

CREATING LOAD BEARING BEAMS IN CAVITY WALLS USING STRUCSOL ULTRABAR, EXTERNAL AND INTERNAL BEAMING (1 OF 2)

Recommended Tooling

- ✦ For cutting slots 40mm deep or over: Twin-bladed cutter with a vacuum attachment.
- ✦ For mixing StrucSol HSGrout: 3-jaw chuck drill with mixing paddle.
- ✦ For injection of StrucSol HSGrout into slots: Pointing Gun CS with Mortar Nozzle.
- ✦ For smoothing pointing: Standard Finger Trowel.
- ✦ For Injection of the StrucSol Crack Filler: A 400ml Mastic Gun is required.
- ✦ PPE Clothing and Protection.

General Notes

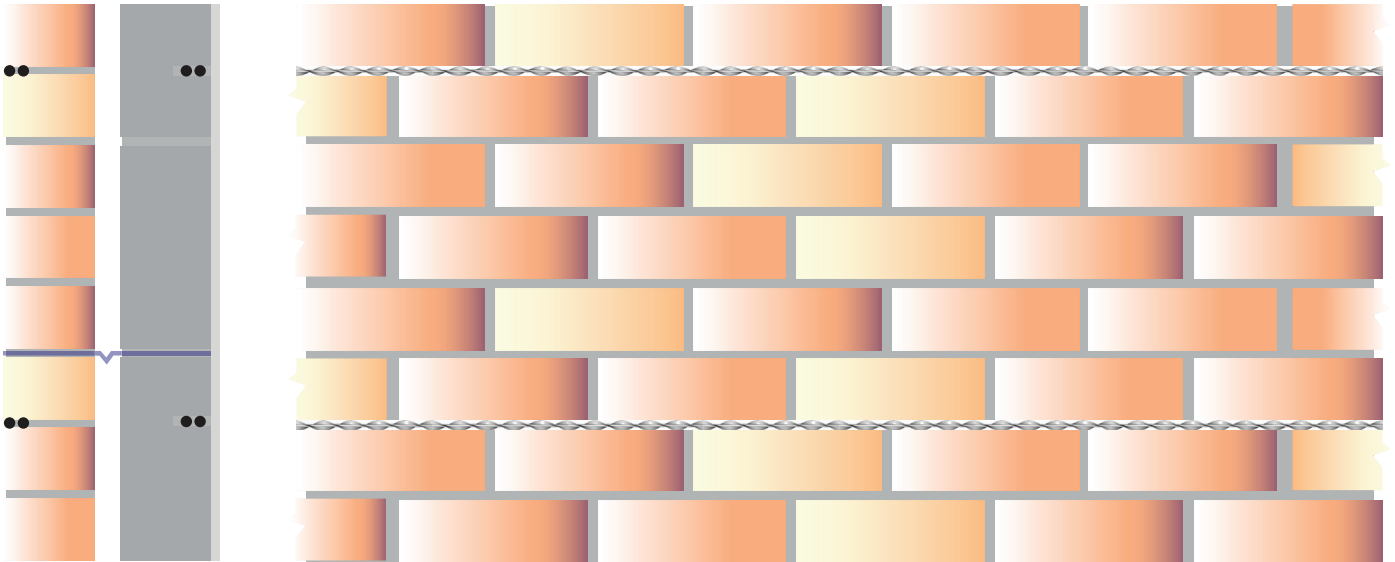
If you require specific advice on your project, please call the StrucSol technical help line 0116 2375082. We can supply a full support service which includes:

- ✦ Advice and assistance on all structural matters.
- ✦ Preparing repair proposals for specific projects.

Method Statement:

1. Using a twin-bladed diamond-tipped wall chaser and vacuum attachment followed by a hand or power chisel, cut slots into the horizontal mortar joints to the specified depth and at the required vertical spacing. Ensure that NO mortar is left attached to the exposed brick surfaces in order to provide a good masonry / grout bond. Internally, if the mortar joints are not visible, cut the horizontal slots through any plaster and into the masonry.
 2. Remove ALL dust and mortar from the slots and thoroughly flush with water. Ensure the slot is damp or primed prior to commencing step 5.
 3. Mix StrucSol HSGrout using a power mixer and load into the Pointing Gun CS.
 4. Fit appropriate Mortar Nozzle.
 5. Inject a bead of StrucSol HSGrout, approx. 15mm deep, into the back of the slot.
 6. Push the first 6mm StrucSol Ultrabar into the grout to obtain good coverage.
 7. Inject a second bead of StrucSol HSGrout over the exposed StrucSol Ultrabar.
 8. Push the second 6mm StrucSol Ultrabar into the grout to obtain good coverage.
 9. Inject a third bead of StrucSol HSGrout over the exposed StrucSol Ultrabar and iron it into the slot using a finger trowel. Inject additional StrucSol HSGrout as necessary, leaving 10-15mm for new pointing.
 10. Point up the slots using a matching mortar. The cracks within the wall should be weather-proofed using StrucSol TE resin or StrucSol Crack Filler and leave ready for decoration. To achieve a near perfect look, use StrucSol Stain Colour Matching mortar.
 11. Clean tools with clean, fresh water.
- ✦ *Pointing may be carried out as soon as is convenient after the StrucSol HSGrout has started to gel.*

CREATING LOAD BEARING BEAMS IN CAVITY WALLS USING STRUCSOL ULTRABAR, EXTERNAL AND INTERNAL BEAMING (2 OF 2)



SPECIFICATION NOTES

A	Depth of slot into the masonry to be 45mm to 55mm, plus the thickness of any plaster.
B	Height of slot to be equal to full mortar joint height, (minimum 10mm). For thin mortar joint specifications refer to the StrucSol Technical Dept..
C	If StrucSol Ultrabar are to be joined in a straight run, overlap the Ultrabars by a minimum of 500mm.
D	Top and bottom reinforcements should be positioned as far apart as practicable, up to a maximum distance equivalent to 12 brick courses (approx. 900mm).
E	Any fractures in the masonry within the 'beam zone' MUST be stabilised by crack-stitching, TE resin or replacement of the masonry.
F	Any missing or very poor quality masonry MUST be replaced.
G	If existing wall ties are defective in any way, additional Mechanical Remedial Wall Ties should be installed.
H	Multiple SureBeams should be installed starting at the top and working down to the bottom.
I	In hot conditions,, ensure the masonry is well wetted or primed to prevent premature drying of the StrucSol HSGrout due to rapid de-watering.
J	Do not use StrucSol HSGrout 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 StrucSol HSGrout.
The above specification notes are for general guidance only and StrucSol reserve the right to amend as necessary.	

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Please always wear the appropriate safety and protective clothing when installing fixing and anchor products. Always observe the necessary Health & Safety guidelines.

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