



# Origin Plank

## *Installation Guide*

**HØRNING Origin Plank** is made from carefully selected wood.

This unique solid floor is available in special dimensions in a thickness up to 35 mm, width up to 40 cm and lengths up to 16 m.

### **Highlighted Features:**

- A unique flooring solution that will make the room appear bigger and longer
- An exceptionally durable solid wooden floor, crafted to last for generations
- The option to install on joists
- Documented sustainability credentials towards certifications such as BREEAM, DGNB, and LEED through EPDs and Eurofins

If you have any questions or need advice, please don't hesitate to contact us.

# Origin Plank

## Installation Guide

### 1. Receipt of Goods & Quality Control

Conduct a thorough inspection of the received flooring and any accessories. Check the goods for defects and deficiencies before signing the delivery note.

Upon delivery, the building must be enclosed, dry, and heated. The indoor climate must be within the applicable tolerances. The products must be brought inside immediately and must not be stored outside under any circumstances.

The flooring should be acclimatised in the room where it will be installed. Any claims for visible defects must always be made in writing before installation, but no later than 8 days after receipt. *An installed floor is considered an approved floor.*

### 2. Preparation

The temperature in the rooms must be consistently between **18-24°C** and the relative humidity always between **35-65%** both before, during, and after installation. Low humidity, i.e., 35% RH or lower, increases the risk of cracks in the wooden floors, which is not covered by the warranty.

The building must be closed, heating systems installed and operating. The residual moisture in the concrete subfloor must be a maximum of 85% and a maximum of 65% with underfloor heating. All work that can add moisture to the building must be completed before the installation of wooden floors begins, e.g., masonry and painting work.

Wooden floors and any adhesive must be acclimatised in unopened packaging in the rooms where they will be installed for **2-3 days** or until the floors' temperature matches the room temperature, which may take longer than 72 hours.

If the work continues over several days, any opened packages must be sealed during extended breaks so they are sealed until the work resumes.

### 3. Underfloor Heating

Most underfloor heating systems today are of a type that can be used with wooden floors. The system must ensure an even temperature on the floor surface. Heating pipes must not be in direct contact with the wooden floor. The system must be pressure tested and regulated, the hose distribution in all areas must be checked, and thermostats must be functioning. The supply must be automatically controlled and have a safeguard to ensure the supply temperature is not exceeded.

Underfloor heating systems in concrete floors must have been operational for at least 2 weeks before installing the wooden floor with a supply temperature of a maximum of 25 degrees.

**NB:** The supply temperature must be reduced to a maximum of 20 degrees at least 2 days before installation begins. Underfloor heating systems in dry underfloor heating plates can be started after the wooden floor is installed.

The underfloor heating system must be started slowly to avoid damaging the wooden floor. The supply temperature should be gradually increased no earlier than 72 hours after the wooden floor installation is completed and in a manner that increases the temperature by 1-2 degrees per day. During the first week, the supply temperature must not exceed 25 degrees. Subsequently, the supply temperature can be increased by up to 5 degrees every second or third day until the desired surface temperature is reached.

The room temperature must be 18-24 degrees both before, during, and after installation. The surface temperature of the floor must never exceed 27 degrees - not even under carpets or furniture. Higher temperatures increase the risk of damage to the wooden floor due to greater movements in the wood in the form of shrinkage and expansion, which is not covered by the warranty.

**NB:** Wood species such as maple, beech, birch, jatoba, and wenge may react to underfloor heating with more significant movements than other wood species, which can lead to increased cracks both in and between the individual floor components, which are natural and therefore not covered by the warranty.

### 4. Acoustics & Sound Absorption

Impact sound acoustics can be improved by using HØRNING Acoustic Underlay on the subfloor. HØRNING Acoustic Underlay is fully glued to the subfloor with the same adhesive used for glueing the floor. Use the correct adhesive trowel depending on residual moisture. The adhesive under the acoustic underlay must cure for at least 48 hours before the floor is fully glued to the surface of the acoustic underlay. HØRNING Acoustic Underlay is a specially developed product for installation under fully glued wooden floors.

**NB:** HØRNING Acoustic Underlay is not a moisture barrier.

### 5. Shrinkage & Expansion

The moisture content in wooden floors will always seek to balance with the relative humidity (RH) and temperature of the air. The wood absorbs and releases moisture with changes in relative humidity. This occurs in all wooden floors, but the movement of the wooden floor in the form of shrinkage and expansion depends on the product type, wood species, thickness, and surface treatment.

