ISKA GROUP

LVT & SPC COLLECTION

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ADOFLOOR WATERPROOF BOARDS

This document has been prepared for the needs of users and is a collection of information for the correct selection, storage and installation of the product. The guide applies to waterproof wall panels belonging to the latest generation of SPC (Stone Polymer Composite) wallcoverings, for indoor domestic or commercial use. Thanks to the technologies used, the product has very high performance and quality parameters, which are presented in these instructions for use.

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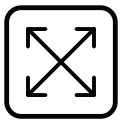
CHARACTERISTICS

Water Resistance [ISO 24336] - the product is suitable for indoor use in dry and humid conditions, such as bathroom, laundry room, kitchen or vestibule.

According to the definition, waterproof is the term for a material which is fully water-resistant. Manufactured in the SPC - Stone Plastic Composite technology are fully waterproof, therefore they can be successfully used in the kitchen, bathroom or laundry room.



Dimensional Stability [ISO 23999] - the product does not change its dimensions under the impact of temperature and humidity changes, so it can be used in sunny and shaded places as well as in dry and humid places.

By definition, dimensional stability is the ability to retain its original dimensions when exposed to heat under certain conditions. Guarantee a dimensional stability of 0.25% in the length and 0.25% in the width (according to ISO 23999 - Flexible floor coverings - Determination of dimensional stability and curl after exposure to heat). The tests were carried out for the maximum temperature value of + 80°C for 6 hours.

Fire Resistance [EN 13501-1] - the panels meet the requirements of class BFL-S1, so they are flame-retardant and emit moderate smoke.

European requirements apply the Euroclass system, dividing materials in terms of reaction to fire into classes: A1, A2, B, C, D, E, F, along with additional criteria, taking into account smoke emission. On this basis, the risk of flashover, i.e. fire spreading explosively, can be assessed.

The classification was carried out in accordance with EN 13501-1 (Fire classification of construction products and building elements - Part 1: Classification) based on reaction to fire tests, and tests in accordance with EN 13823 - Reaction to fire tests - Part 1: Determination of fire performance by radiant plate and EN ISO 11925-2 Reaction to fire tests - Ignitability of products exposed to direct flame.

Light Fastness [ISO 105-B02] - The test is performed by controlled exposure to sunlight or artificial light generated by a xenon lamp.

Resistance is assessed on two scales:

- SkGrayscale with a range of 1-5, where 1 is the weakest and 5 is the highest fastness to light. This is due to the difference in shade between the irradiated product and the untested product. In the normative classification, the requirement is to meet the condition> 5.

- SBlue wool scale: lightfastness is awarded between 1-8. 1 - very poor, and 8 - excellent light fastness. Class 6 defines very good resistance to light.

Stain Resistance [EN 438-2] - The top layer of meets the stain resistance requirements, including coffee, tea, alcoholic beverages or juices, cleaning agents used in kitchen, laundry and care products used in the bathroom.

The test confirms the resistance of permanent staining. The samples are treated with many substances causing stains, to which the panels may be exposed in everyday use. Duration and contact conditions are specified for each substance.

At the end of the specified exposure time, the substances are removed and the samples are tested for permanent traces on the surface. For food such as coffee, tea or milk, the test lasts 16 hours. For other substances, such as alcoholic beverages, hand cream, and chemical products such as acetic acid (30%), bleach, hair dyes, etc., an exposure time of 10 minutes is provided.

Tests were performed in accordance with EN 438-2 High Pressure Decorative Laminates (HPL) - Thermosetting Resin Plates (commonly referred to laminates) - Part 2: Determination of properties, obtaining the highest grade 5 (on a scale of 1-5), indicating no visible discoloration at the end of the test.

DELIVERY AND PACKING OF PRODUCT

Are packed on wooden pallets, secured with foil, cardboard and plastic straps.

The boards are delivered as per with the following list:

Label

Each panel is marked with a product label with the name and decor marking and the EAN code.

Product Name	:	4213 5 MM IXPE CLICK 0.30 MM WEAR 17.18X121.98 SIZE MICRO BEVEL
Product Code	:	P.01-S4213-SWE-5-300-17.78X121.92BU
Quantity	:	2,167 m^2
Pro. Date	:	30.07.2021 16:59:23
Batch	:	SPC 2323

Bulk Packing

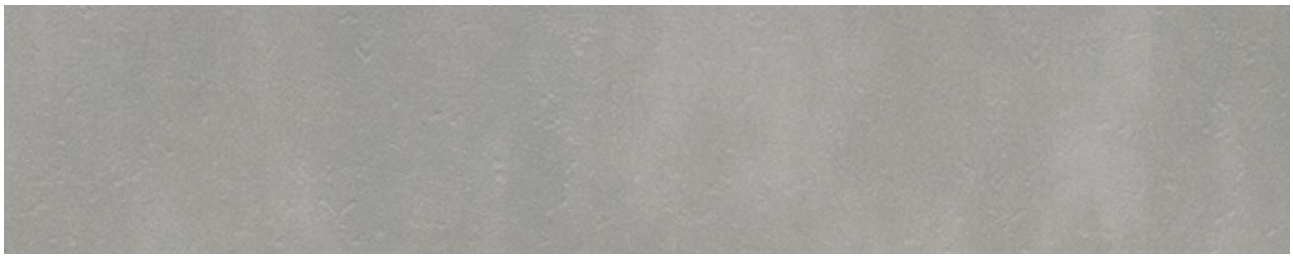
Boards are packed on pallets marked with a collective label.

