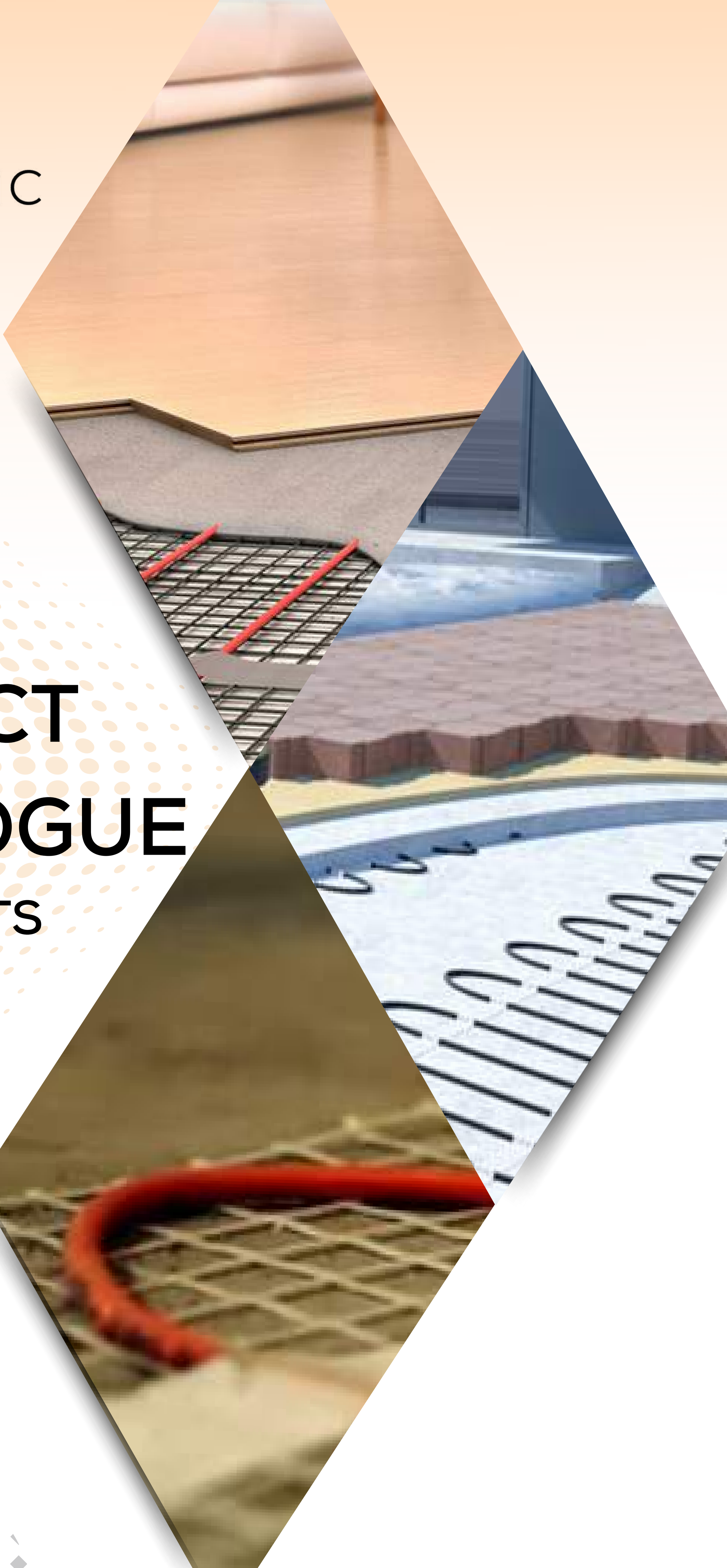




SC ELECTRIC
HEATING SOLUTIONS

PRODUCT CATALOGUE

HEATING MATS





SC ELECTRIC

SC Electric Pvt. Ltd. is a part of Special Cables group, India. Special Cables incorporated in 1983 has been manufacturing electrical cables of the highest quality, ensuring utmost safety and reliability. Our plant is one of the most sophisticated cable manufacturing plants and is spread over 20,000 sq. m. We serve a multitude of industries including Oil & Gas, Construction, Infrastructure, Steel, Cement, and many more. We can proudly say that industry leaders from various sectors are among our regular customers. In addition to catering to a robust demand in the domestic market, over the last few years our global footprint has grown tremendously exporting cables to Europe, South America, Middle East, South East Asia, Australia, Central Asia.