In practice, it is often necessary to know how much a floorboard or an entire floor shrinks or expands. As a realistic average for a range of commonly used solid wooden floors such as pine, beech, oak, ash, bilinga, and walnut, a movement in width of the individual parquet block, plank, or similar can be calculated at +/- 0.22% of the product's width for a change in the wood's moisture content of 1%.

# Origin Plank

## Installation Guide

Solid planks/parquet strips need to be able to expand during use over the different seasons, with the temperature and humidity changes that occur in buildings.

The following 10-board measurement indicates the expected width of 10 floorboards/parquet strips of hardwood in the most humid permissible usage condition at 65% RH. In practice, the installer often makes a specific situational assessment of whether moisture towards 65% may occur. If it is assessed not to be relevant, the installer may choose to disregard the 10-board measurement at their own risk.

Used for installation in staggered pattern, sequence pattern, or ladder pattern.

Product Type	10-Plank Measurement Eg	10-Plank Measurement Douglas
Origin Plank - 200 mm	2013 mm	2015 mm
Origin Plank - 220 mm	2215 mm	2217 mm
Origin Plank - 240 mm	2416 mm	2418 mm
Origin Plank - 250 mm	2517 mm	2519 mm
Origin Plank - 270 mm	2718 mm	2720 mm
Origin Plank - 300 mm	3020 mm	3023 mm
Origin Plank - 350 mm	3523 mm	3526 mm
Origin Plank - 400 mm	4026 mm	4030 mm

**NB:** The above 10-plank measurements are at a room temperature of 20°C.

### 6. Cast Subfloor

Cast subfloors, including concrete and anhydrate, must be clean, dry, solid, level, and adhesive. To test the subfloor's solidity, scratch and pull tests can be performed. Hørning recommends conducting an adhesion test in the form of a pull test, which should show a durability of at least 1.5 MPA. Refer to DS/EN 13813.

Use a 2-meter straightedge and thoroughly check the entire area. If there are uneven spots of more than +/-2 mm, these must be corrected.

Documentable measurements must be taken before installation. As there will be a +/- tolerance in moisture measurements in practice, it is recommended to start the installation when the residual moisture is 3-5% below the values indicated below.

The residual moisture in the concrete subfloor must be a maximum of 85%, and a maximum of 65% with underfloor heating. The subfloor must be moisture proof, and rising or penetrating moisture must be prevented. Always use HØRNING Moisture Barrier.

### 7. Panel Subfloor / Installation on Joists

HØRNING Origin Plank cannot be installed directly on joists.

The maximum joist spacing is 600 mm – or 450 mm for end grain flooring and end grain mosaic – when using a panel subfloor. The panels must be joined over the joists, not between them.

Different types of panel floors can be used, but they do not all have the same stability and tensile strength. Two layers are stronger and more stable than one layer. When installing panels in multiple layers, the joints in the layers must be staggered. The panels must be glued in tongue and groove. Plywood is stronger and more stable than chipboard.

The panel floor must be at least the same thickness as the wooden floor – however, the minimum thickness for waterproof (WBP) plywood is 18 mm or chipboard 22 mm. **Follow the panel supplier's installation guide.**

Joist systems made of other materials such as aluminium or synthetic material must meet the same requirements for strength, solidity, levelness, and adhesion as wood-based joist systems as described in this document.

Combined joist systems such as RAF-raised access floor system must, as a combined solution, meet the same requirements for strength, solidity, levelness, and adhesion as wood-based joist systems as described in this document.

When fastening the combined joist systems to the subfloor, the requirements for the subfloor's solidity and adhesion must be met. This also applies to raised access floor system (RAF system). Follow the subfloor supplier's installation instructions.

To prevent moisture damage to panel subfloors with wood blocks, a moisture barrier must always be installed on ground slabs and cast concrete floors to protect against residual construction moisture.

Floor Thickness	Residence 2,0 kN <sup>1</sup>	Commercial 2,5 kN <sup>1</sup>
20 mm	500 mm	460 mm
22 mm	600 mm	530 mm
25 mm	720 mm	640 mm
28 mm	850 mm	760 mm
30 mm	950 mm	850 mm
35 mm	1190 mm	1070 mm

1. Point Load Q<sub>k</sub>.

# Origin Plank

## Installation Guide

### 8. Installation Direction

Wooden floors are usually installed in the same direction as the window light enters the room (i.e., **perpendicular** to the window). In long narrow rooms, the rows should be installed in the length direction of the room. The floor looks best if the strips are installed symmetrically on the floor. Therefore, measure the floor before installation so that the adjustment pieces at the walls are even. See point 16. Illustrations.

