



insofast[®]

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JULY 2010

INSOFAST
INSULATION FASTENERS



ISF 18 | ISF 35 | ISF 60



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TECHNICAL INFORMATION
AND QUICK GUIDE

INSOFAST® is a family of high quality easy-to-use insulation fixings designed for specific applications in the construction industry.

INSOFAST® Retainers

The range includes specially designed helical fasteners for fixing composite insulation boards to flats roofs (ISF18), for fastening fireproof insulation to walls and ceilings (ISF35) and for securing external wall insulation panels used in façade cladding systems (ISF60).

Each INSOFAST® fastener has been purpose-designed specifically for its task and features a unique helical design, which causes the fastener to “corkscrew” into a variety of

substrates when driven in quickly and efficiently using a conventional hammer or a special hammer drill adapter.

All three patented INSOFAST® fasteners are highly versatile and can be used in most construction elements including concrete, brick, aircrete and timber.

They are available in zinc galvanised carbon steel and in stainless steel for more aggressive or challenging environments.



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Insofast® fixings include genuine precision engineered Thor Helical shanks and are produced under licence of European Patent Numbers EP1307303 & EP1710372

technical helpline

0845 123 6006

sales line

0845 123 6007



Quick guide

- QUICK AND EASY TO USE
- REDUCED COLD BRIDGING
- FEWER FIXINGS - REDUCED LABOUR
- ALLEVIATES SPLITTING OF JOISTS OR RAFTERS
- HIGH DEGREE OF FIRE RESISTANCE
- SHALLOW DOME HEAD LEAVES NO SHARP EDGES
- FIX WITH HAMMER OR RAPID SDS DRILL ADAPTER
- DEPENDABLE PERFORMANCE



Description

A spiral shafted one-piece helical anchor with an 18mm dome head suitable for insulated flat roofing applications. The fasteners can be hammered in manually or by using a standard SDS hammer drill with a dedicated adapter.

The hardened cutting blades make the fasteners quick and easy to use, with a self-tapping action providing a permanent, secure anchor.

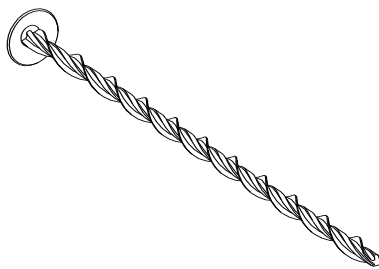


Benefits

The thermally-efficient spiral shaft has a much smaller cross sectional area than that of a solid shaft of equivalent diameter to minimise disturbance to the materials being used, reducing cold bridging potential and avoiding splitting or other damage.

ISF18 fasteners can be used without the need for pre-drilling, are as easy to use as conventional nail fixings and provide a firmer fix with reduced effort.

Suitable for all types of roofing board having a 6mm thick ply-face including Kingspan, Celotex, Xtratherm, Recticel and others.



Product Specification

Material	Zinc Plated AISI 1008 Steel Austenitic 304 Stainless Steel
Diameter of Head	18mm
Diameter of Shank	7mm
CSA of Shank	9mm ²
Pitch Accuracy	< 0.5%
Typical Load	1mm Defl ⁿ 681N (softwood joist)
Available Lengths*	145mm (panel depth 85-110mm)
	170mm (panel depth 115-135mm)
	195mm (panel depth 140-160mm)

* Based on minimum 35mm rafter / joist embedment

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- HIGH DEGREE OF FIRE RESISTANCE
- QUICK AND EASY TO USE
- FEWER FIXINGS - REDUCED LABOUR
- REDUCED COLD BRIDGING
- DEPENDABLE PERFORMANCE
- HIGHLY VERSATILE IN A WIDE RANGE OF CONSTRUCTION MATERIALS
- FIX WITH HAMMER OR SDS DRILL ADAPTER
- FIXES INTO CONCRETE AND MASONRY WITH TINY PILOT HOLE
- FIXES DIRECTLY INTO LIGHTWEIGHT BLOCK AND TIMBER WITHOUT PRE-DRILLING



Description

A one-piece spiral shafted helical fastener having a 35mm perforated head specifically designed for fixing fireproof insulation boards to walls ceilings and soffits.

Fixed either manually using a conventional hammer or driven home using a hammer drill fitted with an SDS adapter. The fastener has a wide integral washer-like retaining head making it quick and easy to fix, with or without pilot holes.

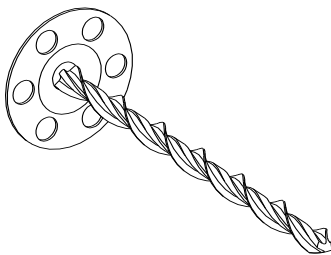


Benefits

ISF35 fasteners are suitable for all types of fire resistant mineral wool insulation board including Rockwool, Saint Gobain Isover and Knauff. The metal fasteners provide a maximum fire resistance, continuing to hold up to temperatures approaching melting point.

The thermally efficient spiral shaft has a much smaller cross sectional area than that of a solid shaft of equivalent diameter to minimise disturbance to the materials being used and to reduce cold bridging potential

Where pilot holes are required, the anchors require very small pilot holes (5mm for brick or 6mm for structural concrete), minimising the invasive effects of larger drill bits and ensuring maximum integrity and performance of the insulation.