PRODUCT : SPC
COLOR CODE : 3000
PLANK DIMENSION : 12”x24”
BOX COUNT : 48 BOX
QUANTITY m² : 107,184
BATCH : SPC 2323

IRONA COLLECTION

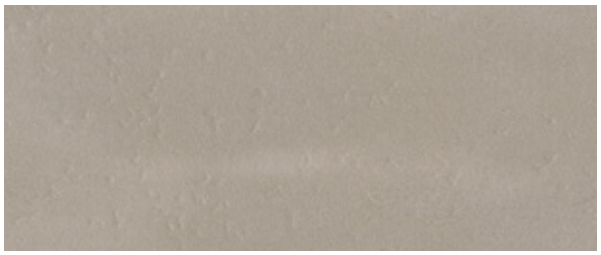
FEROCA 3000

GRACIA 3010



TITANO 3020

STONA COLLECTION



FORTA 4000

MASTRO 4010

RIGORA 4020

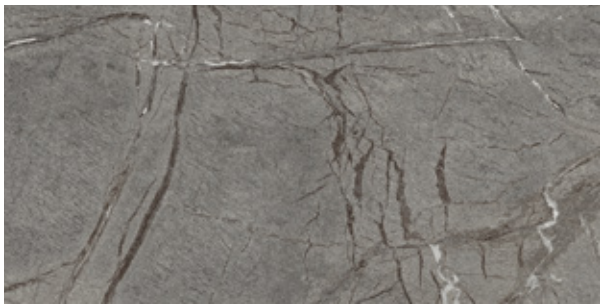
KANIATE 4100

TERO 4101

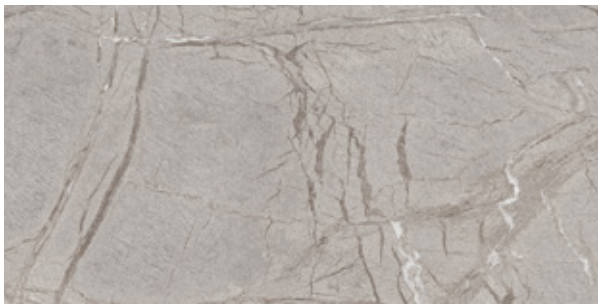
ATMESFERO 4102

KONKRETA 4103

MARMO COLLECTION

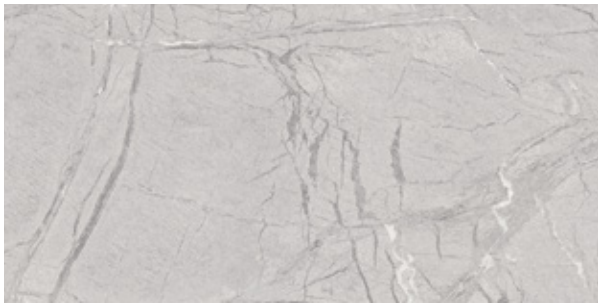


COLORIT FOREST BROWN ESCOVADO DARK 4301

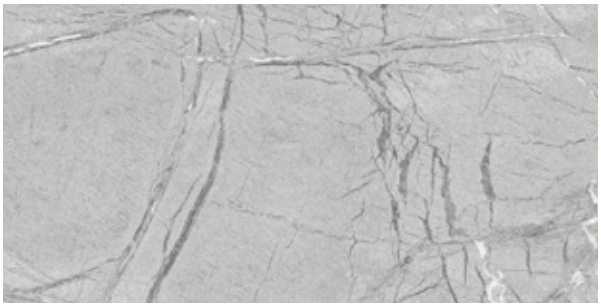


COLORIT FOREST BROWN ESCOVADO ORIGINAL 4304

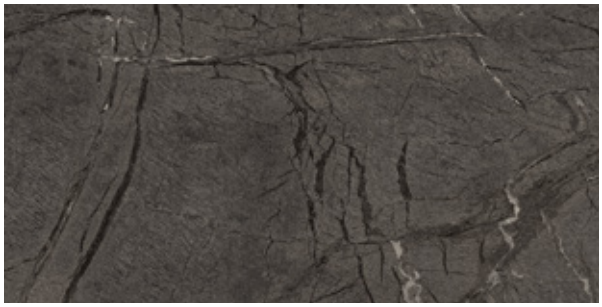
COLORIT FOREST BROWN ESCOVADO LIGHT 4305



