



PRODUCT DESCRIPTION

5.3 mm Thick 177.8mm wide X 1220mm long SPC Rigid Core Vinyl Planks

GRADE LEVELS

Above Grade/on Grade

Below Grade

This product can be installed on, above or below grade levels.

INSTALLATION METHOD

Glueless Floating-click-lock

This product should be installed using click lock floating method. It should not be fastened to the floor with glue, staple or nail.

INSTALLATION ENVIRONMENT

This product must be installed indoors in a controlled normal living environment.

Prior to installation rack up planks from several boxes to ensure uniform distribution of colors shades and characters in the installed flooring. The installation of KROYA does not require acclimation. However we recommend installation in rooms with temperature between 18°C & 24°C. The HVAC system must be on and functional before, during, and after installation.

HANDLING

SPC is a very dense product. This results in durability, but the product is heavy. Use care and proper lifting methods when handling SPC.

DO NOT INSTALL IN ALL exterior installations; seasonal porches, boats, campers, RV's, sunrooms, non-temperature controlled rooms or homes.

WARRANTY: This flooring product comes with a manufacturer Limited Wear Warranty. The warranty applies to the original purchaser that the finish surface will not wear through for the duration of the stated warranty from the date of purchase.

BEFORE INSTALLATION

- Product should be stored in boxes horizontally at all times; never store boxes on their sides. Protect corners of boxes from getting damaged.
- Always install your flooring in bright daylight to observe any imperfections such as sheen differences.
- Visually inspect all planks for any visible defects or damage prior to and during installation. Do not install any damaged planks. KROYA will not be held responsible for any costs related to installation of unsatisfactory product.
- Ensure that all cartons contain the correct product.
- When installing, open several cartons at a time and use a mixture of planks from different cartons for best results and appearance.

- Room temperature should be greater than 5°C (41°F) during installation. Flooring must be installed in a temperature controlled environment, only allowing temperature changes after install is fully completed.

Purchase flooring to be installed in one large area at the same time. Product purchased at a later time than the first purchase may vary beyond your expectations. This product is manufactured according to strict quality standards. In the event that defects are discovered in the field, the industry standards permit a defect tolerance not to exceed 5%. Order an additional 10% extra for cutting wastage and grading allowances (more for diagonal installations). During installation, inspect the planks continuously. Defects that can be seen from a standing position should be cut-off or held out. Installing defective planks implies acceptance. Clicking noises are the result of interactions among flooring, joists and subfloors when they move. Sometimes, it is impossible to eliminate them completely and minor clicking noises are to be accepted as normal flooring phenomenon. To assure the warranty is not inadvertently voided, before proceeding with any activity that is not covered in these instructions, please contact our Customer Support Team.

Job Site Condition

Prior to installation, the installer must determine that the job site conditions meet or exceed standards set forth below for a proper installation. KROYA will decline responsibility for situations associated with improper installation or poor site conditions. It must be in a steady normal living condition (temperature of 18°C-24°C and humidity of 35%-55%). Improperly prepared jobsite elements including; sub-floor, humidity, temperature, could cause the flooring panels to expand or contract unacceptably.



Follow the installation procedures steps below to install the flooring.

New Construction or Remodel

All work involving water, such as pouring basement concrete floors, drywall and plasterwork, plumbing, etc. must be completed well in advance of the floor delivery.

The job site should have a consistent room temperature of 18°C-24°C and humidity of 35%-55% for a minimum of five days prior to the installation of the flooring. Make sure the room temperature is set at a normal living temperature as described above. This environment should be maintained continuously thereafter.

Installing Over Concrete Sub Floors

Concrete subfloors must have minimum rated strength of 3000psi, be level to within 6.35mm over a 3 meter span, and have no bumps or low spots. High-spots can be removed by grinding; depressions can be filled with patching or leveling compound formulated for use in floor installation. Subfloors should not slope more than 2.5mm.per 2 meters. Sub- floor should be clean, no construction debris soil mud and any other object on or adhering to the floor. If necessary scrape and sweep away before the installation. There should be no protrusion of nails, and no debris, or metals should remain. New concrete slab must cure for at least 90 days. It must have a minimum 10 mil polyethylene sheet between the ground and the concrete. Be free from moisture related conditions which can damage the installed flooring.

