

Storage of EUROFLEX® Products and adhesive cements

EUROFLEX® products should be stored in dry areas at a constant temperature exceeding 10°C. If storage occurs below 10°C, allow the slabs to reach installation-site temperature (>10°C) for a minimum of 2 hours prior to installation. Note: Adhesive cements must be stored at all times in dry locations above 0°C. To prevent color variations caused by differences in sunlight exposure, keep the UV-protection film on the products as supplied until immediately prior to 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

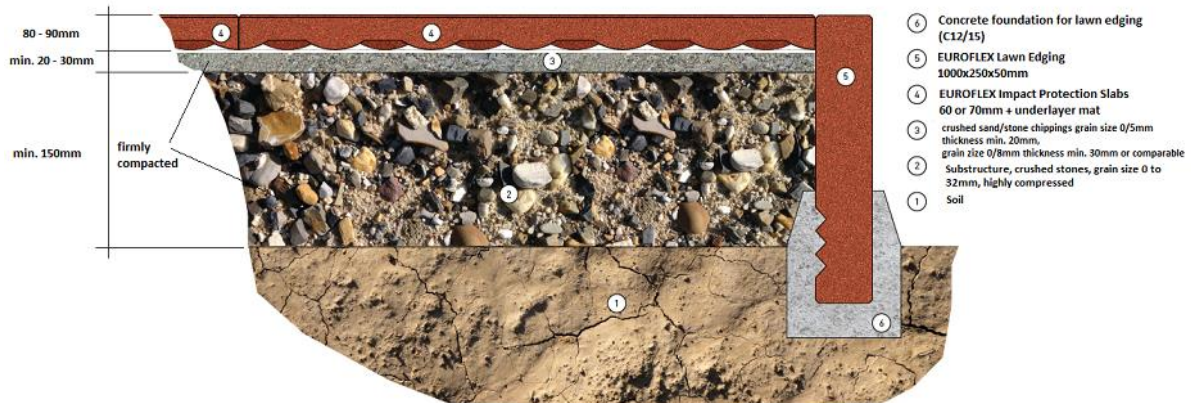


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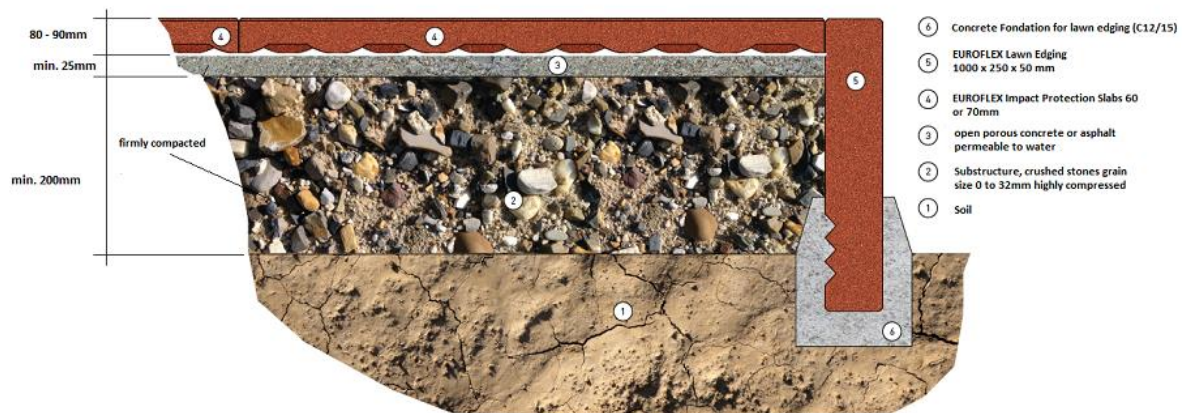
page 1 of 7

Preparation Subbase

Unbounded Subgrade



Bounded Subgrade



Note: The basement is removed to a depth equal to the system's thickness plus 80 mm (or 90 mm) for the installation, as verified by the acceptance inspection of the subgrade. The edge trim shall be flexible, consistent with the EUROFLEX® Lawn Edging.

Subsurface Design / Acceptance Criteria

EUROFLEX® slabs exhibit excellent drainage properties; consequently, the subsurface supporting them must provide adequate drainage as well. Paved surfaces (e.g., concrete or asphalt) should be level and achieve an approximate 2% slope and include sufficient takeoff drains. Any depressions exceeding 3 mm in depth that can collect water must be leveled with suitable materials. Like other elastomeric materials, EUROFLEX® products absorb heat when exposed to direct sunlight, resulting in surface temperatures that can exceed those of asphalt under the same conditions. To minimize overheating, EUROFLEX® products should be installed and stored in shaded areas whenever possible.

