

PROFIMAT® impact protection slab – installation instruction

Storage of PROFIMAT® Products and adhesive cements

PROFIMAT® products should normally be stored in dry areas at constant temperature above 10°C. If stored below 10°C, store the slabs at the installation site temperature (> 10°C) for at least 2 hours before installation.

Important note: Adhesive cements must be stored at all times in dry locations above 0°C.
To avoid colour variations due to differences in sunlight exposure, leave the UV protection film on the products as supplied until just prior to installation.

Required tools and materials

- Steel straight edge (e.g. carpenter's square 600 mm)
- Cutting knife with replacement blades (heavy duty)
- Measuring tape
- Felt-tip marker (water-soluble) or chalk
- Chalk line with refill chalk

- Application gun for dispensing adhesive cement
- Hand saw, sabre saw or band saw (with blades for wood)
- Kneepads
- Adhesive tape (to cover existing playground equipment)
- Work gloves

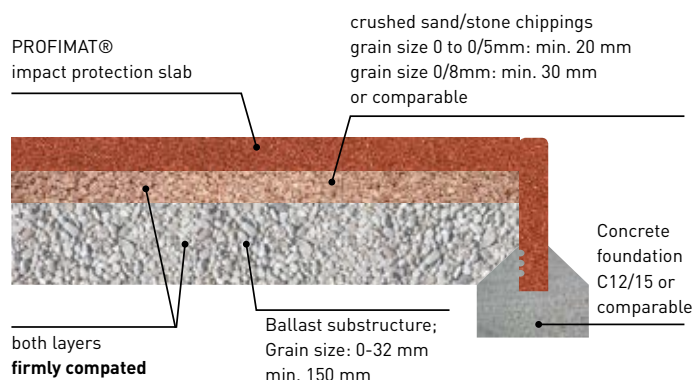
Attention:

For indoor installation, the subfloor should be even, dust-free and dry.

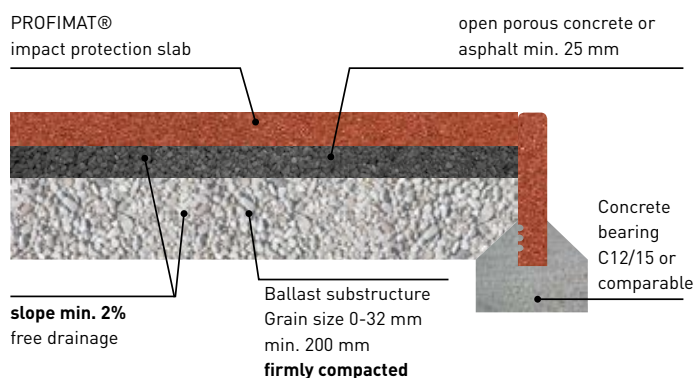
When installing on existing floor materials, compatibility must be tested beforehand. Floor coverings containing PVC can cause plasticizer migration and thus unpleasant evaporation. In this case a separating layer (e.g. polyester fleece) is recommended.

Preparation of the substrate

Preparation of an unbound subsurface



Preparation of a bound subsurface



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Page 1 of 4

Substrate

The floor must be removed to the required depth plus the thickness of the tiles to be laid. It is extremely important to ensure that the flooring is manufactured professionally and that a thorough acceptance test of the subfloor is carried out before installation begins. Flexible edging is recommended.

Substrate design / acceptance criteria

Since PROFIMAT[®] sheets have excellent water permeability, the corresponding substrate must also be capable of drainage. Paved surfaces must be even and have a slope of approx. 2% and a corresponding drainage capability for the draining water. Unevenness greater than 3 mm, in which water can collect, must be levelled by means of a compensating layer.

Preparation of the substrate

If there is no edging, one should be built; in contrast to conventional materials such as wood or concrete, the use of an elastic edging is recommended to achieve a higher level of play safety. If questions regarding soil conditions or the expected soil behaviour occur, a specialist should be consulted. The gravel is to be laid in individual layers, each with a thickness of 75 mm. Before applying the following layer, each layer is to be compacted with a vibratory compactor.

The evenness of each layer is to be checked and, if necessary, corrected when the next layer is applied. Any unevenness or waviness in the top layer must be levelled out with suitable material and compacted again as described above. Paved surfaces (e.g. concrete) must be flat to prevent water accumulation and must have a slope of at least 2% and drainage capability for water. They must be free of cracks, dirt, oil or other materials.

The flatness of the subfloor must in any case be less than 5 mm below the 3m batten.



Firmly compact the gravel base layer



Evenly smooth the levelling layer



Firmly compact the levelling layer

Perpendicularity Check, Minimization of Dimensional Variations

Start installation by laying a chalk line parallel to and a full slab width away from one side of the surface to be covered. Lay a second chalk line exactly perpendicular (at an angle of 90°) to the first. Check that the lines are perpendicular by the 3/4/5 rule: Starting at the intersection point of the lines, measure off exactly 3 m down the first line and mark this point, then measure off exactly 4 m down the second line and mark this point. Measure the distance between the two points marked. If the lines are perpendicular, the distance between the points will exactly be 5 m.