CONCRETE MOISTURE Test all concrete subfloors for moisture content and document the results. Visual checks are not reliable. Perform tests at location around exterior doorways near walls containing plumbing near foundation walls and in the center of the room.

Minimum sample size is 3 samples per 92 sqm. of area and one test for every addition 92 sqm. thereafter. Moisture content should meet one of the following criteria;

4% max

Less than 8 pounds per 1000 sq ft per 24 hours when using Calcium Chloride test (ASTM F1869). 85% max when using Relative Humidity Testing (ASTM F2170).

NOTE: Concrete moisture content may be acceptable the time of the test. These tests do not guarantee a perpetual "dry" concrete slab. The concrete slab moisture content can vary at other times of the year. We are not responsible for moisture-related damage to installed flooring

DO NOT INSTALL OVER

- Any Hardwood flooring or wood subfloors that lay directly on concrete, or over dimensional lumber or plywood used over concrete.
- Carpet of any type.
- Pre-Existing vinyl floor.
- Floating floor of any type, loose lay, and perimeter fastened sheet vinyl.

RECOMMENDED INSTALLATION AREA

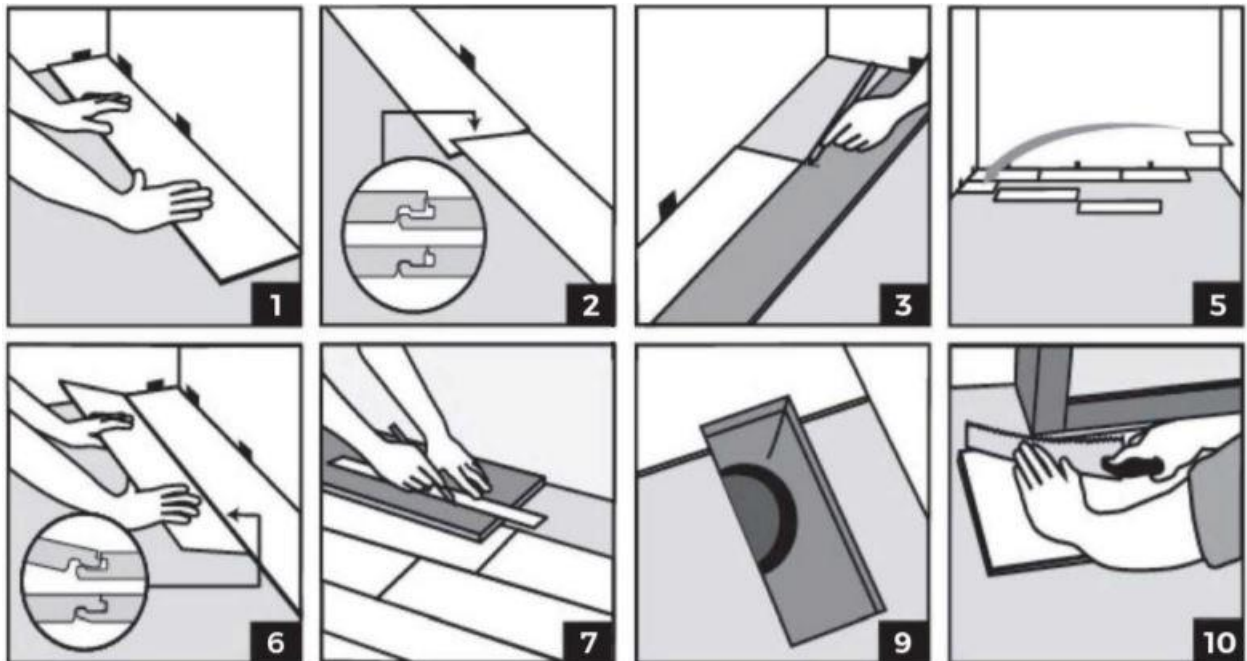
- Do not install vinyl planks over carpet or any foam underlayment.
- This product is not suitable for any outside.
- Do not install in rooms or homes that are not temperature controlled. Exposure to long term direct sunlight can cause damage to your floor. Failure to properly shade or UV tint windows can discolor, fade, or buckle vinyl planks. Use window treatments or UV tinting on windows.
- Do not glue, nail, screw or fasten to substrate. Install cabinetry, island and peninsula counters, vanities, tubs, and showers first, and then install vinyl planks around them.

