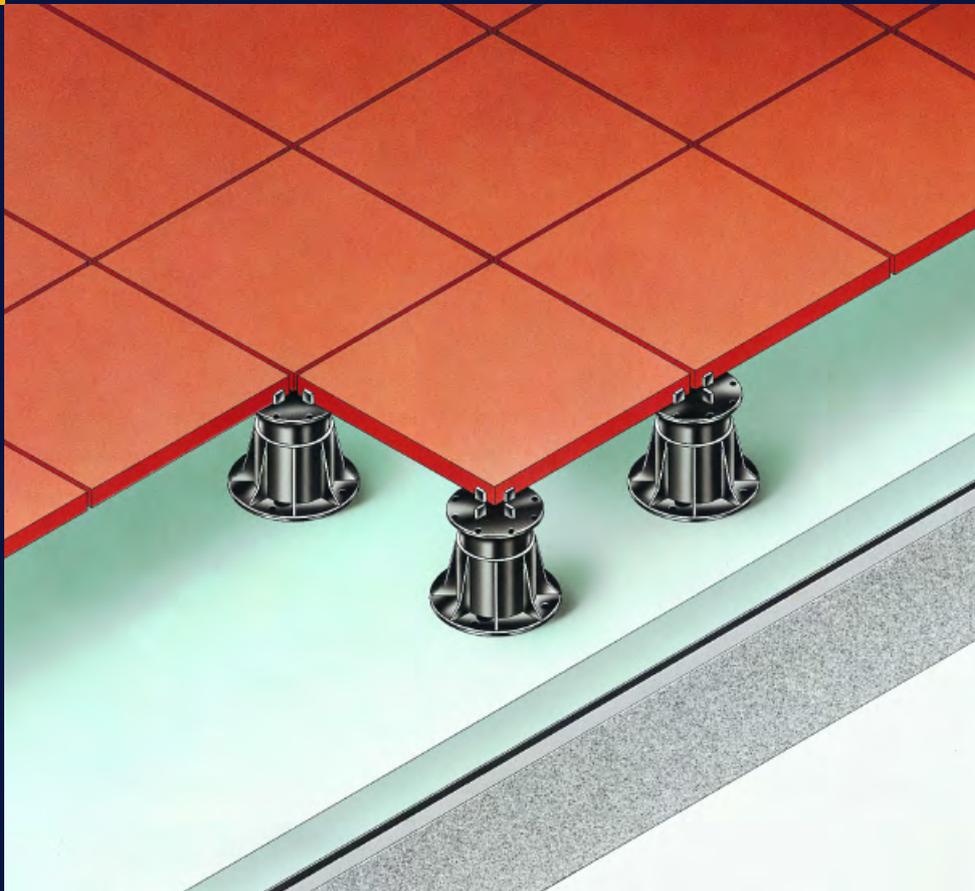


Uniclass
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(90.4)

Alumasc

Raised Floor Support Systems

Harmer Modulock and Harmer Uni-Ring



Raised Floor Support Systems

Introduction

Harmer raised floor support systems from Alumasc comprise two product ranges-Harmer Uni-Ring and Harmer Modulock. They are designed to meet a wide variety of floor support situations, including terraces, walkways, balconies and ballasted flat roof constructions.

Harmer Uni-Ring

A versatile and economical system for concealed drainage beneath paving slabs.

Features

The Harmer Uni-ring system is based on shallow injection moulded polyethylene rings that are positioned to support adjoining slabs at each corner whilst maintaining open joints for drainage.



Key Benefits

- Stackable units with spacers for open joint drainage when required
- Spacers are collapsible for closed jointing and edge detailing
- Shims for fine height adjustment
- Economical and flexible support system
- Full load spread, units not required to subdivide for edge or corner detailing



Harmer Modulock

A fully engineered raised floor pedestal system for supporting paving slabs, timber or plywood sheet decking at varying heights from the sub-structure.

