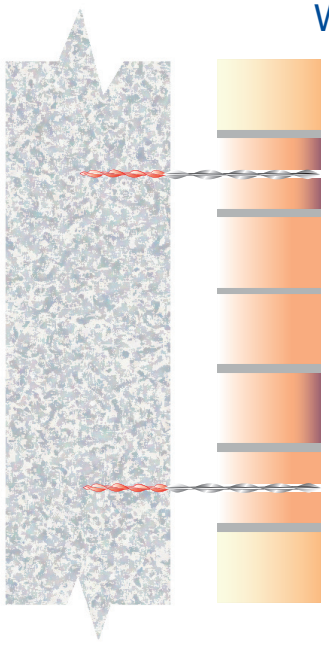
SWM29

StrucSol
Building Repair Solutions

RECONNECTING LIMESTONE / SANDSTONE / TRAVERTINE / GRANITE / MARBLE TO SOLID CONCRETE USING ASYMMETRIC MECHANICAL REMEDIAL WALL TIE (WITH CAVITY)



Method Statement:

1. Mark the position for the Asymmetric Mechanical Remedial Wall Ties on the face of the near leaf.
2. Determine the correct pilot hole diameter into the far leaf, to suit the thinner end of the Asymmetric Mechanical Remedial Wall Tie and the density of the back-up material.
3. Drill the pilot hole, as determined above, through the near leaf and into the far leaf to the specified depth.
4. Increase the diameter of the hole in the near leaf only to suit the larger diameter of the tie.
5. Fit the special Asymmetric Power Support Tool to an electric hammer drill (SDS type).
6. Load the larger diameter end of the Asymmetric Mechanical Remedial Wall Tie into the insertion tool with the smaller diameter end showing.
7. Power-drive the tie into position until its outer end is recessed below the face of the outer leaf.
8. Make good all the holes at the surface 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.

Recommended Tooling

- For drilling: Rotary percussion 3-jaw chuck drill.
- For installing Asymmetric Mechanical Remedial Wall Tie: Asymmetric Power Support Tool fitted to SDS rotary hammer drill 650w / 700w.
- For Injection of the StrucSol Crack Filler: A 400ml Mastic Gun is required.
- PPE Clothing and Protection.

- If the back-up material is concrete, it may be necessary to use an SDS drill to drill the pilot hole. Care should be taken when drilling through the near leaf brick.

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.

SPECIFICATION NOTES

	The following criteria are to be used unless specified otherwise.
A	Length of Asymmetric Mechanical Remedial Wall Tie to be sufficient to accommodate width of near leaf + width of cavity + 50mm into the concrete.
B	Ensure pilot hole goes 75mm into the concrete.
C	Diameter of pilot hole to be determined on–site through testing – typically: 5 – 6.5mm for 80 / 65 Asymmetric Mechanical Remedial Wall Tie. 6.5 – 8mm for 10 / 80 Asymmetric Mechanical Remedial Wall Tie.
D	For minimum fixing density, holes should be drilled at 900mm centres horizontally by 450mm vertically in a staggered pattern.
	The above specification notes are for general guidance only and StrucSol reserve the right to amend as necessary.

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