Product Specification

Material	Zinc Plated AISI 1008 Steel Austenitic 304 Stainless Steel
Diameter of Head	35mm
Diameter of Shank	7mm
CSA of Shank	9mm ²
Pitch Accuracy	< 0.5%
Typical Load	1mm Defl ⁿ 581N (concrete) 622N (brick) 649N (aircrete)
Available Lengths*	110mm (panel depth 40-70mm)
	145mm (panel depth 75-105mm)
	170mm (panel depth 105-130mm)
	200mm (panel depth 135-160mm)

* Based on minimum 40mm embedment into masonry

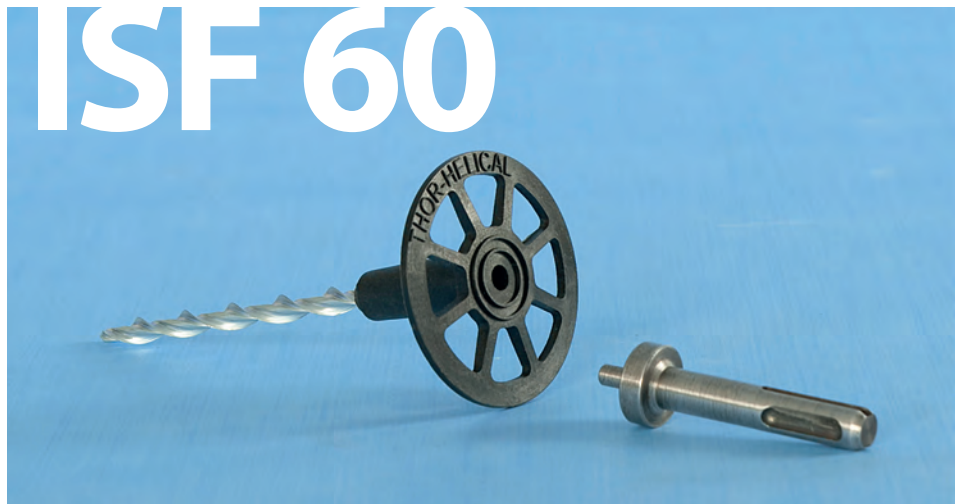
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- INTEGRAL THERMAL BREAK COLLAR
- QUICK AND EASY TO USE
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- HIGHLY VERSATILE IN A WIDE RANGE OF CONSTRUCTION MATERIALS
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- FIXES DIRECTLY INTO LIGHTWEIGHT BLOCK AND TIMBER WITHOUT PRE-DRILLING



Description

Patented INSOFAST[®] helical fixing with a 60mm diameter impact-resistant synthetic collar for securing external wall insulation in building refurbishment, thermal upgrades and new-build applications. Particularly well suited for fastening insulation to aircrete solid walls, for example fixing insulation to Thermalite, Celcon or Durox lightweight blocks

The fixing can be used with or without pilot holes and driven in using a conventional hammer or hammer drill fitted with an SDS adapter.

Benefits

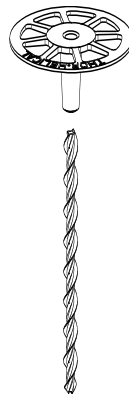
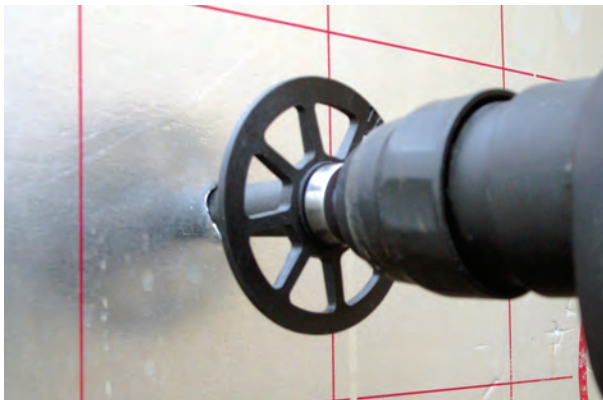
ISF60 fasteners are suitable for anchoring all commonly used types of external wall insulation board, including extruded polystyrene / EPS, Polyisocyanurate / PIR, mineral wool and phenolic foam.

They are the only anchors of their type approved for fixing into aircrete masonry without the need for pre-drilling. For other substrates, they require very small pilot holes (5mm for brick or 6mm for structural concrete), ensuring that the effectiveness and integrity of the insulation materials are not compromised.

Product Specification

Material	Zinc Plated AISI 1008 Steel Austenitic 304 Stainless Steel
Diameter of Head	60mm
Diameter of Shank	7mm
CSA of Shank	9mm ²
Pitch Accuracy	< 0.5%
Typical Load	1 mm Defl ⁿ 581N (concrete) 622N (brick) 649N (aircrete)
Available Lengths*	140mm (panel depth 75-100mm)
	170mm (panel depth 105-130mm)
	200mm (panel depth 135-160mm)

* Based on minimum 40mm embedment into masonry



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