Installation Instruction

Storage of EUROFLEX® Products and Adhesive Cements EUROFLEX® products should be stored in dry areas at a constant temperature above 10°C. If stored below 10°C, allow slabs to come to installation-site temperature (>10°C) for at least 2 hours before installation. Important: Adhesive cements must be stored at all times in dry locations above 0°C. To prevent color variations caused by sunlight exposure, keep the UV protection film on the products as supplied until immediately before installation.

Required Tools

Cut Cutting knife, heavy duty, with replacement blades, hand saw, sabre saw or band saw (with blades for wood), steel straight edge (e.g. carpenters square 600 mm)




Mark Chalk line with refill chalk, felt-tip markers (water –soluble) or chalk, tape measure or meter stick


Gluing Application gun for dispensing adhesive cement, adhesive cement cartridges, work glove, kneepads


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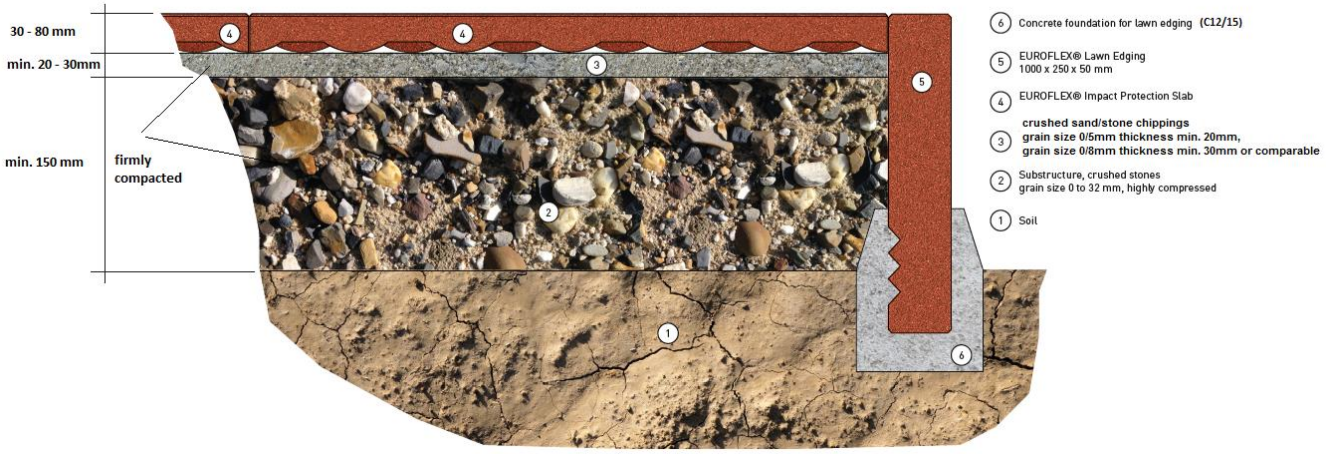
Attention:

