

Floor heating system E-ENERGY CARBON PET

Installation instructions for floating floor coverings



Prepare level, clean, load-bearing substrate. Dry screeds and wood-based panels must always be laid in two layers and offset.



The floor sensor must be positioned at least 60 cm from the wall in the room.



Lay the floor sensor connection sets in the recess and tape the floor sensor sleeve with insulating tape to avoid residual currents.



Guide the soil sensor through the learning tube to the measuring point in the soil.



For ideal measuring values, allow the floor sensor sleeve to be flush with the top of the impact sound insulation sheeting (e.g. CF DIRECT 1.5).



Check resistance according to installation & operating instructions and document values in the test report.



The heating foil can be individually shortened. Right-angled cutting edges to the copper tracks are a prerequisite.



Resistances of cut foils must be measured again and documented on the label and in the test report - take nominal values from the installation instructions.



Recesses for the supply lines and Rework the contacts of the heating foils downwards if necessary.



Apply insulating tape at the head and foot end across the entire width under the heating foil to protect against fault currents at the cut



edge. Additionally, at the head and foot ends, mask the cut edges from above with insulating adhesive tape.



Recesses up to max. 70 x 70 mm must be taped off accordingly above and below the heating foil. Copper strips must not be damaged.



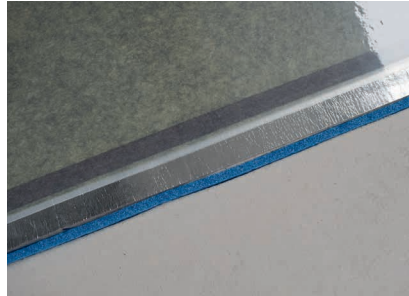
Representation of E-ENERGY CARBON PET on the impact sound insulation sheeting (usual for floating parquet/laminate flooring). With other floating floor coverings (e.g. design floorings), it may be necessary to place the heating foil underneath the impact sound insulation sheeting. The manufacturer's instructions must always be observed!

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Align E-ENERGY CARBON PET heating foils with each other and fix them laterally with insulating adhesive tape (at least 2 cm distance between the foils).



Do not lay the heating foil over expansion joints and let it end at a distance of at least 2 cm before the expansion joint.



Connect the connection cable and lead it to the transformer.



Measure the resistance again and document it in the test report.



Laminate and parquet flooring can be laid floating directly on the heating foil.

Note for heating foils with contacts on both sides



Heating foils contacted on both sides can be cut individually into two single foils.



The heating foil can be shortened as required. Right-angled cut edges to the copper tracks are a prerequisite.



Measure the resistances again and document them in the test report. Take the set values from the installation instructions.



For cut-to-size foils, enter the measured resistances on the enclosed labels and stick them on the heating foil.



If the complete film is to be processed without individual cutting, cut off a contact vertically along the film.



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Only a maximum of 400 W may be connected to the individual load outputs of the power supply units. The maximum lengths of the individual heating tracks are

E-ENERGY CARBON PET – 69 W/lfm (115 W/m ²)	max. 5,8 m
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Depending on the design, the power supply units can be surface-mounted or flush-mounted. For this purpose, a minimum distance of 50 mm to the foil must be maintained. The maximum cable length on the secondary side of the power supply unit must not exceed 50 mm:

10 m with 2.5 mm ² cable
25 m with 6 mm ² cable

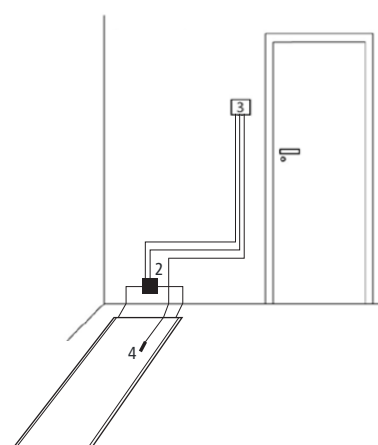
Resistance values as a function of length*

