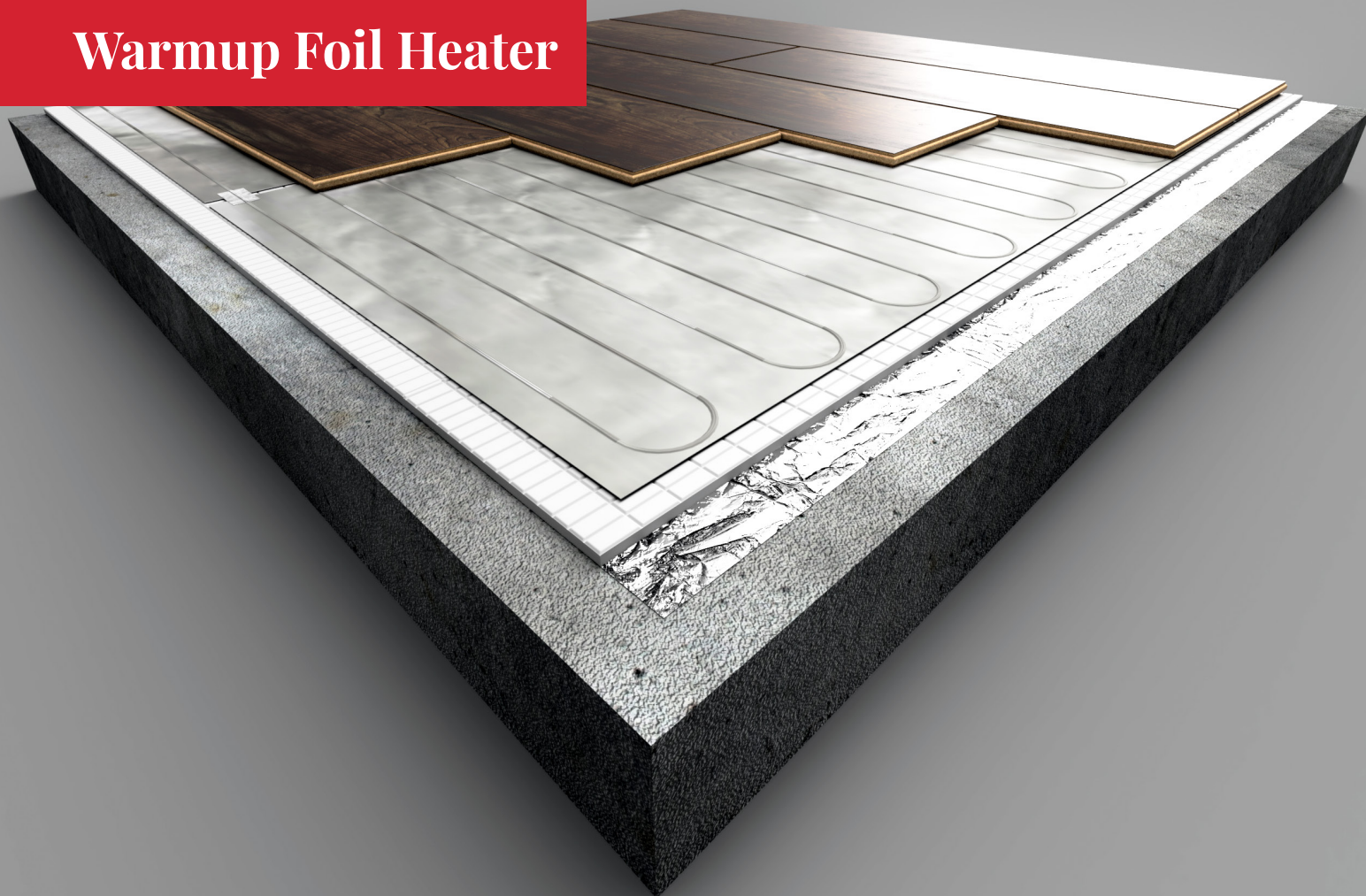


Warmup Foil Heater



For floating floor finishes

Ideal for heating under laminate, engineered wood and other floating floor finishes such as Vinyl when combined with Warmup Dual Overlay or HiDECK18.

For regular shaped rooms

Ideal for regular shaped rooms, where the 0.5m wide mats can be rolled out across the floor in parallel runs. If required the mat can be cut to fit around fixed objects.

Even heat distribution

Heating wires contained within a reinforced aluminium foil matting that acts as a continuous earth layer to evenly and consistently distribute heat across the floor.