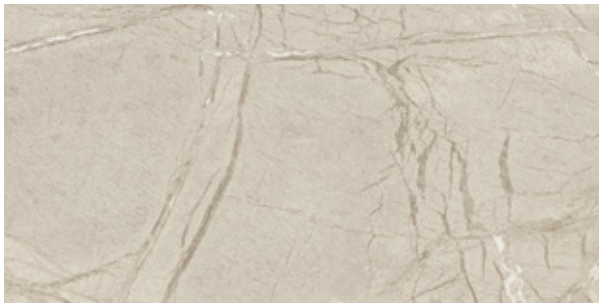
COLORIT FOREST BROWN ESCOVADO MID BRIGHT 4306



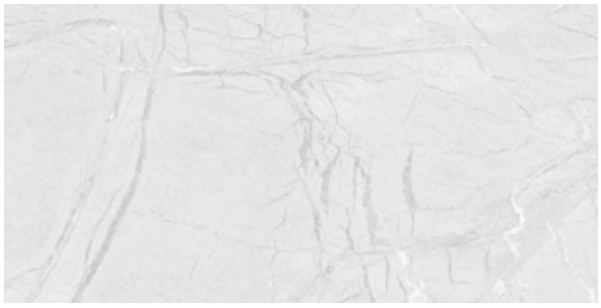
COLORIT FOREST BROWN ESCOVADO MID GREY 4307



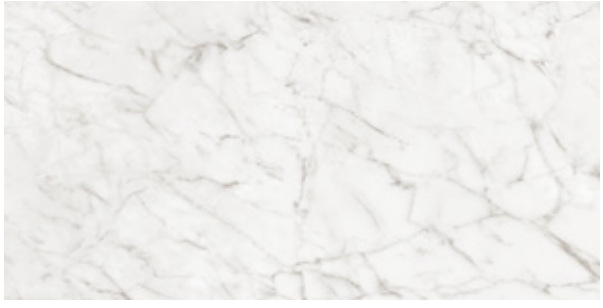
COLORIT FOREST BROWN ESCOVADO BLACK 4309