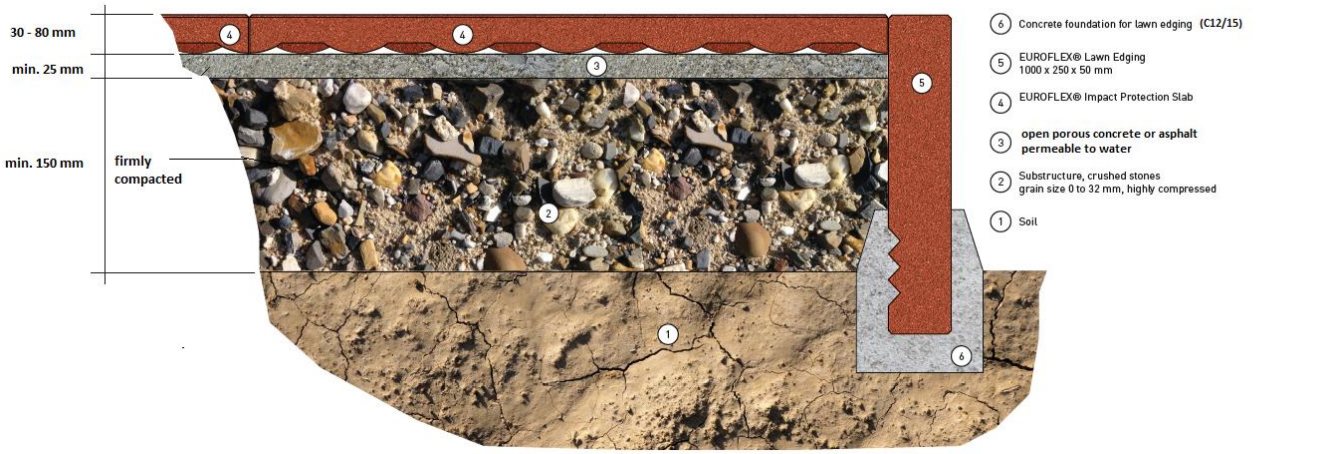
The subbase for indoor installation shall be even, flat, and dry.
If installation is performed on an existing subbase, compatibility must be verified.
Where the subbase material is based on PVC, potential migration of plasticizers may occur, which could lead to unpleasant odors.

Preparation Subbase

Unbounded Subgrade



Bounded Subgrade



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Note: The basement shall be removed to the required depth, plus the thickness of the slabs. An acceptance inspection of the subgrade is recommended prior to installation of the slabs. For non-drainable concrete or asphalt, a downdraft (grading) of approximately 2% is required, and adequate drainage must be provided.

Subsurface Design / Acceptance Criteria

EUROFLEX® slabs exhibit excellent drainage properties.
Any depressions exceeding 3 mm in depth that may collect water shall be leveled using suitable materials.
Like other elastomeric materials, EUROFLEX® products absorb heat when exposed to direct sunlight, resulting in surface temperatures that may exceed those of asphalt under identical conditions.
EUROFLEX® products should be installed and stored in shaded areas whenever possible to minimize overheating.

Preparation of the Subsurface

Proper construction and acceptance inspection of this subsurface prior to installation are essential. The following instructions must be followed exactly by the contractor performing the subsurface preparation and by the EUROFLEX® slab installer during subsequent acceptance inspection.
Remove the existing soil to a depth of at least 300 mm plus the thickness of the slabs to be installed.
If no edge trim enclosure surrounds the area to be covered, install EUROFLEX® Lawn Edging to promote safer playing conditions.
EUROFLEX® slabs are elastic products with open pores. Depending on weather conditions and rainfall, dimensions may change.
If questions arise regarding soil conditions and characteristics or expected soil behavior, consult a soil mechanics engineer.
Compact each layer with a vibration compactor to 98% of standard Proctor density.
After applying the final layer, recheck levelness and correct any uneven spots with suitable material.
The paved subsurface (such as concrete or asphalt) must be absolutely level, with no vertical deviations. Surfaces must be crack-free, clean, and free of oil or other contaminants.
Regardless of subsurface type, level deviation must not exceed 5 mm over a 3 m length (3 m straight edge).

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Crushed stones bed stable compacted

Levelling crushed sand/stone chippings

Stable compacting

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ATTENTION!!!

A coarse chipping bed (2–5 mm or 2–8 mm with zero content) cannot be compacted to a stable state and is therefore not permitted. Stable compaction means the substrate is compacted so firmly that it does not move or yield under load—i.e., it remains stable and load-bearing when walked upon, driven over, or subjected to heavy objects. The dimples/texturing on the underside must NOT be pressed in.

Images NOT firmly compacted:

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Perpendicularity Check, Minimization of Dimensional Variations

Begin installation by laying a chalk line parallel to, and at a full slab width away from, one edge of the surface to be covered. Lay a second chalk line exactly perpendicular to the first. Verify perpendicularity using the 3-4-5 rule: from the intersection point of the lines, measure exactly 3 m along the first line and mark this point; measure exactly 4 m along the second line and mark this point. The distance between the two marks should be exactly 5 m if the lines are perpendicular.

