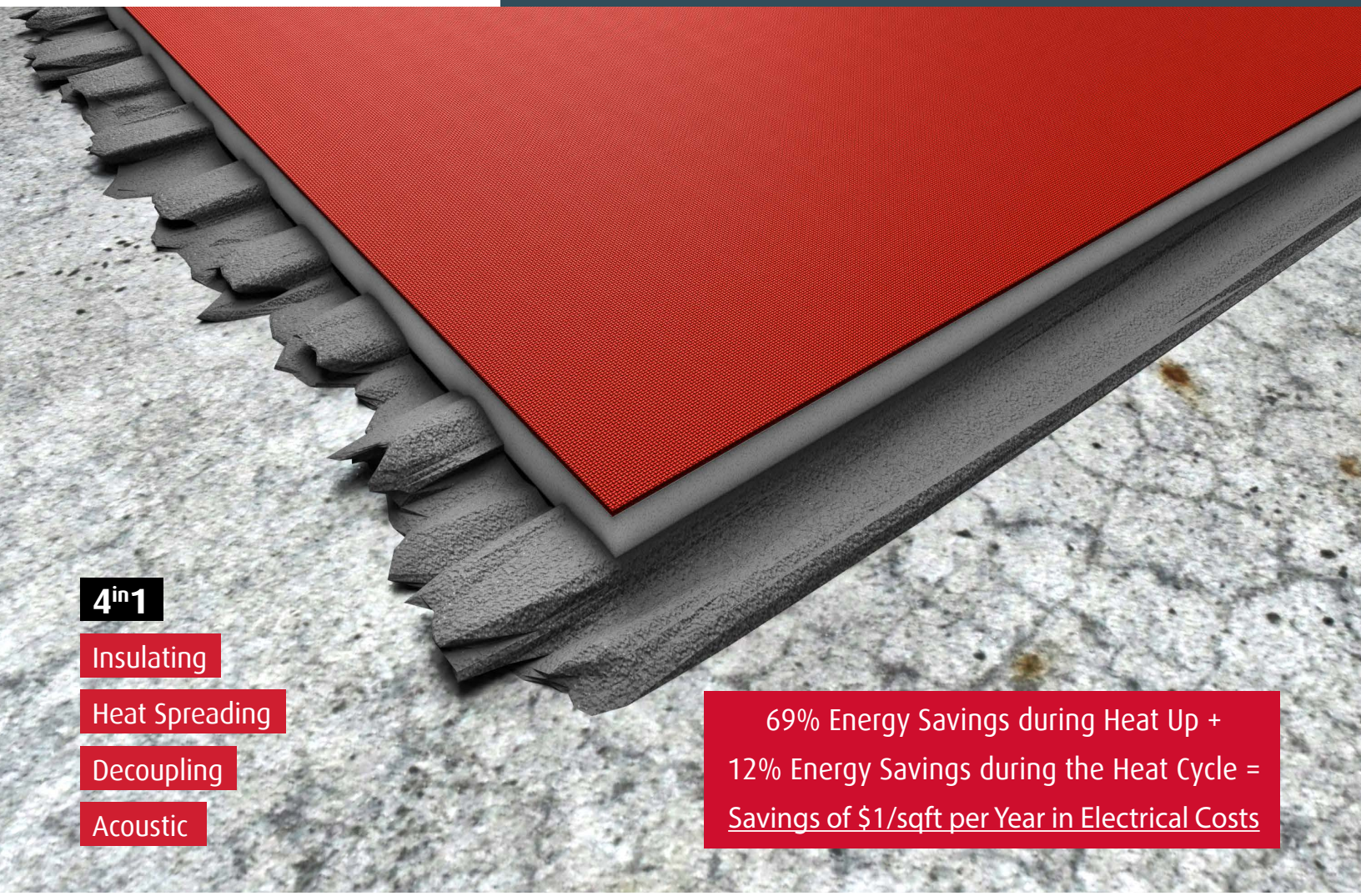
Warmup®

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

Warmup® Ultralight™

SPECIFICATION SHEET WSC-0403



PRODUCT CODES

WCI-1 and WCI-10

OVERVIEW

Ultralight™ is a specialized composite board designed for floor heating applications. Manufactured as flat, flexible, sheets they are water and mold resistant. The top surface incorporates a heat spreading aluminum layer combined with non-woven fleece.