Features

Harmer Modulock comprises four basic modules, each with supporting head and base component, allowing a wide range of void heights. Modules are used either individually or in combination to give floor voids ranging from 42mm to 400mm. Arrangements from 400mm up to 600mm are possible using additional screw couplings and stabilising wire to brace the pedestals.

When supporting timber or plywood decking, Harmer Modulock can provide a watertight raised floor that is ideal for accommodating services within the void.

Shims and levellers are available for fine adjustment at base and head.



Key Benefits

- Wide range of height adjustment from 42-600mm
- Fine adjustment for both height and level are possible
- Spread leveller for correction of cross falls
- Locating blades on head assist positioning of slabs and maintaining open joints when required
- Locating blades can be removed if required
- Allows for the accommodation of services beneath the floor



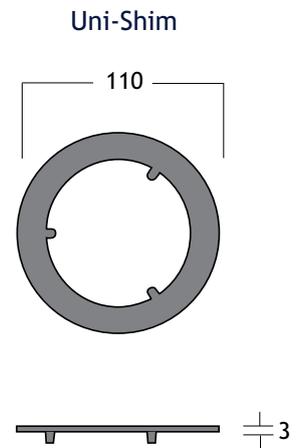
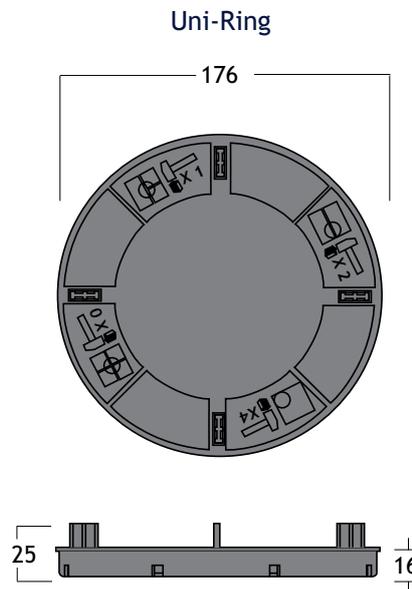
Harmer Uni-Ring - Range Summary & Installation

Range Summary

Basic components

- Ring with collapsible spacers
- Height adjustment shims

Harmer Uni-Ring is quick and easy to install, and provides fast, efficient drainage through the open joints of the slabs to the concealed drainage below. The system is ideal for any waterproofed substructure and especially for inverted roof constructions where ballasted insulation is laid onto the waterproofing layer of the flat roof. Traditional bedding and grouting materials are not required, and once installed, the paving slabs can be easily lifted for simple inspection of the drainage outlets and for substructure maintenance.



SCALE 1:4

The scale drawings on this page are provided to assist in the preparation of installation details.

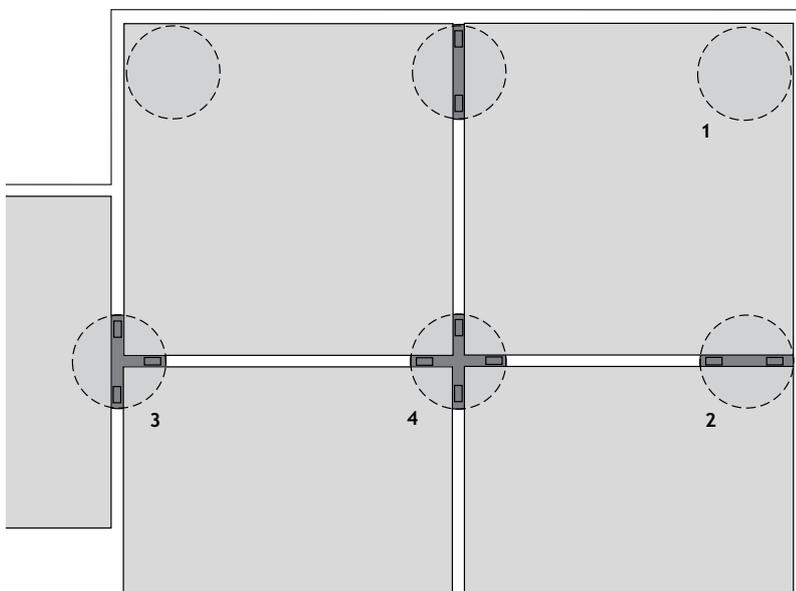
All dimensions are in millimetres.

