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TECHNICAL INFORMATION AND QUICK GUIDE

Lateral Restraint Tie

Description

Twistfix Lateral Restraint Ties are used to attach the external walls of a building to internal timber joists or studs, to secure bulging walls and prevent further movement or buckling of the masonry facade.

Each stainless steel tie is designed with a drill-like leading end for softwood.

The only drilling required is through the brick, block or masonry external wall.

Benefits

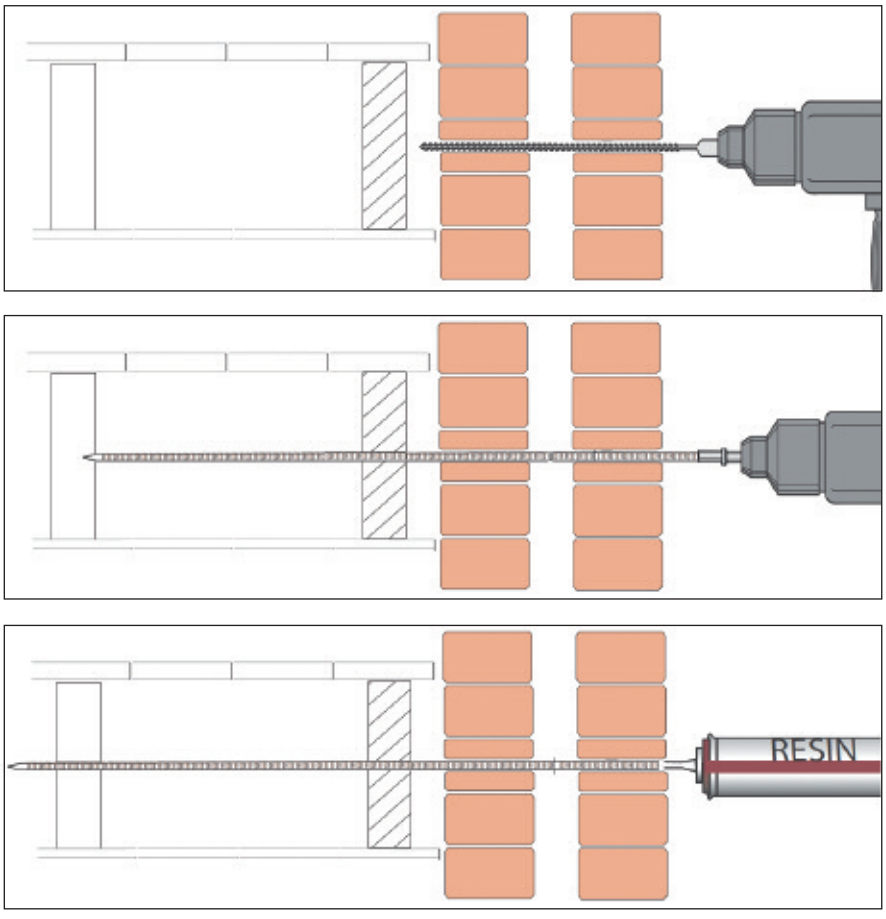
Twistfix stainless steel Lateral Restraint Ties are quick and easy to install. They are robust, corrosion-free and provide a solid, high-strength lateral restraint. They offer a neat finished appearance with only one small hole having been made in the brickwork.

Distinction

Conventional solutions to the problem of bulging walls can often be disruptive and time-consuming.

Twistfix Lateral Restraint ties are fitted from outside the property with minimal disturbance. Simply lift a small number of floorboards to determine the position of the joists, and ensure that the area is clear of all service wires and pipes.

- Hidden wall to floor restraint.
- No disturbance to internal decorations.
- Fixes to at least two timbers.
- Robust, reliable and corrosion free.
- Rapid, cost-effective installation.
- Effective under tension & compression.



Lateral restraints are NOT designed for use in hardwoods

Method statement

1. Mark the position of the joist centre on the external wall and drill a 14mm clearance hole through the wall.
2. Fix the lateral restraint tie into the installation tool and using an SDS rotary hammer drill - with hammer action disengaged - drive it through the first and second joists (or more if necessary). Remove the installation key.
3. Use Twistfix Polyester Injection Resin to fill the hole and bond the tie to the exterior masonry. Allow to set then finish tidily.