The core of PEF insulation provides thermal separation from the floor beneath, ensuring a rapid thermal response of a heated layer of tiles or leveling compound above.

The rapid thermal response promoted by the PEF insulation and diffusion layer allows the flooring to heat up faster, resulting in a more energy-efficient and comfortable heated floor.

The base layer of non-woven fleece functions as a high-performance anti-fracture membrane for tile and stone floor coverings. It also facilitates a high-strength mechanical bond.

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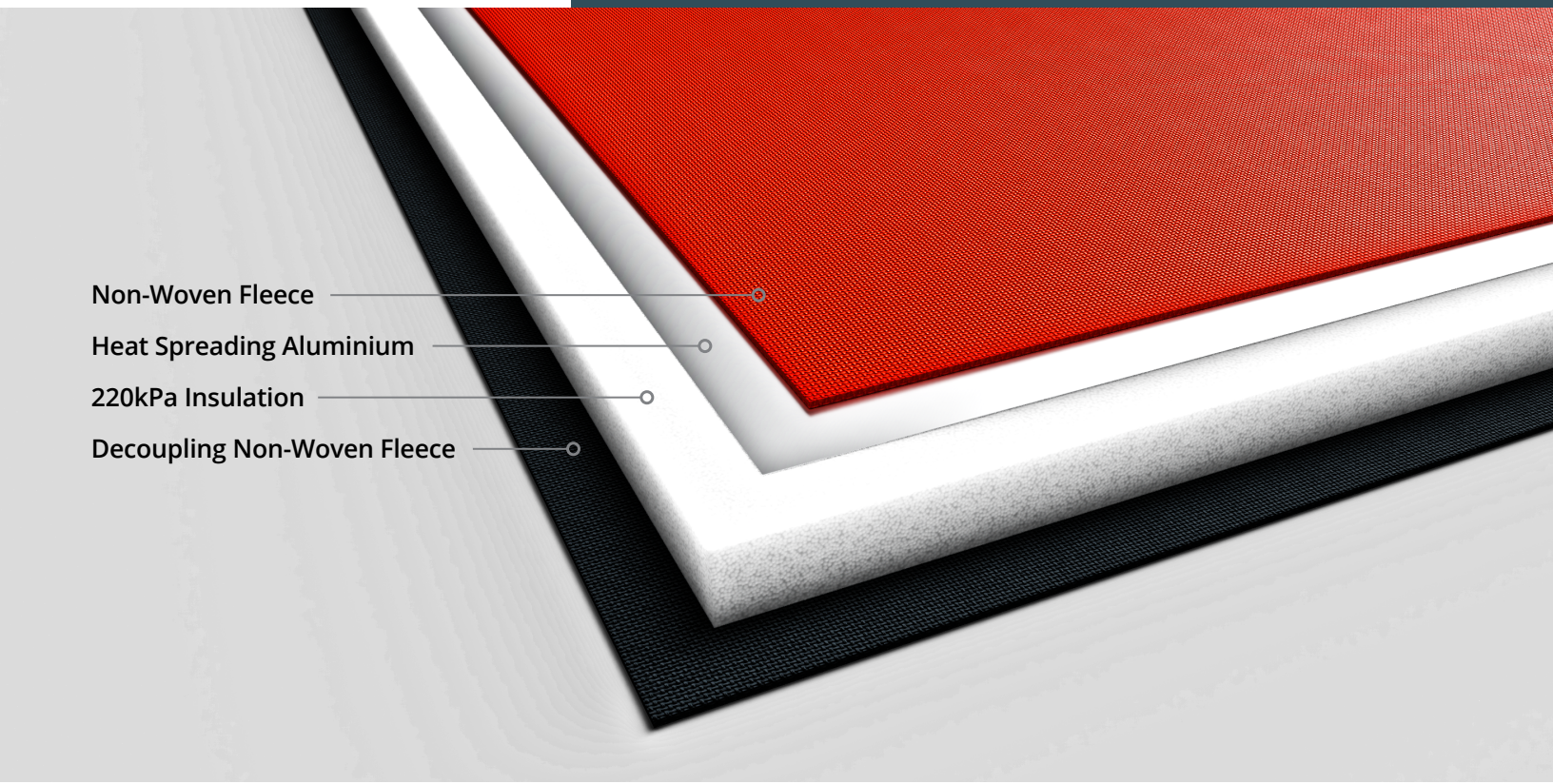

