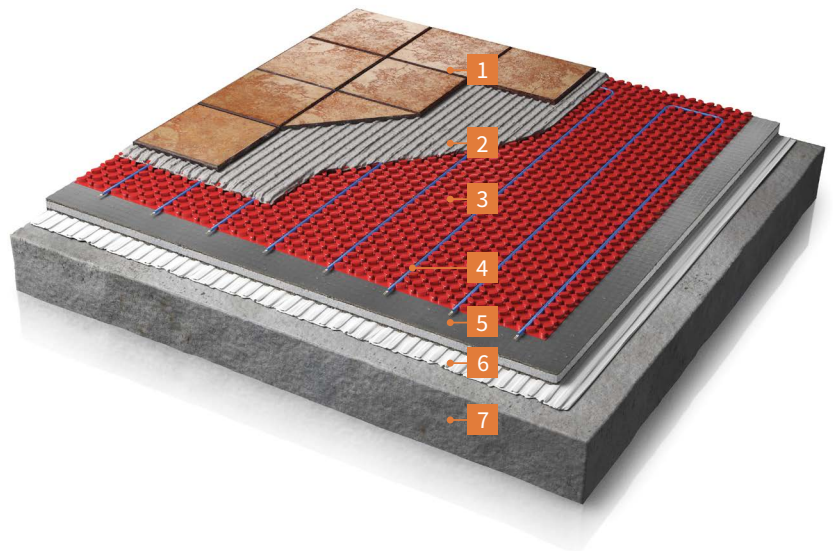# DCM-PRO System

Overview

The Warmup DCM-PRO System is designed for use over a subfloor prepared for tiling. The mat has a strong self-adhesive layer to secure it directly to Warmup insulation boards. Alternatively it can be affixed to a clean dry subfloor, which has been primed using an SBR primer (ratio 1:4). The mat is available in 1 m² sheets or 15 m x 1 m rolls, which makes installation quick and easy whilst ensuring precision is maintained. The mat can be easily trimmed using a utility knife.

The 4.5 mm multi-strand, dual core heating cable, is insulated with an advanced fluoropolymer making it exceptionally tough and easy to tile over. It is easily clipped into the DCM-PRO mat by gently pressing it in between the castellations. The cable can be spaced at 60 mm, 90 mm & 120 mm depending on power requirements.

The DCM-PRO system can be used as a waterproofing layer through the addition of the DCM-PRO waterproofing tape, for installations such as wetrooms or where there will be significant exposure to water.

FLOOR CONSTRUCTION

1 Floor finish

2 Tile adhesive or levelling compound

3 Warmup DCM-PRO Mat

4 Warmup DCM-PRO Cable

5 Warmup Coated Insulation Board

6 Flexible Tile Adhesive

7 Subfloor

Electric Heating System

Warmup®
The world's **best-selling** floor heating brand™

Technical Data

TECHNICAL DATA - DCM-PRO Cable

OPERATING VOLTAGE	230 V AC: 50Hz
IP RATING	IPX7
COLOUR	BLUE
THICKNESS	4.5mm (± 0.2mm)
OUTPUT RATING	150 W/m^2 (3 Castellations - 91.8 mm)
INNER INSULATION	ADVANCED FLUOROPOLYMER (ETFE)
OUTER INSULATION	PVC
MIN. INSTALLATION TEMP	5 °C
CONNECTION	3 m LONG "COLDTAIL" CONNECTION
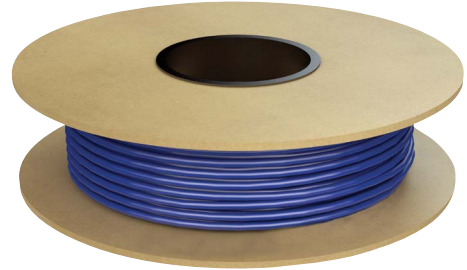
TECHNICAL DATA - DCM-PRO Mat

THICKNESS	5.5 mm
COMPOSITION	POLYPROPYLENE MEMBRANE WITH SELF-ADHESIVE BACKING
COLOUR	RED
SPACING	61.2 mm, 91.8 mm & 122.4 mm
SIZING	1m^2 sheet / 15m x 1m roll
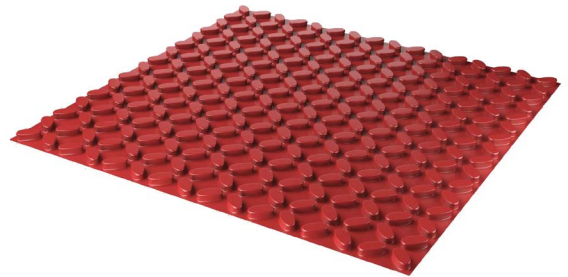
Features