### 9. Starting

It can be advantageous to fasten a stop strip to the subfloor, installed perpendicular to the walls, so that the rows do not shift in the wet adhesive during installation.

Mix wood flooring from several packages to give the floor a harmonious appearance. Open 3-4 packages, check the boards for any damage and defects. Boards with minor defects can be used along walls, and larger defects can be cut off so the boards can be used as the start or end of a row. Do not open more packages than can be installed in 1-2 hours, as any moisture absorption can make installation difficult.

Cut door frames so the parquet can go under them.

### 10. Gluing

It is recommended that the wooden floor be fully glued.

The strips are pressed down into the wet adhesive and pushed slightly together, without adhesive coming up between the rows, as this can cause uneven cracking, as the rows' ability to move individually is hindered. Adhesive should not be applied to larger areas than can be installed within approximately 20 minutes. Do not glue in the tongue and groove.

Always use HØRNING Moisture Barrier when fully gluing on cement-based substrates.

For fully glued wooden floors, gluing should be done with HØRNING MS Flexlim III ECO on subfloors with residual construction moisture up to 85% RH without underfloor heating and 75% with underfloor heating. Alternatively, use a similar adhesive type that meets the specified requirements.

**NB:** HØRNING MS Flexlim III ECO is not a moisture barrier!

### Table of Recommended Quantities:

Product Type	Max. Moisture in subfloor	Underfloor Heating	Min. Applied Litres Per m <sup>2</sup>	Notched Trowel
Solid Wood Parquet Flooring	Up to 85%	No	0.8 Litres/m <sup>2</sup>	5
Solid Wood Parquet Flooring	Up to 65%	Yes	0.6-0.8 Litres/m <sup>2</sup>	5
All Other Solid Wood Parquet Flooring + Engineered Plank	Up to 85%	No	1.0 Litres/m <sup>2</sup>	6
All Other Solid Wood Parquet Flooring + Engineered	Up to 65%	Yes	0.6-0.8 Litres/m <sup>2</sup>	5

If adhesive gets on the surface, remove the wet adhesive immediately. Ensure all adhesive is removed so that no adhesive film is visible afterwards.

The trowel must always be held at a 45-degree angle during application. The adhesive must form a full-coverage film when the wooden floor is pressed down. Insufficient adhesive will result in the wooden floor not being adequately secured and moisture from the subfloor may rise unintentionally. Place sandbags or weigh down with other heavy objects on pressure distributing planks/boards (especially along the edges) until adhesive has cured. The floor must not be walked on during the adhesive curing process, i.e., loading must only take place 48 hours after installation.

### 11. Screwing & Nailing

If a solution is desired that allows the floors to be dismantled and **reused**, the wooden floor can be screwed into the subfloor of sufficient thickness to ensure adequate holding strength.

Screwing must be done using suitable floor screws with partial threads with a minimum length of 2 times the thickness of the wooden floor. See the table below. Screwing can be done vertically or concealed.

When screwing hardwood floors such as oak and ash, as well as exotic hardwoods, pre-drilling is required using a drill bit with a diameter of 70-80% of the screw's outer thread diameter.

When screwing from above into solid oak or ash planks of 20-22 mm, the pilot hole depth must be 7-8 mm. For planks of 23-30 mm, the pilot hole depth must be 10 mm.

When screwing into chipboard subfloors, the screws must be long enough to penetrate through the underside of the chipboard. Nails and staples must not be used on chipboard, as the risk of creaking and insufficient adhesion is high.

For choice of screws and nails, refer to point 15.

# Origin Plank

## Installation Guide

### 12. Joints, Distance to Walls, etc.

There should normally be a minimum distance of 10 mm between wooden floors and walls, pipes, stairs, fixed installations, etc. Use spacers and leave them in place until the adhesive is completely dry. The rule for calculating the expansion joint is 1.5 mm per meter width of the floor, but always a minimum of 10 mm.

Wooden floors expand and contract depending on the room's climate. In some cases, an expansion joint is necessary. This applies, among other things, to:

- Where there are expansion joints in the subfloor.
- At fixed door frames and walls in cases where the floor is installed through several rooms - 20 mm joint.
- In areas with climatic variations on the floor surface, e.g., if there is only underfloor heating in part of the area.

