Estimating & Planning Sheet

# ECOFILMSET

## underfloor heating element

### For wood and laminate floors

**Ecofilmset** provides the luxury of electric underfloor heating to living rooms, bedrooms, hallways, loft conversions and conservatories.

**Ecofilmset** can be installed on top of either suspended timber or even solid concrete floors enabling installation in all room types except bathrooms.

Ecofilmset is ideal for installation under the following floor coverings: Laminate, Engineered Board & Real Timber.

#### **Planning How To Lay EcofilmSet**

Make an accurate sketch of the floor plan of the room on the graph paper on the reverse of this sheet.

When drawing the sketch, consider the following points:

The position of the thermostat should take account of the ease of access to the power supply.

Remember to note down the dimensions of any items of furniture which cover-up the floor surface, such as wardrobes, cupboards, kitchen base units etc. as heating element should not be placed under these.

Allow for a perimeter border around the room of at least 50mm from each wall or item of furniture, to determine the heating area of the room.

When laying the *EcofilmSet* elements, remember to butt the element edges together, do not overlap the *EcofilmSet* elements. Place them centrally within the room so that any unheated gaps are at the edges of the room

It is recommended that when planning your room the elements run in line with the longest room dimension, this keeps elements and electrical connections to a minimum making installation easier and quicker.

It is recommended that you plan to use the widest *EcofilmSet* element wherever possible (1000mm) as this minimises electrical connections. Widths of 500mm and 300mm should be used to maximise floor coverage when it is not possible to use the larger size.

**EcofilmSet** is available in lengths between 2.0m and 8.0m in 0.5m increments. It can easily be trimmed to length with scissors. Therefore for intermediate sizes pick the next largest length and plan to cut to the specific size during installation.

When calculating the *Depron* insulation / underlay required, remember to allow for the whole flooring area plus 10% extra to allow for cutting wastage. It is recommended to purchase the same area of *Depron* as flooring so that floor levels are maintained throughout the room.

If the heating is being installed in a conservatory, *Divine Heat* recommend fitting a double layer of 6mm *Depron* (12mm in total) to minimise downward heat losses improving heating performance and response times.

A layer of *Polyester Vapour Barrier* must be used to cover the whole *EcofilmSet* heating system. This is to offer an additional layer of mechanical protection and Electrical insulation as well as protection against mass spillage of liquid on the finished floor. To calculate the amount of polyester vapour barrier required, each roll covers approximately 20m2 of floor area.

During installation, *EcofilmSet* element is taped to the floor to prevent movement. Please include for a roll of 50mm wide *Divine Adhesive Tape*.

Decide which thermostat is required, it is generally recommended to use the *TH132AF* digital thermostat with integral 7 day timer which senses both the floor and room temperatures. The *EB100* analogue dial thermostat should only be used where the customer requires a simple to operate, basic control unit for control of occasional rooms.

#### **Check List:**

What you should have included:

EcofilmSet Element to cover heated area of floor

Depron Floor Insulation to cover total floor

Polyester Vapour Barrier

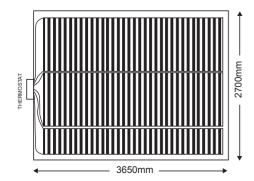
Adhesive Fixing Tape

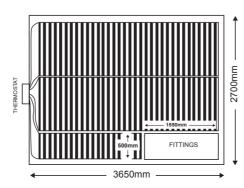
Thermostat

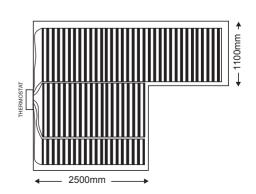
#### Note:

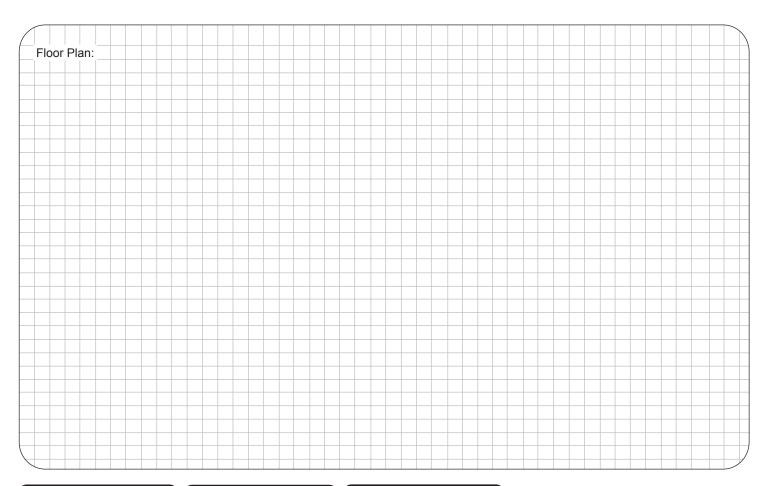
The installation of *EcofilmSet* underfloor heating element is extremely simple for any competent DIYer or professional tradesman. However final Electrical connection to the 230V mains supply must be carried out by a qualified electrician in accordance to current wiring regulations.

#### Floor Layout Examples:









Product Code	Width (mm)	Length (m)
ES13-320	300	2.0
ES13-325	300	2.5
ES13-330	300	3.0
ES13-335	300	3.5
ES13-340	300	4.0
ES13-345	300	4.5
ES13-350	300	5.0
ES13-355	300	5.5
ES13-360	300	6.0
ES13-365	300	6.5
ES13-370	300	7.0
ES13-375	300	7.5
ES13-380	300	8.0

Product Code	Width (mm)	Length (m)	Product Code	Width (mm)	Length (m)
ES13-520	500	2.0	ES13-1020	1000	2.0
ES13-525	500	2.5	ES13-1025	1000	2.5
ES13-530	500	3.0	ES13-1030	1000	3.0
ES13-535	500	3.5	ES13-1035	1000	3.5
ES13-540	500	4.0	ES13-1040	1000	4.0
ES13-545	500	4.5	ES13-1045	1000	4.5
ES13-550	500	5.0	ES13-1050	1000	5.0
ES13-555	500	5.5	ES13-1055	1000	5.5
ES13-560	500	6.0	ES13-1060	1000	6.0
ES13-565	500	6.5	ES13-1065	1000	6.5
ES13-570	500	7.0	ES13-1070	1000	7.0
ES13-575	500	7.5	ES13-1075	1000	7.5
ES13-580	500	8.0	ES13-1080	1000	8.0

Product Code	Control Options Description
EB100	12Amp Electronic Analogue Room Thermostat. User configurable for Air &/or Floor sensing.
TH132F	15Amp Fully Programmable Room Thermostat with 7 day control and optimum start and night set-back facilities; c/w Floor sensor only.
TH132AF	15Amp Fully Programmable Room Thermostat with 7 day control and optimum start and night set-back facilities; c/w Air and Floor sensor.

Product Code	Accessory	Dimensions
DEP6	Depron Insulation	1m <sup>2</sup> (1250mm x 800mm x 6mm)
ADT50	Adhesive Tape	50mm x 50m
PVB25	Polyester Vapour Barrier	1m x 25m

Quantity	Product Code	Cost (£)
	Thermostat	
	Depron Insulation	
	Adhesive Tape	
	Polyester Vapour Barrier	
Sub Total		
Delivery		
VAT		
Total		

Customer Name:		
Order Number:		
Contact Number:	Postcode:	

Notes:			

**EcofilmSet** is part of the **Divine Underfloor Heating Systems** product range by **Divine Heat**, 4/5 Duff Street Lane, Edinburgh, EH11 2HS

Also available: Ecoflex, Ecofloor & Ecofilm

T/F: 0131 3377525 Freephone: 0800 756 6862
W: www.divineheat.co.uk E: enquiries@divineunderfloorheating.co.uk