

Inscreed Cable System

Overview

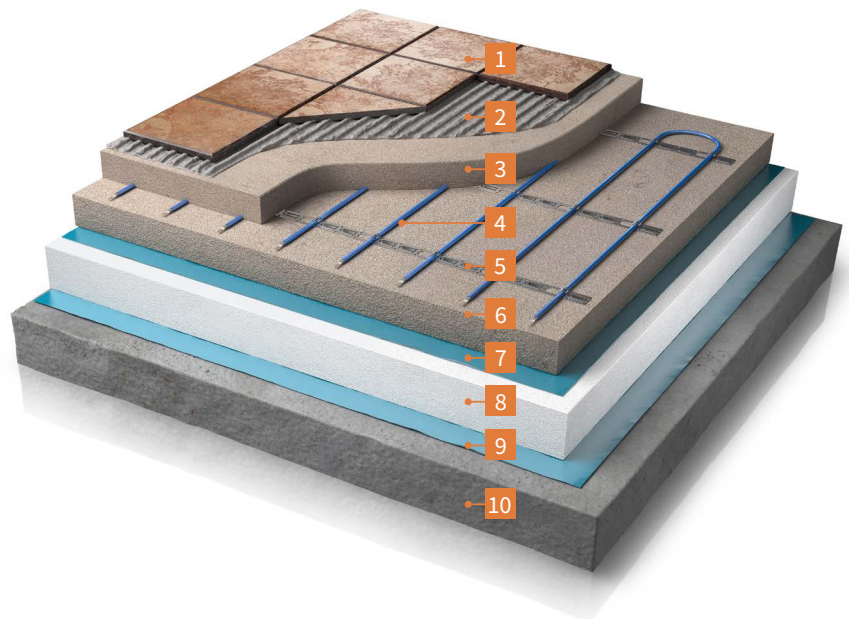
The Warmup Inscreed Cable System is designed for use within a screeded floor construction. The variable spacing of the cable available during design and installation allows the system power to be tailored to the properties requirements.

The Inscreed Cable system is extremely versatile. Its spacing can be varied to tailor the heat input into a floor to match its required heat load. This makes it ideal for screeds as thin as 50mm laid over insulation when a responsive system is required, as well as thicker, bonded screeds where the floor construction is to be used as a storage heater.

For retrofit installations where the subfloor is already in place, it is recommended that one of the other Warmup Electric UFH Systems is selected based on requirements. They can all be installed directly between an insulation layer and the floor finish layer to create a system with a very quick response to heating demands.

FLOOR CONSTRUCTION

- 1 Floor finish
- 2 Tile adhesive or levelling compound
- 3 $\geq 30\text{mm}$ Bonded Screed
- 4 Warmup Inscreed Cable
- 5 Warmup Inscreed Rails
- 6 Screed/Concrete Slab
- 7 Moisture Control Layer
- 8 Rigid Insulation
- 9 DPM
- 10 Subfloor



Electric
Heating System

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Warmup

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Technical Data

TECHNICAL DATA - Inscreed Cable

OPERATING VOLTAGE	220 - 240v: 50Hz
IP RATING	IPX7
CABLE THICKNESS	6mm
AVERAGE OUTPUT RATING	100 to 210W/m ²
INNER INSULATION	ETFE
OUTER INSULATION	PVC
MIN. INSTALLATION TEMP	5°C
CONNECTION	3m LONG "COLDTAIL" CONNECTION



Features

- Once installed within a screed, this system is suitable for any underfloor heating compatible floor finish, which can be easily lifted and replaced as desired without any risk of damaging the heating system.
- The slower heat up and cool down time of the Inscreed Cable System makes it particularly suited to the creation of a storage heating system.
- Can be installed directly on top of the Warmup Cement Coated Insulation boards covered with minimum 50mm screed
- VDE Approved and CE marked meeting the highest safety standards for ultimate piece of mind
- 10 Year Warranty & SafetyNet Installation Guarantee



Technical Data

PRODUCT CODE	HEATED AREA (m ²)			HEATER LENGTH	POWER (W)	LOAD (A)	RESISTANCE (Ω)	RESISTANCE BANDS (Ω)
	SPACING 200mm 100W/m ²	SPACING 133mm 150W/m ²	SPACING 100mm 200W/m ²					
WIS180	1.8	1.2	0.9	9.0	180	0.78	293.9	279.2 - 308.6
WIS280	2.8	1.9	1.4	14.0	280	1.22	188.9	179.5 - 198.3
WIS390	3.9	2.6	2.0	19.5	390	1.70	135.6	128.8 - 142.4
WIS500	5.0	3.3	2.5	25.0	500	2.17	105.8	100.5 - 111.1
WIS650	6.5	4.3	3.3	32.5	650	2.83	81.4	77.3 - 85.5
WIS760	7.6	5.1	3.8	38.0	760	3.30	69.6	66.1 - 73.1
WIS1000	10.0	6.7	5.0	50.0	1000	4.35	52.9	50.3 - 55.6
WIS1200	12.0	8.0	6.0	60.0	1200	5.22	44.1	41.9 - 46.3
WIS1460	14.6	9.7	7.3	73.0	1460	6.35	36.2	34.4 - 38.0
WIS1550	15.5	10.3	7.8	77.5	1550	6.74	34.1	32.4 - 35.8
WIS1770	17.7	11.8	8.9	88.5	1770	7.70	29.9	28.4 - 31.4
WIS2070	20.7	13.8	10.4	103.5	2070	9.00	25.6	24.3 - 26.9
WIS2600	26.0	17.3	13.0	130.0	2600	11.30	20.3	19.3 - 21.3
WIS3140	31.4	20.9	15.7	157.0	3140	13.65	16.8	16.0 - 17.6
WIS3370	33.7	22.5	16.9	168.5	3370	14.65	15.7	14.9 - 16.5

NOTE: All spacings have been based on square areas for calculation purposes. Therefore actual spacing will vary according to the shape of the area to be heated. All spacings should be measured from the centre of the wire.

WARMUP COMPONENTS

Insulation Boards

Warmup® Insulation Boards are a water resistant, insulated tile backer board made of extruded polystyrene, faced on both sides with a fibreglass mesh embedded into a thin cement polymer mortar.

They have high thermal insulation properties for energy efficiency and an added benefit of sound absorption.

INSBOARD - TECHNICAL SPECIFICATIONS					
MODEL	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	WEIGHT (kg)	R VALUE (m ² .K/W)
INSBOARD6MM	6	600	1250	1.95	0.16
INSBOARD(PK1)	10	600	1250	2.22	0.28
INSBOARD20MM	20	600	1250	2.48	0.58
INSBOARD50MM	50	600	1250	3.26	1.50



Warmup Insulation Boards have zero Ozone Depletion Potential (ODP) and a Global Warming Potential (GWP) of less than 5

Fixing Rails

The fixing rails are suitable for the inscreed heater only. They are secured to the insulation board or the concrete subfloor using fixing nails or adhesive and should be evenly spread across the floor at 0.75m intervals.

The fixing rails hold the cable in place at set spacings depending on the wattage/m² required.

TECHNICAL DATA	
COMPOSITION	GLAVANIZED STEEL
ZINC COATING	185GSM
THICKNESS	0.4mm
WIDTH	21mm
LENGTH	25m
CLIP SPACING - CABLE TO CABLE	25mm



Thermostat



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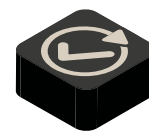
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