SC Electric builds on the experience and forays into expanding operations into heating solutions & high temperature cables serving the residential, commercial and industrial applications. We are committed to providing optimal heating solutions that are safe, reliable and energy efficient.

COMFORT, RELIABILITY & SAFETY



FLOOR HEATING MATS

Welcome to our comprehensive collection of floor heating mats, designed to provide energy-efficient warmth and comfort to any space.

Whether you're renovating a home or enhancing a commercial property, our heating solutions offer seamless integration with a variety of flooring types.



STRINGENT QUALITY CONTROL

The use of high-quality raw materials, along with the latest technology, ensures consistency and uniform quality in the production process. Stringent process controls are implemented at every stage and a well laid-out quality assurance system ensures thorough testing, from the raw material to the finished goods stage, thereby ensuring the highest possible quality of the final product.

INNOVATION

Our spirit of innovation always keeps us at the forefront of technology and empowers us to meet ever-changing customer requirements. Proactively improving product designs, upgrading systems and process innovations ensure a higher value for our customers.



UNDERFLOOR HEATING MAT (FM)



APPLICATION

- Electric Floor Heating for comfort heat



SURFACE TYPE

- Tiles or Laminate floor



INSTALLATION LOCATION

- Indoor dry & wet applications like bathrooms, kitchen, living areas



INSTALLATION TECHNIQUE

- Thin layer of self levelling or glue

Underfloor Heating Mat (FM) are specifically engineered to providing floor heating and achieving optimal comfort levels in indoor applications. Heating mats comprise of a heating cable uniformly spaced over a fiberglass mesh (sticky / non-sticky) ensuring even heat distribution across the area.

The series-resistance type heating elements are insulated with fluoropolymers having high dielectric strength and exceptional temperature resistance, ensuring complete safety during operation. Shielding is provided for proper grounding and ensuring minimal EMF emission. Outer jacketing is done with PVC or Fluoropolymer depending on customer requirements.

A robust hot to cold junction design ensures safety and reliability.



Energy Efficient



Easy Installation



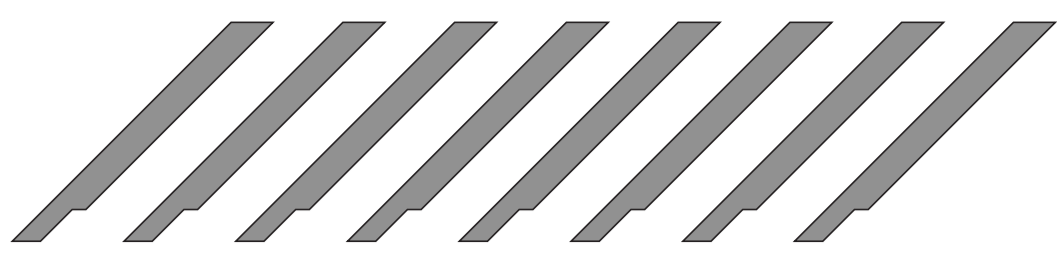
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Sustainability



Quality Guarantee



SPECIFICATION

- Heater Element* Single/ Twin
- Heating Power Output 100, 150 and 200 W/m²
- Fiberglass Mesh** Non Sticky
- Mesh width (Nom.) 500mm (0.5 m)
- Rated Voltage 230V AC, 50Hz
- Cold lead length (Nom.) 3.0m
- Compliance to EN 60335-1, EN 60335-2-96, EN 62233