COLORIT FOREST BROWN ESCOVADO MID LIGHT 4310



COLORIT FOREST BROWN ESCOVADO BRIGHT 4311



SLIM CARRARA MID GREY 4401

SLIM CARRARA LIGHT 4402

CONCRATO COLLECTION

BACKLIGHTED LIGHT CONCRETE 4501

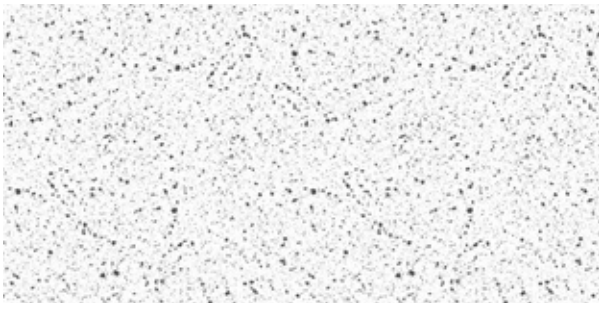
BACKLIGHTED DARK CONCRETE 4502

TRIGO LIGHT CONCRETE 4601

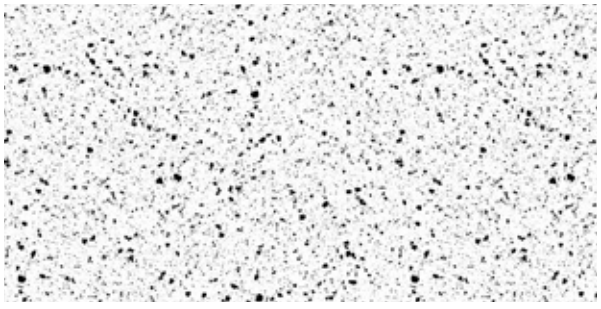
TRIGO DARK CONCRETE 4602

TERRAZZO COLLECTION

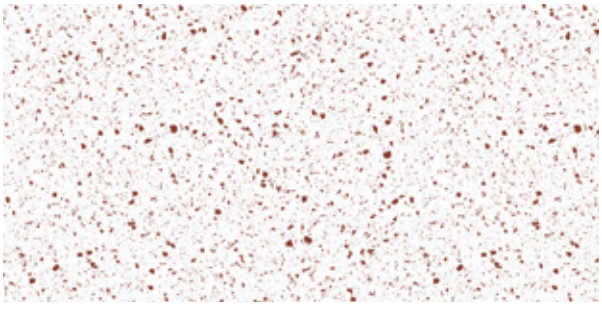
TERRAZZO MIXED 4801



TERRAZZO MONOCHROME / GREY 4810



TERRAZZO MONOCHROME / BLACK 4811



TERRAZZO MONOCHROME / TERRACOTTA 4812

SPC TECHNICAL SPECIFICATIONS

EN 16511

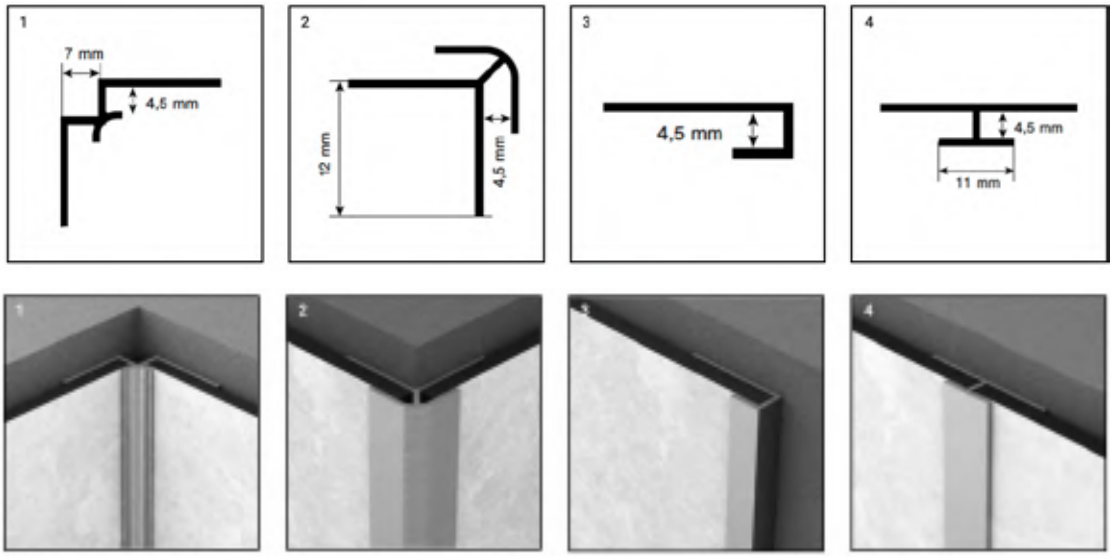
Loose-laid panels-Semi-rigid multilayer modular floor (MMF) covering panels with wear resistant top layer.

	PRODUCT SPECIFICATION	STANDARD	4mm 0,30mm SPC Click	4 mm. 0,55 mm SPC Click
	Total Thickness	ISO 24337	4,00 mm	4,00 mm
	Thickness of Wear Layer		0,30 mm	0,55 mm
	Total Weight	EN ISO 23997	7.850 kg/m²	7.140 kg/m²
	Usage Classification	EN 16511	Class 23 / Class 33	Class 23 / Class 34
	Plank Size	ISO 24337	Click: 177,8 x 1219,2 mm Click: 228,6 x 1219,2 mm	Click : 177,8 x 1219,2 mm Click : 228,6 x 1219,2 mm
	Packaging Per Carton: Planks		Click: 177,8x 1219,2 mm - 2,167 m² 10 pcs Click: 228,6x 1219,2 mm - 2,230 m² 8 pcs	Click: 177,8 x 1219,2 mm - 2,167 m² 10 pcs Click: 228,6x 1219,2 mm - 2,230 m² 8 pcs
	Surface treatment (UV)		Yes	Yes
	Beveled Edges		Yes - Micro Bevel	Yes - Micro Bevel
	Dimensional Stability	EN-ISO 23999	≤ 0,15%	≤ 0,15%
	Reaction to Fire	EN 13501-1	BFL-S1	BFL-S1
	Residual Indentation	ISO 24343-1	≤ 0,05 mm	≤ 0,05 mm
	Furniture Leg	ISO 4918 - EN 425	No damage	No damage
	Castor Chair	EN-ISO 23999	No change	No change
	Locking Strength	ISO 24334	Longitudinal joint: 3.7 kN/m Trans joint 3.6 kN/m	Longitudinal joint: 3.4 kN/m Trans joint 3.6 kN/m
	Light Fastness	EN ISO 105-B02	6	6 - 7
	Resistance to Staining	EN 438-2	Groups 1 - 3: grade 5	Groups 1 - 3: grade 5
	Micro Scratch Resistance	EN 16094	MSR-A2	MSR-A2
	Impact Resistance	EN 13329 Annex F	> 1800 mm	> 1800 mm
	Abrasion Resistance	EN 13329 Annex E	≥ 2000 cycles	≥ 4000 cycles
	Thermal Resistance	EN 12664	0,0160 m² K/W	0,0177 m² K/W
	Slip Resistance	DIN 51130 EN 13893	R9 μ≥ 0,30 DS	R9 μ≥ 0,30 DS
	Static Electrical Propensity	EN 1815	≤ 2kV	≤ 2kV
	Formaldehyde	EN 717-1:2014	E1 (Formaldehyde Free)	E1 (Formaldehyde Free)
	Pentachlorophenol (PCP)	CP 491510-01	PCP Free	PCP Free
	Floor Heating System	Yes suitable, see separate installation instructions.	Max. 29° C	Max. 29° C
	FloorScore	Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0	SCS-FS-05915	SCS-FS-05915
	TVOC	EN 16516 , ISO 16000	A+	A+

RECOMMENDED ACCESSORIES

ALUMINUM PROFILES

Anodized aluminum profiles for an aesthetic finish and durable protection. They have increased corrosion resistance, so they will also work well in wet rooms. Available in four variants: internal corner [1], external corner [2], end profile C [3], connecting profile T [4].



