



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.

FIELDS OF USE

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

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.

PRECAUTIONS AND METHOD OF USE

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.

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.

The disk is usually used in quarter sections and is fitted between **HELASTORING** and the edge of the shaky slab.

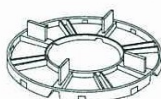
In terraces whose dimensions are an exact multiple of the slab size, the row adjoining the perimeter wall must be cut. In the case of small sizes, the gap between floor and relief can be filled with fine gravel. The drain holes should be laid at the waterproofing height and should be supplied with a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

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

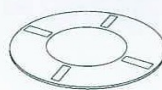
If the flooring is laid over heat insulation material, use insulating material with compression resistance of over 2 kg/cm².



DIMENSIONS



HELASTORING	
Thickness mm	External ø mm
14	154



LEVELLER	
Thickness mm	External ø mm
2,9	154

QUANTITY OF SUPPORTS

- 50x50 cm squares No. 4,00/m²
- 40x40 cm squares No. 6,25/m²



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Support for Prefabricated floors

- Support Rings and Spacers



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Purpose and use	INDEX Elastorings are designed to support concrete pavers on each corner of the paver. The Elastorings can be snapped into two halves for commencing the laying against the wall or in quarters for commencing out of a corner. They can be used to support timber framework over-sheathed in timber slats as a decking or catwalk panels. Depending upon the weight of the structure and the intended use, place on Elastoring at 600mm centres, both ways.
Elastoring Spacers Purpose and use	To provide additional support where required. To cater for substrate irregularities to ensure pavers are level and firm. To cater for substrate falls at 3mm increments over the length of the paving slab.
Plan layout; calculate quantities on flat substrate	On opposite side of pamphlet we provide the quantities of supports for two sizes of pavers. For other sizes, multiply length by width and divide into 1.0 m ² which will advise the number of Elastorings required per m ² .
Elastoring stacking	Elastorings are designed to be used one high and with Elastorings Spacers (up to 3) to provide additional support and to level pavers where undulations or slight falls within the substrate. Stacking of Elastorings on top of each other will require one Elastoring Spacer between each Elastoring. Do not exceed 4 Elastorings stacking. Hitchins New Zealand Limited can provide stronger adjustable paver supports for high variations above 35mm to 100mm.
Additional supports	Depending upon the degree of slope, size and weight of pavers and stacking of Elastorings, Hitchins recommends a plastic bag part filled with runny concrete and sealed, be placed in the centre of each paver.
Plan layout calculate quantities slopping substrates	Installers are advised to use a 2 metre (minimum) metal straightedge and a level to calculate the fall in the substrate and what is required to level the pavers. This will enable you to calculate the height at each paver and what number of Elastorings and Spacers are required at that point. The responsibility for calculating quantities is the tendered or layer of the pavers.
Adjustable paver supports	Hitchins can provide adjustable paver supports. Please enquire on this range, availability and cost.

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