MAT CONSTRUCTION

- Heating conductor
- Fluoropolymer insulation
- Alum-mylar tape with copper drain wire
- PVC / Fluoropolymer outer sheath
- Fiberglass Mesh
- Adhesive Tapes
- Cold lead

TECHNICAL DATA FOR FM-S/T**

Area (Sq m)	Product code	Wattage (W)	Product code	Wattage (W)	Product code	Wattage (W)
1.0	SC-FM-S/T-100-100	100	SC-FM-S/T-150-100	150	SC-FM-S/T-200-200	200
1.5	SC-FM-S/T-100-150	150	SC-FM-S/T-150-225	225	SC-FM-S/T-200-300	300
2.0	SC-FM-S/T-100-200	200	SC-FM-S/T-150-300	300	SC-FM-S/T-200-400	400
2.5	SC-FM-S/T-100-250	250	SC-FM-S/T-150-375	375	SC-FM-S/T-200-500	500
3.0	SC-FM-S/T-100-300	300	SC-FM-S/T-150-450	450	SC-FM-S/T-200-600	600
3.5	SC-FM-S/T-100-350	350	SC-FM-S/T-150-525	525	SC-FM-S/T-200-700	700
4.0	SC-FM-S/T-100-400	400	SC-FM-S/T-150-600	600	SC-FM-S/T-200-800	800
4.5	SC-FM-S/T-100-450	450	SC-FM-S/T-150-675	675	SC-FM-S/T-200-900	900
5.0	SC-FM-S/T-100-500	500	SC-FM-S/T-150-750	750	SC-FM-S/T-200-1000	1000
6.0	SC-FM-S/T-100-600	600	SC-FM-S/T-150-900	900	SC-FM-S/T-200-1200	1200
7.0	SC-FM-S/T-100-700	700	SC-FM-S/T-150-1050	1050	SC-FM-S/T-200-1400	1400
8.0	SC-FM-S/T-100-800	800	SC-FM-S/T-150-1200	1200	SC-FM-S/T-200-1600	1600
9.0	SC-FM-S/T-100-900	900	SC-FM-S/T-150-1350	1350	SC-FM-S/T-200-1800	1800
10.0	SC-FM-S/T-100-1000	1000	SC-FM-S/T-150-1500	1500	SC-FM-S/T-200-2000	2000
11.0	SC-FM-S/T-100-1100	1100	SC-FM-S/T-150-1650	1650	SC-FM-S/T-200-2200	2200
12.0	SC-FM-S/T-100-1200	1200	SC-FM-S/T-150-1800	1800	SC-FM-S/T-200-2400	2400
13.0	SC-FM-S/T-100-1300	1300	SC-FM-S/T-150-1950	1950	SC-FM-S/T-200-2600	2600
14.0	SC-FM-S/T-100-1400	1400	SC-FM-S/T-150-2100	2100	SC-FM-S/T-200-2800	2800
15.0	SC-FM-S/T-100-1500	1500	SC-FM-S/T-150-2250	2250	SC-FM-S/T-200-3000	3000

Note

- 1.*S/T represents Heating Element. S stands for single conductor and T stands for twin conductor.
- 2.**FM stands for Floor mats (non-sticky)
- 3.Floor mats can also be custom-built as per specific requirements.

UNDERFLOOR HEATING MAT (SFM)



APPLICATION

- Electric Floor Heating for comfort heat



SURFACE TYPE

- Tiles or Laminate floor



INSTALLATION LOCATION

- Indoor dry & wet applications like bathrooms, kitchen, living areas



INSTALLATION TECHNIQUE

- Thin layer of self levelling or glue

Sticky Floor Heating Mat (SFM) is designed for seamless floor heating and enhanced thermal comfort in indoor environments. These mats feature a heating cable pre-fixed onto a self-adhesive fiberglass mesh, enabling quick and secure installation with consistent heat coverage.

The series-resistance heating cable is insulated with high-grade fluoropolymers, offering superior dielectric strength and excellent thermal endurance, ensuring operational safety. The system is grounded with shielding to reduce EMF emissions effectively. Outer jacketing is available in PVC or Fluoropolymer as per client specifications.