STONE PRODUCT COMPOSITE (SPC) FLOORING

INSTALLATION INSTRUCTIONS

1. Once subfloor is fully cleaned and prepared, begin with laying planks left to right for first row. Place first plank so grooved edge is facing towards you. Place board 6mm (1/4") from left wall. Use spacers between wall and plank.
2. For the second board in the first row, lay the board interlocking with the first end-to-end and fold it down to lock together. These should be same height if laid properly. Ensure both are perfectly aligned. Continue in same method towards right hand wall. NOTE: If both boards are not same height or are not locked properly together follow the directions at bottom of guide of "TO UNINSTALL". Remove board(s) and check for debris obstructing the lock and grooves. If the end joints are not properly lined up, trying to force the boards together will permanently damage end joints.
3. For final board of first row ensure to measure length required to allow 6mm (1/4") gap for expansion between plank and right hand wall.
4. To cut board place facing upwards. Using a sharp utility knife and ruler, cut pushing firmly several times on the same line. This will not cut through the board, but will cut deeply. Then place one hand close to the cut and push down firmly, and use other hand to lift the other half of the plank. The board should split naturally at the cut mark.
5. Beginning the second row, use remainder of cut plank from last piece of first row, provided piece is minimum 30cm (12"). Otherwise cut a new plank to begin this row, ensuring joints are at least 18cm (7") apart. Use the remainder of cut planks for ends of rows to begin subsequent rows whenever possible
6. Click together the long sides of the new plank and the one in the previous row, placing the board tightly to the short end of the previous plank in this row with an angle of 30° and drop the plank to lock together. These should be same height if laid properly. Ensure both are perfectly aligned.
7. After installing 2 or 3 rows check the straightness using a string line. If the planks are not running straight, it may be caused by unevenness in the starting wall. The first row may require to be re-trimmed to adjust accordingly.
8. For final row, lay a plank of SPC directly on top of last completed row. Place another board on top, touching the tongued side of the plank against the final wall. Trace a line along the edge of this piece marking the first board. Then cut along the edge of this piece to mark the first board. Cut using this line to get required width of board. Insert this cut board against the final wall. The final row should be a minimum of 5cm (2") in width. Spacers can then be removed.
9. When measuring for holes for pipes, use the diameter of the pipe and cut a hole 12mm (1/2") larger. Holes for pipes: measure the diameter of the pipe and drill a hole that is 1/2" (12mm) larger. Saw off a piece, and install the board around the pipe. Then lay sawed-off piece of board in place.

10. When installation is complete, replace moulding, allowing a slight clearance between moulding and SPC. Attach moulding to walls, not to the flooring. For areas where SPC meets other flooring types use T-moulding to cover exposed edges. Do not pinch SPC with moulding, and allow a small space between surfaces.



Maintenance and Care

- Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
- Do not use vacuum cleaners with “beater bars”.
- Spot mop as needed. Any spills should be cleaned up immediately.
- Damp mopping of the floor should be performed on a regular or daily basis, depending on traffic and usage.
- For difficult to clean spots or stains, use cleaner marketed and sold to be used for luxury vinyl tiles flooring.
- Minimize the effect of heat and sunlight. They can cause fading, discoloration or thermal expansion. Close your curtains or blinds where extreme sunlight hits the floor. Rearrange furniture and rugs periodically.
- Do not leave any liquids (water, juice, soft drinks, spills, etc.) standing on the floor. Clean any wet spots immediately.
- Do not use steel wool or scouring powder which will scratch the floor.
- Minimize abrasive and dirt by placing mats on both sides of exterior doors. Area rugs in high-traffic areas are also a good idea.
- Place protective pads beneath furniture legs and other heavy objects. Keep furniture casters clean.
- Keep pets’ nails trimmed.

