

9mm DIAPHRAGM TIES FOR LATERAL RESTRAINT TO TIMBER ROOF AND FLOOR FRAMING

Thor 9mm Diaphragm Tie Installation

Diaphragm Tie Spacing – Must be determined by a Consulting Structural Engineer (Nominal 600mm horizontal spacing)

1. Drill pilot holes through masonry to penetrate two parallel floor or ceiling joists, or a minimum of 75mm into timber end grain using, initially, a masonry drill size 6-7.5mm, followed by a similar sized wood bit if available.

N.B. to assist in accurate tracking across cavities allow the drill to STOP rotating prior to contacting and drilling each leaf, barrier, joist or rafter.

CAUTION: TIES MUST VISIBLY ROTATE AT A CONSISTENT RATE WHILST PENETRATING.

The pilot hole diameter is critical; too small and the tie may bend rather than penetrate, too large and the tie will ream out the drilled hole in the masonry as it penetrates and will not be seen to rotate.

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3. **(Test Only)** Drill clearance hole to masonry for installation of Test Key if required.
4. Drive in Thor Helical 9mm ties using Thor Helical SDS drive tool and recess below brick face.

CAUTION: ENSURE FLOOR/CEILING VOIDS ARE FREE OF SERVICES

Where Thor bed-joint reinforcement wires are also being installed they must be in the mortar joint directly above or below the Thor Diaphragm Ties.