**Some projects may require specific distance specifications. Contact Hørning for more information.**

Expansion joints and gaps are filled with a permanently elastic material, such as HØRNING cork strips, sealant, or by using a special profile. Always follow the manufacturer's instructions.

### 13. Sanding

HØRNING Origin Plank is delivered untreated.

Before sanding begins, the building must be enclosed, dry, and heated.

Remove the spacers when the adhesive has cured.

Sanding of untreated fully glued floors can begin no earlier than 2-4 days - in some cases up to 7 days after installation, depending on the room's climatic conditions and the adhesive curing time.

**NB:** If the untreated floor is not surface-treated without undue delay, it must be covered with suitable floor paper. The covering must be vacuumed before removal.

Always finish with a minimum of grit 120. Always use suitable and well-maintained equipment.

Always deliver the floor flat and even without noticeable transitions between strips/planks. The sanded floor should appear without visible sanding marks or transitions between surfaces and edges/corners.

### 14. After Installation

Surface treatment must be carried out without undue delay after sanding. An untreated floor will always be at risk of reacting to the climatic surroundings as long as the surface is not sealed.

Surface treatment of the floors after installation is carried out according to the manufacturer's instructions, and it must be ensured that the oil or lacquer is completely cured before the floor is covered or walked on. Always protect the floor carefully with floor paper or other suitable material. Should further construction take place after installation and surface treatment, the floor must be thoroughly protected from dirt and pressure marks.

Hørning recommends that pre-oiled floors from factory are always re-treated with maintenance oil for the best result. However, this does not apply to UV-oiled floors. As the oil cures upon contact with air, the surface must not be washed or exposed to water for at least 14 days after installation/latest oiling. Always use small amounts of water!

Lacquered floors are washed with a neutral non-maintenance detergent. That is, a pH value of 7-9 in diluted form. It is advantageous to use a well-wrung cloth, preferably of the microfiber type, to minimise the chance of overdosing water, which always damages a wooden floor.

Always clean the floor thoroughly before use.

### Extend Lifespan

To maintain a nice surface and minimise the need for maintenance, underlays should be placed under office chairs. All chair and table legs, as well as other objects that can scratch or mark the surface, should be fitted with felt pads and rubber wheels. Remember to regularly inspect and clean the felt pads and replace them if they become worn. Be aware that latex-containing pads, mat backs, and black rubber wheels can discolour the surface of the wooden floor. Avoid any form of soiling. Use mats at entrance doors, etc. Vacuum and clean the floor regularly after use.

*The installation guide is based on many years of experience and accommodates the most normal conditions in most building constructions.*

*Hørning assumes no legal responsibility in connection with this advisory information. If you are unsure how to install the floor, contact Hørning.*

**Always ensure compliance with local standards.**

### Hørning Parket A/S

Christiansmindevej 12  
DK-8660 Skanderborg

T: +45 7027 6600  
W: [horningfloor.com](http://horningfloor.com)  
E: [sales@horningfloor.dk](mailto:sales@horningfloor.dk)



epdanmark

FSC® and/or PEFC available upon request.  
Eurofins Indoor Air Comfort Gold certified.  
EPD available upon request for selected products.

# Origin Plank

## Installation Guide

### 15. Dimensions of Screws & Nails

Minimum dimensions for screws, lost head nails and nails when fixing Origin Plank flooring to subfloors. Chipboard subfloors must always be fixed using screws. Hardwood must be pre-drilled.

