

ThermoSphere Foil



An award winning electric underfloor heating foil system designed for dry installation under wood, carpet and vinyl floor finishes.

- Heat exchange foil conducts heat from the cables.
- Continuous earth sheath provides complete earth protection for the whole system with no extra aluminium tapes or earth connections required.
- Exposed cable loops make installation easy.
- Simple and flexible loose lay installation process.
- Install with cushioning underlay and overlay to improve the feel of the floor underfoot, protect foil and cables from wear, and add 19dB of acoustic insulation.
- Multiple mats can be connected in parallel up to the max load of the thermostat (16A).

Technical data

Voltage	230V 50Hz
Output	140W/m ²
Total thickness	2mm
Mat sizes	1 to 12m ²
Protection rating	IP68
Foil material	Aluminium fibre
Cable insulation	FEP
Impact sound reduction	19dB
Recommended max temp	27°C (Limited by controls)
Warranty	Lifetime (Online registration required)

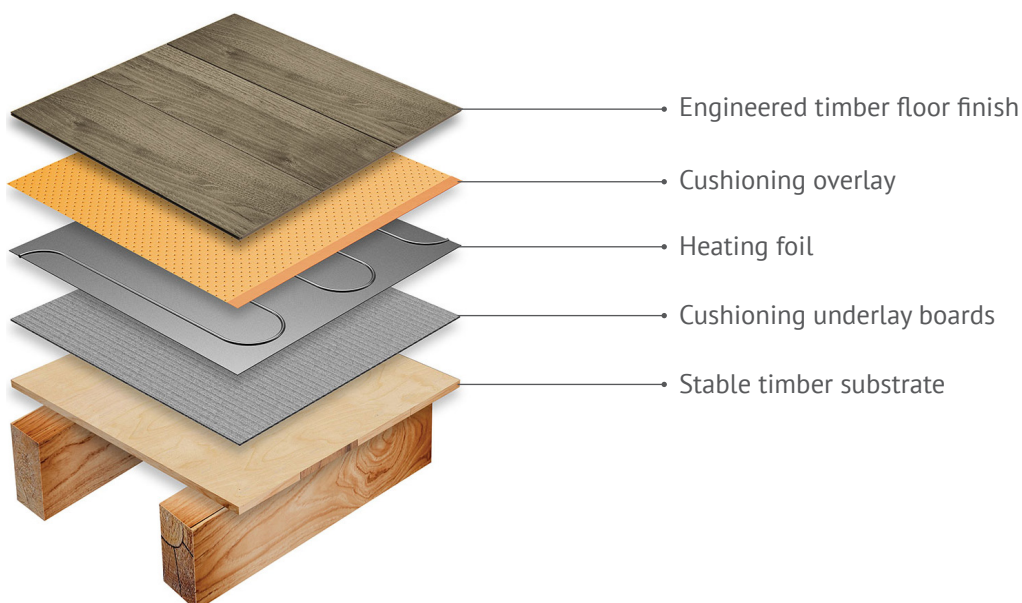
Mandatory cushioning underlay and overlay

Code	Description	Area (m ²)	Size	Unit
WCVF-CUSHU-01	Cushioning Underlay	0.6	1.2m x 0.5m x 5mm	1 board
WCVF-CUSHU	Cushioning Underlay	6	1.2m x 0.5m x 5mm	10 boards
WCVF-HFCO-01	Cushioning Overlay	1	1m x 1m x 2mm	1 panel
WCVF-HFCO-10	Cushioning Overlay	10	1m x 10m x 2mm	1 roll

Optional installation accessories

Code	Description	Area (m ²)	Size	Unit
WCVF-HDFO	HDF Overlay Boards	2.88	1.2m x 0.5m x 7mm	4 pairs
WCVF-CBHO	Cement Overlay Boards	0.72	1.2m x 0.5m x 5mm	1 pair
FT-050	Fixing Tape		50mm x 50m	1 roll
GHC-ATP-01	Aluminium Tape		50mm x 50m	1 roll

Typical dry lay floor build up with engineered timber flooring



Sizes and outputs

Code	Length (m)	Area (m ²)	Output (W)	Resistance (Ω)
WCVF-140-0100	2 x 0.5	1.0	140	337.9
WCVF-140-0150	3 x 0.5	1.5	210	251.9
WCVF-140-0200	4 x 0.5	2.0	280	188.9
WCVF-140-0250	5 x 0.5	2.5	350	151.1
WCVF-140-0300	6 x 0.5	3.0	420	126.0
WCVF-140-0400	8 x 0.5	4.0	560	94.5
WCVF-140-0500	10 x 0.5	5.0	700	75.6
WCVF-140-0600	12 x 0.5	6.0	840	63.0
WCVF-140-0700	14 x 0.5	7.0	980	53.9
WCVF-140-0800	16 x 0.5	8.0	1120	47.2
WCVF-140-0900	18 x 0.5	9.0	1260	41.9
WCVF-140-1000	20 x 0.5	10.0	1400	37.8
WCVF-140-1200	24 x 0.5	12.0	1680	31.5