The manufacturing dimensional tolerances for EUROFLEX® slabs are approximately ±0.8% in length and width, and ±2 mm in thickness. Dimensional variations may result from storage in stacks (elastic compression of the slabs due to stack weight) and from changes in thermal expansion and ambient temperature.

The following procedures are recommended to minimize dimensional variations:

- **Ensure that all slabs to be laid are maintained at the same temperature throughout the installation.**
- **Lay the slabs out on the ground for two hours prior to final installation to allow them to regain their original dimensions.**
- **Install all slabs in a single session to ensure installation under consistent conditions.**

For optimal installation conditions, the ambient temperature at the site should have remained above 4°C for at least 24 hours prior to installation.
If the site's ambient temperature 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 anticipated at the installation site for an extended period.

Installation of EUROFLEX® Slabs

Install the initial row of EUROFLEX® slabs precisely along the chalk line.
Begin the second row (and every alternate row thereafter) with a half slab.
Connect the slabs in the second row to those in the first row using the integrated connector pins.
The masonry-style arrangement (Figure 1) provides stability for the installed slabs.
Trim the final slab in each row to the required size using a heavy-duty utility knife or sabre saw.

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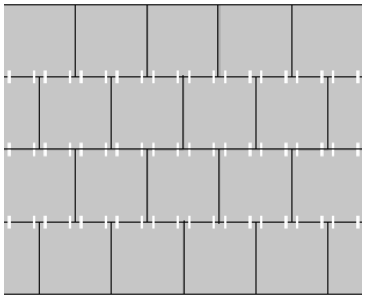
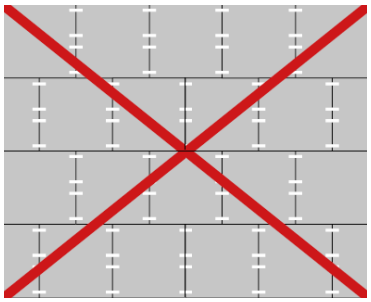
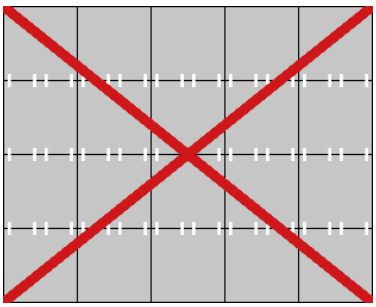
Correct: „T“-joints

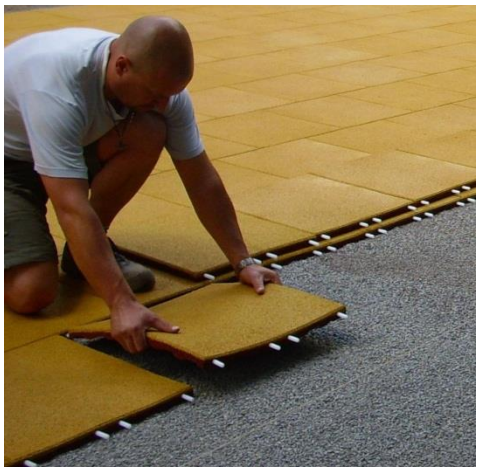


Incorrect: „T“-joints
Installed in line



Incorrect: cross joints





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Cutting slabs with an stable cutter knife

- Measure and mark cutting edge


- Cutting with cutter knife





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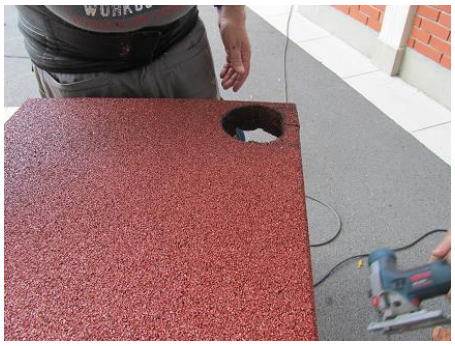
Or with a pad saw, saw blade for wood

Mark the relief



Installation nonrectangular areas.