Floor Type				Floor Thickness				
	Subfloor	Note	Fixings	14-16 mm	20-22 mm	23-25 mm	28-30 mm	32-35 mm
Solid Douglas / Pine	Joists/Battens		Screws - concealed <sup>1</sup>	-	4.2 x 45 mm	4.2 x 55 mm	4.2 x 75 mm	4.2 x 75 mm
			Screws - from above	-	-	-	5.0 x 60 mm	5.0 x 60 mm
			T-nails	-	1.6 x 63 mm	-	-	-
			Ring-shanked machine nails	-	2.1 x 50 mm	2.8 x 63 mm	2.8 x 63 mm	2.8 x 75 mm
	Panel Subfloor	Plywood, chipboard, and timber boards	Screws - concealed <sup>1</sup>	4.2 x 35 mm	4.2 x 45 mm	4.2 x 55 mm	4.2 x 75 mm	4.2 x 75 mm
		Plywood, chipboard, and timber boards	Screws - from above	-	-	-	5.0 x 40 mm	5.0 x 40 mm
		Not for chipboard	T-nails	1.6 x 45 mm	1.6 x 63 mm	-	-	-
		Not for chipboard	Ring-shanked machine nails	2.1 x 40 mm	2.1 x 50 mm	2.8 x 63 mm	2.8 x 63 mm	2.8 x 75 mm
Solid Oak / Ash	Joists/Battens	Not for chevron or whalebone	Screws - concealed <sup>1</sup>	-	4.2 x 45 mm	4.2 x 55 mm	4.2 x 75 mm	4.2 x 75 mm
		Not for chevron or whalebone	Screws - from above	-	-	5.0 x 60 mm	5.0 x 60 mm	-
		Not for chevron or whalebone	T-nails	-	1.6 x 63 mm	-	-	-
		Not for chevron or whalebone	Ring-shanked machine nails	-	2.2 x 45 mm	-	-	-
	Panel Subfloor	Plywood, chipboard, and timber boards	Screws - concealed <sup>1</sup>	-	4.2 x 45 mm	4.2 x 55 mm	4.2 x 75 mm	4.2 x 75 mm
		Plywood, chipboard, and timber boards	Screws - from above	-	-	5.0 x 40 mm	5.0 x 40 mm	-
		Not for chipboard	T-nails	-	1.6 x 63 mm	-	-	-
		Not for chipboard	Ring-shanked machine nails	-	2.1 x 50 mm	-	-	-
Engineered Castleplank	Joists/Battens	Not for chevron or whalebone	Screws - concealed <sup>1</sup>	-	4.2 x 45 mm	-	-	-
		Not for chevron or whalebone	Staple <sup>2</sup>	-	12 x 50 mm	-	-	-
		Not for chevron or whalebone	Ring-shanked machine nails	-	2.1 x 50 mm	-	-	-
	Panel Subfloor	Plywood, chipboard, and timber boards	Screws - concealed <sup>1</sup>	-	4.2 x 45 mm	-	-	-
		Not for chipboard	Staple <sup>2</sup>	10 x 45 mm	12 x 50 mm	-	-	-
		Not for chipboard	Ring-shanked machine nails	-	2.1 x 50 mm	-	-	-

1. For concealed fixing, screws of flexible type or flooring profile screws are recommended.

2. Strips applied with adhesive.

**Follow the panel supplier's installation guide.**

#### Hørning Parket A/S

Christiansmindevej 12  
DK-8660 Skanderborg

T: +45 7027 6600

W: [horningfloor.com](http://horningfloor.com)

E: [sales@horningfloor.dk](mailto:sales@horningfloor.dk)



epdanmark

FSC® and/or PEFC available upon request.  
Eurofins Indoor Air Comfort Gold certified.  
EPD available upon request for selected products.

# Origin Plank

## Installation Guide

### 16. Illustrations

#### Joist Construction



1. Putting joists on chocks can be done using plastic blocks and wedges. In case of risk of rising moisture from the subfloor, a 0.2 mm plastic sheet should be laid and taped with a 20 cm overlap.



2. The chock distances for floor joists depend on load level, joist dimensions, and joist type (sawn/laminated joists). For private residences, offices, and light commercial use, the general chock distances apply to sawn softwood joists. At joist ends, chock distances must be reduced by 10%. **See point 7 and 12 above for distances.**



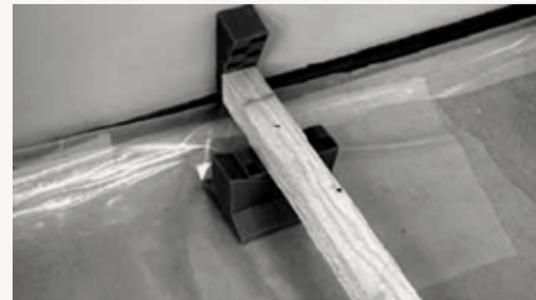
3. Lay the first row of joists with a 50 mm clearance from the wall. The joists should be put down with a centre distance depending on the floor load level.