A maximum of 2 No. Uni-Shim can be used per Uni-Ring.



- 1 Injection-moulded polyethylene body
- 2 Collapsible spacer - hammers down into body of Harmer Uni-Ring when not required

Installation



Notes

1. All four optional spacers hammered down flush with ring at perimeter of enclosing wall or parapet.
2. Two optional spacers hammered down at junction of two slabs.
3. One optional spacer hammered down at junction of three slabs.
4. All four optional spacers left upstanding at junction of four slabs.

Harmer Uni-Ring can accommodate a variety of paving slab thicknesses. The unit sizes, spanning capacity and loading of the slabs will determine the spacing and layout pattern of a paving slab support system.

Harmer Modulock - Range Summary

Range Summary

Basic Components

- Leveller 0° to 5°
- Head with integral locating blades
- Screw coupling
- Support base
- Shim

1 Leveller - type PH5 clips onto Supporting Head and adjusts up to 5° of level for complete stability and contact with the underside of floor. For use on B2-B7 ranges only.

Adjustment is in 10mm increments from 0-50mm over 1 metre.

2 Supporting Head - screws directly into the base or intermediate coupling. The 150mm diameter head has 4 no. 4mm thick blades which can be removed for edge or corner detailing.

3 Locating Blades - 4 no. 4mm thick as standard. Simply by removing locating blades, the Harmer Modulock can be used at perimeter wall conditions.

4 Cutaway slots - when visible marks limit for height adjustment.

5 8 optional fixing holes - 8mm diameter for nut and bolt fastenings.

6 Screw coupling - for use when the pedestal height exceeds 200mm, features an easy grip hand adjustable screw connection.

7 Side lugs - allow pedestal to be wire-braced for improved stability where height is over 600mm.

8 Supporting base - stands freely on, or can be secured to, the sub base - 200mm diameter x 5mm thick base.

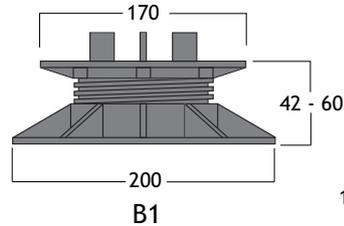
9 Shim - for use where sub-base is uneven or laid to fall.

Available in 1mm (E10) and 2mm (E20) thickness. Can be used as an alternative to leveller.

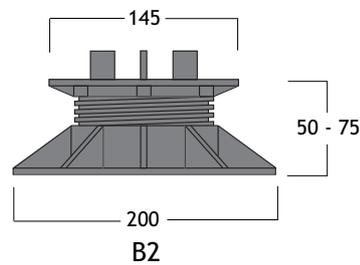
The scale drawings on this page are provided to assist in the preparation of installation details. All dimensions are in millimetres.

