

# HP Partial Fill Cavity Slab

## Tools required

- Insulation saw
- Tape measure

## Fixing and application

### Installation Preparation

- Assemble tools such as an insulation saw, tape measure and PPE (personal protective equipment) such as gloves, mask if working in an unventilated area, and eye protection when working overhead. Cover all exposed skin. Refer to the EURIMA health and safety guidelines for further guidance when working with mineral wool.
- Carry out a pre-work safety check, identifying any potential hazards such as ease of access, work heights, trip hazards, and electrical safety. Check the construction ensuring it is structurally sound and free from defects such as corrosion, splitting, cracking and look for signs of leaks and moisture which can cause rot and mould.
- Clean and prepare the area for installation. Clear space to hold the insulation, if installing into floors below, or in a loft, use a kneel board and protective knee pads. When installing overhead wear protective eyewear. If installing at height, it is recommended this is done from a suitable structure such as scaffolding, rather than a step ladder, so that both hands can be used to safely fit the insulation. Ventilate the area if possible, and ensure it is well lit.

## Health & safety

The mechanical effect of fibres in contact with skin may cause temporary itching.



Cover exposed skin  
When working in unventilated area wear disposable face mask.



Clean area using vacuum equipment.



Waste should be disposed of according to local regulations.



Rinse in cold water before washing.



Ventilate working area if possible.



Wear goggles when working overhead.

## Procedure

The walls should be constructed with the inner leaf leading, with HP Partial Fill Cavity Slab fastened to the cavity face of the inner leaf. For optimum performance, the cavity slabs should be placed with the patterned face outwards.

1. A section of the inner leaf should be built with the first row of wall ties at approximately 600mm horizontal spacing where the insulation is to begin. It is recommended that the wall ties are not placed directly on the damp-proof course.
2. The first run of slabs should commence below the damp-proof course level to provide overlap edge insulation at the floor interface.
3. The inner leaf should be built up to the required height, with wall ties placed at a vertical height of 450mm. Excess mortar should be cleaned from the cavity face of the leading leaf and the slabs compressed slightly between the upper and lower wall ties behind the retaining clips. This is to form a closely butt-joined run.
4. The second row of wall ties should be fitted to retain the tops of the slabs. It is essential that all wall ties slope downwards towards the outer leaf and at centres not exceeding 600mm to ensure that each slab is secured at a minimum of four points.
5. Additional ties may be required to satisfy the structural requirements and/or to ensure adequate retention of slabs or cut pieces. Alternatively, the slabs can be retained against the leading leaf using mechanical fixings with 70mm diameter washers.
6. Complete successive sections of wall up to the roof line.

## Advisory notes

1. All areas of the wall must be insulated – do not leave gaps. Ensure that the patterned side faces outwards.
2. Close butt the slabs at all horizontal and vertical joints. Cut them carefully to fit around any protrusions into the cavity.
3. Close butt joints at corners, being careful not to bend the slabs.
4. Clean off excess mortar from the cavity face of the wall before installing the slab.
5. Do not allow mortar to drop on top of the slabs that are positioned in the cavity. Protect the top of the slabs with a batten during installation.
6. Do not allow mortar to drop into the cavity. After each section of the inner leaf is built, excess mortar should be removed from the cavity face and mortar droppings cleaned from any exposed edges of the installed board. This should take place before the installation of the next run of boards. A cavity batten will protect the installed boards and helps keep the cavity clean as the outer leaf is built up.
7. Where cut slabs of less than full length are installed, a minimum of 2 retaining washers should be provided to support the lower edge of the slab.