

Green Cable Concrete



Advantages of the Green Cable Concrete

- Designed specifically to be buried in concrete
- 5W cable produces 10 or 15 W/ft²
- No surface preparation or maintenance cost
- Increased thermal mass effect and heat is spread more evenly due to the exceptional heat storing and releasing capacity of the concrete mass
- Compatible with most floor coverings
- Easy installation: no return feed required for connection
- Convenient installation: uniform anchoring system ensures speedy installation
- Bright colored product makes it easier to install on the construction site
- EMF-free (electromagnetic fields)*
- Energy savings of up to 28%**
- 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 system.

Concrete results

Installed in the concrete slab or under a concrete topping during construction, the Green Cable Concrete and Concrete Mat Xpress provide the ultimate in uniform comfort. It uses the exceptional heat storing and releasing capacity of the concrete slab to spread heat more evenly, for a longer period of time

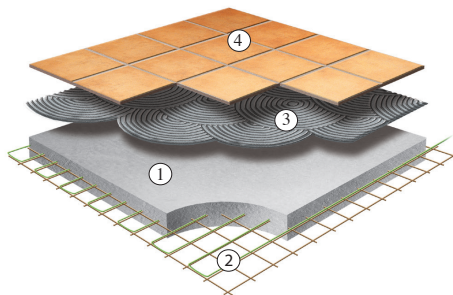




Which floor covering to choose

The type of floor covering has an influence on the choice of system output and the output is determined by the cable spacing. While an output of 161 W/m^2 (15 W/ft^2) is reserved for ceramic and natural stone, 108 W/m^2 (10 W/ft^2) and 129 W/m^2 (12 W/ft^2) lets you choose almost any floor covering.

- ① Concrete structure
- ② FLEXTHERM's Green Cable Concrete
- ③ Adhesive
- ④ Floor covering



Green Cable Concrete

Floor covering	Spacing power	
	Green Cable Concrete	
	161 W/m^2 (15 W/ft^2)	108 W/m^2 (10 W/ft^2)
Ceramic	✓	✓
Natural stone	✓	✓
Engineered wood ¹		✓
Vinyl ¹		✓
Floating floor ¹		✓
Linoleum ¹		✓
Parquet ¹		✓
Carpet ¹ (without rubber backing or carpet padding)		✓

¹ For floor coverings other than ceramic and natural stone never exceed a temperature of 28°C . Always check with the manufacturer of the floor covering first, to make sure its product is compatible with FLEXTHERM floor heating systems.

Installation surfaces

Concrete slab insulation ¹	✓
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¹ The concrete slab 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 in order to avoid perimeter heat loss.

Electrical characteristics

Standard voltage	240 volts (208 available on special order)
Output	129 W/m^2 (12 W/ft^2)
Output by type of installation	161 W/m^2 (15 W/ft^2) at a 10 cm (4 in) spacing 108 W/m^2 (10 W/ft^2) at a 15 cm (6 in) spacing
Connection to thermostat	Simple 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
Certification	CSA Canada: series type G and W space heating CSA US: series type C space heating Dry and wet environments
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).