ADHESIVE AND SEALANT

One component, flexible, solvent - free assembly adhesive and sealant with a neutral curing system. Ready to use; has very good adhesion to materials and substrates used in construction. Available in 310 ml cartridges and 600 ml foil packages. Please kindly check supplier's website.

VERTICAL INSTALLATION

Boards are intended for installation inside buildings. The product is intended to finish wall surfaces. Correct assembly and maintenance will ensure long-term use**.**

The manufacturer is not liable for any damages related to incorrect installation or poor assembly conditions.

WASTE STORAGE	Order 10% more than the mounting surface to account for cuts and scrap.
ACCLIMATION	48 Hours
REQUIRED INSTALLATION CONDITIONS	18°C - 32°C [64.4°F - 89.6°F]
DEFINITION of WATERPROOF	The structural integrity will not be damaged when in contact with moisture / water.

INSTALLATION IN DRY ROOMS

1. ACCLIMATISATION

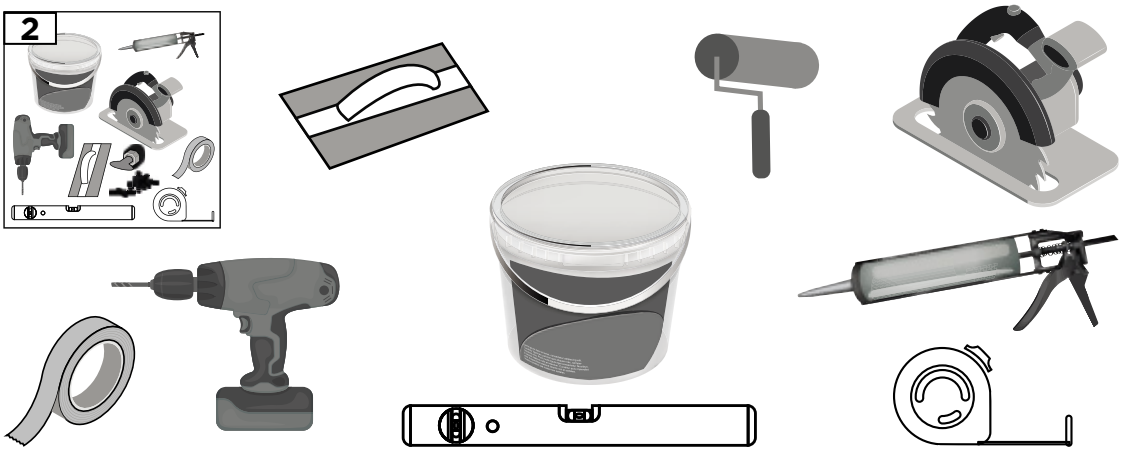
Prior to installation, must be acclimated to room temperature at the installation site. The room where the job is to be installed must be between 18° C - 32°C [64°F - 89°F].

Should be stored horizontally, on an even surface, under controlled environmental conditions.

2. INSTALLATION TOOLS / RECOMMENDED ACCESSORIES

Circular saw with guide bar

- Cutting disc - discs with a sufficiently large number of teeth are recommended Ø 300 mm (96 teeth) and teeth thickness; 3.2 mm.
- Universal Knife
- Ruler, Tape Measure, Pencil
- Distance Crosses
- Glue Float, Cartridge Squeezer
- Broom or Vacuum Cleaner
- Optional: Table Saw, Hole Saw, Jigsaw, Assembly Gripper



BEFORE INSTALLATION

Read the installation instructions carefully. If the instructions are not fully adhered to the warranty shall be null and void.

- Failure to comply with the instructions below releases the manufacturer from any liability.
- All the information is given in good faith and reflects our current knowledge and therefore may not be used against us.
- Our products are produced with the greatest possible care. However, no guarantee can be given with regards to small differences in look and color of different production runs and batches. Therefore, installations in one room have to be carried out with products with the same production date. This date is mentioned on the label of the packaging box. **Complaints about color and tone differences of installed products with different production dates are not accepted.**
- Wear protective gear during installation like safety goggles, mask, gloves and steel toe boots. Always work in a well-ventilated area.

GENERAL

The tiles may be placed on walls for example:

- Private residences: bathroom, kitchen, laundry room, garage, basement, bedroom, living room etc.
- Professional applications: office space, sporting halls, shop areas etc.
- Prefab houses, caravans and mobile homes, boats etc.

The tiles are particularly well suited for use in damp areas.