SCALE 1:5

Basic Modules

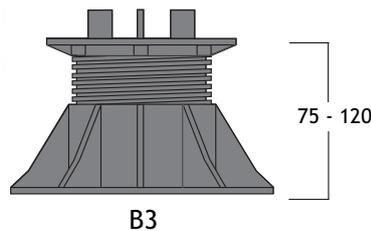


B1

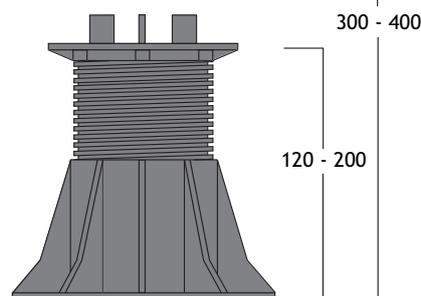


B2

Note: Base and supporting head dimensions are identical on B2 - B7 ranges

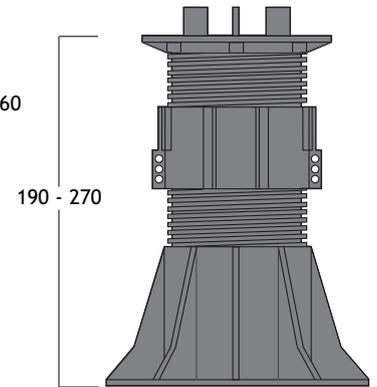


B3

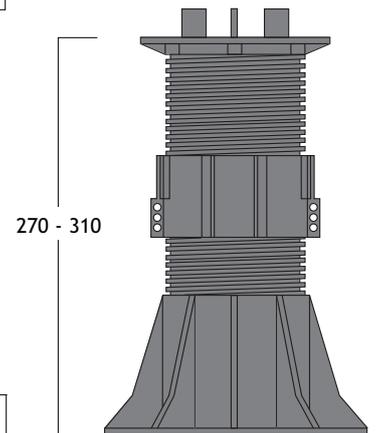


B4

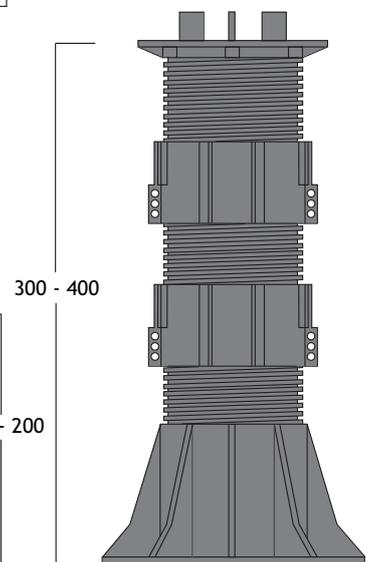
Module Extensions using screw couplings



B5



B6



B7



Harmer Modulock - Installation

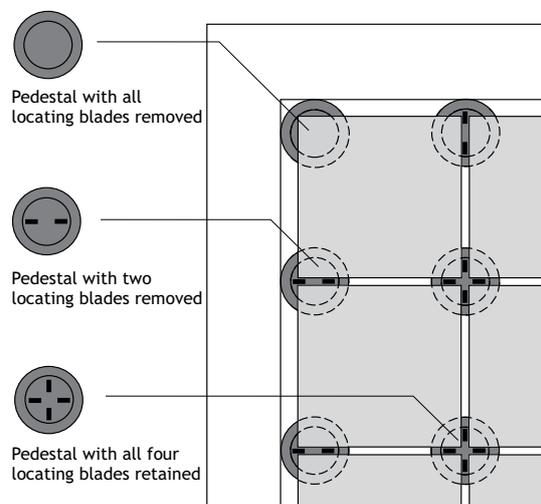
A stable sub-base and, in the case of exposed external use, an adequate means of surface water drainage are virtually the only prerequisites for the use of the Harmer Modulock system. Irregular, stepped, uneven or sloping sub-bases can usually be easily surmounted by the system resulting in a new level raised floor.

The broad sequences of installation are illustrated in relation to a typical paved pedestrian deck erected over an existing drained sub-base.

