Quick Installation Guide



1. After preparing a smooth surface, create a groove in the floor to accommodate the conduit for the floor probe.



2. Measure the area to be heated and fit the Ecomax-Lite Thermal insulation to the floor securely following the manufacturers instructions.



8. Roll out the lengths of EcofilmSet and rim to length along cutting line as equired. Insulate trimmed ends as per nstructions before taping the elements nto position, taking care to locate the 'cold tails" on the wall nearest the hermostat connection box

This sample installation is only a guide and should not be used to install EcofilmSet. Full instructions are supplied with the product and must be used to ensure Guarantee validity.



4. Cut away sections of the insulation to accommodate the white sealing caps and cables of the element strips as well as the area where the floor probe will be located.



5. Tape over the cap ends and cables so that they do not move out of position.



6. Check individual element length resistance using an Ohmmeter. Insert the thermostat floor probe into the protective conduit. A fully qualified electrician mus now make the final connections to the mains supply & install the thermostat

Cover the total EcofilmSet installation with a layer EcofilmSet Polyester Vapour Barrier before laying the osen final floor covering. Lay the floor covering as on as possible to prevent damage to the element.



Authorised Distributor:



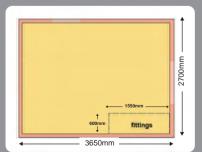
Tel: 01592 760928 Fax: 01592 760929 Web: www.flexel.co.uk Email: sales@flexel.co.uk



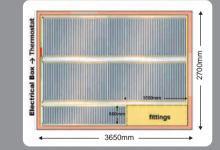


The complete underfloor heating solution for all laminate & timber floors.

stallation Example; A childs nursery with a laminate floor to be laid

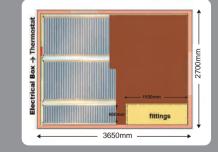


Room dimensions measured out, including fittings



From these sizes we can calculate that we require 2 pieces of 3.5m length and 1 piece at 2m.

Product Selection: 2 x ES13-1035, 1 x ES13-520



Remember the active (heating) portions of the element MUST not overlap each other and the minimum distance from a fixed object or wall MUST not be less than 50mm.

Bringing Out The Luxury Of A Wood Floor

EcofilmSet provides the luxury of electric underfloor heating to living rooms, bedrooms, hallways, loft conversions and conservatories or almost anywhere a laminate, engineered wood or real timber floor is being laid.

Easy To lay

EcofilmSet, is supplied in 3 different widths (300mm, 500mm and 1000mm) & standard lengths between 2m & 10m in 0.5m increments. Just select the roll widths and nearest lengths to provide maximum floor coverage. Installation is completely dry with the element simply unrolled and taped into position.

Quick Installation

EcofilmSet comes pre-wired. Only a simple 2 wire electrical mains connection is required (no need for a transformer) to provide gentle and safe heating comfort. EcofilmSet is rated at 130W/m².

Freedom Of Installation

EcofilmSet elements are ultra-thin and have a minimum effect on finished floor levels, an important consideration when laying floating floors. It can be laid on most subfloors, concrete or timber, when used in conjunction with Ecomax-Lite Thermal Insulation.

Economy

EcofilmSet produces the optimum heat distribution in any room by using the whole area of the floor to radiate heat. This means that the air temperature can be lowered by 2-3 degrees over a conventional convector system while still maintaining a comfortable environment. **EcofilmSet** can realise savings of up to 10% over conventional convector systems if the floor is well insulated.

Safety

EcofilmSet is approved to the relevant International safety approval EN60335-2-96.

Maintenance Free

EcofilmSet is reliable, safe and manufactured to last. Being electric with no moving parts it is completely maintenance free.

Warranty

EcofilmSet comes with a 10 year guarantee against manufacturing defects.

How Effective Is Under Laminate Heating?

EcofilmSet is a highly effective direct acting radiant heating system. It can be used to subsitute traditional convector radiators by providing primary heating or just be used to warm a cool floor & provide background heat.

A Primary Heat Source

Heat loss calculations should be performed before using **EcofilmSet** as the sole source of heating. Consult your Architect or heating engineer. As a guide however if your room complies with the insulation standards in current building regulations, **EcofilmSet** can be used as a primary heating source. Rooms with potentially high heat losses like conservatories may need a supplimentary heat source on very cold days.

Running Costs

The running costs associated with **EcofilmSet** can be related directly to the floor heat-up times. A well insulated sub-floor will significantly reduce heat losses, improve heat-up times & reduce running costs. Even on insulated floors (concrete or wood) a minimum of 6mm of **Ecomax-Lite** Thermal Insulation should be used in conjunction with EcofilmSet.

Example:

A 6m² floor in a lounge fitted with 6mm of **Ecomax**-**Lite** Thermal Insulation on top of an insulated concrete sub-floor would cost approximately 3.5p* per square metre per day to run. This is based on the heating system being on twice a day for a 2hr and 5hr period respectively. This assumes a 50% duty cycle once the floor has reached temperature and assumes a cost of 8.0p per Kwh.

*Cost estimate given is an approximation only. Running costs vary depending on heat losses in individual rooms.

Simple Control



and control. Air and floor temperature sensors regulate heat output to maximise comfort. The unit can offer full 24 hour control, 7 days a week with simple manual override functions.

- EcofilmSet Underfloor Heating Elements are very simple to install by following the comprehensive instruction booklet included with each element kit. The final electrical connections should be made by a qualified electrician in accordance with the current wiring regulations.
- All installations require an RCD (residual current device) for safe operation.
- All elements require connection to the thermostat via a standard iunction box.

Installation

Before laying the **EcofilmSet** on either a suspended wooden floor or concrete sub-floor it is necessary to install a layer of **Ecomax-Lite** Thermal Insulation. This will minimise heat losses and ensure quicker heat-up times for the floor. It will also act as a means of sound deadening which is required for laminate floors.

Next roll out the pre-cut lengths of **EcofilmSet** taking care to locate the "cold tails" on the wall nearest the thermostat connection box. Trim to length along cutting line as required and insulate trimmed ends as per instructions before taping the element into position. Never overlap the heating surfaces. Cover the total EcofilmSet installation with a layer of EcofilmSet Polyester Vapour Barrier before laying the chosen floor covering.