- Remove shoes with cleats, spikes or exceptionally pointy heels before walking on the floor.
- Take great care when moving furniture and heavy objects. Lay down a plywood and "walk" the item across it

TECHNICAL DETAILS

SPC Luxury Vinyl Plank

Material: stone powder composite.

No plasticizers

Packing: cartons and pallets

Function: Waterproof / Fireproof

Size: 177.8mm wide x 1220mm long x 5.3 mm

Thickness: 5.3mm

Wear layer thickness: 0.3mm

Surface design: Embossed, Crystal

Certification : CE ,Floorscore, Green Guard

Plank construction: (0.8 LVT +0.3 Wear Layer +3.5 SPC + 0.7 LVT)

Packaging

Quantity: 10 pieces per box. Planks are random, no repeating pattern in one box

M2 Per Box: 2.169 m2

Weight per plank: 2.16 kg per plank

Weight per box: 21.6 kg per box

TECHNICAL DETAILS

The dimensional tolerances shall be as follows:

Characteristic	Requirement	Test method
Tile side length	Permissible deviation ≤0.15% of nominal length up to 0.5mm maximum	ISO 24342 or EN 427
Tile squareness	Permissible deviation For ≤ 400mm: ≤0.25mm For > 400mm: ≤0.35mm	ISO 24342 or EN 427
Overall thickness	Average value should be nominal value with a tolerance of -0.10/ +0.13 mm. Individual results should be average value ± 0.15mm.	ISO 24346 or EN 428
Thickness of wear layer	Average value should be nominal value with a tolerance of -10% / +13% but not more than 0.1mm. Individual values should not vary more than 0.05mm or 15% below the average, whichever is greater.	ISO 24340 or EN 429
Total mass per unit area	Average value (g/m ²) should be nominal value with a tolerance of -10% / +13%.	ISO 23997 or EN 430

(b) Surface quality

The flooring shall be free from objectionable surface blemishes such as projections, depressions, cracks. The vinyl strip flooring shall be level and regular in size and shall not be warped or deformed in any manner. The flooring shall have intact edges all around, especially the 4-sided tongue and groove. Any flooring with broken or chipped off edges or delamination will be rejected.

(c) Physical properties

Characteristic	Requirement	Test method
Dimensional stability after exposure to heat	$\leq 0.25\%$	ISO 23999 or EN 434
Curling after exposure to heat	$\leq 2\text{mm}$	ISO 23999 or EN 434
Residual indentation	$\leq 0.1\text{mm}$	ISO 24343 Part 1 or EN 433
Effect of castor chair	After 25,000 cycles, no delamination shall occur. No disturbance to the surface other than a slight change in appearance or Type W; Only minor changes in surface, no delamination	ISO 4918 or EN 425
Abrasion resistance	Wear group T Volume loss $F \leq 2.0\text{mm}^3$	EN 660 Part 2
Slip resistance	Coefficient of friction ≥ 0.4	SS 485 Dry floor friction test method

(d) Chemical properties

Characteristic	Requirement	Test method
Colour fastness to artificial light	\geq Grade 6 or $\Delta E \leq 8$ after 300h where E is irradiance in W/m^2	EN ISO 105-B02 or ASTM F1515
Stain & chemical resistance	Achieve Class 0 - No change, when test with common household stains and chemicals	EN ISO 26987 or EN 423
TVOC, formaldehyde, emission and carcinogenic substance	As per testing requirement to obtain Green certificate from either SEC or SGBC	-

(e) Fire Performance

The works shall be non-combustible throughout and shall meet SCDF's fire safety requirements.

Characteristic	Requirement	Test method
Toxicity	Achieve $R < 5.0$	BS 6853 Annex B
Smoke production	Achieve S1	EN 13501-1
Flame spread/ ignition	Achieve Class B fl	EN 9239-1 EN 11925-2
Cigarette burn resistance	Class 3 minimum	EN 1399