

# AirTwist™ Aircrete fixings

## Description

AIRTWIST™ is a new Thor Helical frame fixing that nails timber battens, frames and wall plates to Aircrete (Celcon, Thermalite, Topblock etc.) without any need to pre-drill or to plug and screw.

The robust and precision profiled helical frame fasteners are driven by a series of hammer impacts. Their large spiral blades have sufficient reactive angle to rotate the anchor as it cuts a winding penetrative path through the wood and into Aircrete.

AIRTWIST has a unique reduced diameter driving shank (World-wide patent pending) that is conveniently engaged and countersunk by a neat SDS-mounted rapid-impact setting tool, anchoring timber to aerated concrete in record time.

- Hammer driven self tapping fasteners
- Anchors wood to all brands of Aircrete
- Patented helix consistency
- No need to pre-drill, plug or screw

## Benefits

The slim helical form of the AIRTWIST nail alleviates timber-splitting and offers a mechanical interlock anchorage that exerts no expansive crushing stress into aerated concrete



Loads are spread evenly along the full penetrative length of the helical fastener, providing reliability of fixing in both the timber and the AAC.

The unique AIRTWIST driving tool facilitates a quick, tidy & discrete fastening arrangement that is unrivalled in speed by any other Aircrete anchor system.

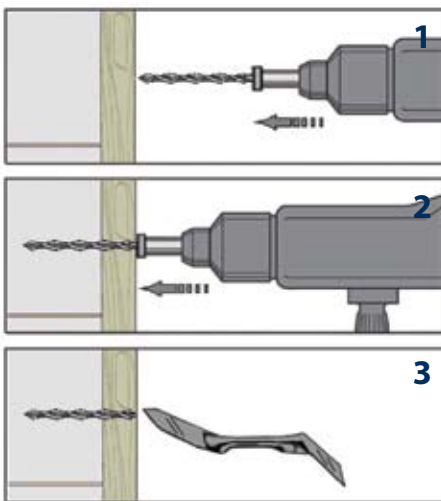
- No induced stress or point loads
- Precise helical interlock anchorage
- High axial strength & shear capacity
- Rapid power driven installation

## Distinction

Thor Helical screw nails are fabricated using patented 'precise-pitch' twisting die technology, which supersedes the inexact clamping & spinning arrangements used to produce alternative helical fastenings.

The precision engineered Thor Helical fastener (Patent No's EP1307303 & US7269987) boasts a full length consistency of pitch to allow the anchor to form a precise and tightly mating spiral passage within the Aircrete, rather one that is progressively widened by an imprecise helix.

Precise pitch and reduced diameter drive shanks are features unique to ThorHelical, superseding other types of helical fixing.



## Method statement

1. LOAD Thor Helical AIRTWIST™ (patent pending) into rapid impact driving tool that is fitted to a roto hammer machine.
2. DRIVE AIRTWIST through timber layer and directly into Aircrete until the anchors driving shank is countersunk by the rapid impact driving tool. Fixing centers should not exceed 300mm.
3. FINISH by compacting appropriate filler into to the neatly formed small diameter countersink.

For fixing battens to bricks and concrete blocks, pre-drill with a 6mm pilot hole.

## Product specification

- Nominal Diameter:** ≤ 8.0mm
- Nominal C.S.A.:** ⇒ 13.0mm<sup>2</sup>
- Pitch Deviation on Nail:** ≤ 0.5%
- Material:** BZP Carbon Steel
- Tensile Strength:** ⇒ 650N/mm<sup>2</sup>

### AIRTWIST™ SELECTOR

TIMBER	AIRTWIST LENGTH
25mm	75mm
26-37mm	100mm
38-50mm	125mm

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