The dimensional tolerance of EUROFLEX® slabs as manufactured is approx. +/- 0,8% in length and width, +/- 2 mm thickness. Dimensional variations can be caused by storage in stacks (elastic compression of the slabs due to the stack weight) and changes in thermal expansion and ambient temperature.

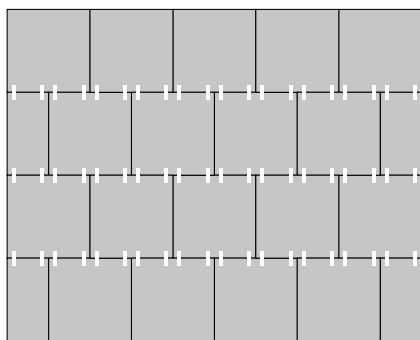
The following procedures are recommended to minimize dimensional variations:

- Be certain that all slabs to be laid have the same temperature over the entire term of installation.
- Spread the slabs out on the ground for 2 hours before final installation to permit them to regain their original dimensions.
- Die Verlegung ist unbedingt komplett an einem Arbeitstag durchzuführen, damit die Verlegung aller Platten unter annähernd gleichen Bedingungen erfolgt!

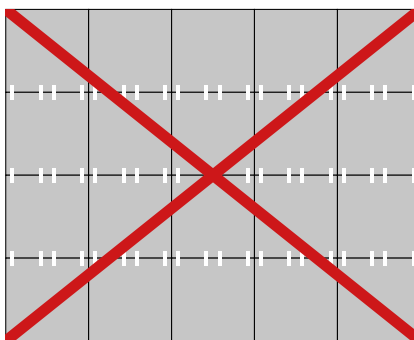
For ideal installation conditions, the ambient temperature at the site should have been over 4°C for at least 24 hours prior to installation. If the ambient temperature at the site is below 4°C, store the slabs to be installed in a dry area at a temperature of at least 10°C for at least 72 hours prior to installation. Do not install EUROFLEX® slabs if ambient temperatures below 4°C are expected at the installation site for an extended period of time.

Installation PROFIMAT® slabs with connector pins

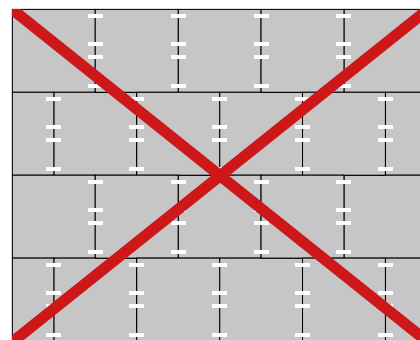
Install the first row of EUROFLEX® slabs by placing them precisely along the chalk line. Start the second row (and every second row thereafter) with a half slab. Connect the slabs of the second row to the first by the integrated connector pins. The masonry-style configuration (Figure 1) provides stability of the installed slabs.



Correct: T-joints



Incorrect: cross joints



Incorrect: T-joints installed in line

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Page 3 of 4



Cut the last panel of each row according to the boundary of the area with a heavy duty cutter knife:

Installation PROFIMAT® slabs without connector pins

A stable enclosure of the surface is absolutely necessary. PROFIMAT® slabs without connectors should only be laid on a solid surface. The slabs can be installed in a cross joint or a T-joint structure.

For this purpose, the boards are either glued to the substrate at the joint areas or across the entire surface.

Requirements: 1 cartridge 310 ml for approx. 3-4 m of joint length glued resp. 1 cartridge for 1m² full surface gluing

Adhesive: elastic 1-component polyurethane adhesive cement, e.g. Ottocoll P 83 (Otto Chemie, Fridolfing/Germany)

Preparation: The surfaces must be clean, dry and free of grease. Check adhesion to and compatibility with plastic and painted surfaces before installation.

Gluing: Apply adhesive cement from application pistol onto the substrate. The required layer thickness is dependent on the materials being joined. Within 10 minutes, put the upper material in place and apply contact pressure. Due to the pasty consistency of the cement, we recommend maintaining contact pressure until curing is complete. The required curing time is dependent on the layer thickness and the humidity of the ambient air.

Processing temperature: + 5°C until +40°C

Film after 20 min at 23°C

Curing time after 24 h at 23°C

Maintenance of the installed PROFIMAT® Surface

Regular cleaning of your installed PROFIMAT® surface will promote a long useful life as well as attractive appearance. PROFIMAT® surfaces can be kept clean by sweeping with a soft-bristled broom or vacuuming with an industrial vacuum cleaner. High pressure water spraying can also be used to clean PROFIMAT® surfaces and provides more efficient dirt removal from the surface pores of the slabs.

PROFIMAT® slabs are not adversely affected by cleaning with most common household or industrial cleaners when diluted in accordance with manufacturer's recommendations.