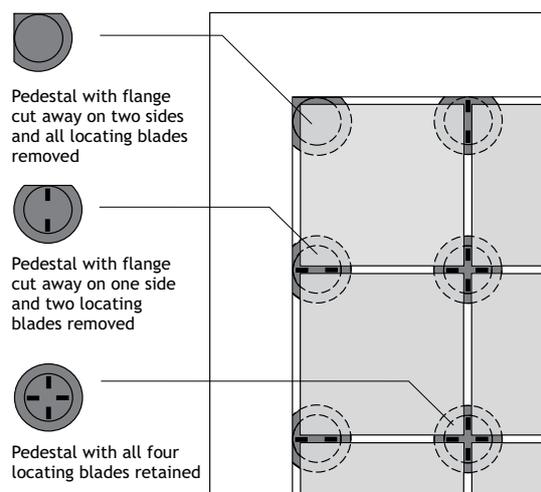
Installation Sequence

- 1 Check condition of sub-base, waterproofing and drainage points. Rectify any defects and clear drainage outlets as a preliminary measure.
- 2 Set out pattern of pedestal supports, selected to suit new deck height and paving modules.
- 3 Use supporting heads with linear blade configurations at edges of deck and at any intermediate surface interruptions.
- 4 Insert levelling shims where necessary to counteract excessive base slopes.
- 5 Adjust pedestal screwjacks to the approximate height required, checking for level and alignment.
- 6 Finalise the layout of the pedestals. For convenience, use a lightweight template for checking positions and to avoid undue lifting of heavy paving slabs.
- 7 Proceed to lay the paving slabs, ensuring that each slab corner is firmly seated on the pedestal head and butted up to the locating blades.
- 8 Final adjustment to level can be made by turning the base component whilst the head component remains static under the paving junction. Continue the process to completion.

Alternative Edge Details



1. With wide open joint at perimeter.



2. With narrow open joint at perimeter.

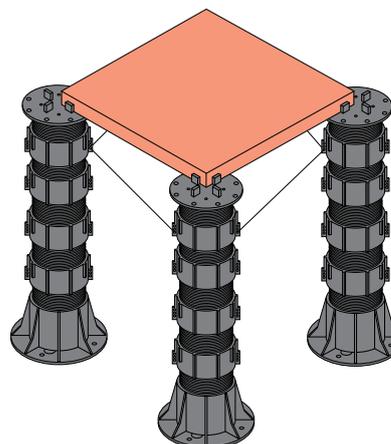
For Extended Floor Height

When screw couplings are added to the basic modules to obtain the maximum 600mm floor void, a restraining wire should be used.

The wire should be threaded through the perforated fin of the topmost screw couplings for maximum stability, as shown below.

For Sheet Decking

When Harmer Modulock is used to support a waterproofed deck or raised floor, the pedestal body may be mechanically fixed to the sub-base, through pre-formed holes in the bottom flange, locally bonded with adhesive or set in cement dabs. The locating blades in the top of the pedestal body, which would ensure accurate placing of the paving slabs and an even drainage gap between, can simply be knocked away to give a flat bearing surface for fixing a timber or continuous plywood sheet deck.