4. The joists must be completely level +/- 2 mm per 2 m.



5. Secure the chocks to the joists with nails. Nail vertically or diagonally into the joist.



6. The distance from joist ends to walls should be approx. 10 mm.



7. Joists that are joined must be supported by a chock and joined with min. 300 mm fishplates on both sides of the joist, e.g., fishplates of plywood 12 x 400 mm screwed with min. 12 screws in each plate. Furthermore, joints in the joist structure must be staggered to achieve a stable base. Remember to glue the joints.



8. To ensure the planks are aligned in a straight line, install a stop strip approx. one plank width + 10–15 mm from the wall.

# Origin Plank

## Installation Guide

### Laying of Joists in General

The joist structure can be built from, e.g., min. 40x39 mm laminated joists or 45x45 mm sawn softwood joists of approved pine with a moisture content of max. 12%. If underfloor heating is installed between the joists, they should have the same moisture content as the wooden floor, i.e., 8% +/- 2%. As an alternative to plastic wedges, the chocks can consist of 3 mm rubber granulate and a waterproof plywood plate pressed into a concrete mass. Another option is a system with adjustable legs.

The joints in the joist structure must be staggered to achieve a stable base. You can lay paper on the joists to avoid creaking. Insulation can be laid between joists in accordance with the manufacturer's instructions. HØRNING planks can be nailed or screwed directly onto the joists. Follow the instructions below.



1. Start by laying the first plank against a straightedge. Planks should be nailed with a nail gun at a 45° angle. Glue all end joints. See point 11 for choice of fasteners.



2. The 10-Plank Measurement must be observed, and spacers of 0.3 or 0.6 mm thickness can be used to allow the floor to expand during the humid season. You can choose to pre-drill and fasten the floor with floor screws instead of nails.



3. Use a tapping block during installation.



4. Avoid flying joints as much as possible; joints must not be in the same joist bay and must be at least 600 mm apart. There must be at least two continuous planks after each flying joint.



5. Always glue the end joints. Never glue tongue and groove. Do not glue on joists.



6. Always use a tapping block or crowbar. Be careful with the wall during installation.



7. Concealed Installation:  
Drill each plank after marking a line on the floor with chalk over the center of each joist.

# Origin Plank

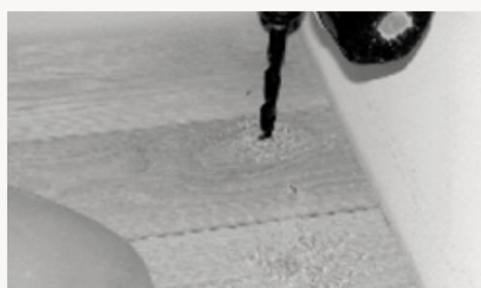
## Installation Guide



8. Concealed Installation:  
Drill precisely and maintain the same distance from the edge. Ensure the drill is sharp. Screw using floor screws at a 45° angle into the tongue. Once the floor is installed, it can be sanded and finished with lacquer or oil.



9. Installation from Above:  
Once the holes are drilled, you can start screwing the floor. Drill 10 mm deep for plugs, 25 mm from the edge with a 15 mm plug drill with center guide.



10. Installation from Above:  
Screwing must be done using suitable floor screws with partial thread, with a length of at least twice the thickness of the wooden floor. Screwing can be done vertically or with concealed fixing.



11. Installation from Above:  
Glue the plugs, ensure glue around the entire plug, let it dry, and sand afterwards. Do not use a chisel, as you risk damaging both the plug and the surrounding wood.

### Installation on Joists in General

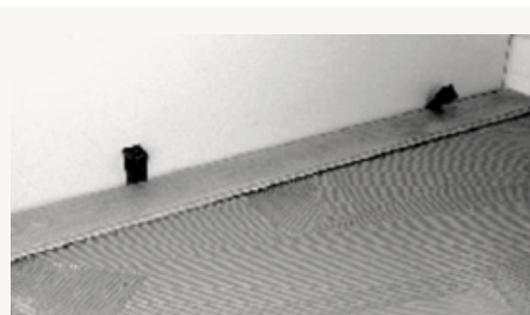
Always use a good tapping block or tapping iron. If the plank pieces are slightly warped, it may be necessary to wedge the planks during installation. When screwing, it may be necessary to pre-drill each plank at 45° with a suitable drill before fastening. Make a test screw first.