Start the installation at the longest even border in rightangle stile at a chalk line.

Subsequently, secure the area by closing it off to the bordering perimeter.
The subsequent installation must be performed in a T configuration.

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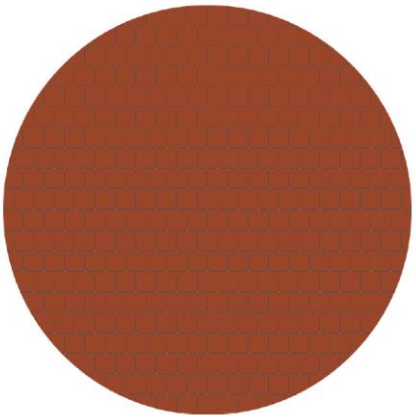
The slabs must be installed with a continuous form closure, without gaps.
For circular areas, it is recommended to create a model using plastic or paper.

mark the circle **transfer on model**





To calculate areas please use the playground configuration tool on our website:

https://www.kraiburg-relastec.com/euroflex/en/playground-configurator/

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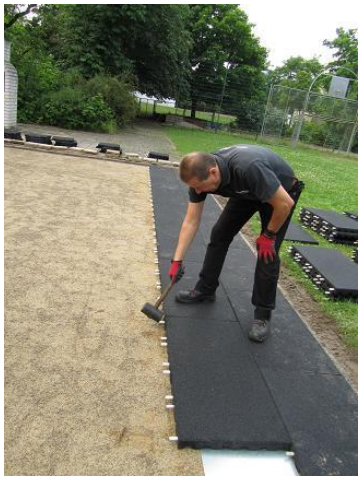
The installation of EUROFLEX® slabs on a granular subbase should utilize a sheet metal, plastic, or cardboard underlayment as an installation aid to prevent particle ingress into the joints between the slabs.



Use the second chalk line to verify perpendicularity of the installation.
Slabs that border the edge boundary enclosing the surface must be cut to size with high precision to ensure a close fit.
Only glue slabs in the first and last rows, and all slabs along the outer perimeter, to each other and to the edge boundary enclosing the surface to prevent uplift or unauthorized removal.
Read the adhesive cement instructions carefully prior to installation. Use only adhesive cements that are supplied or recommended by KRAIBURG Relastec GmbH & Co. KG.
Suitable disposable gloves should be worn during adhesive application to prevent skin irritation.

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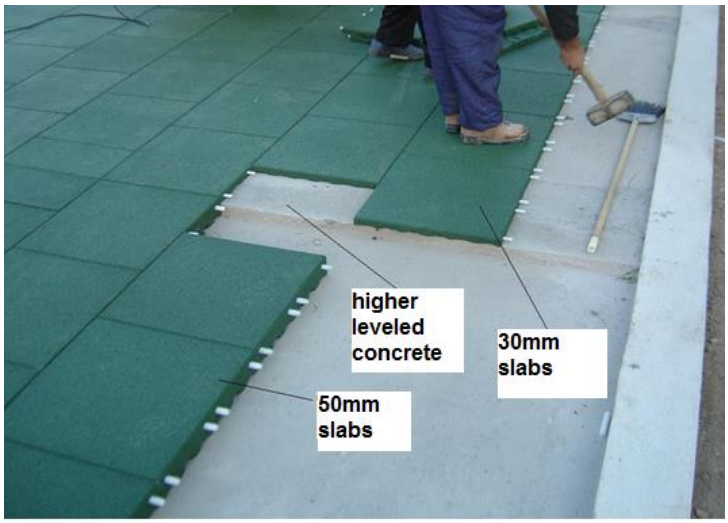
Attention:
During installation on an undrained bonded subgrade, concrete, or asphalt, a downward grade of approximately 2% and a free drainage pathway are required.
Ensure that the slabs do not absorb moisture from the subgrade.
Moisture absorption can cause the slabs to expand and become displaced.