Länge Length	E-ENERGY CARBON PET 69 W/lfm (115 W/m ²)	Länge Length	E-ENERGY CARBON PET 69 W/lfm (115 W/m ²)	Länge Length	E-ENERGY CARBON PET 69 W/lfm (115 W/m ²)	Länge Length	E-ENERGY CARBON PET 69 W/lfm (115 W/m ²)
0,1 m	188,30 Ω	1,6 m	11,77 Ω	3,1 m	6,07 Ω	4,6 m	4,09 Ω
0,2 m	94,15 Ω	1,7 m	11,08 Ω	3,2 m	5,88 Ω	4,7 m	4,01 Ω
0,3 m	62,77 Ω	1,8 m	10,46 Ω	3,3 m	5,71 Ω	4,8 m	3,92 Ω
0,4 m	47,08 Ω	1,9 m	9,91 Ω	3,4 m	5,54 Ω	4,9 m	3,84 Ω
0,5 m	37,66 Ω	2,0 m	9,42 Ω	3,5 m	5,38 Ω	5,0 m	3,77 Ω
0,6 m	31,38 Ω	2,1 m	8,97 Ω	3,6 m	5,23 Ω	5,1 m	3,69 Ω
0,7 m	26,90 Ω	2,2 m	8,56 Ω	3,7 m	5,09 Ω	5,2 m	3,62 Ω
0,8 m	23,54 Ω	2,3 m	8,19 Ω	3,8 m	4,96 Ω	5,3 m	3,55 Ω
0,9 m	20,92 Ω	2,4 m	7,85 Ω	3,9 m	4,83 Ω	5,4 m	3,49 Ω
1,0 m	18,83 Ω	2,5 m	7,53 Ω	4,0 m	4,71 Ω	5,5 m	3,42 Ω
1,1 m	17,12 Ω	2,6 m	7,24 Ω	4,1 m	4,59 Ω	5,6 m	3,36 Ω
1,2 m	15,69 Ω	2,7 m	6,97 Ω	4,2 m	4,48 Ω	5,7 m	3,30 Ω
1,3 m	14,48 Ω	2,8 m	6,73 Ω	4,3 m	4,38 Ω	5,8 m	3,25 Ω
1,4 m	13,45 Ω	2,9 m	6,49 Ω	4,4 m	4,28 Ω	5,9 m	
1,5 m	12,55 Ω	3,0 m	6,28 Ω	4,5 m	4,18 Ω	6,0 m	

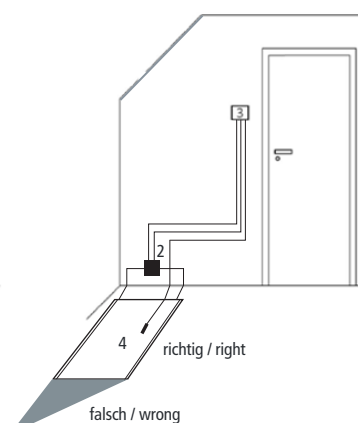
*If the measured resistance values deviate more than 15% from the output value, damage to the contacts or the heating foil must be expected. In this case you must not start up the heating system.

General notes

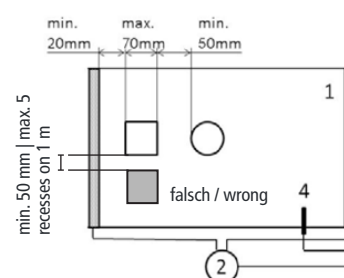
Allgemeiner Wandaufbau
General wall structure



Folienbeschnitt
Film cutting



Folienaussparungen
Film cutout



(1) Heizungsfolie
(3) Regler

(1) Heating film
(3) Controller

(2) Trafo
(4) Fühler

(2) Transformer
(4) Sensor

M 41000



mfh:systems
modern floor heating



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