

InSkew

High performance timber fixing for pitched warm roof constructions

APPLICATIONS

- Structural fixing for securing timber battens and counter battens to rafters, through insulation, in pitched warm roofs

FEATURES

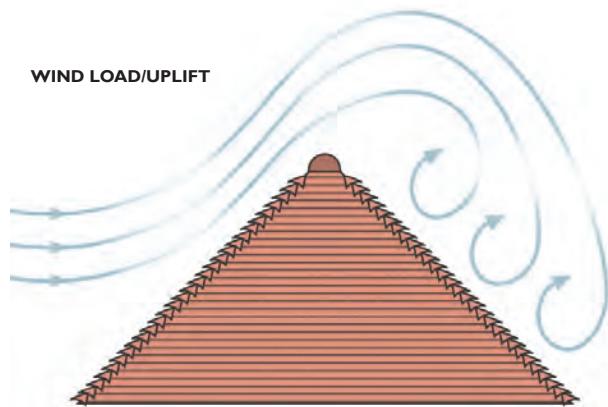
- Slim, self-tapping, helical stainless steel fixing
- Complies with Building Regulations Part L
- Recommended by leading insulation manufacturers
- Structurally more reliable and economical than traditional nails
- High performance – fewer fixings required
- Excellent holding power in both tension and compression
- Hammer or power driven, normally without pre-drilling
- Designed to withstand the structural loads – both the roof weight and wind suction
- Prevents compression of insulation and does not impair its thermal performance
- Self-tapping action avoids batten bouncing and splitting of timbers
- Headless, flush fixing for minimal cold bridging and heat transfer
- Rapid, free, in-house design service available
- Written specifications covered by Helifix Professional Indemnity insurance
- Full technical data available: Independently tested by TRADA



For full product information, case studies and downloadable repair details go to:
www.helifix.co.uk/products/warm-roof-fixings/inskew

PITCHED WARM ROOF STRUCTURAL LOADS

1. On a warm roof the weight of the roof is supported by the counter battens (rather than the rafters) which are laid on top of the insulation, a non-structural element.
2. The counter batten effectively reproduces the rafter above the insulation. It is essential therefore that the counter batten becomes a structural member to which the tile batten can be fixed while holding down the insulation against wind suction.
3. As insulation thicknesses increase so do the bending forces on the InSkew fixings due to the sliding loads that are imposed on the counter batten.
4. The heavier the tile weight and the steeper the roof pitch, the greater the sliding load becomes, which could compress the insulation and impair its thermal performance.
5. Tensile loads caused by wind suction will be affected by the anticipated wind speed, the height of the building, the site exposure and the local topography.



InSkew has been designed to resist both the sliding and compression loads of the roof covering while also counteracting the tensile loads caused by wind uplift.

