

Installation Instruction

Storage of EUROFLEX® Products and Adhesive Cements

EUROFLEX® products should ordinarily be stored in dry environments at a constant temperature exceeding 10°C. If stored at temperatures below 10°C, slabs must be acclimated at the installation site temperature (above 10°C) for a minimum of 2 hours prior to installation.

Important: Adhesive cements must be stored at all times in dry locations above 0°C. To prevent color variations caused by differences in sunlight exposure, retain the UV protection film on the products as supplied until just 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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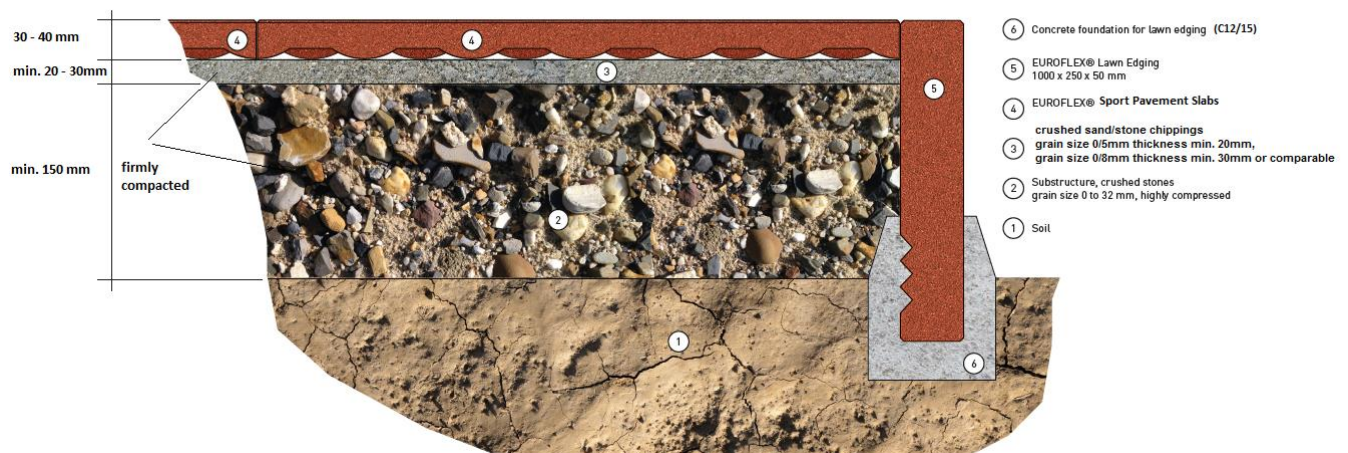
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Attention:

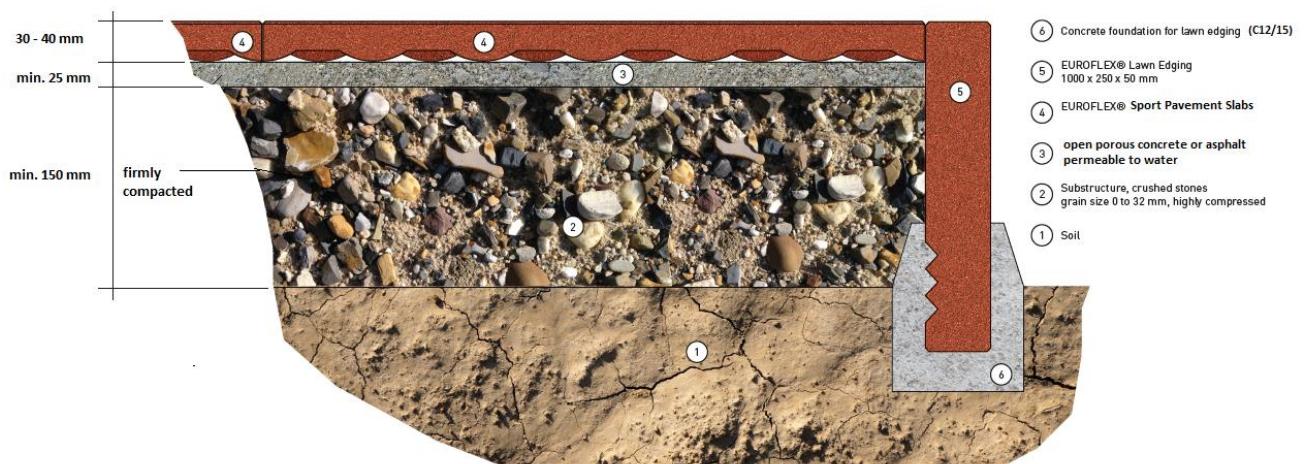
The subbase for indoor installations shall be even, flat, and dry.
Before installation on an existing subbase, compatibility shall be verified.
If the subbase material is PVC-based, migration of plasticizers may occur and unpleasant odors may be emitted.

