SMS06

StrucSol
Building Repair Solutions

CREATING LOAD BEARING BEAMS IN SOLID WALLS USING STRUCSOL ULTRABAR, INTERNAL CORNER REPAIR DETAIL (1 OF 2)

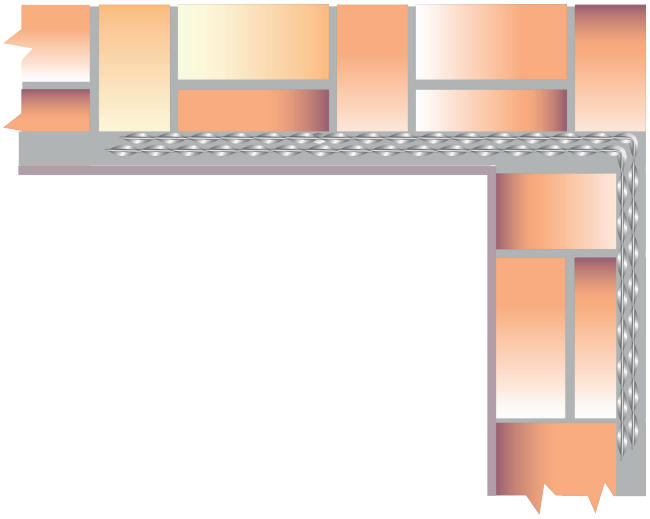
Recommended Tooling

- For cutting slots 40mm deep or over: Twin-bladed cutter with a vacuum attachment.
- To achieve final depth of slot beyond 40mm: Hand or power chisel.
- For drilling: SDS rotary hammer drill 650 / 700w.
- 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 with vacuum attachment, followed by a hand or power chisel, cut slots into the internal horizontal mortar joints to the specified depth and at the required vertical spacing. Use a power / hand chisel to continue slots up to the internal corner. Ensure that NO mortar is left attached to the exposed brick surfaces in order to provide a good masonry / grout bond.
2. At the corner, drill 14mm diameter holes in line with the channelled-out mortar beds through the wall to the exterior face.
3. On the exterior wall, use the wall chaser to remove mortar from the appropriate joints to the specified depth and at the required vertical spacing.
4. Remove ALL dust and mortar from the slots and holes and thoroughly flush with water. Ensure the slots are damp or primed prior to commencing step 6.
5. Feed the 6mm StrucSol Ultrabar through the drilled holes, bend to fit the external slot and cut to correct length.
6. Fit the appropriate Mortar Nozzle.
7. Mix StrucSol HSGrout using a power mixer and load into the Pointing Gun CS.
8. Inject StrucSol HSGrout into the holes at the corner.
9. Inject a bead of StrucSol HSGrout, approx. 15mm deep, into the back of the interior slot using the Mortar Nozzle.
10. Push the first 6mm StrucSol Ultrabar into the grout to obtain good coverage.
11. Inject a second bead of StrucSol HSGrout over the exposed StrucSol Ultrabar.
12 Push the second 6mm StrucSol Ultrabar into the grout to obtain good coverage.
13. 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.
14. Bend the external section of StrucSol Ultrabar to fit the exterior slot and cut to the appropriate length.
15. Repeat steps 8 to 13 as above on the external wall.
16. The crack 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.
17. Clean tools with clean, fresh water.

- *Pointing may be carried out as soon as is convenient after the StrucSol HSGrout has started to gel.*

JT Consulting, Unit 5Q, Sileby Road Industrial Estate, Barrow Upon Soar, LE12 8LP

Tel 0116 2375082, Email: sales@strucsol.com, www.strucsol.co.uk

Company Reg 09707405 V.A.T Reg. GB230398223

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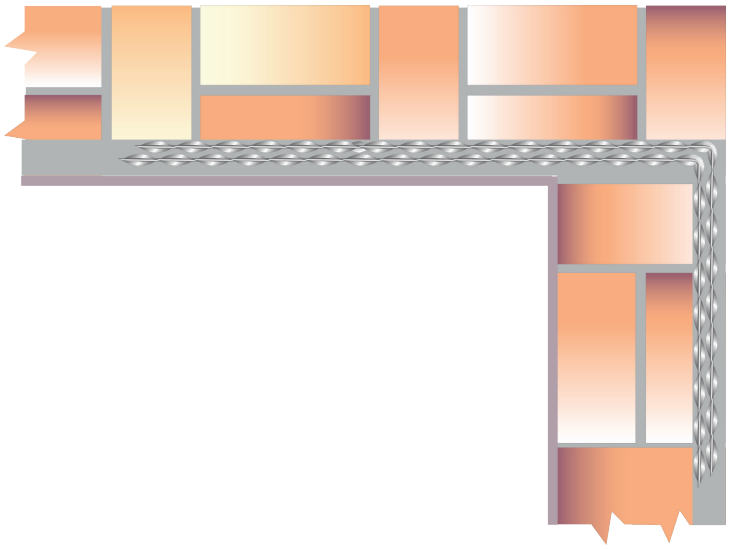
CREATING LOAD BEARING BEAMS IN SOLID WALLS USING STRUCSOL ULTRABAR, INTERNAL CORNER REPAIR DETAIL (2 OF 2)



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	In hot conditions,, ensure the masonry is well wetted or primed to prevent premature curing of the StrucSol HSGrout due to rapid de-watering.
H	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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