The hot-to-cold connection is engineered for strength and durability, delivering long-term performance and safety.



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Easy Installation



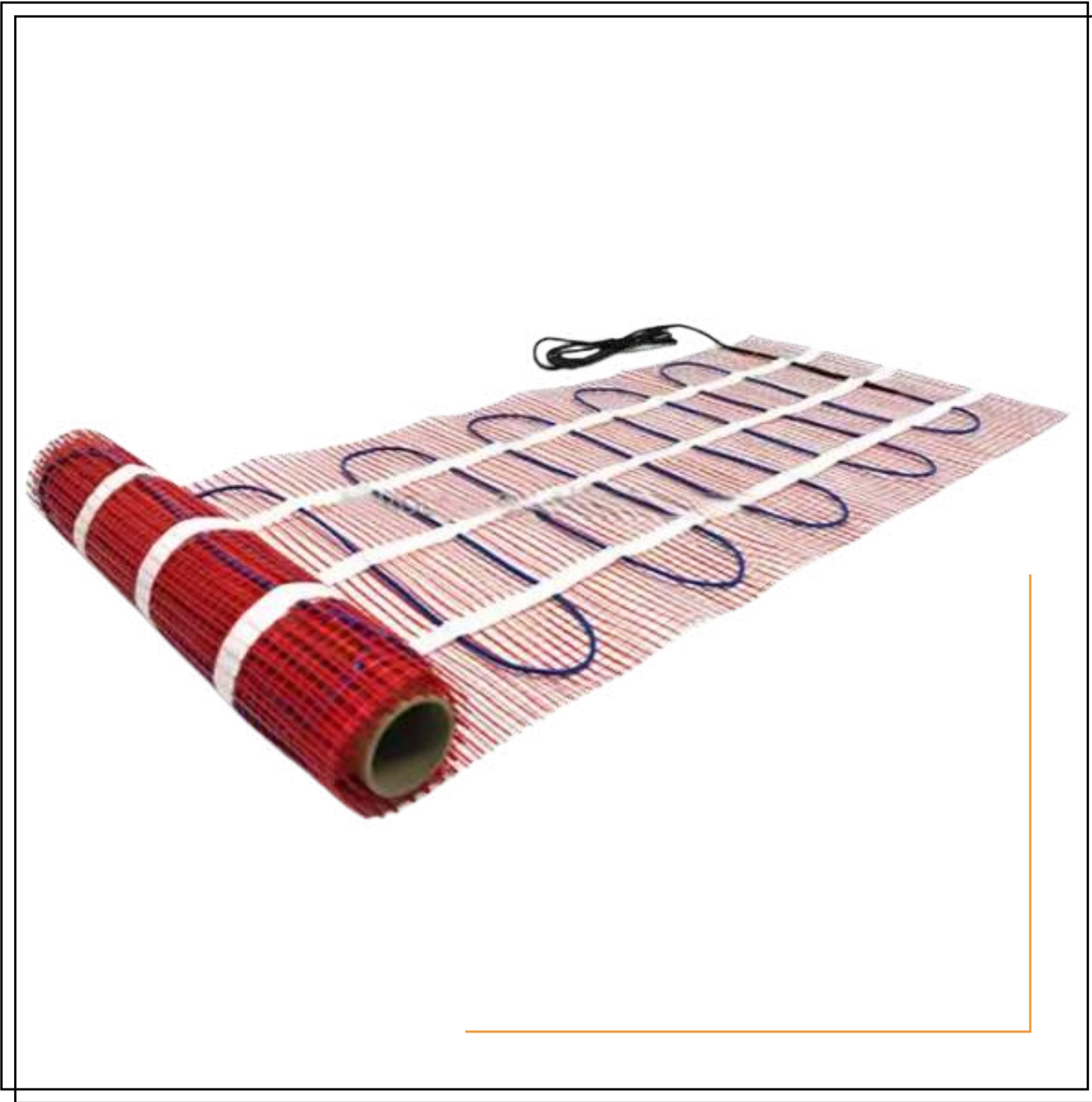
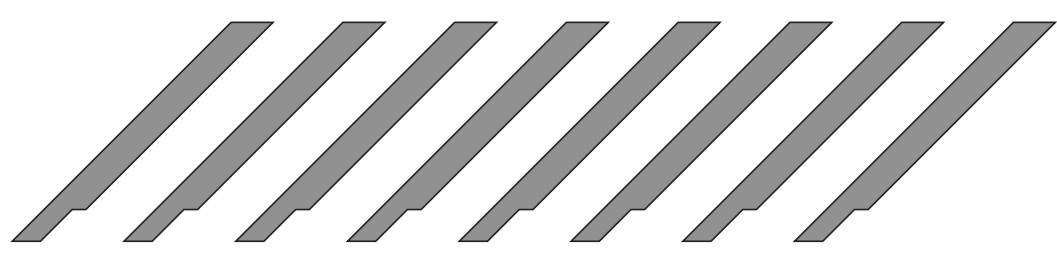
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Sustainability



