

## Matrix Helical Anchoring System

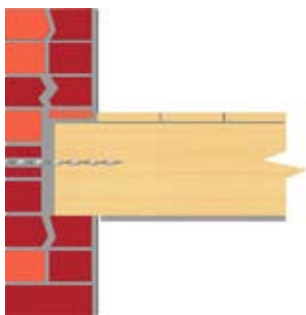


### Description

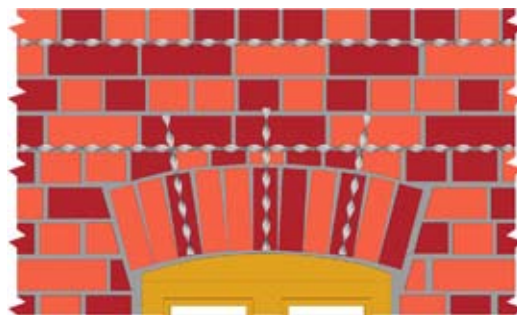
The Matrix Remedial Tie anchorage system includes ties that can be hammered or grouted into masonry walls. The Matrix Remedial Ties are an austenitic stainless steel 316, reinforcing material. Being rolled from a plain round wire, the fins are work-hardened to a very high level whilst the core remains relatively soft. The subsequent twisting process puts the fins into tension and the core into compression. The tensile strength of the base material is more than doubled during the manufacturing process. The pronounced fins over the core make the bonding characteristics of the Matrix Remedial Tie far superior to alternative standard reinforcing materials.

The standard Matrix Remedial Ties is available in 8 mm diameter and in standard lengths of 200mm, 220 mm and 250mm. Other lengths and profiles to meet the requirements of structural engineers and other specifiers are available on request.

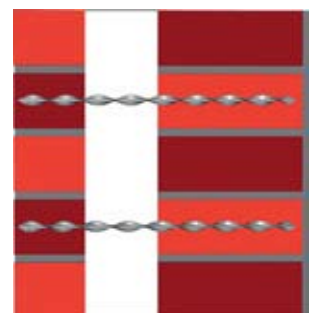
Uses – The uses of the ties are both wide and varied and they can be utilised in new buildings and for many specialised refurbishment requirements like apartment buildings, historic buildings, bridges and many more. The Matrix remedial ties can be used for structural reinforcement or anchorage fixings.



Wall attachment

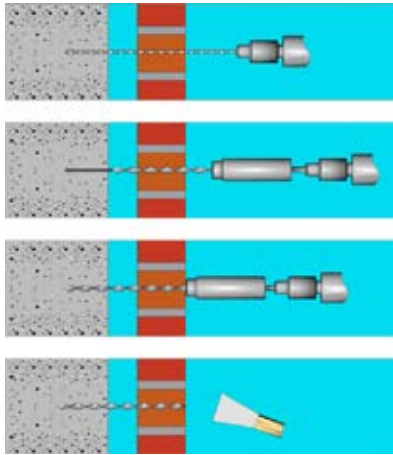


Repair and reinforcement of damaged wall lintels



Remedial wall ties

### Matrix Remedial Tie-Dry Installation

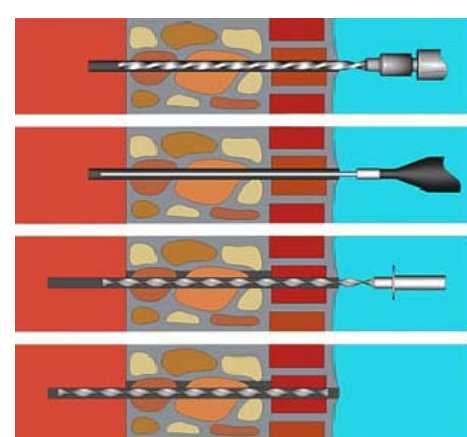


#### Matrix Remedial Ties - Dry Fix

- 1 Drill pilot hole 2mm smaller than tie and approx 70mm into inner leaf
- 2 Holes cleaning - Vacuum out the holes and flush with water
- 3 Insert tie into the SDS PST3 tool
- 4 Drive the tie till the tie is fully recessed into the masonry
- 5 Cover hole with appropriate grout

### Matrix Remedial Tie-Wet Installation

Matrix Remedial Ties chemical fix system is ideal for use in masonry walls where the quality of the masonry is poor or inconsistent or where mechanical ties will not bind with the masonry. The use of Matrix Grouting compound binds the tie to the masonry.



#### Matrix Remedial Ties - Chemical Fix

- 1 Drill hole 2mm larger than tie and approx 70mm into inner leaf
- 2 Holes clearance - Vacuum out the holes and flush with water
- 3 Mix grout and using the appropriate nozzle inject grout into the hole
- 4 Push the tie till the it is fully recessed into the masonry
- 5 Cover hole with appropriate grout

**Note.** In cavity walls inject grout into the inner leaf, insert tie and then inject grout into outer leaf. In very poor quality brick use Matrix sieves into a predrilled 12mm hole.

### Matrix Remedial Tie- Dry application without Grout



Drill pilot hole

Drill pilot hole

Loading Remedial Tie into tool

Inserting Tie into wall

Finishing

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