



Creating movement joints in cavity walls using HeliBars



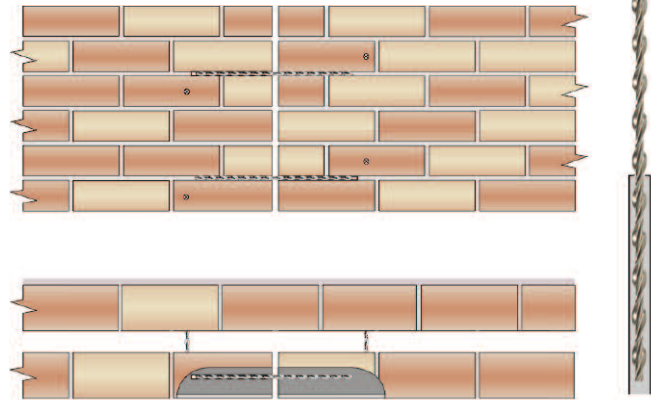
Product	Description	Code
HeliBar MT	Grade 316 stainless steel reinforcement	HMT
HeliBond	Injectable cementitious grout	HLB
HeliPrimer	Water-based primer for porous substrates	HWB

METHOD STATEMENT

1. Mark the position on the wall for the movement joint.
2. 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 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.
10. Inject a second bead of HeliBond grout over the exposed Movement Tie 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 slots**.....Chisel, mortar saw (e.g. Arbortech All Saw) or angle grinder with dust guard (e.g. C-Tec) and vacuum
- For drilling wall tie pilot holes**.....Light-weight SDS rotary hammer drill or rotary percussion drill 650/850w
- For installation of DryFix wall ties**.....SDS rotary hammer drill 650/850w and SDS power driver attachment
- 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. 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 BRT01-03 for details on Helifix remedial tie installation.
- B. Depth of slot to accommodate the HeliBar Movement Ties to be 40mm + 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 expansion 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.
- If your application differs from this repair detail or you require specific technical information, call Helifix on 1300 66 70 71.

EXAMPLE SPECIFICATION

EXPANSION JOINT CUT INTO NEAR LEAF OF 270mm CAVITY BRICK WALL

Material: DRYFIX 8 x 220 and HELIBAR MT6
Product code: HDF8x220 and HMT6mm

INSTALL DRYFIX 8MM DIA. x 220MM L. (HDF8x220) TIES EITHER SIDE OF THE LOCATION OF THE MOVEMENT JOINT AT 300MM VERTICAL CTS AND AT NOT MORE THAN 225MM BACK FROM THE JOINT (SEE HELIFIX REPAIR DETAIL BRT01). CUT THE JOINT AND BOND HELIBAR MOVEMENT TIE 6MM DIA. x 400MM L. (HMT6x400) INTO HORIZONTAL SLOTS CUT ACROSS THE JOINT AT 300MM VERTICAL CTS. USING HELIBOND GROUT. HELIBAR MOVEMENT TIES SHOULD EXTEND A MINIMUM OF 200MM EITHER SIDE OF THE JOINT.

1	HBR	HELIBAR		HELIFIX (AUSTRALIA) PTY LTD		
2	HDF	DRYFIX		TYPICAL WALL TYPE AND HELIBAR MOVEMENT TIE APPLICATION		
ITEM	CODE	DESCRIPTION		SCALE 1:20	DWG No. BMJ01-EXS	SHEET 1 of 1