

TECHNICAL DATASHEET - HEATING CABLE

HEATING CABLE FOR CONCRETE HARDENING

The heating cable is used for hardening and drainage of the concrete. The system makes the hardening process faster. The heating cable must be attached to the reinforcement and can be connected again later on to make the hardening more effective.

The heating cable is specially designed for concrete hardening and it is equipped with a connection. The heating cable only have one connection end which is provided with a cable with a connector. The cable is 2-conducted which ensures an easier and faster installation.

The heating cable speeds up the hardening process and enables demoulding after only three days, even in intense cold.



LENGTH	PRODUCT NO.	POWER		CONNECTION
85 m	5041320	3500 W	16 A/3600 W	CEE-connector
85 m	*	3500 W	16 A/3600 W	Plug connector
35 m	*	1400 W	10 A/2300 W	CEE-connector
35 m	5041315	1400 W	10 A/2300 W	Plug connector
20 m	5041310	735 W	10 A/2300 W	Plug connector
10 m	5041305	380 W	10 A/2300 W	Plug connector
3,3 m	*	130 W	10 A/2300 W	Plug connector

*Note: not stock items. Can be delivered by request.

CALCULATION OF DISTANCE C-C FOR INSTALLATION IN CONCRETE

LENGTH	85 m		35 m		20 m		10 m	
	Area [m ²]	c-c	Area [m ²]	c-c	Area [m ²]	c-c	Area [m ²]	c-c
Power [W/m ²]								
150	23	27	9	27	5	25	2,5	25
120	29	34	12	34	6	30	3,2	32
100	35	41	14	40	7	35	3,8	38
90	39	46	16	46	8	40	4,2	42

OUTSIDE TEMPERATURE	POWER [W/M ²]
0 °C to -5 °C	90
-5 °C to -10 °C	120
-10 °C to -15 °C	150

CALCULATION OF POWER IN WALLS

This is an estimation on the power for vaults and walls with cooling on both sides. The calculation is based on low wind speed. At high wind speed the power needs will increase. By concrete plates the power needs are lower, because the concrete plates only cool from one side.

POWER	75 W/M ²	100 W/M ²	150 W/M ²	200 W/M ²
Plywood 12 mm + 50 mm isolation	-7 °C		-15 °C	
Steel + 50 mm isolation		-7 °C		-15 °C
Steel poorly isolated + unisolated plywood			-7 °C	-10 °C
Steel unisolated				-8 °C

POWER [W/M ²]	DISTANCE C-C [CM]
75	50
100	38
150	25
200	20

MOUNTING INSTRUCTION

1. Keep the cable in a heated room as the cable thus will be easier to install
2. Tie the cable to the reinforcement with plastic coated binding wire or regular cable ties
3. Make sure that the cable doesn't cross other cables. The cables shouldn't be closer than 15 cm to each other
4. **WARNING!** The cable must not be in contact with isolation materials as mineral wool, foam or the like
5. The heating cable must be installed before casting. The cable joint must be installed before casting as well
6. Put the cable into operation right after casting

