

Storage of EUROFLEX® Products and adhesive cements

EUROFLEX® products should ordinarily be stored in dry environments at a stable temperature above 10°C. If storage below 10°C occurs, allow the slabs to come to the installation site temperature (>10°C) for at least 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 sunlight exposure, keep 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



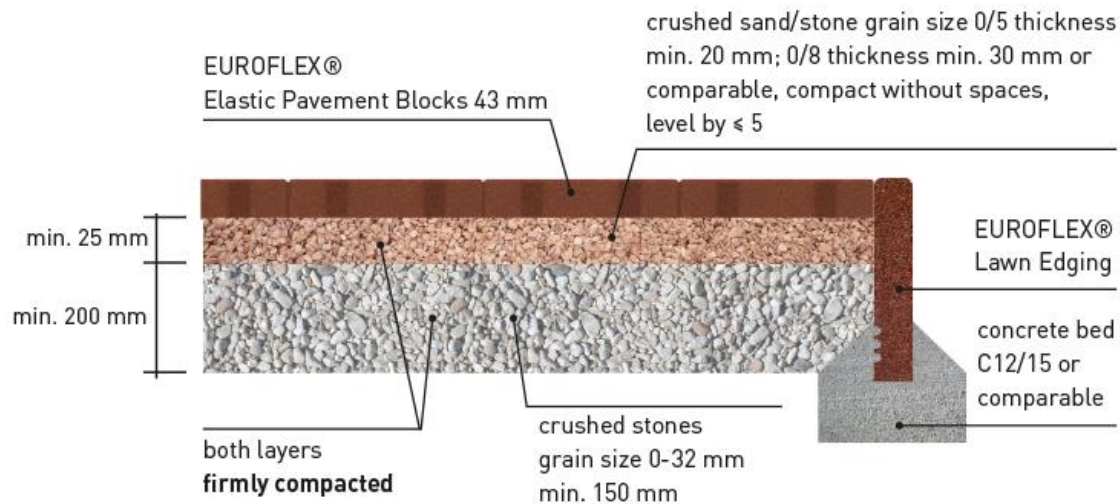
Gluing Application gun for dispensing adhesive cement, adhesive cement cartridges, work glove, kneepads



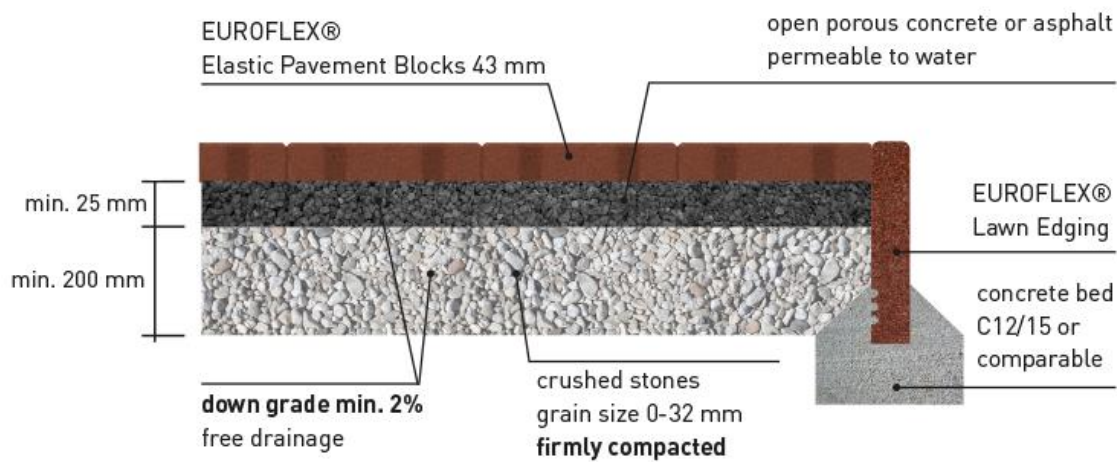
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Preparation of Subsurface Preparation unbounded subgrade



Preparation bounded subgrade



Note: The basement excavation depth should include the planned thickness of the blocks. An acceptance inspection of the subgrade is recommended prior to installing the blocks.

Subsurface Design / Acceptance Criteria

EUROFLEX® blocks possess high drainage performance. Consequently, the subsurface beneath them must provide adequate drainage as well.

Paved surfaces, such as concrete or asphalt, should be level and sloped at approximately 2%, with proper takeoff drains.

Any depressions exceeding 3 mm in depth that can accumulate water must be leveled using suitable materials.

As with other elastomeric materials, EUROFLEX® products experience heat absorption when exposed to direct sunlight, and surface temperatures may exceed those of adjacent asphalt under similar conditions. To minimize overheating, install and store EUROFLEX® products in shaded areas whenever feasible.

Preparation of the Surface

Proper construction and acceptance inspections of the subsurface prior to installation are extremely important. The following instructions must be followed exactly by the contractor performing subsurface preparation and by the EUROFLEX® blocks installer during subsequent acceptance inspections.

Remove existing soil to a depth of at least 300 mm, plus the thickness of the slabs to be installed.