Quick and easy installation

The Foil Heater provides a quick and 'dry' installation with no adhesive, screed or levelling compound required – keeping floor build-up low, minimising floor heights.



Overview

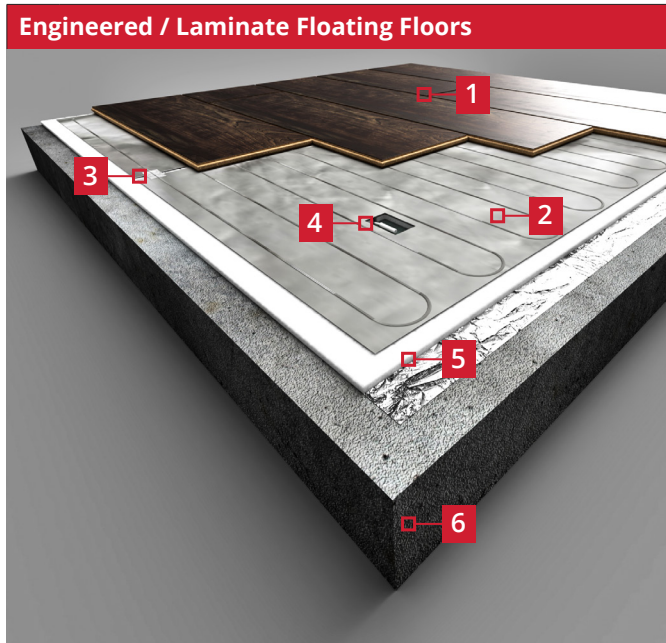
Warmup Foil Heater is an electric underfloor heating system designed for use under floating floor finishes such as wood or laminate. Glued parquet flooring, vinyls and other resilient floor finishes can be laid over the Warmup Foil Heater by combining with Warmup Dual Overlay or HiDECK18 to create a thin floating floor deck.

The thin multi strand, dual core heating cables are contained within a reinforced aluminium foil matting that acts as a continuous earth layer, facilitating a consistent and even heat distribution across the chosen floor finish.

The Foil Heater provides a quick, 'dry' installation with no adhesive, screed or levelling compound needed – meaning its build-up is kept low, with little impact on finished floor heights.

Installing the Foil Heater also provides the homeowner with the option of easier future refurbishments as the floating floor finish installed over the foil heater can be easily lifted and replaced with a new finish if desired.

Typical floor build-up



1 Floating floor finish

2 Warmup Foil heater

3 Aluminium foil strips

They MUST bridge the gap between the cut sections of mat to ensure earth continuity

4 Floor sensor

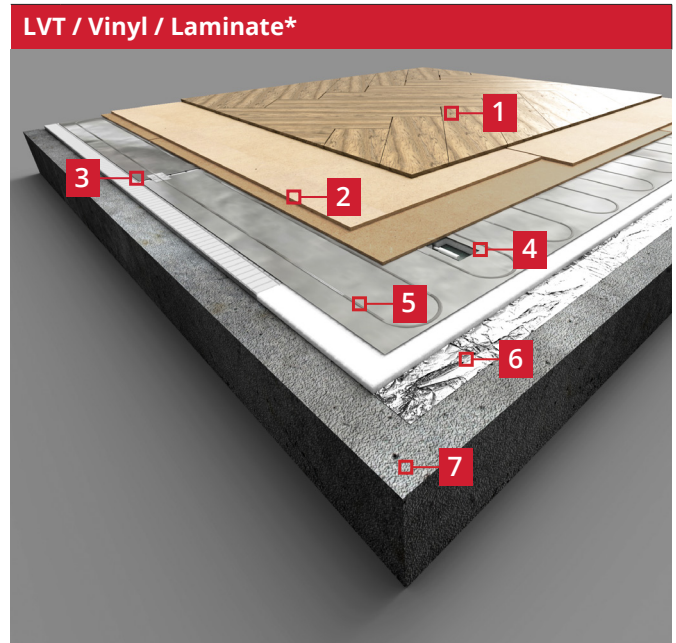
Location shown above; Installed centrally between 2 parallel runs of heating cable. Tab tape the sensor to the insulated underlay. Do not tape over the sensor tip!