The tiles may not be installed:

- Outdoors, on account of possible discoloration and the possibility that the product becomes brittle, unless explicitly stated or shown otherwise on the package insert.
- In spaces with a temperature in excess of 40°C or lower than 0°C, for example in a sauna or refrigerated area.
- On walls where the contact temperature may be above 29°C, e.g. on a chimney flue, by a stove or radiators, etc.
- In poorly ventilated areas.
- In areas where there is an abnormally high concentration of Sulphur (H2S)

ACCLIMATIZATION AND INSPECTION

- The tiles should be laid flat for 48 hours in the area in which they will be installed with a minimum distance of 50 cm from the walls to adapt the environmental conditions in the area. The ideal temperature before and during installation is approximately 24 °C.

- Before installation, check each tile carefully by daylight for scratches, dents, damage, difference in color and any other deviations to the standard quality. A tile that is installed even though it shows faults is excluded from our warranty. Complaints about inherent defects that were visible before installation shall not be accepted after installation.
- When installing tiles in a sunroom or in similar spaces, please pay attention to the combined effect of intense exposure to sunlight and increased temperature, since the tiles could be exposed to temperatures higher than 50°C. Please check this before installation. If the temperature become too high, then the tiles may not be installed. ADO Floor cannot be held liable for damages caused on such occasions.

PREPARATION

- A sturdy support frame can be attached to uneven or damaged bases to ensure an even surface on which the tiles may be installed.
- Usually wooden lattice work is chosen. Plastic lattice work is also possible.
- These supports can be installed in the opposite direction of the tiles (e.g. if the tiles are installed horizontally, then the supports must be placed vertically).
- The distance between the supports may be a maximum of 30 cm.
- It is also recommended to provide the open spaces in the framework behind the tiles to allow for some air circulation.
- With an even base a simple (MS silicon) adhesive may be used and no framework is required. The Floor tiles may be glued directly onto existing tiling without removing it, depends on surface slippery.
- This method is only suitable for dry surfaces free from dust and grease. For the best adhesion, we recommend that you also degrease the back of the tiles, for example with isopropyl alcohol. For damp and uneven walls, we recommend the use of lattice work.
- Apply the adhesive in a zigzag pattern onto the tile or the base.
- For tiles, use an MS-polymer based adhesive, or two-component polyurethane adhesive. Please always check the adhesive is also suitable for use on the surface on which the Floor tiles shall be installed.
- Consider that the Floor tiles might expand and contract in the event of major changes in temperature in an area, and provide for this by leaving extra space at the sides of the tiled surface (1mm per running meter Floor on each side).
- For example: for a wall length of 5 m one should allow for a 6 mm gap at each side of the wall that is to be tiled.

3. SUBSTRATE PREPARATION

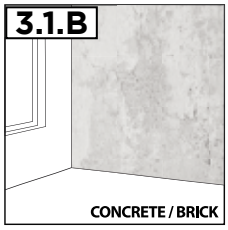
3.1. SUBSTRATE REQUIREMENTS

WOOD (PLYWOOD, OSB)

• Wooden substrates must be firmly attached to the base structure; Should not be mounted to unstable, poorly attached base plates

• The substrate must be load-bearing, dry, clean and degreased

• The substrate must be stable, free from cracks, bends and unevenness



CONCRETE, BRICK

•All loose and unstable elements must be removed from the base

•Any convexities of the substrate must be removed by grinding; the cavities can be filled with a suitable putty and then primed

•The substrate must be hardened and seasoned according to recommendations

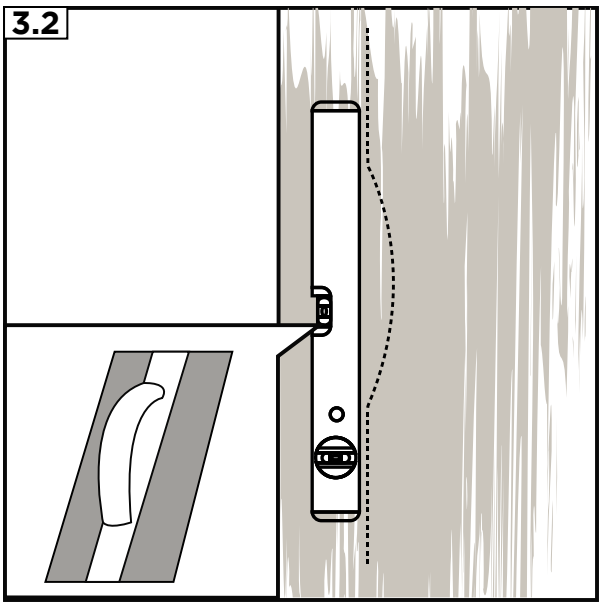
CERAMIC TILES, TERAZZO, STONE

•The existing substrate must be firmly attached to the substructure; do not mount to unstable, badly attached tiles

•The surface of the tiles must be thoroughly cleaned and degreased before applying the adhesive

3.2. GROUND LEVELING

The substrate must be leveled within max. 2mm by 1m in length [0.08 “by 40”]. No unevenness, deflection and faults.



3.3. CLEANING THE SUBSTRATE

Clean the wall of dirt and dust and degrease it if you install it on a non-absorbent surface. The surface must be even and stable.

