

IDENDEN INSULATION HANGERS

Idenden manufacture a range of metal insulation hangers to provide instant mechanical fixing of pre-formed insulation material to various surfaces. These include glass fibre, mineral wool, polystyrene, rigid and flexible PU foam, PIR, phenolic foam, cork and similar materials. The hangers are usually not suitable for brittle insulants such as calcium silicate or foamed glass. A self adhesive version is only used on metal ducting whilst a perforated variety is for use on building surfaces with a separate solvent based Idenden Insulation Hanger Adhesive 10-253.

Features

- Corrosion resistance
- Good fire resistance
- Speed of insulation attachment

Product Characteristics

Spindles:	Commercial grade of aluminium, half hard at an average diameter of 2.65mm.
Bases:	Nominal size of 50mm x 50mm x 0.5mm made from galvanised steel.
Washers:	Circular shape 28mm diameter made from hot dipped galvanised steel.
Foam:	A double sided polyethylene foam with release liner protecting a high performance solvent acrylic pressure sensitive adhesive.
Sizes available:	Plain Perforated Metal: 62, 90 and 110mm Self Adhesive: 45, 62 and 110mm Packed in cartons of 500 including self locking washers

Directions for use

IMPORTANT

Before embarking on any work involving Insulation Hangers, the separate Safety Data Sheet should be carefully studied by those carrying out the work.

1. SURFACE PREPARATION

The self adhesive hangers are designed for use on metal ducting providing it is flat, smooth, clean and offers a dry surface.

For building surfaces such as brick work or concrete the perforated hanger should be used and attached with Idenden Insulation Hanger Adhesive 10-253. On new concrete, surface laitence should be removed. Do not attach hangers to previously coated bitumen surfaces. Alternatively attach hangers first then apply a liquid damp proof course.

2. ATTACHEMENT OF PERFORATED HANGERS

Idenden Insulation Hanger Adhesive 10-253 is available in 380ml cartridges. Apply a 'blob' to the hanger base and quickly press into place. The adhesive blob should be large enough to cover the entire base of the hanger at about 1.5mm thickness, just seeping through the perforations. Allow 12-24 hours to dry thoroughly before fixing insulation.

3. ATTACHMENT OF SELF ADHESIVE HANGERS

Remove release paper. Do not touch adhesive surface with fingers. Press firmly onto the base, pressing straight down. Do not twist, use firm hand pressure. It is ABSOLUTELY ESSENTIAL that the surface is completely dry with no dust, dirt or condensation present. The metal surface and ambient air temperature must be +5°C or above.

WARNING

Do not attempt to insert the pins into the insulation, and then attach pins to the substrate. This method will result in failure due to insufficient pressure being applied to each hanger and contamination of the adhesive surface by fibres of insulation. Always fix hangers first prior to the insulation.

The self adhesive hanger is not recommended for fixing insulation to the inside surface of external metal cladding or metal sliding, due to possible solar gain.

4. FIXING THE INSULATION

Position the slab carefully over the pins, (after adhesive is fully dry for perforated hanger pins using Idenden Insulation Hanger Adhesive 10-253), then press uniformly until the insulation butts firmly against the base. Fit self-locking washers (dome side outwards) to the pins and press up to the insulation surface. Do not compress the insulation. Excess pin lengths are then snipped off, and should not be bent over insulation. When snipping off excess pin length, hold pliers steady and DO NOT work from side to side.

5. HANGER SPACING PERFORMANCE

A) PERFORATED HANGERS

Idenden Insulation Hanger Adhesive 10-253 is a thixotropic synthetic rubber adhesive having a service temperature of -30°C to +100°C.

As an estimated guide, 5-6 hangers are required per square metre of insulation having a density up to 120kg per cubic metre at ambient temperature. The actual spacing will depend on the shape of the surface to be insulated, rigidity of the insulation and position of joints etc. For most applications, positioning at 40-50 cm is adequate.

B) SELF ADHESIVE HANGERS

The service temperature of this range of hangers is -20°C to +80°C. As an estimated guide, 5-8 hangers are required per square metre of insulation having a density of up to 80kg per cubic metre. For an average air conditioning duct, 5 hangers per square metre is normally adequate. 30cm spacing is recommended on the underside of ducts or when the duct is operating at above ambient temperatures.

Precautions in Use

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate health and safety data sheet for Idenden Insulation Hangers.

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