Quality Guarantee



SPECIFICATION

○ Heater Element*	Single/ Twin
○ Heating Power Output	100, 150 and 200 W/m ²
○ Fiberglass Mesh**	Sticky
○ Mesh width (Nom.)	500mm (0.5 m)
○ Rated Voltage	230V AC, 50Hz
○ Cold lead length (Nom.)	3.0m
○ Compliance to	EN 60335-1, EN 60335-2-96, EN 62233

MAT CONSTRUCTION

- Heating conductor
- Fluoropolymer insulation
- Alum-mylar tape with copper drain wire
- PVC / Fluoropolymer outer sheath
- Fiberglass Mesh
- Adhesive Tapes
- Cold lead

TECHNICAL DATA FOR SFM-S/T**

Area (Sq m)	Product code	Wattage (W)	Product code	Wattage (W)	Product code	Wattage (W)
1.0	SC-SFM-S/T-100-100	100	SC-SFM-S/T-150-100	150	SC-SFM-S/T-200-200	200
1.5	SC-SFM-S/T-100-150	150	SC-SFM-S/T-150-225	225	SC-SFM-S/T-200-300	300
2.0	SC-SFM-S/T-100-200	200	SC-SFM-S/T-150-300	300	SC-SFM-S/T-200-400	400
2.5	SC-SFM-S/T-100-250	250	SC-SFM-S/T-150-375	375	SC-SFM-S/T-200-500	500
3.0	SC-SFM-S/T-100-300	300	SC-SFM-S/T-150-450	450	SC-SFM-S/T-200-600	600
3.5	SC-SFM-S/T-100-350	350	SC-SFM-S/T-150-525	525	SC-SFM-S/T-200-700	700
4.0	SC-SFM-S/T-100-400	400	SC-SFM-S/T-150-600	600	SC-SFM-S/T-200-800	800
4.5	SC-SFM-S/T-100-450	450	SC-SFM-S/T-150-675	675	SC-SFM-S/T-200-900	900
5.0	SC-SFM-S/T-100-500	500	SC-SFM-S/T-150-750	750	SC-SFM-S/T-200-1000	1000
6.0	SC-SFM-S/T-100-600	600	SC-SFM-S/T-150-900	900	SC-SFM-S/T-200-1200	1200
7.0	SC-SFM-S/T-100-700	700	SC-SFM-S/T-150-1050	1050	SC-SFM-S/T-200-1400	1400
8.0	SC-SFM-S/T-100-800	800	SC-SFM-S/T-150-1200	1200	SC-SFM-S/T-200-1600	1600
9.0	SC-SFM-S/T-100-900	900	SC-SFM-S/T-150-1350	1350	SC-SFM-S/T-200-1800	1800
10.0	SC-SFM-S/T-100-1000	1000	SC-SFM-S/T-150-1500	1500	SC-SFM-S/T-200-2000	2000
11.0	SC-SFM-S/T-100-1100	1100	SC-SFM-S/T-150-1650	1650	SC-SFM-S/T-200-2200	2200
12.0	SC-SFM-S/T-100-1200	1200	SC-SFM-S/T-150-1800	1800	SC-SFM-S/T-200-2400	2400
13.0	SC-SFM-S/T-100-1300	1300	SC-SFM-S/T-150-1950	1950	SC-SFM-S/T-200-2600	2600
14.0	SC-SFM-S/T-100-1400	1400	SC-SFM-S/T-150-2100	2100	SC-SFM-S/T-200-2800	2800
15.0	SC-SFM-S/T-100-1500	1500	SC-SFM-S/T-150-2250	2250	SC-SFM-S/T-200-3000	3000