3.4. SURFACE DIMENSIONS

Before starting the installation, measure the lengths of the walls on which the will be installed. A properly planned layout of the plates prevents very narrow elements and allows keeping the proportions.

4. FORMATING VERTICAL

Format the boards with a circular saw with a guide. For cutting, we recommend using discs with a sufficiently large number of teeth, Ø 300 mm (96 teeth) and teeth thickness; 3.2 mm. Remember to cut the board with the decorative surface facing up. If there are electrical sockets or other installation components on the wall surface, cut holes in the board before its installation. Depending on the shape, the holes can be cut with a hole saw or a jigsaw.

5 . CLEANING OF PLATE SURFACE

The cut plates must be cleaned. The bottom surface of the boards, on which the glue is to be applied, must be free of dust, dry and degreased to ensure proper adhesion of the glue.

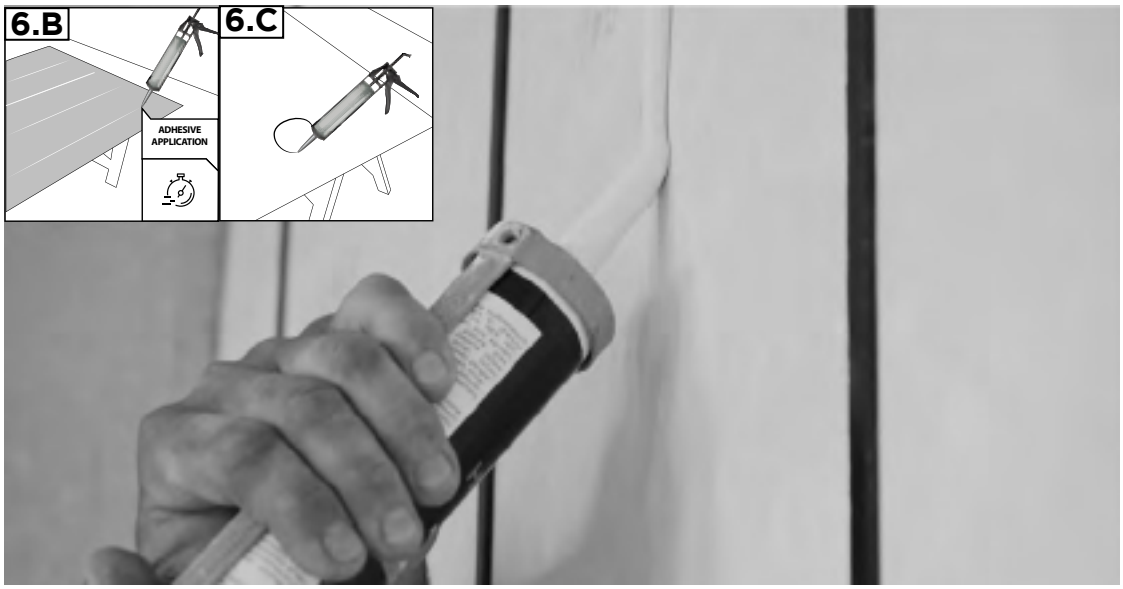
6. APPLICATION OF ADHESIVE FROM TUBE / CARTRIDGE / FOIL PACKAGE

A. BONDING THE MOUNTING TAPES

Glue the double-sided mounting tape vertically to the surface of the substrate. It will ensure even distribution of the glue and facilitate installation and hold the boards until it sets. The tape should be applied at even, approx. 20-45 cm intervals (depending on the wall surface).

B. APPLICATION OF ADHESIVE

Apply the mounting adhesive to the bottom side of the panel or the wall surface. If you are using glue in a cartridge or foil-packet, apply it in vertical stripes at 10 cm intervals. Do not apply the glue in spots. Apply glue under the outline of each cut-out hole. After the adhesive application, the glued surfaces should be joined.