5 Warmup Insulated Underlay**

6 Pre-insulated subfloor with a surface regularity of SR1

* Dual Overlay is limited for use with floors which require a hard surface to be installed on such as LVT, Vinyl and CERTAIN Laminates, check with flooring manufacturer for guidance. Warmup Dual Overlay is not suitable for wet areas

** Warmup Ultralight may also be used. Please refer to its installation instructions for subfloor requirements.



1 LVT / Vinyl / Laminate floor finish

2 Warmup Dual Overlay*

HiDECK18 can also be used as an overlay layer

3 Aluminium foil strips

They MUST bridge the gap between the cut sections of mat to ensure earth continuity

4 Floor sensor

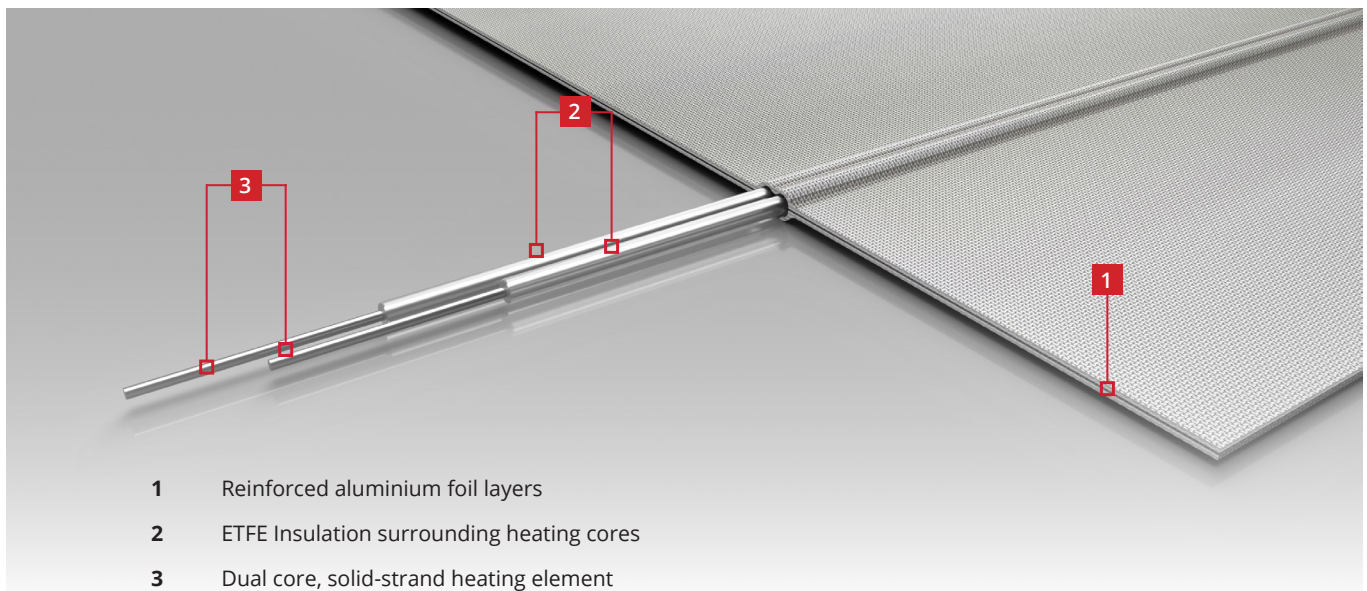
Location shown above; Installed centrally between 2 parallel runs of heating cable. Tab tape the sensor to the insulated underlay. Do not tape over the sensor tip!

5 Warmup Foil heater

6 Warmup Insulated Underlay**

7 Pre-insulated subfloor with a surface regularity of SR1

Cable section



1 Reinforced aluminium foil layers

2 ETFE Insulation surrounding heating cores

3 Dual core, solid-strand heating element

Technical specification

Product code	WLFH-xxW/yyyy xx = 80/140 W/m ² yyyy = total wattage	Min. installation temperature		0 °C
		Insulation		ETFE
Operating voltage	230V AC: 50Hz	Output rating	140 W/m ² / 80W/m ²	
IP rating	IPX7	Heating cable spacing	50 mm	
Earth protection	Reinforced aluminium foil mat that acts as a continuous earth layer	Connection	3.0 m long coldtail Flat 2 core cable with earth braid	
Heating cores	Dual core, solid-strand heating element	Coldtail size	2C x 0.75 mm ² (Up to 6.0A) 2C x 1.0mm ² (> 6.0A to 10.0A)	

