

# Green Cable Surface



## Outstanding flexibility

The Green Cable Surface offers the ultimate in comfort regardless of the size and shape of the room where it is installed since it can easily fit any shape. To perfectly cover any surface, the Green Cable Surface is sold in many lengths and a 120 volt or 240 volt voltage (also in 208 volts by special order). Available in 2W or 3W, the cable can be installed at different spacings, which will influence its output. If the system is used as a secondary heat source or with engineered wood, floating floor or soft floor coverings, an output of 86 W/m<sup>2</sup> (8 W/ft<sup>2</sup>) or 97 W/m<sup>2</sup> (9 W/ft<sup>2</sup>) will be sufficient, while an output of 129 W/m<sup>2</sup> (12 W/ft<sup>2</sup>) will be the ideal choice if the system is used as a heat source and is installed with ceramic or natural stone coverings.

## Green Cable Surface 2W

Perfect cable to ensure the most constant heat and ideal for all floor coverings, particularly soft and engineered wood coverings and floating floor due to its spacing at 5 cm or 7.6 cm (2 in or 3 in) releasing 86 W/m<sup>2</sup> (8 W/ft<sup>2</sup>) or 129 W/m<sup>2</sup> (12 W/ft<sup>2</sup>).

## Green Cable Surface 3W

For larger rooms with natural stone or ceramic floors due to its spacing at 7.6 cm or 10 cm (3 in or 4 in) releasing 97 W/m<sup>2</sup> (9 W/ft<sup>2</sup>) or 129 W/m<sup>2</sup> (12 W/ft<sup>2</sup>).

## Advantages of the Green Cable Surface

- Compatible with most floor coverings
- Fits all room shapes and sizes
- Does not dry the air nor spread dust and germs
- Requires no maintenance
- Easy installation: no return to the thermostat
- Robust mechanical joint system
- Installation with *Universal Snap-in Gauges™* or the *FLEXSnap+* installation system
- Small diameter cable that reduces the quantity of mortar or self-levelling underlayment required for glazing
- Strong and reliable copolymer jacket
- EMF-free (electromagnetic field)\*
- Up to 28% in energy savings\*\*
- Designed for installation in a wet environment (make sure that the installation complies with the local or regional electrical code)
- Manufactured entirely at the FLEXTHERM plant, with end-to-end quality control
- CSA approved (Canada and the US)
- Lifetime warranty when installed by a FLEXTHERM certified installer (otherwise, the 25 year limited warranty applies)

\* Based on the installation instructions included in the FLEXTHERM installation guide, the recorded EMF measurement is considered insignificant (between 0.25 mg and 0.5 mg).

\*\* In rooms heated with the FLEXTHERM floor heating

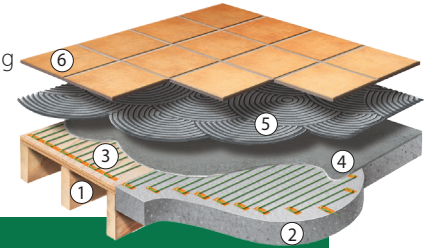




## Which floor covering to choose

The type of floor covering also has an influence on the choice of system output. Output of 129 W/m<sup>2</sup> (12 W/ft<sup>2</sup>) is reserved for ceramic and natural stone; 86 W/m<sup>2</sup> (8 W/ft<sup>2</sup>) lets you choose almost any floor covering.

- ① Wood structure
- ② Concrete structure
- ③ FLEXTHERM's Green Cable Surface
- ④ Mortar or self-levelling cement
- ⑤ Adhesive
- ⑥ Floor covering



## Compatibility of the Green Cable Surface with installation surfaces and floor coverings

### Green Cable Surface 2W

Installation surface	Floor covering							
	Ceramic	Natural stone	Engineered wood <sup>2</sup>	Vinyl <sup>2</sup>	Floating floor <sup>2</sup>	Linoleum <sup>2</sup>	Parquet <sup>2</sup>	Carpet <sup>2</sup> (without rubber backing or carpet padding)
Plywood								
Smooth concrete <sup>1</sup>								
Concrete panels								
Ceramic								
Acoustic membrane								
Anti-fracture membrane								
Scratch coat								
Mortar bed <sup>1</sup>								

5 cm (2 in) spacing – 129 W/m<sup>2</sup> (12 W/ft<sup>2</sup>)

7.6 cm (3 in) spacing – 86 W/m<sup>2</sup> (8 W/ft<sup>2</sup>)

1 The concrete slab (or mortar bed) must be insulated to avoid heat loss from below. FLEXTHERM also recommends that all rooms supported by the concrete slab be equipped with a FLEXTHERM floor heating system to avoid perimeter heat loss.

2 For floor coverings other than ceramic and natural stone, always check with the manufacturer whether its floor covering is compatible with floor heating systems.



## Green Cable Surface 3W

Installation surface	Floor covering							
	Ceramic	Natural stone	Engineered wood <sup>2</sup>	Vinyl <sup>2</sup>	Floating floor <sup>2</sup>	Linoleum <sup>2</sup>	Parquet <sup>2</sup>	Carpet <sup>2</sup> (without rubber backing or carpet padding)
Plywood								
Smooth concrete <sup>1</sup>								
Concrete panels								
Ceramic								
Acoustic membrane								
Anti-fracture membrane								
Scratch coat								
Mortar bed <sup>1</sup>								

7.6 cm (3 in) spacing – 129 W/m<sup>2</sup> (12 W/ft<sup>2</sup>)

10 cm (4 in) spacing – 97 W/m<sup>2</sup> (9 W/ft<sup>2</sup>)

- The concrete slab (or mortar bed) must be insulated to avoid heat loss from below. FLEXTHERM also recommends that all rooms supported by the concrete slab be equipped with a FLEXTHERM floor heating system to avoid perimeter heat loss.
- For floor coverings other than ceramic and natural stone, always check with the manufacturer whether its floor covering is compatible with floor heating systems.

## Electrical characteristics

	Green Cable Surface 2W	Green Cable Surface 3W
Standard voltage	120 and 240 volts (208 volts available upon request)	120 and 240 volts (208 volts available upon request)
Output	6.6 W/linear m (2 W/linear ft)	9.9 W/linear m (3 W/linear ft)
Output by type of installation	5 cm (2 in) spacing – 129 W/m <sup>2</sup> (12 W/ft <sup>2</sup> ) 7.6 cm (3 in) spacing – 86 W/m <sup>2</sup> (8 W/ft <sup>2</sup> )	7.6 cm (3 in) spacing – 129 W/m <sup>2</sup> (12 W/ft <sup>2</sup> ) 10 cm (4 in) spacing – 97 W/m <sup>2</sup> (9 W/ft <sup>2</sup> )
Connection to the thermostat	Easy installation: a single cold lead is connected to the thermostat (return feed on the same cable)	Easy installation: a single cold lead is connected to the thermostat (return – feed on the same cable)
Cold lead	3 m (10 ft) Two conductors and grounding	3 m (10 ft) Two conductors and grounding
Certification / Mark of Approval	cCSAus, for embedded floor warming applications, in Canada and USA. Dry and Wet environments. CSA file N° 99786	cCSAus, for embedded floor warming applications, in Canada and USA. Dry and Wet environments. CSA file N° 99786
No significant electromagnetic field emission*		

\* Based on the installation instructions included in the FLEXTHERM installation guide, the recorded EMF measurement is considered insignificant (between 0.25 mG and 0.5 mG).