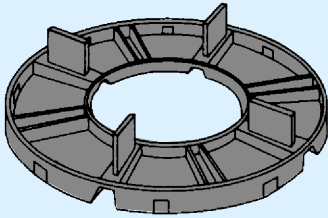


# HELASTORING

SUPPORT FOR PREFABRICATED FLOORS



## PROBLEM

The flooring of terraces suitable for pedestrian use, laid directly over the waterproof coat can cause considerable inconvenience. In the daytime, the floor expands when heated by the sun's rays, whereas, at night, when radiation stops, the floor cools and therefore contracts. These alternating movements, focused along the floor's expansion joints, are transmitted to the waterproof coat underneath, damaging it by fatigue. To eliminate this inconvenience, the floor must be insulated from the waterproof material underneath.

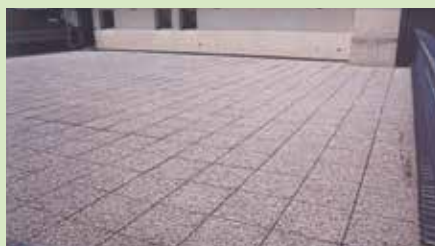
## SOLUTION

**HELASTORING** is a plastic support for prefabricated cement squares. With **HELASTORING**, the floor does not touch the waterproof coat, but is separated from it by an interspace and, therefore, can expand without compromising the consistency of the coat.

## APPLICATION FIELDS

**HELASTORING** was designed for laying exclusively on multi-layer bituminous waterproof material, and on bituminous layers.

**HELASTORING** has an external diameter of 154-mm and is 14-mm thick. By using the



**HELASTORING** waterproofing ring, secure terraces can be built, that do not allow water to pass through.

The floor is completely prefabricated, is applied dry, does not require any mortar, can be laid in any season, does not require specialised labour, and has no joints, because they are included in the **HELASTORING support**. The slabs need only be rested over. If the waterproof coat has to be repaired, there is no need to demolish the floor - you just lift up a few squares to carry out maintenance.

No more puddles! rainwater flows directly to the drains between the open joints of the squares.

By using **HELASTORING**, terraces can be dismantled and can get to LEED credits according to GBC criteria.

## METHOD OF USE AND PRECAUTIONS

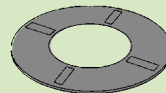
**HELASTORING** is simply laid dry on the waterproof material. Procedure for applying the squares over the **HELASTORING** supports: lay the slabs on the four corners of the ring and push them against the spacers. When the first row has been laid to measure, the next row will, as a result, be correctly aligned.

By applying 50x50 cm tiles, you will need 4 pieces for m<sup>2</sup> of **HELASTORING**, while by applying 40x40 cm tiles, you will need 6,25 pieces for m<sup>2</sup>.

**HELASTORING** is designed for easy division into fractions:

- use a half-ring for the row of slabs adjacent to the perimeter wall;
- for the corner square, use the quarter-ring;
- to rest three slabs adjoining an external angle, use the three-quarter ring.

The **LEVELLING DISK** is a **HELASTORING** accessory which is applied as a wedge to stabilise the squares that are not sufficiently flat or when the laying surface is uneven (thickness 2,9 mm).



The disk is usually used in quarter sections and is fitted between **HELASTORING** and the edge of the shaky slab. In terraces whose dimensions are an exact multiple of the slab size, the row adjoining the perimeter wall must be cut. In the case of small sizes, the gap between floor and relief can be filled with fine gravel. The drain holes should be laid at the waterproofing height and should be supplied with a flat leaf guard grille.

Do not stucco the joints between the squares, but leave them free to help the water flow out quickly.

If the flooring is laid over heat insulation material, use insulating material with compression resistance of over 2 kg/cm<sup>2</sup>.



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