### Concrete or Thin Screed

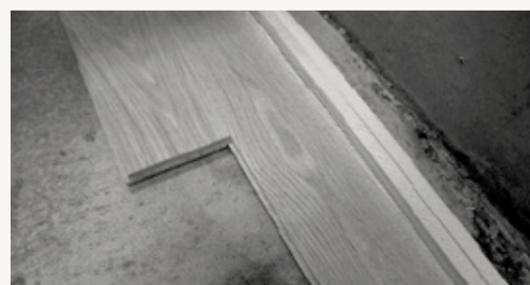
For subfloors of concrete or thin screed, planks can be fully glued. The underlying subfloor must be completely level, i.e., max. +/- 2 mm over 2 m, measured with a straightedge. To achieve the correct levelness, the floor can be leveled by filling or possibly with a board (chipboard or plywood).

Full gluing is done on a clean and stable surface. Check good adhesion, control with 1.5 MPa, and ensure moisture in concrete is below 85% RH. When using HØRNING MS Flexlim III Eco, residual moisture up to 85% is allowed. Use trowel no. 6. Consumption: 1 litre per m<sup>2</sup>.

### Direct Installation on Concrete, Levelled Floor, or Floating Installation



1. Use wedges to adjust the alignment of planks in the first row.



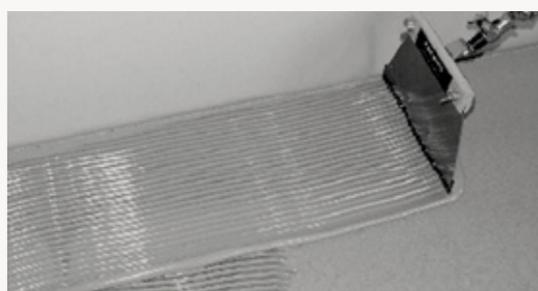
2. Alternatively, a stop strip can be screwed to the subfloor (one plank width + 10–15 mm from the wall); the first row is then laid last, ensuring a straight line against the wall.



3. The 10-Plank Measurement must be observed to allow the floor to shrink and expand without displacement.

# Origin Plank

## Installation Guide



4. Apply HØRNING MS Flexlim III Eco using trowel no. 6. Approximately 1 litre per m<sup>2</sup> should be applied. Do not apply more adhesive than can be installed within 20 minutes. Installation must be carried out in wet adhesive. Adhesive must not be forced up between the planks, and tongue and groove must not be glued.

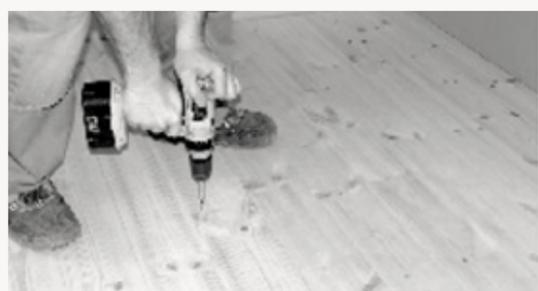


5. During gluing, it is important that the planks are continuously weighted during installation to ensure optimal adhesion to the subfloor. HØRNING MS Flexlim III Eco must dry for 48 hours before sanding and surface treatment can begin.

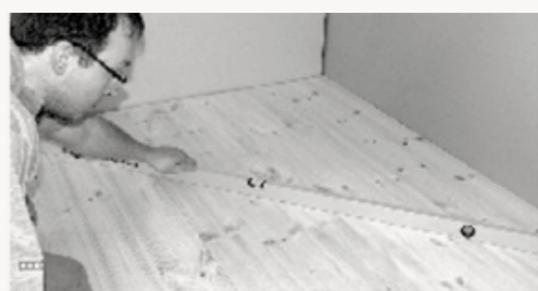
### Installation on Existing Wooden Floor

To achieve the correct levelness, the subfloor must be planed, levelled, or possibly covered with a board.

The planks can be screwed or glued. The surface must be completely clean of grease and dirt before installing the planks.



1. The subfloor must be stable and free from creaking. If necessary, re-screw.



2. The subfloor must be level +/- 2 mm per 2 m, measured with a straightedge. For uneven floors: plane, level, or lay a board (chipboard or plywood).



3. Remember to put down floor paper between the two floors (only when screwing) to avoid creaking. Planks should be installed in the opposite direction to the existing floor.



4. When gluing, it is important that the planks are continuously weighted during installation to ensure optimal adhesion to the subfloor. HØRNING MS Flexlim III Eco must dry for 48 hours before sanding and surface treatment can begin.

### Installation of Planks on Panels

HØRNING Planks can be installed on both plywood and chipboard. The underlying subfloor must be completely level, i.e., max +/- 2 mm per 2 m measured with a straightedge. For wooden subfloors, planks can be fully glued or screwed. See point 7.

