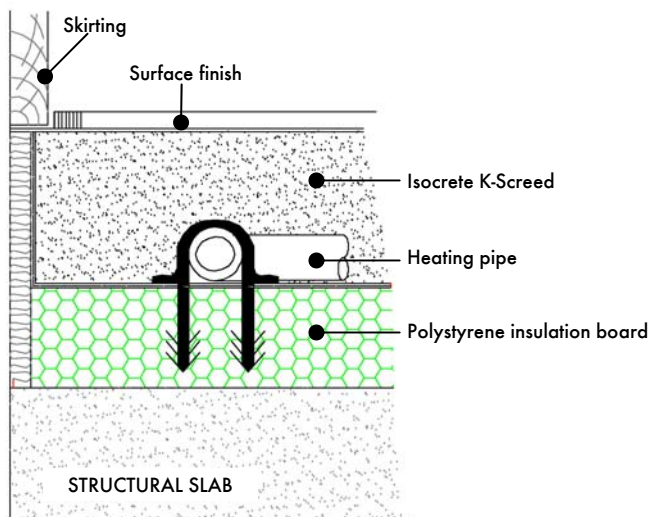


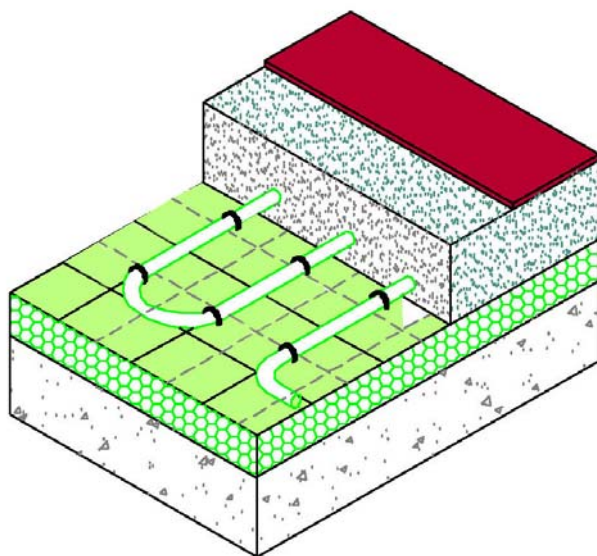
Isowarm – Tackerboard System



ISOWARM TACKERBOARD SYSTEM

- NB (1) Polyurethane insulation boards available to order.
- NB (2) EPS boards of other thickness available to order.
- NB (3) Ultra-strength EPS boards available to order

System Design



Description

Isowarm is a complete underfloor heating system incorporating insulation, pipework and associated retaining system and screed.

Uses

Efficient heating of many types of building including most commercial and residential applications e.g. schools, hospitals, prisons, airports, shopping centres, offices, hotels, theatres, flats and houses. The system can also incorporate acoustic insulation.