Note

- 1.*S/T represents Heating Element. S stands for single conductor and T stands for twin conductor.
- 2.**SFM stands for Floor mats (sticky).
- 3.Floor mats can also be custom-built as per specific requirements.

LAMINATE FLOOR HEATING MAT (LFM)



APPLICATION

- Electric floor heating for comfort heat



SURFACE TYPE

- Wooden floors, laminate



INSTALLATION LOCATION

- Indoor dry applications like bedrooms, living areas etc.



INSTALLATION TECHNIQUE

- Directly under wooden, laminate floors

Laminate floor heating mat (LFM) are ultra-thin electric radiant floor heating system designed for indoor applications under wooden, laminate floors. LFM comprises of a heating cable sandwiched between two layers of reinforced aluminum foil. Uniformly spaced heating elements prevents occurrences of heat hot spots during its length. Proper shielding is provided through the aluminium foils ensuring proper grounding and minimizing EMF emission.

The twin series-resistance type heating element is insulated with fluoropolymers having high dielectric strength and exceptional temperature resistance, ensuring complete safety during operation. A flat, flexible two-core power cable is connected to the heating elements from one corner for convenient connections.

A robust hot to cold junction design ensures safety and reliability.



Energy Efficient



Easy Installation



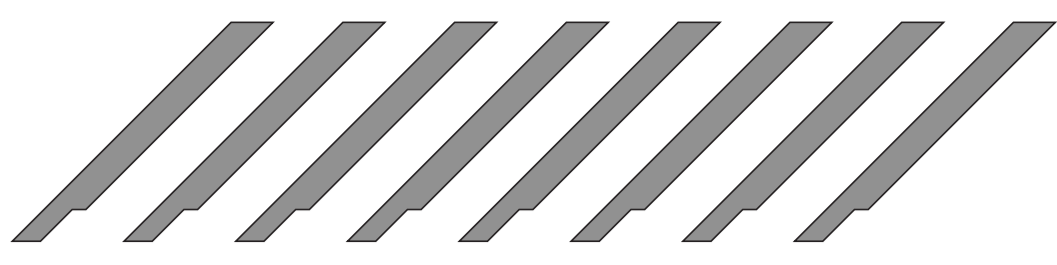
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Sustainability



Quality Guarantee



SPECIFICATION

- Heating Elements Twin
- Heating Power Output 80-200 W/m²
- Foil Reinforced aluminum foil
- Foil width (Nom.) 500mm (0.5 m)
- Rated voltage 230V AC, 50 Hz
- Cold lead length (Nom.) 3.0m
- Compliance EN 60335-1, EN 60335-2-96, EN 62233

MAT CONSTRUCTION

- Heating conductor
- Fluoropolymer insulation
- Braiding (Optional)
- Reinforced aluminum foil
- Cold Lead

TECHNICAL DATA FOR LAMINATE FLOOR MATS (LFM)

