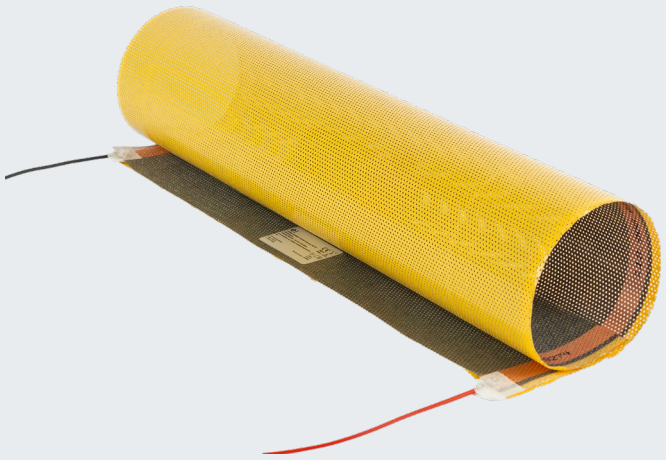
P 40006

e:nergycarbon
energy efficient ceiling heating

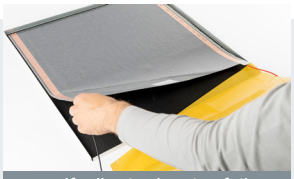
E-NERGY CARBON SMARTFLEX 24 V

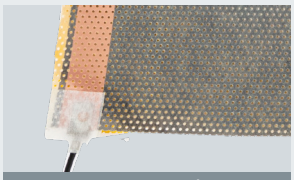
Product data

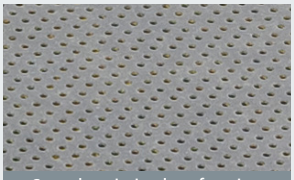


24 V

E-NERGY CARBON SMARTFLEX 24 V
Heating foil


Self adhesive heating foil


Factory contacting


Sound optimised perforation

The **E-NERGY CARBON SMARTFLEX** is a 0.4 mm thick, special film-coated heating foil that can withstand mechanical stress. The self adhesive underside is suitable for bonding to electrically non-conductive surfaces (e.g. fleece-laminated metal grid ceiling elements). Due to its perforation, sound can still be absorbed in perforated ceiling and wall elements.

Safe connection through **E-NERGY CARBON** power supply units with 24 V safety extra-low voltage (SELV).

Material	Base panel	PET film with carbon fibers and fillers
	Top layers	Top side: PET film Bottom side: PET film, self adhesive
Data	Mains voltage (transformer)	230 V AC
	Power supply (transformer)	1.31 A per 300 W load
	Power **E-NERGY CARBON SMARTFLEX** per linear metre (per m²)	173 W/lfm (294 W/m²)
	Secondary voltage (heating foil)	24 V safety extra-low voltage (SELV)
	Security measure	RCD protection circuit 30 mA
	Nominal limit temperature	+ 70 °C
	Minimum processing temperature	+ 5 °C
	Minimum bending radius	R10 mm
	Secondary line power supply unit (24 V)	Depending on the design, the power supply units can be surface-mounted or flush-mounted. For this purpose, a minimum distance of 50 mm from the foil must be maintained. The maximum cable length on the secondary side of the power supply unit is: 2.5 mm², max. 10 m length 6.0 mm², max. 25 m length
	Heating foil dimension, width	59 cm, 54 cm (net heating width)
	Maximum length **E-NERGY CARBON SMARTFLEX**	Only a maximum of 300 W may be connected to the individual load outputs of the power supply units. The maximum lengths of the individual heating tracks are: 173 W/lfm (294 W/m²): max. 1.7 m

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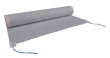
173 W/lfm (294 W/m²)



Item no.	Article
2 12 731	Heating foil 24 V – 173 W/lfm (294 W/m²), 0.55 m
2 12 732	Heating foil 24 V – 173 W/lfm (294 W/m²), 1.1 m
2 12 733	Heating foil 24 V – 173 W/lfm (294 W/m²), 1.65 m

Possible applications	E-NERGY CARBON SMARTFLEX 173 W/lfm (294 W/m²)
Ceiling*	✓
Wall*	✓
Floor	—

* Top layer electrically non-conductive

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