

BMJ02

# Creating movement joints in solid walls using HeliBars

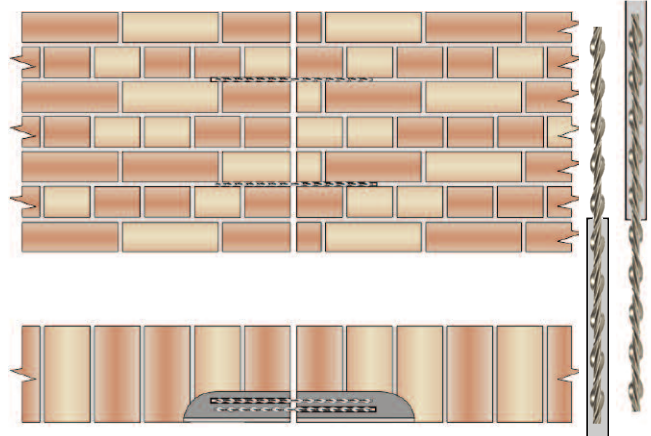
Product	Description	Code
HeliBar MT	Grade 316 stainless steel reinforcement	HMT
HeliBond	Injectable cementitious grout	HLB
HeliPrimer	Water-based primer for porous substrates	HWB

## METHOD STATEMENT

1. Mark the position on the wall for the movement joint.
2. 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.
3. Cut the movement joint to the specified width and at the required location.
4. Clean out all dust and loose 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 7.
5. Mix HeliBond cementitious grout thoroughly using a drill and mixing paddle and load into the Helifix Pointing Gun.
6. Fit the mortar nozzle to the gun.
7. Inject a bead of HeliBond grout, 10-15mm deep, into the back of the slot.
8. Push the first 6mm Movement Tie 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.
9. Inject a second bead of grout over the exposed Movement Tie. Again, ensure that no grout penetrates the sleeved section of the tie.
10. Push a second 6mm Movement Tie into the grout.
11. Inject a third bead of HeliBond grout over the exposed Movement Tie to obtain good coverage. Again, ensure that no grout penetrates the sleeved section of the tie.
12. Point up the remaining slot with a suitable matching mortar.
13. Seal the joint with a suitable flexible mastic type material.
14. 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 slots**.....Chisel, mortar saw (e.g. Arbortech All Saw) or angle grinder with dust guard (e.g. C-Tec) and vacuum
- For mixing HeliBond**.....Drill with mixing paddle
- For injection of HeliBond into slots**.....Helifix Pointing Gun with mortar nozzle
- For smoothing pointing**.....Standard finger trowel

## \* Specification Notes

The following criteria are to be used unless specified otherwise:

- A. Allow for the installation of one HeliBar Movement Tie for each skin of brickwork into each cut slot. By example, a common 230mm solid wall construction (equivalent to two skins of tied brickwork) will require the installation of two Movement Ties per slot. A solid wall equivalent in depth to three skins of bonded masonry will require three Movement Ties assemblies per slot.
- B. Depth of slot to accommodate the HeliBar Movement Ties to be 70mm + the thickness of any render.
- C. Height of slot to equal full mortar joint height, with a minimum of 8mm.
- D. Movement Ties should extend a minimum of 200mm either side of the movement joint.
- E. Alternate the position of the sleeve on adjacent Movement Ties.
- F. Movement Ties to be installed at a maximum 300mm vertical spacing.

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

## GENERAL NOTES

- Helifix product details available at [www.helifix.com.au](http://www.helifix.com.au).
- If your application differs from this repair detail or you require specific technical information, call Helifix on 1300 66 70 71.