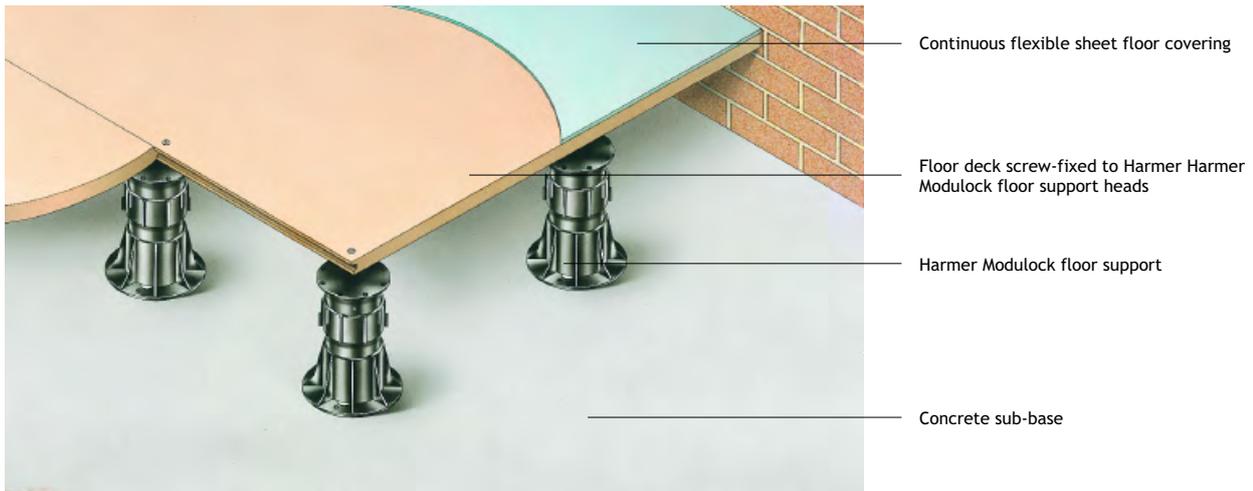


Application Details

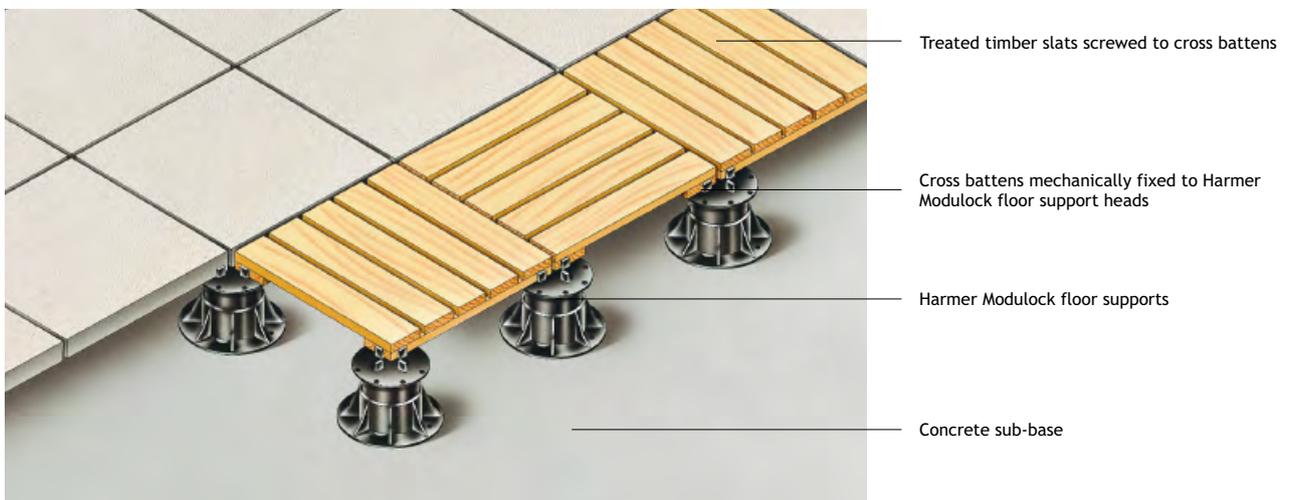
1. Paving slabs with open joints on Harmer Modulock



