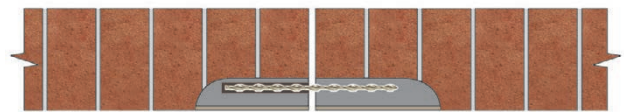
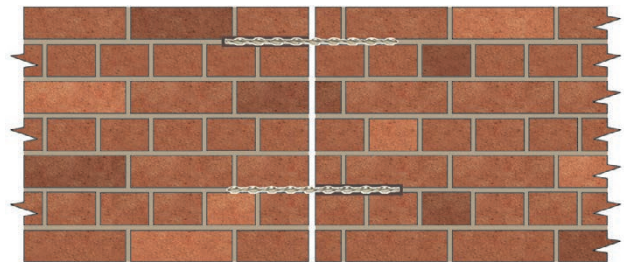
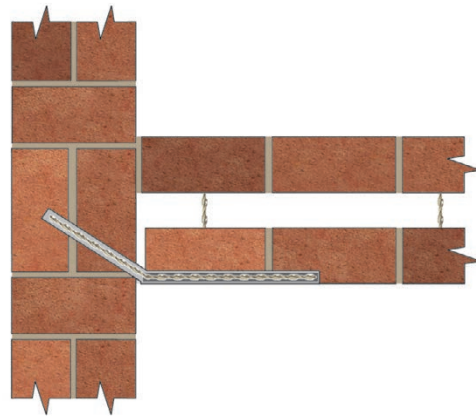
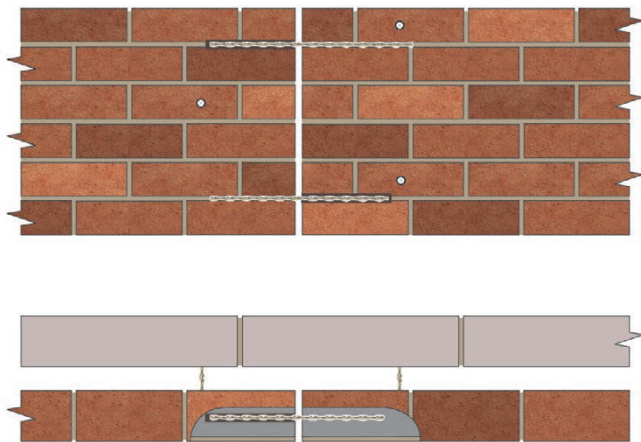


# Creating Movement Joints

HeliBar stainless steel helical bars in plastic sleeves for the creation of remedial movement joints

## Features

- Rapid economical solution to lack of expansion joints
- Stainless steel helical reinforcing bars
- Accommodates differential building movement
- Fully concealed once installed
- Avoids expensive taking down and rebuilding
- Minimal disruption to building's fabric



For full Product Information, Case Studies and downloadable Repair Details, giving specifications for many common structural faults, go to:

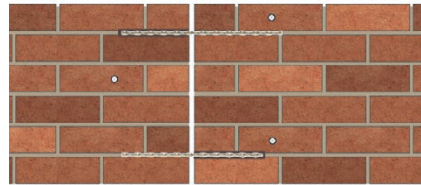
[www.helifix.com/products/retrofit-products/movement-joints](http://www.helifix.com/products/retrofit-products/movement-joints)

# Method Statement

1. With a cavity wall, install the specified number of appropriate Helifix wall ties both sides of the intended new movement joint.
2. Using a twin-bladed, diamond-tipped wall chaser and 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 NO mortar is left attached to the exposed brick surfaces in order to provide a good masonry/resin bond.
3. Cut the vertical movement joint to the specified width and at the required location.
4. Clean out slots and inject a bead of PolyPlus resin or HeliBond grout, approx. 1/2" deep, to back of slot.
5. Fit the de-bond sleeve over one half of the 6mm HeliBar and push the complete assembly into the resin ensuring a good bond between the HeliBond and the sleeve within the slot. Ensure that no grout comes into contact with the end of the



1. Install wall ties both sides of the intended vertical movement joint in a grid pattern



3. Inject resin or grout into the slot and insert the HeliBar/sleeve assembly

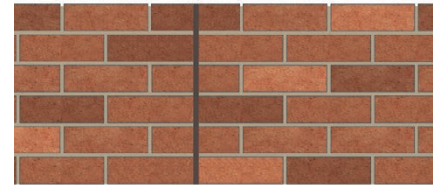


HeliBar covered by the sleeve, as this end must be free to move.

6. Inject a second bead of HeliBond grout up against the HeliBar and tube assembly to obtain good coverage of both.



2. Cut horizontal slots in the mortar beds. Cut the vertical movement joint



4. Make good the slots and wall ties holes. Seal the joint with a flexible mastic material



7. Repeat steps 5 & 6, inserting the debond sleeve to the left and right of the movement joint in the cut slots.
8. Point up the open slot with a matching mortar to suit.
9. Seal the joint with a suitable flexible mastic type material.

# Technical Specifications

Materials:	HeliBar Debond sleeve	Austenitic stainless steel Grade 304 or 316 Clear plastic sleeve
Diameter:	HeliBar Debond sleeve	6mm 9mm
Length:	HeliBar Debond sleeve	16" 8"
Height of slot:		Full height of bed joint. For thin joints contact Helifix.
Depth of slot:		1 1/2" – to accommodate HeliBar and sleeve assembly
Vertical spacing:		As specified on site with maximum spacing of 12"
Bonding agent:		HeliBond cementitious grout
Wall tie spacing:		To be installed on each side of the newly formed movement joint not more than 9" away from the joint and at a maximum of 12" vertical spacing.
<b>RECOMMENDED TOOLING</b>		
For cutting slots up to 1 1/2" deep:		Twin-bladed cutter with vacuum attachment
For drilling pilot hole:		Rotary percussion 3-jaw-chuck drill
For installing DryFix:		DryFix power-driver attachment fitted to SDS rotary hammer drill 650w/700w
For injection of PolyPlus into slots:		PolyPlus Applicator Gun and extension nozzle
For injection of HeliBond into slots:		Crack Stitching Pointing Gun and mortar nozzle
For smoothing pointing:		HeliBond Insertion Tool