Product Specification

Material: Austenitic Stainless steel - A2	
Ultimate Tensile Strength: =>	700kN/mm^2
Typical Tensile Load	6.1kN
Diameter	8mm
Lengths	1.0m 1.2m 1.5m & 2.0m

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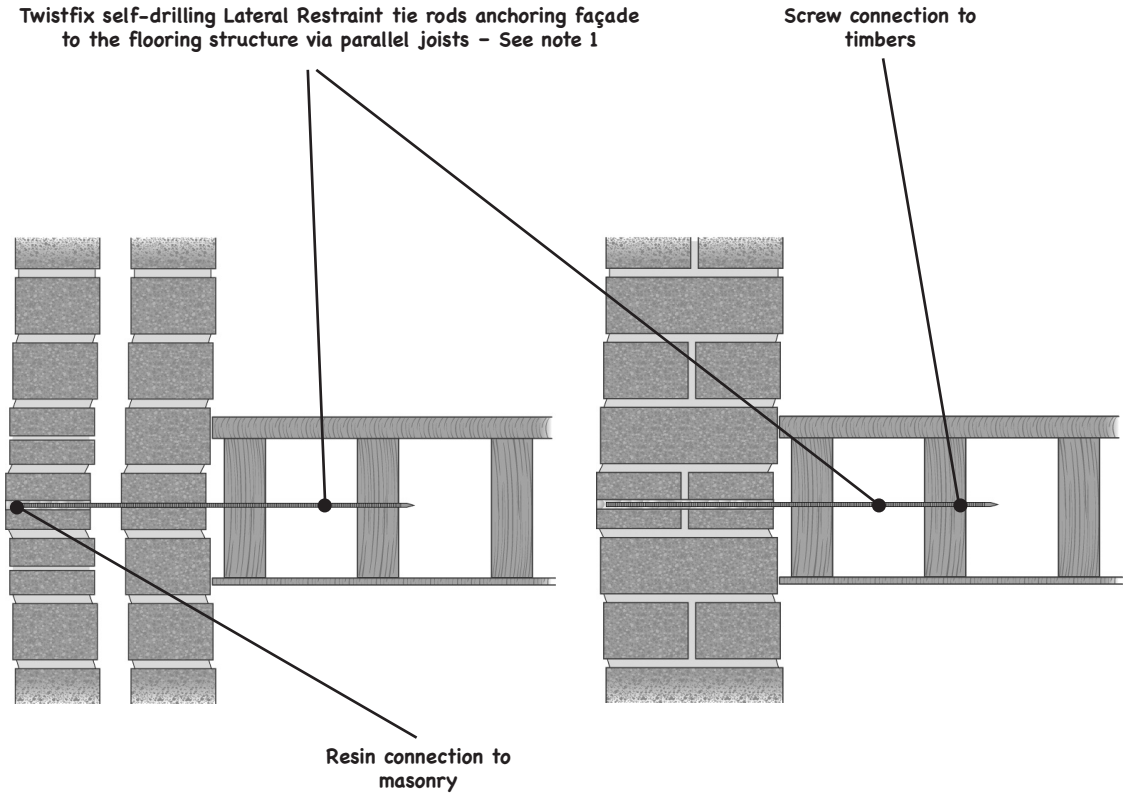

METHOD STATEMENTS & NOTES

1. Drill 14 clearance hole through masonry wall and clear detritus Drive self-drilling lateral restraint tie rods into and though at least 2 joists. Resin fill hole in masonry to secure the tie rod to the wall Make good drill hole to match

   Ties should be spaced at 600mm centres horizontally

TIE ROD SPECIFICATION

· Material:	304 Series Stainless Steel
· Ult.Tensile Strength:	500-700N/mm²
· Nominal CSA:	8mm Tie rod = 50.2mm²

RESIN SPECIFICATION

· Compressive Strength:	> 56N/mm²
· Tensile Strength:	< 10N/mm²
· Flexural Strength:	> 16N/mm²
· Elastic Modulus:	> 3034N/mm²

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