Preparation Subbase

Unbounded Subgrade



Bounded Subgrade



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Note:

The basement shall be excavated to the required depth plus the thickness of the slabs. An acceptance inspection of the subgrade is recommended prior to slab installation. For non-drainable concrete or asphalt, a downward grade of approximately 2% is required, and adequate take-off drains are necessary.

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 products, EUROFLEX® materials absorb heat when exposed to direct sunlight, resulting in surface temperatures that can exceed those of asphalt under the same conditions.

Whenever feasible, EUROFLEX® products should be installed and stored in shaded areas to mitigate overheating.

Preparation of the Subsurface

Proper construction and acceptance inspection of the subsurface prior to installation are of critical importance.

The following instructions must be followed exactly by the contractor performing 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 is present around 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, the dimensions may vary.

If there are questions regarding soil conditions, 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, re-check the levelness and correct any uneven spots with suitable material.

Paved subsurfaces, such as concrete or asphalt, must be absolutely level with no vertical deviations. Surfaces must be free of cracks, clean, and free of oil or other foreign materials. Regardless of subsurface type, the surface must not deviate from level by more than 5 mm over a distance of 3 meters.

Implement edging bordering, for example EUROFLEX® Lawn Edging. Use crushed stones to achieve stable compaction.



Racking levelling shift even



Levelling stable compaction



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ATTENTION!!!

A coarse chippings 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 that the substrate is compacted so firmly that it remains immobile and load-bearing, even under foot traffic, vehicle load, or the placement of heavy objects.

The underside dimple texture 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 distance from, one edge of the surface to be covered.

Lay a second chalk line exactly perpendicular (90 degrees) 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 marked points should be exactly 5 m if the lines are perpendicular.

The dimensional tolerance of EUROFLEX® Sport Pavement Slabs as manufactured is approximately $\pm 0.8\%$ for length and width, and ± 2 mm for thickness.

Dimensional variations may be caused by storage in stacks (elastic compression of the slabs due to stack weight) and by changes in thermal expansion and ambient temperature.

Recommended procedures to minimize dimensional variations:

Ensure that all slabs to be laid are at uniform temperature throughout the installation.

Spread the slabs on the ground for two hours prior to final installation to allow them to regain their original dimensions.

Complete the installation in a single session to maintain consistent environmental conditions.

For optimal installation conditions, the ambient site temperature should have exceeded 4°C for at least 24 hours prior to installation.

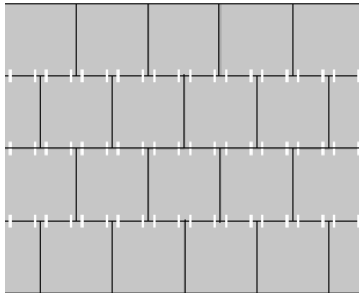
If the site ambient temperature falls below 4°C, store the slabs in a dry area at a temperature of at least 10°C for a minimum of 72 hours before installation.

Do not install EUROFLEX® slabs if extended periods of ambient temperatures below 4°C are expected at the installation site.

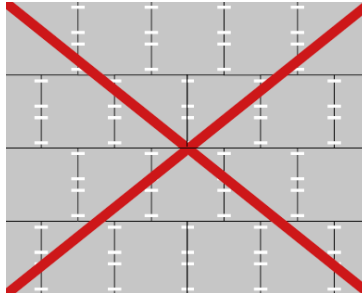
Installation of EUROFLEX® Sport Pavement Slabs

Begin installation by laying the first row of EUROFLEX® slabs precisely along the chalk line. Initiate the second row, and every alternate row thereafter, with a half slab. Connect the slabs of the second row to the preceding row using the integrated connector pins. The masonry-style arrangement (see 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.