To reduce creaking and sound resonance, install a 500 g flooring paper or other sound insulation between the subfloor and the existing floor (when screwing).

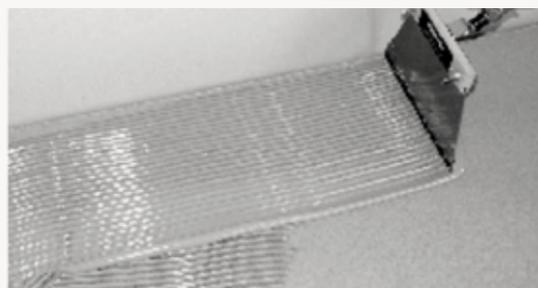
### Gluing on Panel Floor



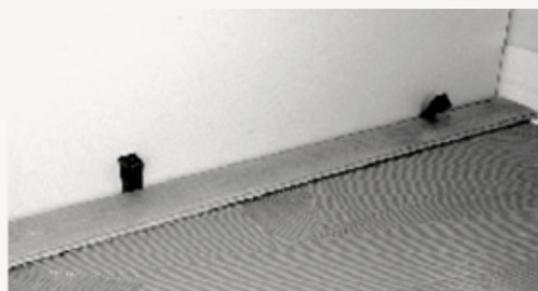
1. The 10-Plank Measurement must be observed, and spacers can be used if necessary. This ensures the floor has room to expand during the humid season.

# Origin Plank

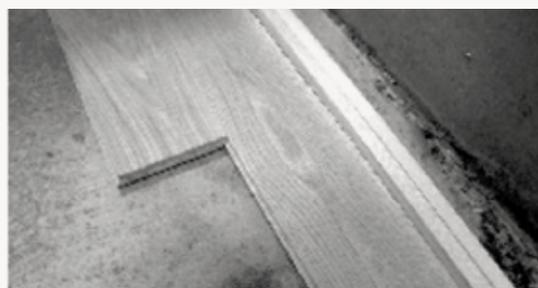
## Installation Guide



2. Apply HØRNING MS Flexlim with trowel no. 6. Approximately 1 litre per m<sup>2</sup> should be applied. Do not apply more adhesive than can be installed within 20 minutes. Installation must be carried out in wet adhesive. Adhesive must not be forced up between the planks, and tongue and groove must not be glued.



3. Use wedges to adjust the alignment of planks in the first row.



4. Alternatively, a stop strip can be screwed to the subfloor (one plank width + 10–15 mm from the wall); the first row is then laid last, ensuring a straight line against the wall.

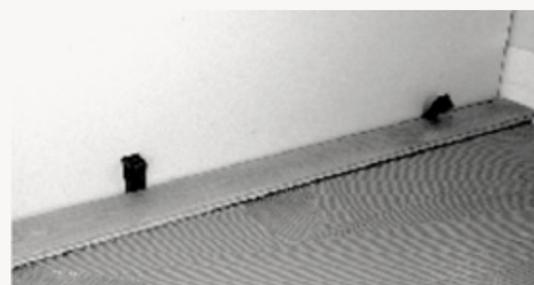


5. During gluing, it is important that the planks are continuously weighted during installation to ensure optimal adhesion to the subfloor. HØRNING MS Flexlim must dry for 48 hours before sanding and surface treatment can begin.

### Screwing on Panel Floor



1. The 10-Plank Measurement must be observed, and spacers of 0.3 or 0.6 mm thickness can be used if necessary. This ensures the floor has room to expand during the humid season.



2. Use wedges to adjust the first row so it is perfectly straight.



3. Alternatively, a stop strip can be screwed to the subfloor (one plank width + 10–15 mm from the wall); the first row is then laid last, ensuring a straight line against the wall.



4. Concealed Installation:  
Screw using floor screws at a 45° angle into the tongue. Once the floor is installed, it can be sanded and finished with lacquer or oil.

### Hørning Parket A/S

Christiansmindevej 12  
DK-8660 Skanderborg

T: +45 7027 6600  
W: [horningfloor.com](http://horningfloor.com)  
E: [sales@horningfloor.dk](mailto:sales@horningfloor.dk)



epdanmark

FSC® and/or PEFC available upon request.  
Eurofins Indoor Air Comfort Gold certified.  
EPD available upon request for selected products.