

CONCRETE SNOW MELT

SERGE BARIL

The use of Serge Baril CSM Concrete Snow Melt Cable is a reliable, efficient and economical way of preventing snow and ice accumulation on concrete, stone and paved surfaces of driveways, sidewalks, walkways, loading docks, parking ramps, hospital entrances and steps, toll plazas, etc.

SIMPLE SOLUTION:

Snow melting systems eliminate the traditional plowing and shoveling methods of snow removal as well as the older, less efficient hydronic systems. The use of electric power for snow removal also eliminates the need for salts and other chemicals that can result in environmental pollution and pavement damage.

BY FAR - THE BEST SYSTEM

- Is specifically designed for direct burial in concrete.
- Regulates its own heat output in response to the ambient temperature.
This provides greater energy efficiency and more uniform temperature.
- Can be cut to length for the project.
- Very flexible, therefore easier to install.
- The CSM-2BA provides 25W/ft (80W/m) @ 32°F (0°C) in concrete.

HEAT TRACING CABLES



GREAT ADVANTAGE: CUT TO LENGTH AT SITE

Concrete Snow Melt



Installation

- Ensure proper depth, min. 2" (50mm) of snow melting cable
- Determine spacing of the snow melting cable (see below)
- Mark obstructions and locate expansion Joints
- Mark the path of the snow melting cable
- Ensure cable lengths do not exceed maximum circuit lengths
- Confirm electrical requirements

For the complete installation instructions, please refer to our manual # HT-240

HEAT LOAD SUGGESTIONS					
Risk	Typical applications	Spacing		Wattage	
		in	cm	W/ft ²	W/m ²
Minimum	Residential and commercial sidewalks and driveways	12	30	25	270
		10	25	30	325
Moderate	Commercial sidewalks and driveways, loading areas	8	20	40	430
Critical	Loading areas, toll plazas, hospital entrances	6	15	50	540

NOTE: ASHRAE publishes a range of suggested heat loads for different North American cities.
(see our manual HT-232-150510 or consult SBA)

FOR CONCRETE INSTALLATION:

- Lay out the snow melting cable
- Secure the snow melting cable
- Install expansion joint kits
- Install conduit and weatherproof junction boxes
- Install slab sensor (if applicable)
- Install power connection and end seal kits
- Pour the concrete

FOR PAVING STONE INSTALLATIONS:

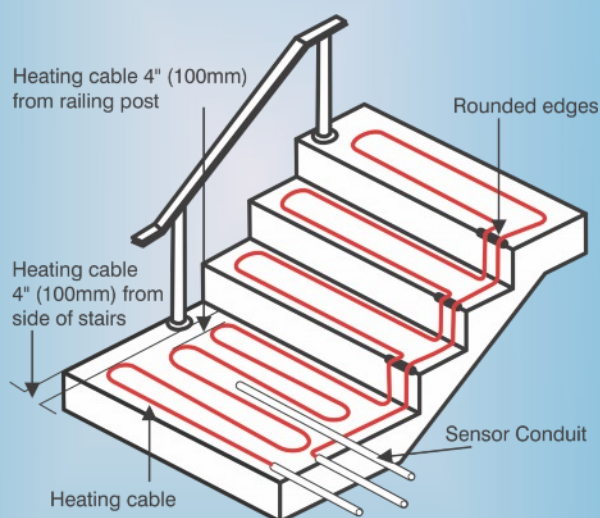
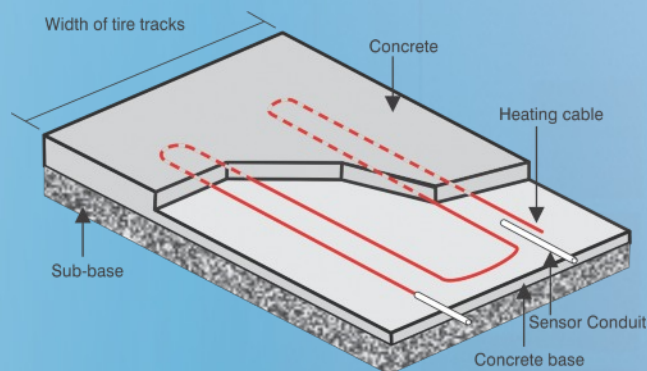
Apply a base layer prior to the steps above and make sure that the snow melting cable is covered.

Special Installation Considerations

Tire Tracks

Snow melting only the tire tracks of a driveway or path will reduce power consumption and electrical requirements while still proving efficient for the prevention of ice.

The typical width of each individual tire track is 18" (450mm) wide and will typically use two runs of snow melting cable per track.



Stairs

When using SERGE BARIL CSM-2BA Concrete Snow Melt Cable for stair applications, special precautions need to be observed in order to ensure that the cable does not get damaged:

- Note the location of any rail posts to be installed. The snow melting cable must be at least 4" (10mm) away from the front edge of stairs and all rail post mounts.
- Stairs with run dimension/depth up to 12" (300mm) require two runs of snow melting cable. Use closer snow melting cable spacing than usual as the heat loss is greater on stairs.
- If the snow melting cable must go over sharp formed edges, round off the sharp stair edges to prevent damage to the snow melting cable.

MAXIMUM HEATER LENGTH VS CIRCUIT BREAKER SIZE

Catalog Number			Maximum Heater Length (feet and meters)															
			240V															
			20A								208V							
			Start-up Temperature		ft		m		ft		m		ft		m		ft	
			°F	°C	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
CSM-2BA			50	10	125	38	177	54	233	71	285	87	108	33	154	47	203	62
			32	0	118	36	167	51	217	66	266	81	102	31	148	45	190	58
			14	-10	108	33	151	46	200	61	249	76	95	29	135	41	174	53

Caution: Both the National and Canadian Electrical Codes require the use of a ground fault protection device (GFPD) at all times in conjunction with the installation of all heat tracing cables.

Components

CSM-PSB/ESK	Power seal boot and end seal kit
SB-CSM-PSB	Power seal boot
SB-CSM-ESK	End seal kit
SB-CSM-EJK	Expansion joint kit
SML	Snow melting label
CP-CSM	Caution plaque CSM

Controls

This can be as simple as an ON/OFF switch or fully automated. Please consult SBA.

Higher wattages, higher voltages, longer lengths

For higher wattages, higher voltages or longer lengths, Serge Baril recommends the use of the Incoloy 825 stainless steel mineral insulated (MI) heating cables. - Refer to our manual # HT-232-150510 or consult SBA.

GENERAL NOTE:

The above are general suggestions for applications of our cables and are not meant to replace the normal requirements of local, construction, electrical, or other codes. The installer must verify the conformity to all applicable codes or standards.

We are pleased to offer suggestions on the use of our various products, nevertheless, there are no warranties given except such expressed warranties offered in connection with the sale of a particular product. There are no implied warranties of merchantability or of fitness for a particular purpose given in connection with the sale of any goods. In no event shall Serge Baril be liable for consequential, incidental or special damages. The buyer's sole and exclusive remedy and the limit of Serge Baril's liability for any loss whatsoever shall not exceed the original purchase price paid to SBA for the product or products for which a claim is made.

Ten year extended warranty available

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