140 W/m² Foil heater

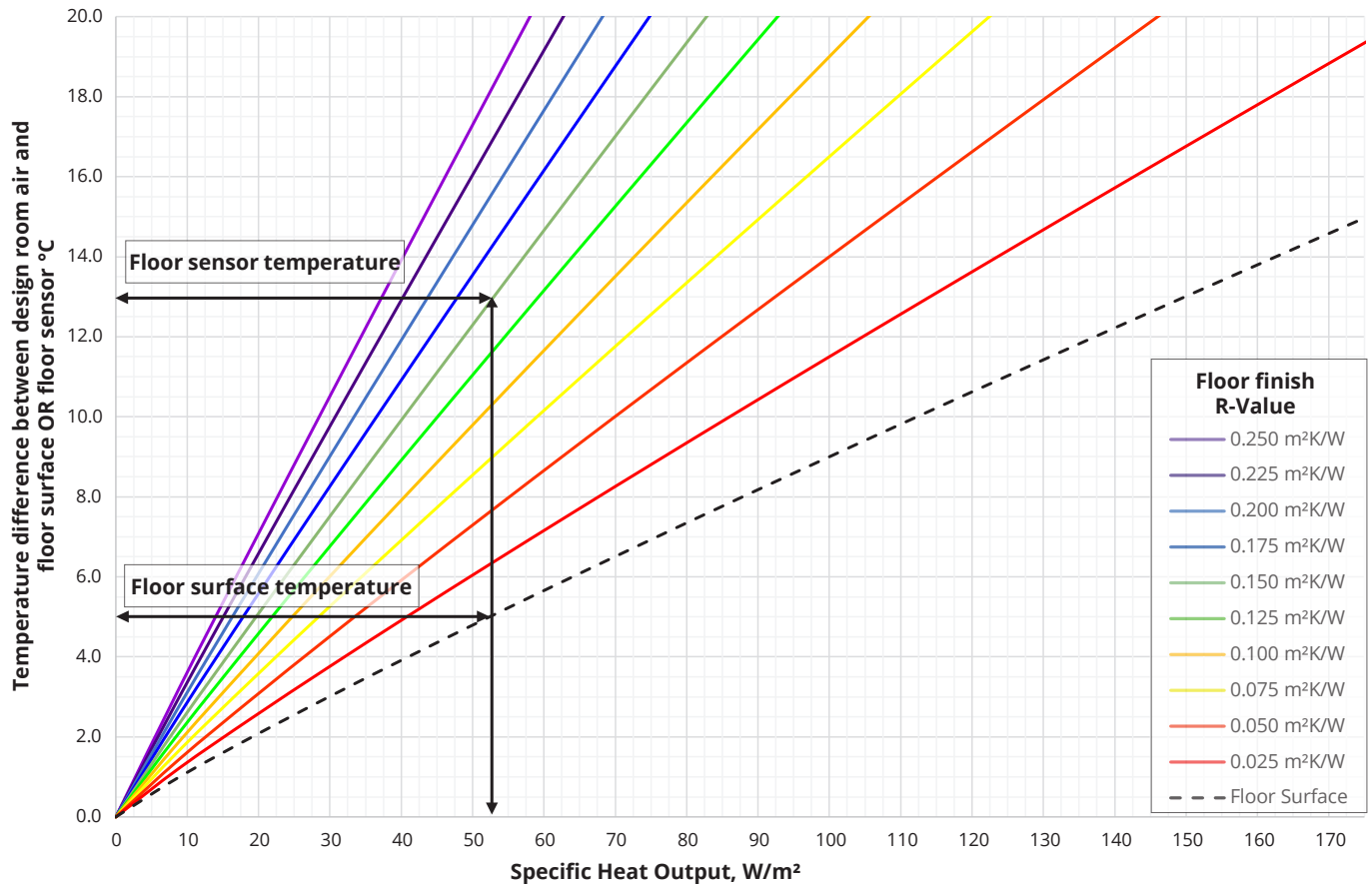
Product code	Mat size	Cable length	Power	Current	Resistance		
	m (m ²)	(m)	(W)	(A)	-5%	Nom. (Ω)	+5%
WLFH-140W/140	0.5x2m = 1m ²	20.6	140	0.61	359.0	377.9	396.8
WLFH-140W/210	0.5x3m = 1.5m ²	30.9	210	0.91	239.3	251.9	264.5
WLFH-140W/280	0.5x4 = 2m ²	41.2	280	1.22	179.5	188.9	198.4
WLFH-140W/420	0.5x6 = 3m ²	61.8	420	1.83	119.7	126.0	132.2
WLFH-140W/560	0.5x8 = 4m ²	82.3	560	2.43	89.7	94.5	99.2
WLFH-140W/700	0.5x10 = 5m ²	102.9	700	3.04	71.8	75.6	79.3
WLFH-140W/840	0.5x12 = 6m ²	123.5	840	3.65	59.8	63.0	66.1
WLFH-140W/980	0.5x14 = 7m ²	144.1	980	4.26	51.3	54.0	56.7
WLFH-140W/1120	0.5x16 = 8m ²	164.7	1120	4.87	44.9	47.2	49.6
WLFH-140W/1260	0.5x18 = 9m ²	185.3	1260	5.48	39.9	42.0	44.1
WLFH-140W/1400	0.5x20 = 10m ²	205.8	1400	6.09	35.9	37.8	39.7
WLFH-140W/1680	0.5x24 = 12m ²	247.0	1680	7.30	29.9	31.5	33.1

