

# Principle of ECOFILM Set Installation

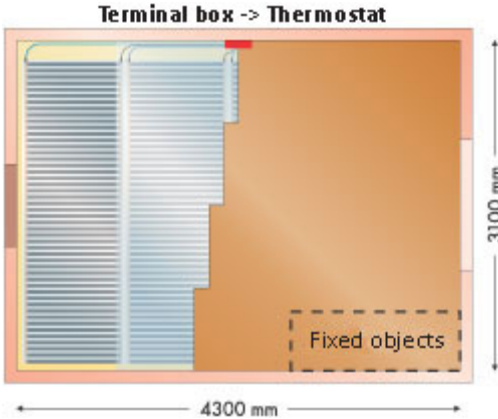
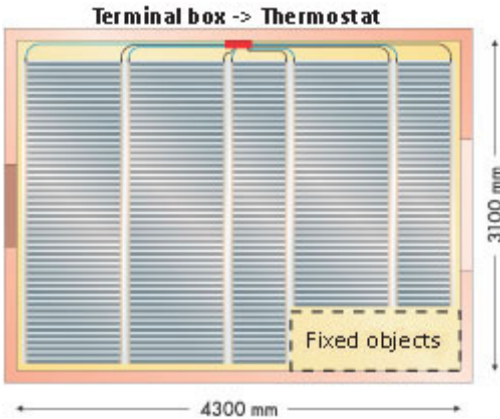
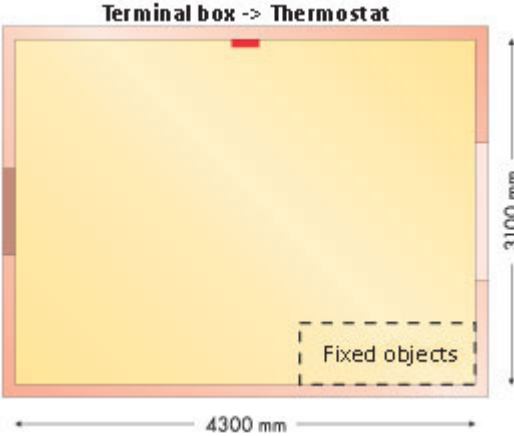
ECOFILM Set - It is a separately wrapped strip of ECOFILM F heating foil for floor heating, equipped with 5m long connection leads – therefore, there is no need to make connections on the construction. The sets are sold with various lengths of foils.



**Example:**  
 ECOFILM Set 80 – 4/176 contains a strip of heating foil with an area wattage of 80 W/m<sup>2</sup>. It's 4m long, and has a total wattage of 176 W.

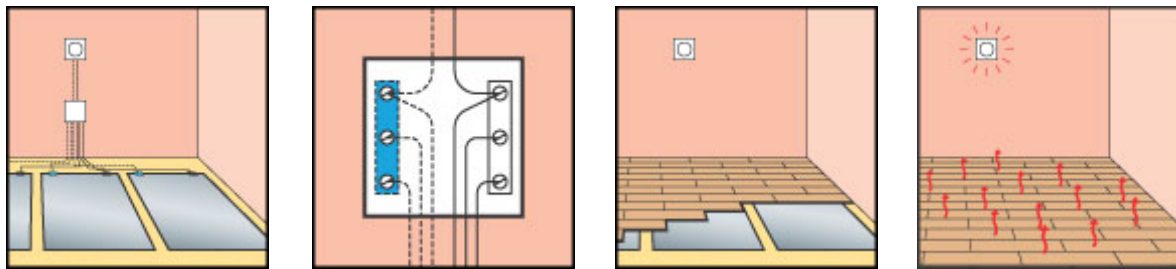
In the event that the user needs a different length than that which is standardly supplied, each set contains insulation discs. The foil can be cut every 20mm and the user can thus cut the strip of heating foil to basically any required length. The foil can be cut with standard scissors, and the cut edge is then insulated where the copper conductor buses are, using the enclosed insulation discs. The number of sets for one room depends on the size of the room, or the size of the surface into which heating is supposed to be installed.

**Example:**  
 A room with an area of 3.1 x 4.3m and with part of the floor covered can be resolved in the following way: 2 foil sets 1m wide and 3m long + 1 set 0.6m wide and 3m long + 1 set 1m wide and 2m long + 1 set 0.6m wide and 2m long - a total of five ECOFILM Sets



The connection leads from each strip go into the box where they are connected to the terminal board. Each set (strip of foil) has two conductors – one is black, the other one blue. Connect the blue conductors separately and the black ones separately in the

terminal box. This way we can be sure that two connectors from one set will not be connected to the same side of the terminal board. Only one two-conductor cable then continues from the terminal board into the thermostat. When preparing the installation it is necessary to consider that two conductors with a diameter of 3 mm lead out from each set – if five sets are laid in a room, a bunch of conductors with a diameter of 3 cm is formed. If these wires are to be placed into a protective tube (a so-called goose neck), it is necessary to use a protective tube with a sufficient diameter, or use a suitable amount of them.



Regulation can be provided by a suitable thermostat with a floor probe from the range offered by FENIX. The regulation unit maintains the floor temperature at a set level and protects it against possible overheating. It is possible to program the operation of heating with the use of a digital thermostat. The regulation unit is not included as part of the set deliberately – when buying several sets for one room, the user would obtain several thermostats, which wouldn't be needed.

ECOFILM Sets are intended mainly for users who don't want to rely on a professional installation company and prefer to do it themselves, and also for companies which focus on e.g. the laying of floating floors and want to offer heating foils as a supplement to their product line. They gain access to foils with professionally executed connections without the necessity of approaching another company.