FEATURES & BENEFITS

- The heat spreading aluminum layer improves comfort and reduces running costs. This enabled the floor to achieve the same comfort temperature with 12% less energy
- PEF insulation layer reduces heat up times by 76 minutes on slabs and reduces energy used during heat up by 69%
- Decoupling fleece layer provides high performance protection against tiles cracking due to lateral subfloor movement in accordance with ANSI A118.12 standard
- Warmup Ultralight is tested and rated for its acoustic performance by Intertek Building & Construction in accordance with ISO 10140-2, ISO 10140-3, ASTM E90 and ASTM E492 . Results obtained are tested values and were obtained by using the designated test methods in test chambers that satisfy the lab requirements specified in ISO 10140-5. See page 4 for detailed information
- Ultralight weighs just over 2lbs per board making it much lighter and easier to carry than standard cement-based tile insulation and backer boards and is more durable due to the high strength composite design meaning it wont break if bent or dropped
- Ultralight achieved Heavy Commercial rating when used with large format tiles (600 mm x 600 mm) and Light Commercial rating when used with standard tiles (300 mm x 300 mm), in accordance with ATSM-C627 (Robinson Test)
- The lightweight composite design makes it easier to cut curves and complex shapes, compared with cement-based tile insulation and backer boards and will not dull knife blades
- Ultralight will not crumble, dent, or create dust when cutting or kneeling on the boards which means no dust to clean or breathe in during installation

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TECHNICAL DATA

Product Code	WCI-1	**Compressive Strength, 10% Compression, EN 826**	32 psi (220 kPa)
Pack Size	Sold individually (Must order a minimum of 5).	**Point Loading, tiled ANSI A118.12**	≥ 500 lbf (≥ 2.2 kN)
Thickness	1/4″ (6 mm) ± 0.3mm	**Robinsons test, 100 - 199 mm tiles, ASTM C627**	Domestic
Dimensions	24″ W (610 mm) x 48″ L (1219 mm) ±1/4″ (6mm)	**Robinsons test, 200 - 599 mm tiles, ASTM C627**	Light Commercial
Area	8 sqft (0.75m²)	**Robinsons test, ≥ 600 mm tiles, ASTM C627**	Heavy Commercial
Weight of Board	1.43lb (0.86kg)	**7 Day Shear Strength, ANSI A118.12**	113 psi (780 kPa)
Thermal Resistance EN 12667	0.630 °F·ft²·h/BTU (0.111 m²K/W)	**Crack Resistance (Anti-Fracture / Decoupling), ANSI A118.12**	≥ 1/8" => High Performance
Thermal Conductivity EN 12667	0.031 BTU/°F·ft·h (0.054 W/mK)	**Long Term Water Absorption, EN 12087**	0.052% w/w
Reaction to Fire, EN 13501-1 EN ISO 11952-2	Euroclass E	**Water Vapour Permeability, EN 12086**	9.12 mg/m²h
Release of Dangerous Substances	SVHC ≤ 0.1% w/w	**Mould Growth, ANSI A118.12**	Does not support mould growth
10 Year Warranty			

Acoustic Performance*

Floor Construction	Standards	Result	Report No.
3/4″ (19mm) OSB board 18″ (450mm) Open Web Joists 3.5″ (90mm) Fibreglass Insulation 1/2″ (12.7mm) RC Deluxe Resilient Channel 5/8″ (15.9mm) Gypsum Panel	ISO 717-1 ISO 10140-2 ISO 10140-3 ASTM E90 ASTM E492	Rw 54 dB $L_{n,w}$ 60 dB STC 54 IIC 50 HIIC 50	M5642.01-113-11-R0 M5642.02-113-11-R0
75 lb/ft² (350 kg/m²) Concrete Slab	ISO 717-1 ISO 10140-2 ISO 10140-3 ASTM E90 ASTM E492 ASTM 3222 ASTM E2179	Rw 53 dB $L_{n,w}$ 67 dB $\Delta L_{n,w}$ 11 dB STC 53 IIC 43 ΔIIC 15 HIIC 42 ΔIIC 14	M5643.01-113-11-R0 M5643.02-113-11-R0

* See page 5 for detailed information

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TECHNICAL DATA

Product Code	WCI-10	**Compressive Strength, 10% Compression, EN 826**	32 psi (220 kPa)
Pack Size	Sold in a box of 10	**Point Loading, tiled ANSI A118.12**	≥ 500 lbf (≥ 2.2 kN)
Thickness	1/4″ (6 mm) ± 0.3mm	**Robinsons test, 100 - 199 mm tiles, ASTM C627**	Domestic
Dimensions	3′3x 2′3 x 1/4″ (985mm x 678mm x 6mm).	**Robinsons test, 200 - 599 mm tiles, ASTM C627**	Light Commercial
Area	Covers 71.8sqft.	**Robinsons test, ≥ 600 mm tiles, ASTM C627**	Heavy Commercial
Weight of Board	1.43lb (0.86kg)	**7 Day Shear Strength, ANSI A118.12**	113 psi (780 kPa)
Thermal Resistance EN 12667	0.630 °F·ft²·h/BTU (0.111 m²K/W)	**Crack Resistance (Anti-Fracture / Decoupling), ANSI A118.12**	≥ 1/8" => High Performance
Thermal Conductivity EN 12667	0.031 BTU/°F·ft·h (0.054 W/mK)	**Long Term Water Absorption, EN 12087**	0.052% w/w
Reaction to Fire, EN 13501-1 EN ISO 11952-2	Euroclass E	**Water Vapour Permeability, EN 12086**	9.12 mg/m²h
Release of Dangerous Substances	SVHC ≤ 0.1% w/w	**Mould Growth, ANSI A118.12**	Does not support mould growth

10 Year Warranty

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ACOUSTIC PERFORMANCE

Warmup Ultralight is tested and rated for its acoustic performance by Intertek Building & Construction in accordance with ISO 10140-2, ISO 10140-3, ASTM E90 and ASTM E492. Results obtained are tested values and were obtained by using the designated test methods in test chambers that satisfy the lab requirements specified in ISO 10140-5.

Each tested construction included standard ceramic tiles and tile adhesive installed over Ultralight installed in accordance with its manual. These installation layers are common to and cover all floor constructions* detailed below.

1/3″ (8mm) Ceramic Tile

1/8″ (3mm) Cementitious Tile Adhesive

1/4″ (6mm) Warmup Ultralight

1/8″ (3mm) Cementitious Tile Adhesive

Floor Construction*	**Standards**	**Result**	**Report No.**
3/4″ (19mm) OSB board 18″ (450mm) Open Web Joists 3.5″ (90mm) Fibreglass Insulation 1/2″ (12.7mm) RC Deluxe Resilient Channel 5/8″ (15.9mm) Gypsum Panel	ISO 717-1 ISO 10140-2 ISO 10140-3 ASTM E90 ASTM E492	Rw 54 dB $L_{n,w}$ 60 dB STC 54 IIC 50 HIIC 50	M5642.01-113-11-R0 M5642.02-113-11-R0
75 lb/ft² (350 kg/m²) Concrete Slab	ISO 717-1 ISO 10140-2 ISO 10140-3 ASTM E90 ASTM E492 ASTM 3222 ASTM E2179	Rw 53 dB $L_{n,w}$ 67 dB $\Delta L_{n,w}$ 11 dB STC 53 IIC 43 ΔIIC 15 HIIC 42 ΔIIC 14	M5643.01-113-11-R0 M5643.02-113-11-R0

** Construction from Top to Bottom*

NOTE:
Rw = Sound Reduction Index
$L_{n,w}$ = Normalised Impact Sound Pressure Level
$\Delta L_{n,w}$ = Improvement in impact sound insulation when Ultralight is added
STC = Sound Transmission Class
IIC = Impact Insulation Class
HHIC = High-Frequency Impact Insulation Class