80 W/m² Foil heater

Product code	Mat size	Cable length	Power	Current	Resistance		
	m (m ²)	(m)	(W)	(A)	-5%	Nom. (Ω)	+5%
WLFH-80W/80	0.5x2m = 1m ²	20.6	80	0.35	628.2	661.3	694.3
WLFH-80W/120	0.5x3m = 1.5m ²	30.9	120	0.52	418.8	440.8	462.9
WLFH-80W/160	0.5x4 = 2m ²	41.2	160	0.70	314.1	330.6	347.2
WLFH-80W/240	0.5x6 = 3m ²	61.8	240	1.04	209.4	220.4	231.4
WLFH-80W/320	0.5x8 = 4m ²	82.3	320	1.39	157.0	165.3	173.6
WLFH-80W/400	0.5x10 = 5m ²	102.9	400	1.74	125.6	132.3	138.9
WLFH-80W/480	0.5x12 = 6m ²	123.5	480	2.09	104.7	110.2	115.7
WLFH-80W/560	0.5x14 = 7m ²	144.1	560	2.43	89.7	94.5	99.2
WLFH-80W/640	0.5x16 = 8m ²	164.7	640	2.78	78.5	82.7	86.8
WLFH-80W/720	0.5x18 = 9m ²	185.3	720	3.13	69.8	73.5	77.1
WLFH-80W/800	0.5x20 = 10m ²	205.8	800	3.48	62.8	66.1	69.4

System performance

Floor sensor setting for target heat output

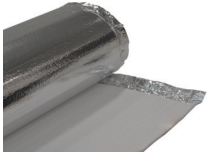


Using the graph above it is possible to get the specific heat output of an eUFH system based on the temperature difference between the design room air temperature and the floor surface or floor sensor temperature by floor finish.

The example above shows that for a design room air temperature of 20°C and floor surface temperature of 25°C. Based on the temperature difference of 5°C the resulting heat output would be 52.5 W/m². Based on a 0.150 m²K/W (1.5 Tog) floor finish the floor sensor would have to be set to 33°C to achieve this heat output.

-  The design floor surface temperature difference should not be more than 9 °C in occupied areas, 15 °C in unoccupied areas.
-  Heat output is limited by the floor finish resistance combined with the maximum probe setting of 40 °C.
-  Temperature limits of the floor finish or its adhesive may adversely limit the design heat output.

Components



Warmup Insulated Underlay - WIU

Warmup® Insulated Underlay is a thin polystyrene insulation barrier with effective acoustic properties to reduce contact noise. The insulated underlay sits between the subfloor and the foil heater, reflecting the heat upwards making the system even more efficient.



Warmup Dual Overlay - WDO

Warmup® Dual Overlay is a free-floating subfloor offering a smooth and seamless finish for carpet, vinyl and linoleum. The two layers protect the heating wire from sharp and heavy point loads and provides even heat distribution.



Warmup 6iE - 6iE-01-OB-DC / 6iE-01-BP-LC

The world's first UFH thermostat with a smartphone touchscreen providing effortless control at your fingertips. Connected to the internet by WiFi, it can be controlled from a smart phone, tablet or computer as well as its own touchscreen interface. Working automatically; it learns your routines and location through background communication with your smartphone. Using this knowledge it suggests ways to save energy.



Warmup Element - RSW-01-OB-DC / RSW-01-WH-RG

Warmup's Element WiFi Thermostat has been designed with simplicity and stylish functionality in mind. It brings energy-efficient heating control to all Warmup floor heaters. Combining smart technology with simple, contemporary design, the Element WiFi Thermostat is the perfect all-rounder to control Warmup heating systems.

Contact

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