Area (Sq m)	Product code	Wattage (W)
1.0	SC-LFM-80-80	80
1.5	SC-LFM-80-120	120
2.0	SC-LFM-80-160	160
2.5	SC-LFM-80-200	200
3.0	SC-LFM-80-240	240
3.5	SC-LFM-80-280	280
4.0	SC-LFM-80-320	320
4.5	SC-LFM-80-360	360
5.0	SC-LFM-80-400	400
6.0	SC-LFM-80-480	480
7.0	SC-LFM-80-560	560
8.0	SC-LFM-80-640	640
9.0	SC-LFM-80-720	720
10.0	SC-LFM-80-800	800
11.0	SC-LFM-80-880	880
12.0	SC-LFM-80-960	960

Product code	Wattage (W)
SC-LFM-140-140	140
SC-LFM-140-210	210
SC-LFM-140-280	280
SC-LFM-140-350	350
SC-LFM-140-420	420
SC-LFM-140-490	490
SC-LFM-140-560	560
SC-LFM-140-630	630
SC-LFM-140-700	700
SC-LFM-140-840	840
SC-LFM-140-980	980
SC-LFM-140-1120	1120
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SC-LFM-140-1540	1540
SC-LFM-140-1680	1680

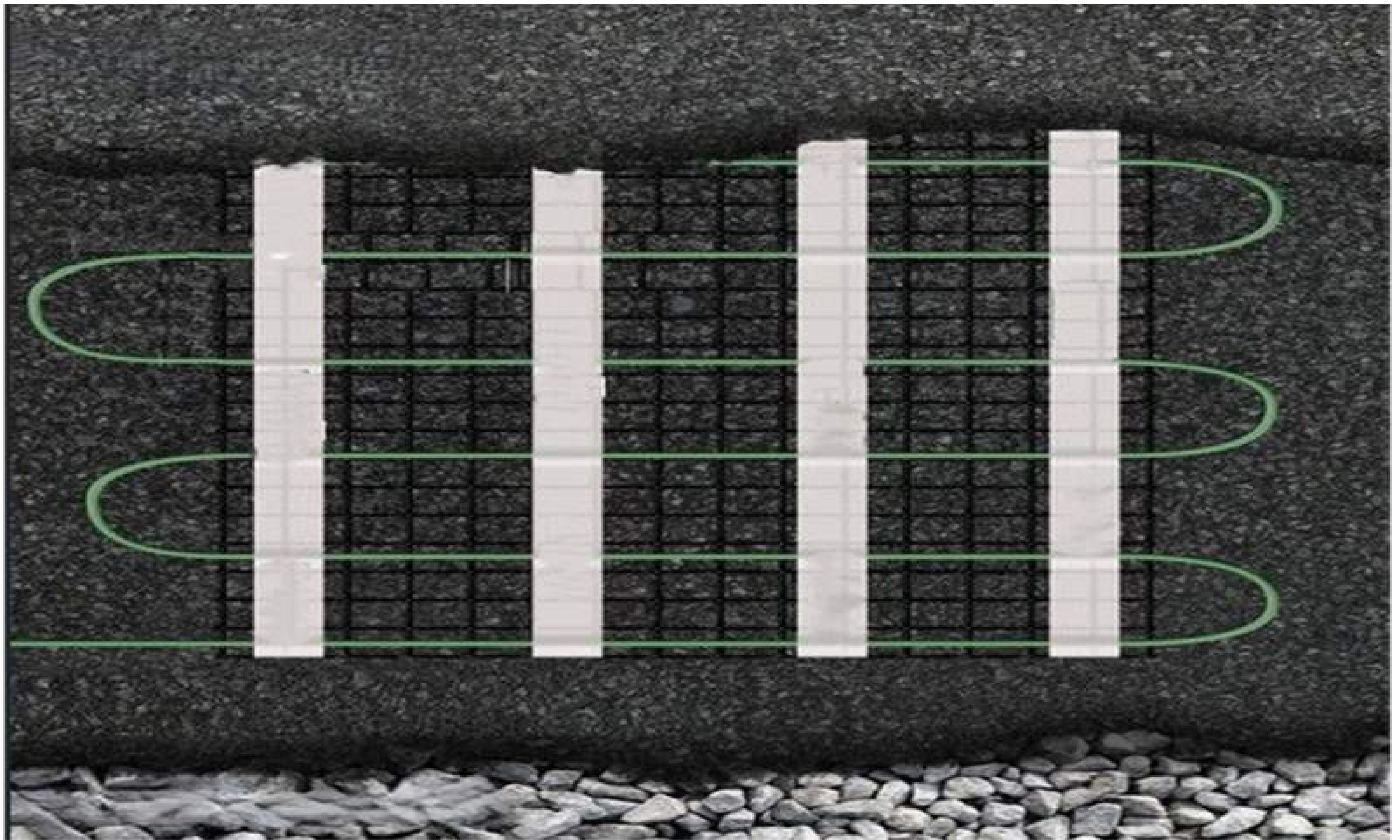
Product code	Wattage (W)
SC-LFM-200-200	200
SC-LFM-200-300	300
SC-LFM-200-400	400
SC-LFM-200-500	500
SC-LFM-200-600	600
SC-LFM-200-700	700
SC-LFM-200-800	800
SC-LFM-200-900	900
SC-LFM-200-1000	1000
SC-LFM-200-1200	1200
SC-LFM-200-1400	1400
SC-LFM-200-1600	1600
SC-LFM-200-1800	1800
SC-LFM-200-2000	2000
SC-LFM-200-2200	2200
SC-LFM-200-2400	2400

