

INSTALLATION

ANZ
MJ01

Creating movement joints in cavity walls using HeliBars

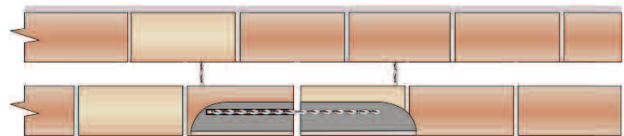
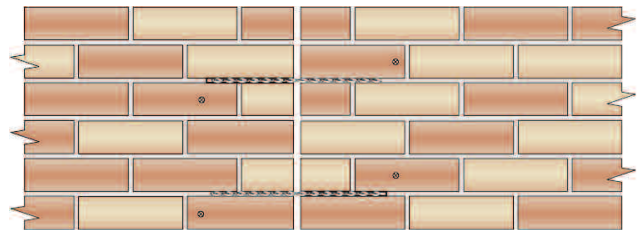
Product	Description	Code
HeliBar	Stainless steel reinforcement with debonding sleeve	HBR
HeliBond	Injectable cementitious grout	HLB
HeliPrimer	Water-based primer for porous substrates	HWB

Method Statement

1. Mark the position on the wall for the movement joint.
2. Install the specified number of appropriate Helifix wall ties adjacent to the location of the movement joint.*
3. Using an appropriate power cutting tool with vacuum attachment, cut slots into the horizontal mortar joints either side of the movement joint, to the specified depth and at the required vertical spacing.* Ensure that as much mortar is removed as possible from the exposed brick surfaces in order to provide a good masonry/grout bond. If the wall is rendered and the mortar joints are not visible, cut the horizontal slots through the render and into the masonry.
4. Cut the movement joint to the specified width and at the required location.
5. Clean out all dust and mortar from the slots and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use HeliPrimer WB. Ensure the slot is damp or primed prior to commencing step 8.
6. Mix HeliBond cementitious grout thoroughly using a drill and mixing paddle and load into the Helifix Pointing Gun.
7. Fit the mortar nozzle to the pointing gun.
8. Inject a bead of HeliBond grout, 10-15mm deep, into the back of the slot.
9. Push the 6mm MovementTie into the grout to ensure good coverage. Ensure that no grout penetrates the sleeved section of the tie, as a small void must remain at this end of the tie to allow movement.
10. Inject a second bead of HeliBond grout over the exposed MovementTie to obtain good coverage.
11. Point up the remaining slot with a suitable matching mortar.
12. Seal the joint with a suitable flexible mastic type material.
13. Clean tools with clean, fresh water.

NOTE. Pointing may be carried out as soon as is convenient after the HeliBond has started to gel. Ensure that pointing does not disturb the masonry/HeliBond connection.

CAUTION. Always locate, identify and isolate any electrical, water or gas services which may be present in the wall or the wall cavities and can pose a safety risk before drilling or cutting. Always take the necessary safety precautions. Use electrical safety gloves and wear appropriate footwear and eyewear.



RECOMMENDED TOOLING

- For cutting slotsChisel, mortar saw (e.g. Arbortech All Saw) or angle grinder with dust guard (e.g. C-Tec) and vacuum
- For mixing HeliBondDrill with mixing paddle
- For injection of HeliBond into slotsHelifix Pointing Gun with mortar nozzle
- For smoothing pointingStandard finger trowel

*SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A. Suitable Helifix wall ties to be installed on each side of the newly formed movement joint not more than 225mm back from the joint and at a maximum of 300mm vertical spacing. Refer to Repair Details ANZ RT01-03 for details on Helifix remedial tie installation.
- B. Depth of slot to accommodate the HeliBar MovementTies to be 40mm + the thickness of any render.
- C. Height of slot to equal full mortar joint height, with a minimum of 8mm.
- D. MovementTies should extend a minimum of 200mm either side of the expansion joint.
- E. Alternate the position of the sleeve on adjacent MovementTies.
- F. MovementTies to be installed at a maximum 300mm vertical spacing.
- G. In hot conditions ensure the masonry is well wetted or primed to prevent premature drying of the HeliBond due to rapid de-watering. Ideally additional wetting of the hole or priming with HeliPrimer WB should be carried out just prior to inserting the CemTie.
- H. Do not use HeliBond when the air temperature is +4°C and falling or apply over ice. In all instances the slot must be thoroughly damp or primed prior to injection of the HeliBond grout.

The above specification notes are for general guidance only and Helifix reserves the right to amend details/notes as necessary.

GENERAL NOTES

- Product details available from Helifix.
- Contact Helifix if your application differs from this repair detail or you require specific technical information.