Combination different thicknesses of slabs in one area

Bonded subbase

All slabs with thicknesses ranging from 40 mm to 80 mm may be stacked one atop another, as the connector pins share identical dimensions measured from the top surface of the slabs. Height adjustments must be performed at the subgrade.

The assembly of 30 mm slabs with any other slabs should be carried out as a boundary installation using the smaller connector pins.



Unbounded subbase

The same objectives applicable to unbounded subbases apply to the combinability of slabs.
Height adjustments must be performed at the subgrade.
The subgrade must be recessed according to the thickness of the slabs.

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Attention!
To get the right H Paver layout please follow the instruction:

- 1. Row

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- 2. Row and every second row following

- 3. Row

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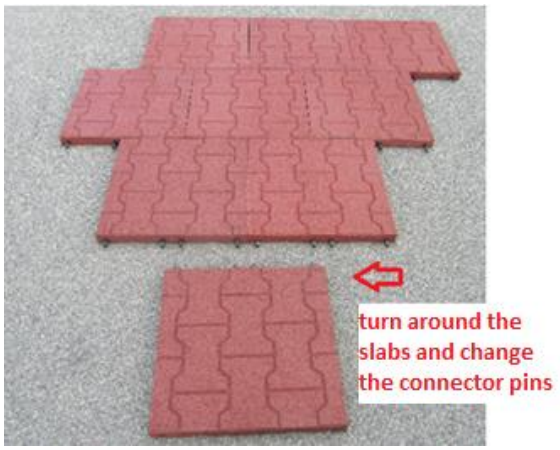
- 4. Row



Maintenance of the Installed EUROFLEX® Surface

Regular cleaning of the installed EUROFLEX® surface helps promote a long service life and an attractive appearance.
EUROFLEX® surfaces may be kept clean by sweeping with a soft-bristle broom or by vacuuming with an industrial vacuum cleaner.
High-pressure water spraying may also be used to clean EUROFLEX® surfaces and provides more efficient removal of dirt from the surface pores of the slabs.
EUROFLEX® slabs are not adversely affected by cleaning with most common household or industrial cleaners when used in accordance with the manufacturer's recommendations.
Light surface stains can be removed with such cleaners using a scrubber or cleaning rag.
Depending on usage frequency, EUROFLEX® surfaces will occasionally require deep cleaning procedures to remove dirt, stains, mold, mildew, etc.
These procedures may involve a steam cleaner or power washing, with or without cleaning agents.
Cleaning the gaps between the slabs is very important.
Note: Our EUROFLEX® warranty may be void if the product has not been maintained in accordance with these maintenance instructions.

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Gluing instruction under using EUROFLEX® Edge and Corner profile on bounded subgrade

It is recommended to treat the edge and corner profiles with additional reinforcement relative to the subbase and to securely adhere them to the subbase.
The profile should be affixed to the leading edge of the first row of slabs.

Required amount of adhesive: 1 cartridge (310 ml) per 3–4 meters of joined joint length.

Adhesive type: elastic, one-component polyurethane adhesive cement, e.g., Ottocoll P 83 and Ottocoll M 500. Preparation: Surfaces must be clean, dry, and free of grease.
Verify adhesion to and compatibility with plastic and painted surfaces prior to installation.
Application: Apply adhesive cement from a caulking gun onto the substrate. The required film thickness depends on the materials being joined.
Within 10 minutes, place the upper material in position and apply immediate pressure. Due to the putty-like consistency of the cement, maintain contact pressure until curing is complete.
The required curing time depends on the layer thickness and ambient humidity. Processing temperature: +5°C to +40°C Cured film: after 20 minutes at 23°C Curing time: after 24 hours at 23°C

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