If an edge trim enclosure is not present around the area to be covered, install EUROFLEX® Lawn Edging to promote safer playing conditions.

EUROFLEX® blocks are elastic products with open pores. Depending on weather conditions and rainfall, dimensions may change.

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% standard Proctor density.

After applying the final layer, recheck levelness and correct any uneven spots with suitable material.

Paved subsurfaces such as concrete or asphalt must be brought to an absolutely level surface with no vertical deviations. To avoid water accumulation, ensure a slope of at least 2% that directs water toward a take-off drain system.

Surfaces must be free of cracks and 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 3 m span.



Evenly remove crushed sand - chippings mixture 0/5 mm, 0/8 mm and compact to a stable consistency.

Perpendicularity Check, Minimization of Dimensional Variations

Begin installation by laying a chalk line parallel to and at a full slab width from one edge of the surface to be covered.

Lay a second chalk line exactly perpendicular (at 90 degrees) to the first.

Verify perpendicularity using the 3-4-5 rule: from the intersection point of the lines, measure exactly 3 meters along the first line to mark a point, then measure exactly 4 meters along the second line to mark another point.

The distance between these two points should be exactly 5 meters if the lines are perpendicular.

The dimensional tolerance of EUROFLEX pavement blocks as manufactured is 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.

To minimize dimensional variations, the following procedures are recommended:

Ensure that all blocks to be laid are at the same temperature throughout the installation.

Install all blocks in a single session to maintain consistent conditions.

For optimal installation conditions, ambient site temperatures should have remained above 4°C for at least 24 hours prior to installation. If site ambient temperatures are expected to be below 4°C, store the slabs for installation in a dry area at a temperature of at least 10°C for at least 72 hours prior to installation.

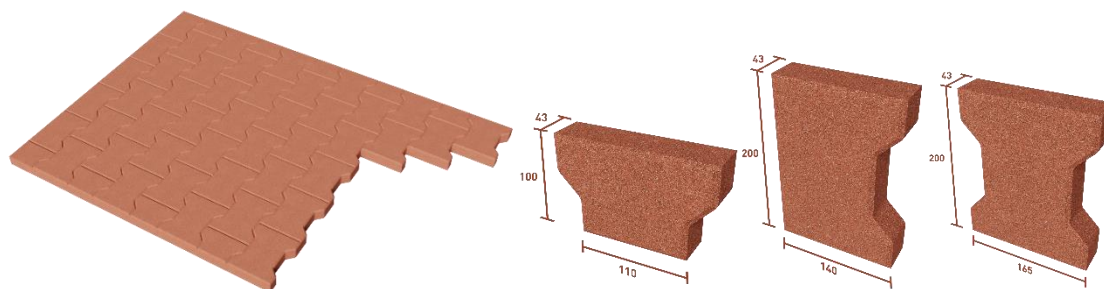
Do not install EUROFLEX® blocks if low ambient temperatures (below 4°C) are expected at the installation site for an extended period.

Installation of Blocks

Due to production reasons, there may be slight variations in the cut surface of the starter stones, which do not affect installation or function.

Begin installation with a starter block placed in a corner of the edging surrounding the area to be surfaced.

Install the first row of blocks up to the edge boundary on the opposite side.



1m² = 35 full blocks

Begin the second row with a half block and continue with full blocks as shown in the illustration above.

Fit the blocks closely together, ensuring that stone chippings do not enter the joints between them.

Be sure to glue all starter blocks and half blocks to the adjacent blocks and/or the edging.

When installing around existing play equipment or within non-uniform perimeter shapes, cut blocks as needed and glue them to the adjacent blocks and/or the substructure.

The blocks can be cut easily with a low-speed sabre saw (wood blade with medium teeth) or a carpet knife used in conjunction with a steel straightedge.

For installation over curved surfaces, depressions, or contours with radii of curvature between 4 m and 8 m, use half blocks in appropriate quantities. Install as described above within the edge trim enclosure, e.g., EUROFLEX® Lawn Edging.



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Cutting EUROFLEX® Elastic Pavement Blocks

Cutting can be performed with a jigsaw or a plunge saw.

A drawback of these methods is the generation of rubber dust.

Precise and dust-free cutting can be achieved with a sturdy cutter knife.



Curves should be marked before cutting.





Attention: Please calculate 3% for cutoff.

For the exact calculation, please note that for the sides with beginner's stones an additional requirement of + 0.17m² per linear meter must be calculated!

Example: 1m² H stones with whole and half stones (35 pcs.)



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Example: 0,83m² with beginner, whole and half stones



beginner

Gluing is only recommend for small pieces in the edge area.

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 **grey** and Ottocoll M 500 **red** can be obtained from us.

Preparation:

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

Gluing:

Apply adhesive cement with a caulking gun onto the substrate. The required layer thickness depends on the materials being joined. Within 10 minutes, place the upper material and apply contact pressure. Due to the cement's pasty consistency, it is recommended to maintain contact pressure until curing is complete. The required curing time depends on the layer thickness and the ambient humidity.

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

Film after 20 min at 23°C

Curing time after 24 h at 23°C