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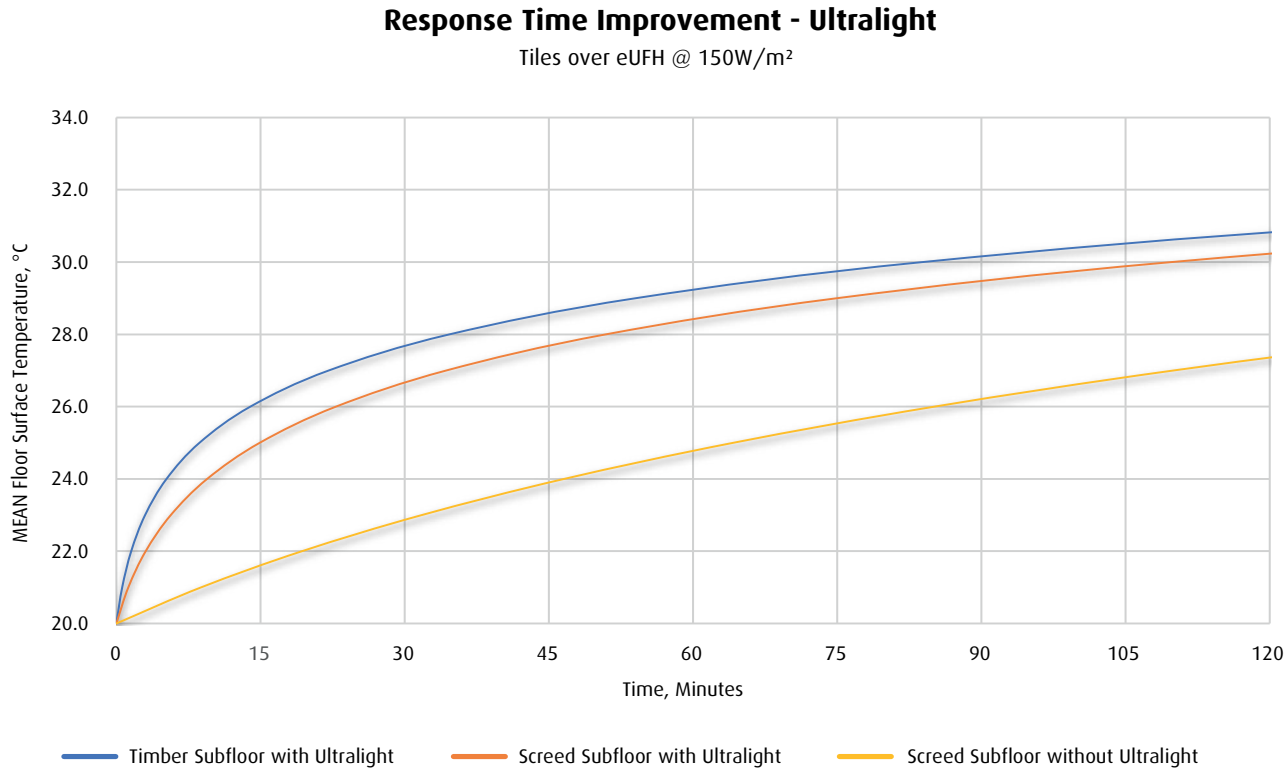
RESPONSE TIME IMPROVEMENT

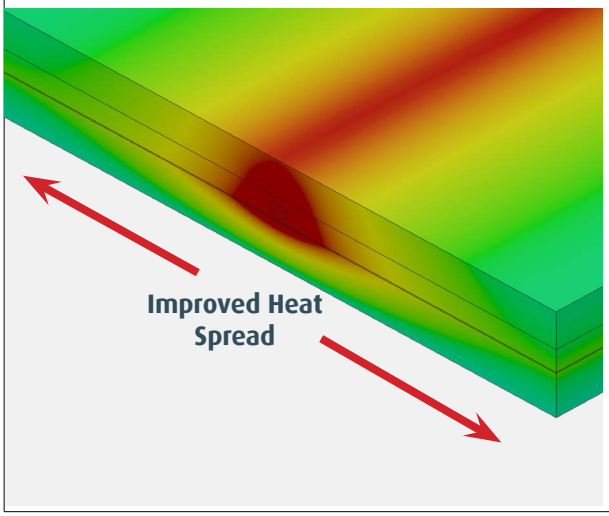
Ultralight significantly improves the response time of floor heating