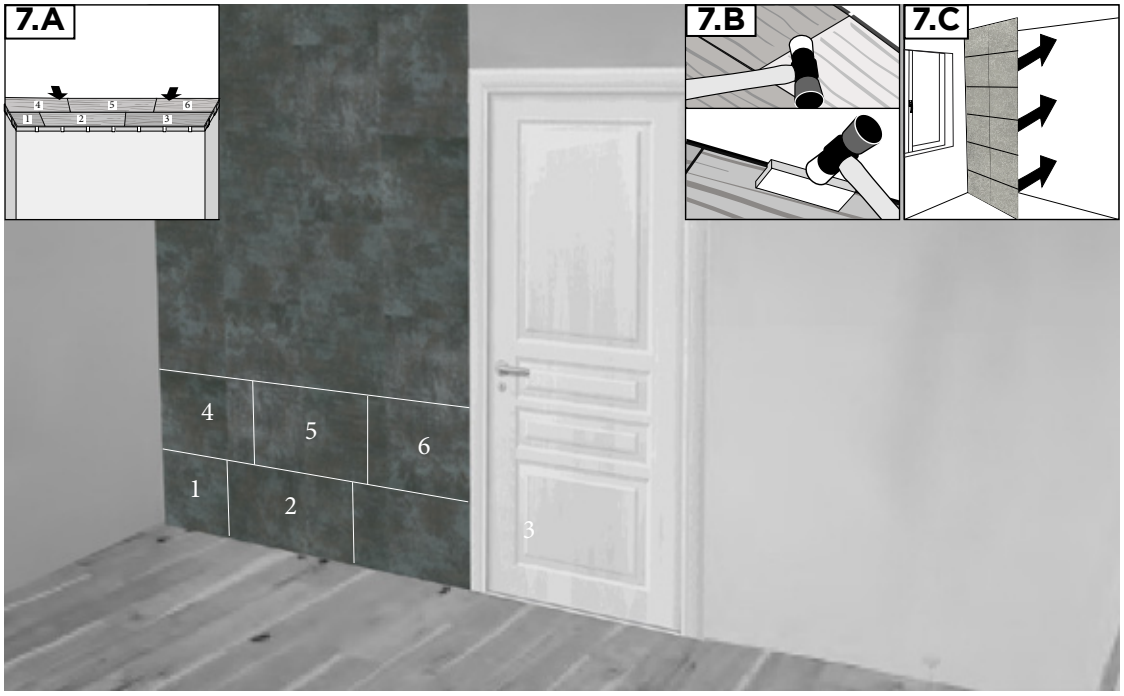


C. ADHESIVE APPLICATION WITH A TROWEL

Apply the mounting adhesive to the bottom side of the panel or the wall surface. Apply the glue to the entire surface of the glued board. Do not apply the adhesive in spots. The glue is applied with a trowel (C1) 4x4x4 mm.

7. ADHERING OF PANELS TO THE SURFACE

After applying the glue; put the tile's back against the wall to start installation with click profiling. Stick and install them starting from bottom.



8. FILLING OUT THE JOINT

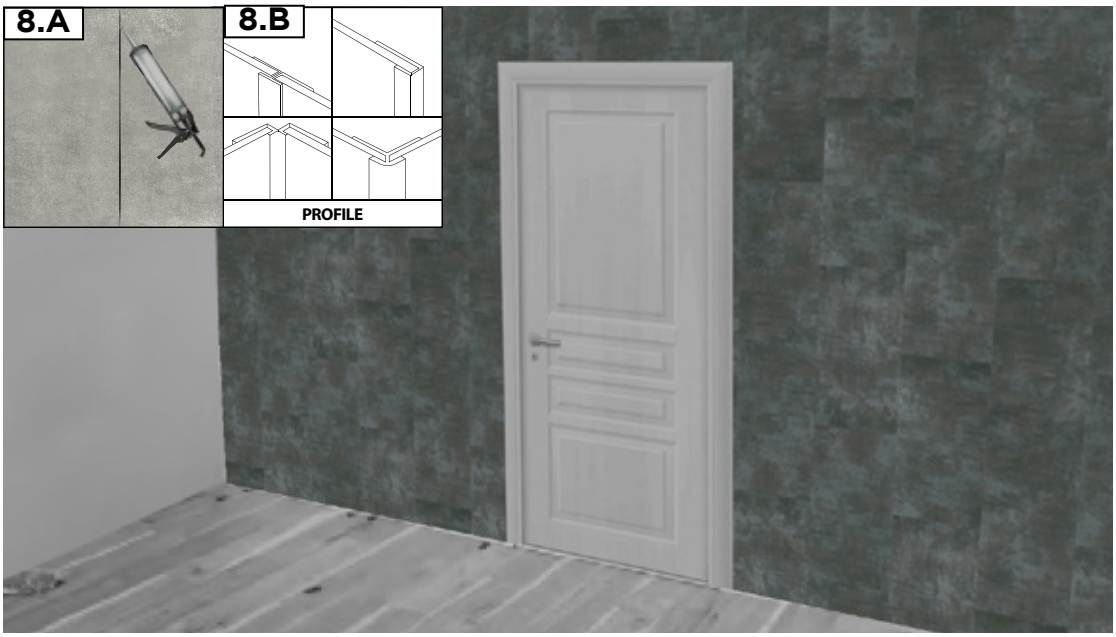
Finishing joints can be filled with a flexible joint (epoxy, silicone) or with dedicated finishing profiles.

No extra grout needed. If you want to grout before applying the grout, protect the surfaces along the expansion joint with painter's tape - this will facilitate the grouting process and protect the surfaces from dirt.

The profiles should be installed during the assembly of the panels.

For mounting the profiles, use the same glue that you use for gluing the boards.

During installation, fill the internal surfaces of the profiles with silicone in order to seal the profile-board connection.



9. CLEANING THE PANELS AFTER ASSEMBLY

The surface can be used in 48 hours after installation. Remove dust and dirt with cleaning fluid. Wipe the boards with a damp, not too fluffy cloth (preferably microfiber). Do not use wire or nylon sponges which can damage the surface.