

# Loose Wire System

## Overview

The Warmup Loose Wire System is designed for use within the adhesive layer under tiles or within a levelling compound under other floor finishes. The variable spacing of the cable available during design and installation allows the system power to be tailored to the properties requirements.

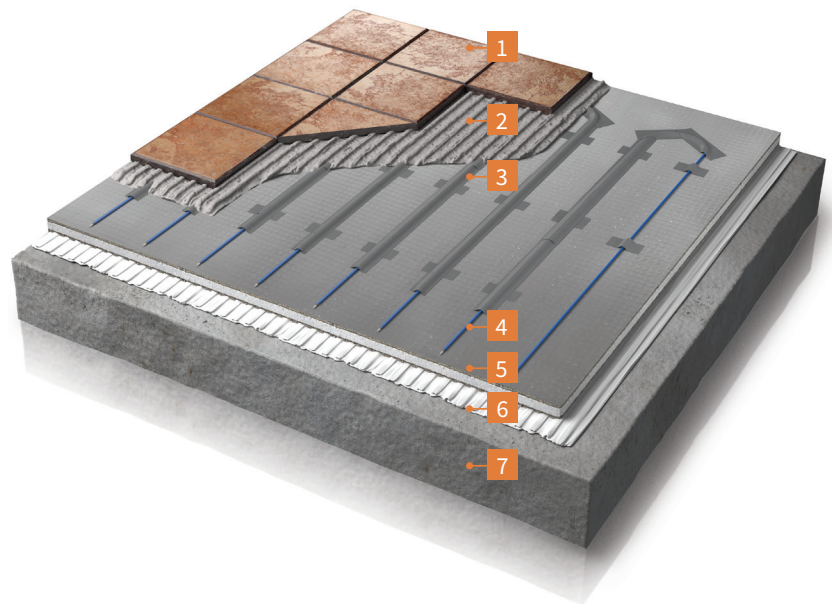
The Loose Wire System is ideal for installation within small or irregularly shaped areas. In a bathroom the cable can be easily installed around the fixtures and within rooms with curved features it can easily follow the contours.

The variable spacing of the cable also allows the heat output to be matched to requirements. For regularly shaped rooms the Sticky Mat system offers a quick and precise installation alternative to the Loose Wire System.

Alternatively, for floor finishes other than tiles the Foil Heater System offers utilises a completely dry construction that does not require a levelling compound.

### FLOOR CONSTRUCTION

- 1 Floor finish
- 2 Tile adhesive or levelling compound
- 3 Warmup Tape
- 4 Warmup Loose Wire
- 5 Warmup Coated Insulation Board
- 6 Flexible Tile Adhesive
- 7 Subfloor



**Electric**  
Heating System

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**Warmup**

The world's best-selling floor heating brand™

# Technical Data

## TECHNICAL DATA - Loose Wire

OPERATING VOLTAGE	220 - 240v: 50Hz
IP RATING	IPX7
CABLE THICKNESS	1.8mm
AVERAGE OUTPUT RATING	150W/m <sup>2</sup>
INNER INSULATION	ETFE
OUTER INSULATION	ETFE
MIN. INSTALLATION TEMP	5°C
MAX. OPERATING TEMP	80°C
CONNECTION	3m LONG "COLDTAIL" CONNECTION



## Features

- Exceptionally quick response time with system installed directly beneath the tile floor finish
- Ultra-thin, 1.8mm cable multistrand, dual core heating cable is double insulated with an advanced fluoropolymer making it exceptionally tough and easy to tile over
- Ideal for irregular shaped rooms such as bathrooms where the cable can be easily installed around the fixtures
- By warming up and cooling down faster, before and after you use the room, the room is cooler when not in use, losing less heat and saving energy

- BEAB Approved and CE marked meeting the highest safety standards for ultimate piece of mind  
- Lifetime Warranty & SafetyNet Installation Guarantee  

# Technical Data

PRODUCT CODE	LOOSE WIRE SYSTEM (DWS)					
	COLOUR	HEATER LENGTH	POWER (W)	LOAD (A)	RESISTANCE ( $\Omega$ )	RESISTANCE BANDS ( $\Omega$ )
DWS300	BLUE	22	300	1.30	177	168.2 - 185.9
DWS400	NEUTRAL	32	400	1.80	128	121.6 - 134.4
DWS600	GREY	44	600	2.60	88	83.6 - 92.4
DWS800	RED	64	800	3.60	64	60.8 - 67.2

AREA TO BE HEATED (m <sup>2</sup> )	LOOSE WIRE SYSTEM (DWS)	
	HEATERS REQUIRED (PRODUCT CODE)	SPACING (mm)
1.5 - 1.8	DWS300	70
1.9 - 2.4	DWS300	90
2.5 - 2.7	DWS400	70
2.8 - 3.0	DWS400	80
3.1 - 3.4	DWS400	90
3.5 - 3.8	DWS600	70
3.9 - 4.1	DWS600	80
4.2 - 4.4	DWS600	90
4.5 - 5.0	DWS800	70
5.1 - 5.6	DWS800	80
5.7 - 5.9	DWS800	90
6.0 - 6.4	DWS400 + DWS600	80
6.5 - 6.9	DWS400 + DWS600	90
7.0 - 7.7	2 x DWS600	80
7.8 - 8.4	2 x DWS600	90
8.5 - 9.2	DWS600 + DWS800	80
9.3 - 9.9	DWS600 + DWS800	90
10.0 - 11.1	2 x DWS800	80
11.2 - 11.4	2 x DWS800	90
11.5 - 12.2	DWS400 + DWS600 + DWS800	80
12.3 - 12.9	DWS400 + DWS600 + DWS800	90
13.0 - 13.7	2 x DWS800 + DWS400	80
13.8 - 14.4	2 x DWS800 + DWS400	90
14.5 - 15.2	2 x DWS800 + DWS600	80
15.3 - 15.9	2 x DWS800 + DWS600	90
16.0 - 16.7	3 x DWS800	80
16.8 - 17.4	3 x DWS800	90
17.5 - 18.9	2 x DWS800 + DWS600 + DWS400	90
19.0 - 19.7	3 x DWS800 + DWS400	80
19.8 - 20.4	3 x DWS800 + DWS400	90
20.5 - 21.2	3 x DWS800 + DWS600	80
21.3 - 21.9	3 x DWS800 + DWS600	90
22.0 - 22.3	4 x DWS800	80
22.4 - 24.6	4 x DWS800	90
24.7 - 25.0	4 x DWS800	100

# 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 <sup>2</sup> .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**

## Thermostat



### 4iE® SMART WIFI THERMOSTAT

For Central Heating and Underfloor Heating Systems

Connected to the internet by WiFi, it can be controlled from a smart phone, tablet or computer as well as its own touchscreen interface. It learns how homeowners use their heating and the unique way each zone reacts. It uses this knowledge to suggest ways to save energy, such as what temperature should be set when the area is not in use and when the heating can be turned off earlier with no noticeable impact on comfort.

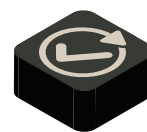
Personalise your 4iE with uploadable photo backgrounds and changeable, textured overlays.



**SmartGeo™**  
Always at the right temperature automatically, and up to 25% lower energy usage. Just like magic.



**EasySwitch™**  
Always on the best tariff, automatically. Saving on average £210.



**Easy to use**  
Simple and secure set up using WiFi, with 24/7 technical support.