Preparation of the Subsurface

Proper construction and acceptance inspection of the 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 minimum depth of 300 mm, plus the thickness of the slabs to be installed.

If the area to be covered does not have an enclosing edge trim, install EUROFLEX® Lawn Edging to promote safer playing conditions.

EUROFLEX® slabs are elastic with open pores. Depending on weather conditions and rainfall, dimensions may vary.

If questions arise 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, recheck levelness and correct any uneven areas with suitable material. Subsurfaces such as concrete or asphalt must be perfectly level with no vertical height differences. To avoid water accumulation, a slope of at least 2% is required, leading to an effective take-off drain system.

Surfaces must be free of cracks, clean, and free of oil or other contaminants. Regardless of subsurface type, the surface shall not deviate from level by more than 5 mm over a 3-meter span.



stable compacted

Crushed stones, Grain Size 0-32 mm



or comparable – even leveled

crushed sand/stone chippings 0/5mm, 0/8mm



stable compacted

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page 4 of 7

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 precisely perpendicular (at 90°) to the first. Validate perpendicularity using the 3-4-5 rule: from the intersection point of the lines, measure exactly 3 m along the first line and mark the point; measure exactly 4 m along the second line and mark that point. The distance between the two marked points should be exactly 5 m if the lines are perpendicular.

The dimensional tolerance of EUROFLEX® slabs as manufactured is approximately $\pm 0.8\%$ in length and width, and ± 2 mm in thickness. Dimensional variations may be caused by slab storage in stacks (elastic compression due to stack weight) and changes in thermal expansion and ambient temperature.

To minimize dimensional variations, follow these procedures:

- Ensure all slabs to be laid are at the same temperature throughout the installation.
- Place the slabs on the ground for 2 hours prior to final installation to allow them to regain their original dimensions.
- Install all slabs in a single session to maintain consistent installation conditions.



Begin with the premise that ideal installation conditions require an ambient site temperature above 4°C for at least 24 hours prior to installation. If the site ambient temperature remains below 4°C, store the slabs to be installed in a dry environment at a temperature of at least 10°C for a minimum of 72 hours prior to installation.

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

Install the EUROFLEX® Softsystem: assemble the installation base frame and secure it, then place the slabs atop the frame.

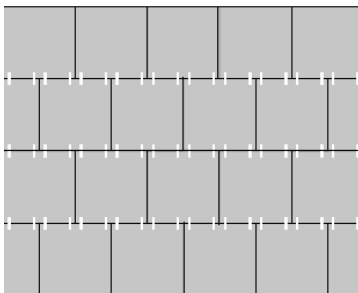


After precise subbase preparation, install the EUROFLEX® Softsystem by laying the mat layers in an offset configuration. The geomembrane should overlap, and the mats should be butt-jointed.

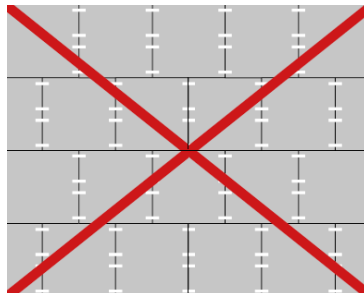


Install the initial row of EUROFLEX® slabs by positioning them precisely along the chalk line. Begin each subsequent row (starting with the second row) with a half slab. Connect the slabs of the second row to the first row using integrated connector pins. The masonry-style arrangement enhances the stability of the installed slabs. Cut the final slab in each row to the required size using a heavy-duty carpet knife or a sabre saw.

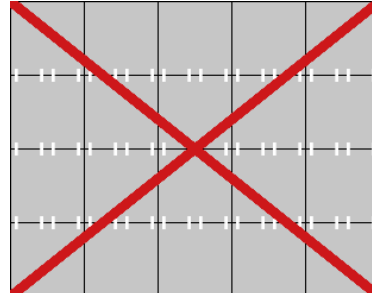
Correct: „T“-joints



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



Incorrect: cross joints



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page 6 of 7

Gluing is only needful by bonded subbase and using edge and corner profile as bordering



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 to be ordered from KRAIBURG.

Preparation: Surfaces must be clean, dry, and free of grease. Verify adhesion to and compatibility with plastic and painted substrates prior to installation. Gluing: Apply adhesive cement from a dispensing gun onto the substrate. The required layer thickness depends on the materials being joined. Within 10 minutes, place the upper material and apply uniform contact pressure. Given the pasty consistency of the cement, maintain contact pressure until curing is complete. The curing time depends on the layer thickness and ambient humidity.

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

Film after 20 min at 23°C

Curing time after 24 h at 23°C