2. Sheet decking on Harmer Modulock with weatherproofing on top if required

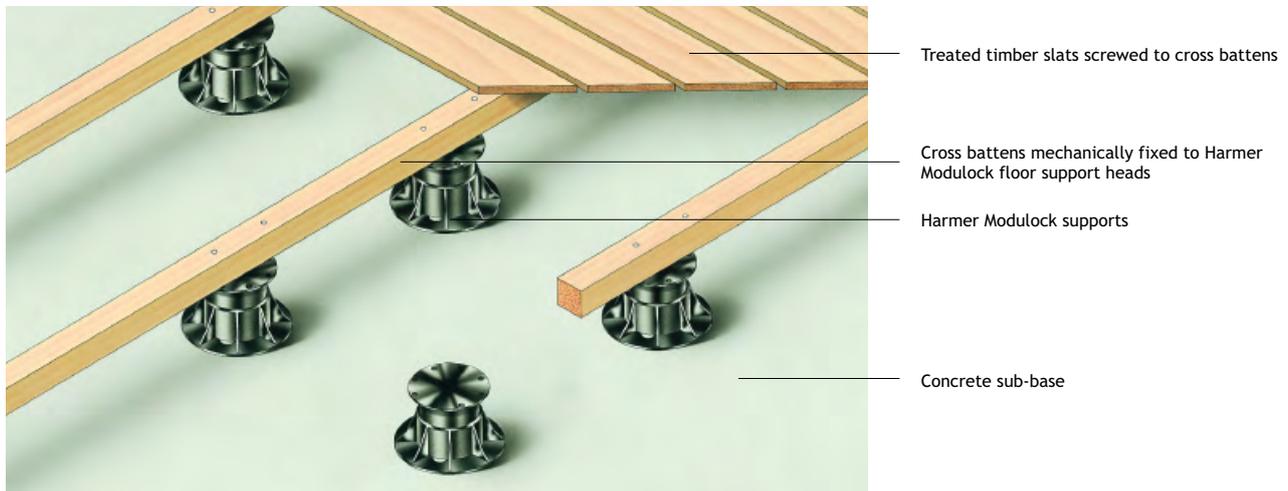


3. Battens with wide open jointed boarding, on Harmer Modulock

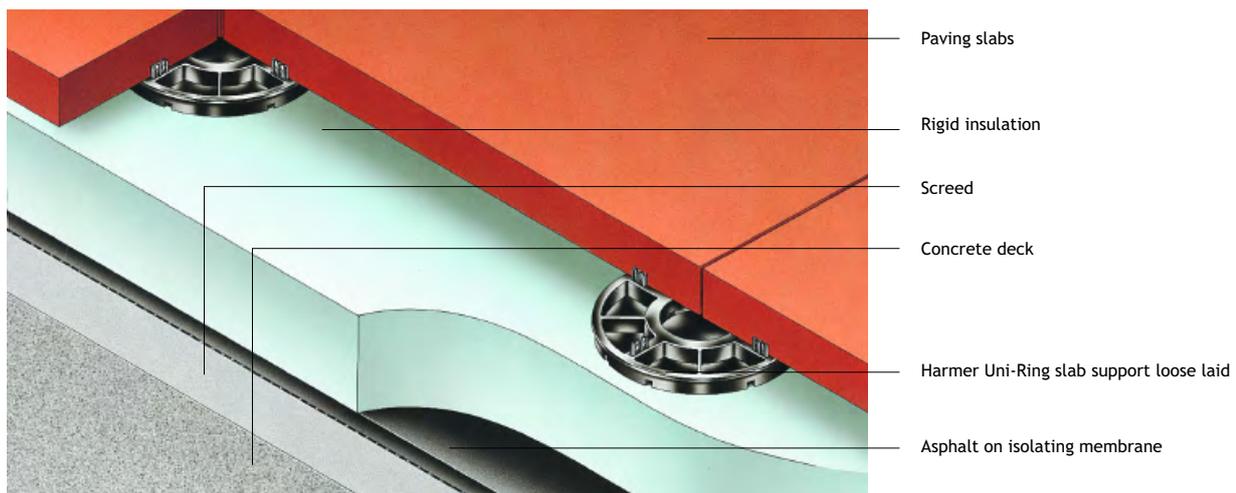


Application Details

4. Timber slats on battens, on Harmer Modulock



5. Paving slabs on Harmer Uni-Ring



Model Specification

Harmer Modulock - timber decking

Install treated timber decking (as specified elsewhere) on timber cross-battens, mechanically fixed with self-tapping screws to Harmer Modulock support (reference/s) head flanges (locating lugs removed).

Harmer Modulock supports to be loose laid onto sacrificial polyester filter sheet, laid loose over inverted insulation boards.

Harmer Modulock - concrete paviours

Install concrete paviours to BS 7263: Part 1 (as specified elsewhere) seated on Harmer Modulock adjustable paving

supports (reference adjustable between and mm), incorporating couplers and slope corrector heads, onto geotextile filter sheet, laid loose over inverted insulation boards.

Paviour separating lugs to be 4.5mm uniform width.

Paving supports to be cut as necessary at perimeters and corners, and adjusted to required height, and levelled as appropriate.

Harmer Uni-Ring - concrete paviours

Install concrete paviours to BS 7263: Part 1 (as specified elsewhere) seated on Harmer Uni-Ring paving supports 16mm

thick, onto geotextile filter sheet, laid loose over inverted insulation boards. Packing Uni-Shims 3mm thick also available.

Paviour separating lugs to be 4.5mm uniform width.

Paving supports to be cut as necessary at perimeters and corners, and adjusted to required height, and levelled as appropriate.

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