FOIL MAT

DATA SHEET

Cold Lead	2.5m length, 3 core braided flex
Matting	Reinforced Aluminium Foil
Cable Construction	Multi Strand Conductor, Fluoropolymer Insulation (Teflon)
Cable Spacings	140w @ 80mm
Cable Diameter	1mm
Rated Voltage	230v
Mat Width	500mm
Mat Length	2m (1m2) – 24m (12m2) in a single roll
Warranty	Lifetime Manufactures Warranty

SPECIAL PROPERTIES

- Combining the highest comfort level with maximum energy efficiency
- Single point connection
- No PVC used on Heating Element
- Suitable for floating floor finishes
- Emits Zero EMF (electromagnetic fields)
- Flexible and Durable constructed cable

FOIL MAT

DATA SHEET

CABLE RESISTANCE CHART

Length (m)	**Watts** (w)	**Area** (m^2)	**Resistance** (0hms)	**Total Wattage** (w)
2	140	1.0	378	140
3	140	1.5	252	210
4	140	2	189	280
5	140	2.5	151	350
6	140	3	126	420
7	140	3.5	108	490
8	140	4	95	560
9	140	4.5	84	630
10	140	5.0	76	700
12	140	6.0	63	840
14	140	7.0	54	980
16	140	8.0	47	1120
18	140	9.0	42	1260
20	140	10.0	38	1400
22	140	11.0	34	1540
24	140	12.0	31.5	1680

FOIL MAT

DATA SHEET

TESTING THE HEATING SYSTEM

The Fastwarm® mat system is tested prior to shipping but it must be tested as follows:

Step 1

After unpacking and prior to installation (record the readings).

Step 2

During the installation of the underfloor system onto substrate floor (record the readings).

Step 3

After installation of the underfloor heating system the electrician must carry out a 500 Volt DC insulation resistance test (record the readings).

Step 4

A final set of test will need to be carried out after final floor coverings are laid prior to signing off and comissioning the underfloor heating system.

*The test is a reading in Ohms and can be within 10% plus or minus of the value shown on the table above (measured at a room temperature of 20 degrees). NB hot or cold conditions can cause the resistance to alter.

DUE TO THE REQUIREMENTS OF THE CURRENT IEE REGULATIONS PART P ONLY A QUALIFIED PERSON SHOULD TEST AND MAKE THE FINAL CONNECTIONS TO THE INSTALLATION.

DISTANCE OF LOOPS

Cable spacing to achieve correct wattage output: