hours before, during, and 48 hours after installation

- Following installation, temperature must be increased gradually at no more than 2.8°C (5°F) every 24 hours. Electric heating systems located directly beneath the flooring surface are not recommended and may void the warranty.

2 INSTALLATION

2.1 GENERAL INSTRUCTIONS

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. IMPROPER INSTALLATION WILL VOID THE WARRANTY.

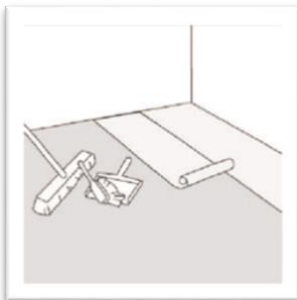
Inspect all planks under good lighting conditions before installation.

Use planks from a minimum of three cartons to provide natural colour variation.

Maintain a minimum expansion gap of 10mm around:

- Walls
- Cabinets
- Fireplaces
- Pipes
- Heating vents
- Door frames
- Transition areas
- Any fixed vertical structure

Installation Steps



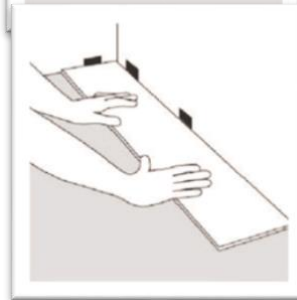
Step 1

If the product does not include an attached underlay, install foam underlay according to the manufacturer's instructions. Run underlay in the same direction as the flooring and tape seams together.



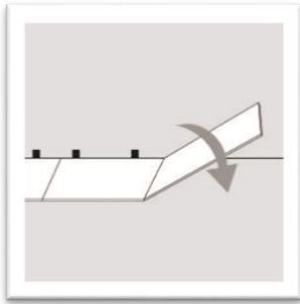
Step 2

Starting along the first wall, remove the tongue from the long edge of all boards facing the wall. Seal all cut edges with silicone sealant.



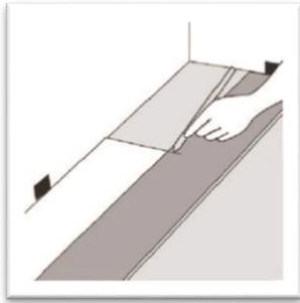
Step 3

Beginning in the left-hand corner, place the first plank with the trimmed edge facing the wall. Use 10mm spacers to maintain expansion space.



Step 4

Insert the short-end tongue of the second plank into the short-end groove of the first plank at an angle and lower into place. Continue the first row.



Step 5

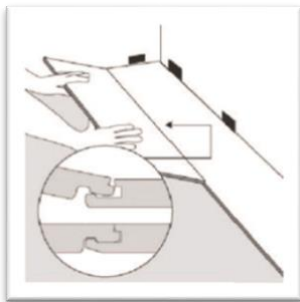
Continue connecting the first row until you reach the last full plank. Fit the last plank by rotating the panel 180 degrees with the pattern side upward, place beside row, mark and then saw off excess. Attach as described above.



Step 6

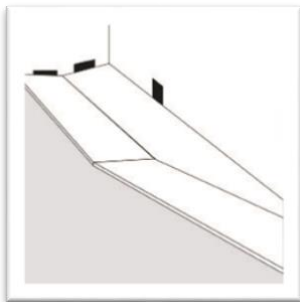
Begin the second row using the offcut from the previous row where practical, to stagger the pattern.

- Minimum plank length: 200mm
 - End joint stagger: minimum 400mm
- Avoid repeating patterns, stair-step layouts, or H-joints.



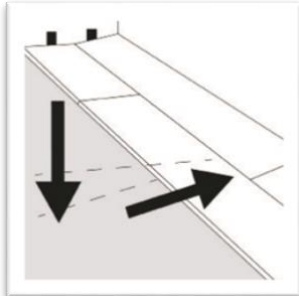
Step 7

Insert the long edge tongue into the groove of the previous row at approximately 30 degrees and lower into position.



Step 8

Attach the second plank of the new row by aligning the short side tongue of the second plank with the groove of the first plank while keeping the long side edge about a quarter inch away from the first row. Continue laying remaining panels in this manner.



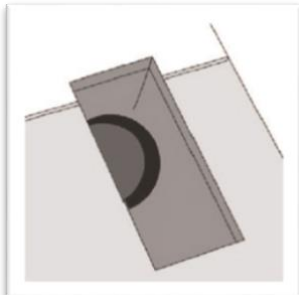
Step 9

Continue across the room while maintaining tight joints and expansion gaps. Angle the two pieces up by about 20 degrees and then as the second-row plank into position tight to the first-row plank, using a tapping block if needed. Tap the plank three times, first where the two planks meet, second across from the joint in the previous row and third at the far side of the plank.



Step 10

To fit the last row, lay a plank on top of the previous row. With the tongue to the wall, lay another plank upside down on the one to be measured and use it as a straight edge. Don't forget to allow room for the expansion spacers. Cut the plank and attach into position.



Step 11

Door frames and heating vents require expansion space. Measure carefully and cut planks to allow for movement around all fixed objects. Install appropriate transition mouldings at the doorways, allowing a minimum 10mm expansion space.



Step 12

Undercut door frames using a handsaw so planks may slide underneath without restricting floor movement.

Replace/install all mouldings, baseboards etc. Ensuring that they are nailed into the wall not the floor, and that they not pinched tight to the flooring.

2.2 COMPLETION

After installation:

- Remove all spacers.
- Install skirting boards and trims without fastening them to the floor.
- Install transition mouldings at all doorways.
- Ensure mouldings allow unrestricted floor movement.

When moving furniture onto the floor:

- Use protective sliders.
- Use hardboard runways for heavy items.
- Fit felt pads to all furniture legs.

3 CLEANING AND MAINTENANCE

3.1 MAINTAINING YOUR FLOOR

For routine maintenance:

- Sweep or vacuum regularly using soft-bristle attachments.
- Clean with a damp mop or cloth and clean water.
- Wipe spills immediately.
- Dry excess moisture promptly.

Never Use:

- Floor wax
- Oil-based cleaners
- Polish
- Soap-based products
- Steam cleaners
- Abrasive cleaning products

These products may damage the flooring surface and are not considered manufacturing defects.

3.2 PREVENTATIVE CARE

- Use felt protectors on furniture legs.
- Use entrance mats at external doors.
- Avoid rubber- or latex-backed mats.
- Keep pet nails trimmed.
- Never drag heavy furniture across the floor.
- Avoid prolonged exposure to standing water.
- Protect flooring from excessive direct sunlight through blinds, curtains, or UV window treatments.
- Maintain indoor conditions between 17°C and 24°C and 40%-65% relative humidity.

For bathrooms, laundries, and other potentially wet areas, seal all perimeter expansions with premium 100% silicone sealant.

4 WARRANTY

4.1 WARRANTY INFORMATION

Warranty coverage applies to manufacturing defects and approved residential and light commercial installations when installed and maintained in accordance with these instructions.

RESIDENTIAL: 20 years

LIGHT COMMERCIAL: 5 years

Definitions

“Wear” means wear through the decorative surface to the extent that the visual pattern is affected.

“Stain” means permanent staining resulting from normal household usage and routine maintenance products.

“Water Damage” means structural damage to the flooring caused by normal household exposure to moisture under covered warranty conditions. Flooding, standing water, subfloor moisture issues, plumbing failures, and moisture intrusion from external sources are excluded.