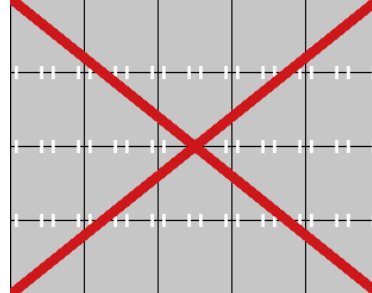
Correct: „T“-joints



**Incorrect: „T“-joints
Installed in line**



Incorrect: cross joints



During installation of EUROFLEX® slabs on a granular subsurface, employ a sheet metal, plastic, or cardboard underlay as an installation aid to prevent debris from entering the joints between slabs.

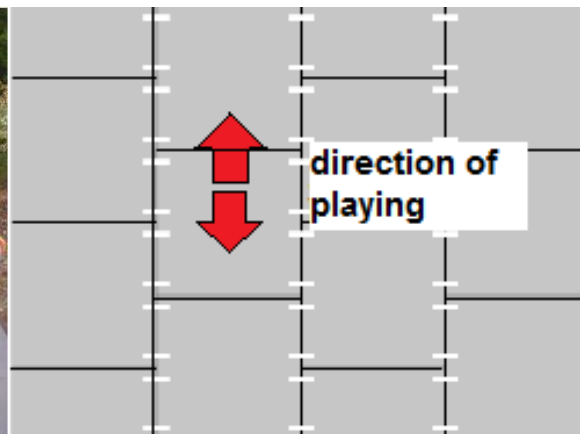
Use the second chalk line to verify perpendicularity of the installation.

Any slabs that border the edge boundary enclosing the surface must be cut to size with high precision to ensure a tight fit.



During installation of Sport Pavement Areas, ensure that the playing direction is aligned opposite to the connector pins.

Installation Sport Pavement Slabs



Glue only the 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 uplifting or unauthorized removal.

Read the adhesive instructions carefully prior to installation. Use only adhesive cements supplied or recommended by KRAIBURG Relastec GmbH & Co. KG. Suitable disposable gloves should be worn during glue application to avoid skin irritation.

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Attention: During installation, slabs on an undrained bonded subgrade, concrete, or asphalt exhibit a downward grade of approximately 2%, and free drainage is always necessary. Ensure that the subgrade does not absorb any moisture. Moisture absorption would cause the slabs to expand and displace.

Application Line Paints

Application of line paint on the Sports Pavement Slabs is readily achievable. It is important that the paint is polyurethane-based, for example Conipur (used by Conica sports surfaces) or a two-component polyurethane paint manufactured by KIPP.



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Maintenance of the Installed EUROFLEX® Surface

Regular cleaning of your EUROFLEX® surface promotes extended service life and an attractive appearance.

EUROFLEX® surfaces may be kept clean by sweeping with a soft-bristle broom or vacuuming with an industrial vacuum.

High-pressure water spraying may also be used to clean EUROFLEX® surfaces and provides more effective 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 using such cleaners with a scrub brush 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 employ a steam cleaner or power washing, with or without cleaning agents.

Cleaning the gaps between the slabs is essential.

Please note: Our EUROFLEX® warranty is not applicable if the product has not been maintained in accordance with the maintenance instructions above.

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



It is recommended to install the edge and corner profiles flush with the subbase, and to affix them securely to the subbase. The profile should be bonded to the first row of slabs.



Required quantity of glue: 1 cartridge (310 ml) for every 3 – 4 m of joint length glued.

Type of glue: elastic 1-component polyurethane adhesive cement e.g. Ottocoll P 83 and Ottocoll m 500

Preparation:

The surfaces must be clean, dry, and free of grease. Verify adhesion to and compatibility with plastic and painted surfaces prior to installation.

Gluing:

The surfaces must be clean, dry, and free of grease. Verify adhesion to and compatibility with plastic and painted surfaces prior to installation.

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

Film after 20 min at 23°C

Curing time after 24 h at 23°C