Benefits

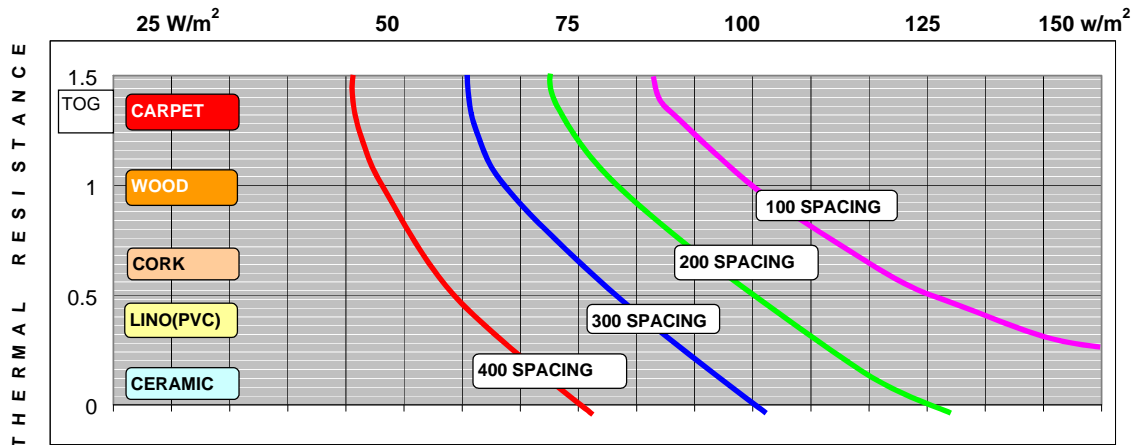
- Unique design, simple and quick to install
- Unique pipe retention system – pipes do not slip or float in screed and can be trafficked before screed laying with minimal risk of damage to pipes or insulation
- Unique membrane, built into insulation, cannot leak
- No joints in pipes
- Energy cost savings of up to 24% against conventional radiator based systems (BSRIA studies)
- Maintenance free for the lifetime of the building
- Uniform temperature within zone
- Complete flexibility of room layout (no radiators to accommodate)
- Complete installation by one contractor to include all system elements, insulation, membrane, edge isolation, joints, pipework, manifolds, cabinets, actuators, room thermostats and screeds
- Can include acoustic separation resilient layer as optional extra
- Overall system thickness can be as little as 75 mm
- Flexibility of zone temperature control, from whole building to individual rooms
- Product and design guarantee for complete system
- High speed installation

Project References

- Stonehouse Hospital (Health);
- New College, Durham (Education);
- Bushberry Triangle (Education);
- Cave Home, Derby (Health);
- Large House, Prestwick (Domestic)

Surface Heat Output = Watts/m²

Guidance Only



Model Specifications

Product: Isowarm

Preparatory work and application in accordance with manufacturer's instructions.

Manufacturer: Flowcrete UK Ltd

Isowarm Tackerboard:-

Typically 50 mm EPS 100 laminated insulating board (25 mm to upper floors, Isowarm 16 mm or 20mm diameter cross linked polyethylene (PEX) pipework, minimum 50mm anhydrite screed or 65 mm Isocrete K-Screed and all associated Isowarm manifolds, cabinets, thermostats, edge separation and joints, all in accordance with the design produced by Isowarm.

Heavy Duty Tackerboard-EX

For extra-ordinary footprint loads (in Atria, Streets, Shopping Malls, High-Bay Workshops etc) caused by Mobile Access platforms over Terrazzo, Marble or Decorative Resin finishes. Compressive strengths of Tackerboard-EX range are available to order from 45 - 190KPa at 1% compression to cope with the most demanding of situations

Installation Service

The installation should be carried out by an Isowarm licensee with a documented quality assurance scheme. Obtain details of our licensed contractors by contacting our customer service team or enquiring on our website www.flowcrete.co.uk

Environmental considerations

The complete system is assessed as non-hazardous to health and the environment. All products have been chosen to permit future recycling or reuse at the end of useful life. The absence of radiators or bulky heat emitters provides a more aesthetically acceptable environment with minimal impact.

Typical Details

Thickness insulation	GF	EPS 100	50 mm
	UF	EPS 100	25 mm

Screed type	Minimum covering over pipes	Screed thickness overall
Anhydrite	30 mm	50 mm (min)
Isocrete K-Screed	35 mm	65 - 75 mm

Pipe diameter (OD)	16 mm
Acoustic insulation	Optional
Water temp flow (± 5 °C)	35 to 50 °C
Water temp return (± 5 °C)	25 to 40 °C
Typical maximum surface working temp	29 °C
Normal max heat output (at 20 °C)	100 W/m ²

Avoid abrupt changes in thickness which can lead to formation of screed cracks.

Focus on the Floorzone

Flowcrete are market leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, corrosion resistant systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

Important Notes

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.