



# ECOFILM<sup>SET</sup>

## 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 20m<sup>2</sup> 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:



