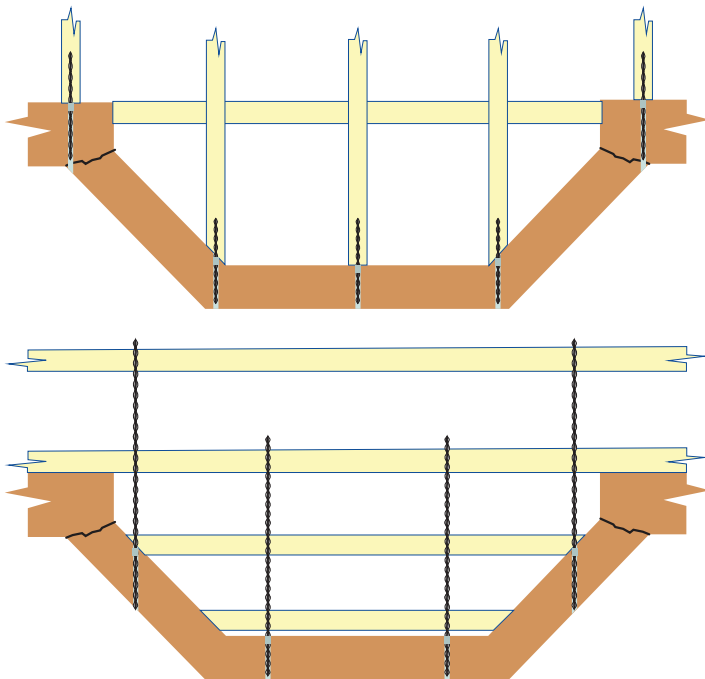


## BAY WINDOW REPAIRS USING LATERAL RESTRAINT TIES



### Recommended Tooling

- ❖ For drilling: SDS hammer drill 650 / 700w.
- ❖ For installation of Lateral Restraint Ties: Lateral Restraint Tie Support Tool or a SDS Power Attachment Tool.
- ❖ For injection of StrucSol resin: Applicator gun with nozzle.
- ❖ 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:

#### Floor joists perpendicular to the bay front

1. Mark the positions of the joists on the external wall.
2. Drill clearance hole (normally 12mm) through the masonry in line with the centre of the joists. Clean any dust or debris from the hole.
3. Insert the SDS Power Attachment Support Tool into the SDS rotary hammer drill and place the Lateral Restraint Tie into the support tool. Drive the Lateral Restraint Tie into the timber to the required depth.
4. Place the sleeve over the tie and push it to the back of the hole in the outer leaf masonry (use the SDS Power Attachment Tool).
5. Inject StrucSol resin to fill the hole completely. Allow the resin to gel (normally 15-20 minutes).
6. Make good all the holes at the surface and cracks 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.

#### Floor joists parallel to the bay front

1. Mark the positions of the joists on the external wall.
  2. Drill clearance hole (normally 12mm) through the masonry in line with the centre of the joists. Ensure that the hole lines up with the joist and continue to drill through the first and second joists as pictured. Clean any dust or debris from the hole.
  3. Insert the Lateral Restraint Tie Power Support Tool into the SDS rotary hammer drill and place the Lateral Restraint Tie into the Support Tool. Drive the Lateral Restraint Tie into and through the third joist.
  5. Inject StrucSol resin to fill the hole completely. Allow the resin to gel (normally 15-20 minutes).
  6. Make good all the holes at the surface and cracks 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.
- ❖ *Making good the holes and pointing of the slots may be carried out as soon as is convenient after the StrucSol HSGROUT + StrucSol Resin has started to gel.*

### SPECIFICATION NOTES

<b>A</b>	Minimum penetration into the timber is 50mm for side grain and 75mm for end grain.
<b>B</b>	For joists perpendicular to the bay front, each joist in the area of concern is to be secured with a Lateral Restraint Tie (i.e. spacing of Lateral Restraint Ties is to correspond with the original joist spacing).
<b>C</b>	StrucSol Ultrabar to be long enough to extend a minimum of 500mm either side of the crack or 500mm beyond the outer cracks if two or more adjacent cracks are being stitched using one rod.
<b>D</b>	Ensure that all joists into which Lateral Restraint Ties are to be installed are both sound and secure.
<b>E</b>	For joists parallel to the bay front, maximum horizontal spacing is 600mm between ties.

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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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The above information is given in good faith, and may be subject to alteration at any time without prior notification.