- 4.5 mm multi-strand, dual core heating cable with an advanced fluoropolymer inner insulation making it exceptionally tough and easy to tile over

- Reduced installation costs, by comparison to similar products

- Pressure sensitive adhesive securely binds the mats to the floor keeping them flat for fast and secure installation

- BEAB Approved and CE marked meeting the highest safety standards for ultimate peace of mind $\quad$ CE $\quad$ BEAB

- Lifetime Warranty & SafetyNet Installation Guarantee

Technical Data

DCM-PRO MAT SIZES

PRODUCT CODE	FORMAT	LENGTH (mm)	WIDTH (mm)	AREA COVERED (m²)
DCM-M-1	Sheet	1,040	980	1
DCM-M-15	Roll	15,300	980	15

DCM-PRO CABLE

PRODUCT CODE	POWER (W)	LOAD (A)	RESISTANCE (Ω)	RESISTANCE BANDS (Ω)
DCM-C-1	150	0.6	352.7	335.0 - 370.3
DCM-C-1.5	225	0.9	235.1	223.3 - 246.9
DCM-C-2	300	1.3	176.3	167.5 - 185.1
DCM-C-2.5	375	1.6	141.1	134.1 - 148.2
DCM-C-3	450	1.9	117.6	111.7 - 123.5
DCM-C-3.5	525	2.2	100.8	95.8 - 105.8
DCM-C-4	600	2.5	88.2	83.8 - 92.6
DCM-C-4.5	675	2.8	78.4	74.5 - 82.3
DCM-C-5	750	3.2	70.5	67.0 - 74.0
DCM-C-6	900	3.8	58.8	55.9 - 61.7
DCM-C-7	1050	4.4	50.4	48.0 - 52.9
DCM-C-8	1200	5.0	44.1	42.0 - 46.3
DCM-C-9	1350	5.7	39.2	37.2 - 41.2
DCM-C-10	1500	6.3	35.3	33.5 - 37.1
DCM-C-12	1800	7.6	29.4	27.9 - 30.9
DCM-C-14	2100	8.8	25.2	23.9 - 26.5
DCM-C-16	2400	10.1	22.0	20.9 - 23.1

HEATED AREA AT DIFFERENT SPACINGS, m²

CABLE LENGTH (m)	60mm 230W/m²	60/90mm ~190W/m²	90mm 150W/m²	90/120mm ~130W/m²	120mm 115W/m²
10.9	0.7	0.8	1.0	1.2	1.3
16.3	1.0	1.3	1.5	1.8	2.0
21.8	1.3	1.7	2.0	2.3	2.7
27.2	1.7	2.1	2.5	2.9	3.3
32.7	2.0	2.5	3.0	3.5	4.0
38.1	2.3	2.9	3.5	4.1	4.7
43.5	2.7	3.3	4.0	4.7	5.3
49.0	3.0	3.8	4.5	5.3	6.0
54.4	3.3	4.2	5.0	5.8	6.7
65.3	4.0	5.0	6.0	7.0	8.0
76.2	4.7	5.8	7.0	8.2	9.3
87.1	5.3	6.7	8.0	9.3	10.7
98.0	6.0	7.5	9.0	10.5	12.0
108.8	6.7	8.3	10.0	11.7	13.3
130.6	8.0	10.0	12.0	14.0	16.0
152.4	9.3	11.7	14.0	16.3	18.7
174.1	10.7	13.3	16.0	18.7	21.3

Note: To heat larger areas, two or more cables should be used. i.e. To heat a 23m² room at 150 W/m², use a DCM-C-14 and a DCM-C-9

DCM-PRO ADDITIONAL COMPONENTS

PRODUCT CODE	PRODUCT DESCRIPTION	FORMAT	LENGTH (Varies)	WIDTH (mm)	HEIGHT (mm)	THICKNESS (mm)
DCM-E-25	PERIMETER STRIP	Roll	25m	-	30	10
DCM-T-50	WATERPROOFING TAPE	Roll	50m	-	120	1
DCM-R-I	INTERNAL CORNER	Corner	120mm	120	60	1
DCM-R-E	EXTERNAL CORNER	Corner	120mm	120	60	1

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
INSBOARD30MM	30	600	1250	2.82	0.88
INSBOARD40MM	40	600	1250	3.05	1.20
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.
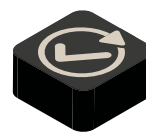
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Always at the right temperature automatically, and up to 25% lower energy usage. Just like magic.

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

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Simple and secure set up using WiFi, with 24/7 technical support.

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       Toilet Roll Holders

       Soap Dishes

       Towel Rings

       Shower Caddies

Bathroom Mirrors

       Standard Bathroom Mirrors

       LED Bathroom Mirrors

       Shaving Mirrors