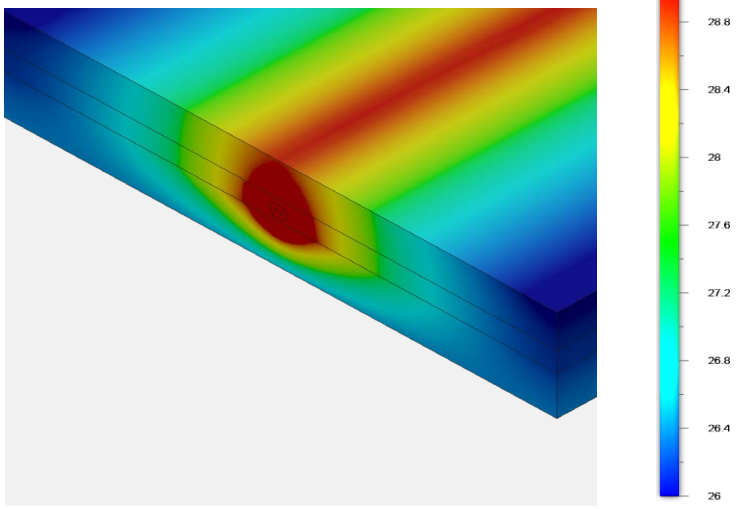
HEAT SPREAD

Ultralight accelerates lateral heat spread for more even heat in less time

6 mm Ultralight - 29°C Surface Limit



6 mm Traditional Insulation - 29°C Surface Limit



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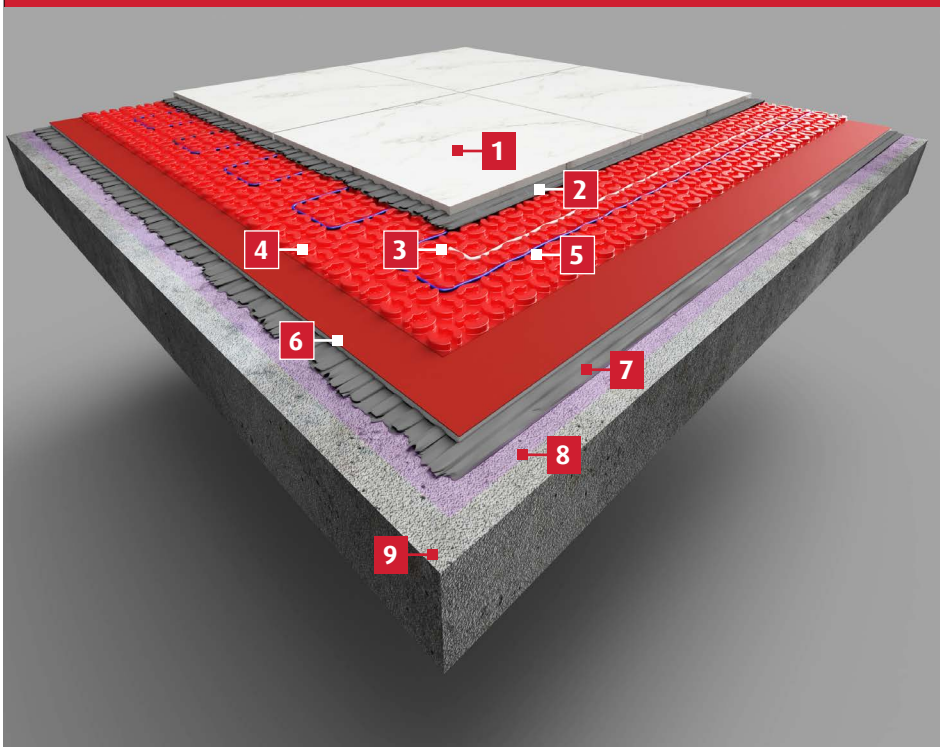
TYPICAL FLOOR BUILD-UP

Ultralight with Warmup DCM-PRO



1	**Tile floor finish**
2	**Flexible tile adhesive**
3	**Floor sensor** Tab tape the sensor to the subfloor. Do not tape over the sensor tip!
4	**Decoupling membrane with adhesive backing** Apply pressure to the membrane to ensure a secure bond to the subfloor
5	**Heating cable** DO NOT cut at any stage!
6	**Warmup Ultralight (optional)** Adding Warmup Ultralight below DCM-PRO can help improve the response time of the system, particularly when installing over screed or concrete
7	**Flexible tile adhesive (optional)** Required if installing Warmup Ultralight
8	**Primer** Refer to tile adhesive manufacturers instructions for priming requirements
9	**Pre-insulated subfloor with a surface regularity of SR1***

* If installing the optional Warmup Ultralight, refer to its installation manual for its subfloor requirements.

TECHNICAL SUPPORT

Warmup is available 24/7/365 at (888) 927-6333.
For quotes, layouts and specific technical information, contact us at:

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RELATED PRODUCTS

- Heating Mat - DWM - see WSC-0720
- DCM-PRO Cable - see WSC-0816
- DCM-PRO Peel-and-Stick Membrane - see WSC-1001