Note

1. Laminate floor mats can also be custom-built as per specific requirements.



SNOW MELTING MAT ASPHALT AREAS (SMA)



APPLICATION

- Outdoor applications for melting snow & de-icing



SURFACE TYPE

- Asphalt surfaces with concrete or soil



INSTALLATION LOCATION

- Roads, driveways, parkings, pavements etc.



INSTALLATION TECHNIQUE

- Under concrete, Asphalts

Snow melting mats for asphalt areas (SMA) are designed for outdoor applications and embedding in concrete to ensure efficient snow melting and de-icing in asphalt areas such as roads, driveways, parkings, pavements etc.

The heating mats comprise of a heating cable securely attached to a flexible plastic mesh using adhesive tape or can be used without a plastic mesh with tightly wound adhesive tapes. The cable is arranged in a meandering pattern to ensure uniform spacing and even heat distribution across the length.

The single/twin series-resistance type heating elements are insulated with high temperature cross-linked polymer or fluoropolymers having high dielectric strength and exceptional temperature resistance, ensuring complete safety during operation. Shielding is provided for proper grounding and ensuring minimal EMF emission. To further enhance strength and adaptability for outdoor applications, the cable is enclosed in an outer jacket extruded with special Polyolefin which can withstand the high temperature. The jacket provides high resistance to fire, low-smoke emission in any unfortunate fire incidence and high resistance to temperature.

A hot to cold junction is properly combined to ensure reliability and longevity.



Energy Efficient



Easy Installation



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Quality Guarantee



SNOW MELTING MAT NON-ASPHALT AREAS (SMNA)



APPLICATION

- Outdoor applications for melting snow & de-icing



SURFACE TYPE

- Non-asphalt areas with Concrete or soil



INSTALLATION LOCATION

- Roofs, gutters, drains, driveways, parkings, pavements etc.



INSTALLATION TECHNIQUE

- Under concrete

Snow melting mats for non-asphalt areas (SMNA) are specifically engineered for outdoor applications and embedding in concrete to ensure efficient snow melting and de-icing in areas such as driveways, parkings, pavements, walkways, sports fields etc.

The heating mats comprise of a heating cable securely attached to a flexible plastic mesh using adhesive tape or can be used without a plastic mesh with tightly wound adhesive tapes. The cable is arranged in a meandering pattern to ensure uniform spacing and even heat distribution across the length

The single/twin series-resistance type heating elements are insulated with high temperature cross-linked polymer or fluoropolymers having high dielectric strength and exceptional temperature resistance, ensuring complete safety during operation. Shielding is provided for proper grounding and ensuring minimal EMF emission. To further enhance strength and adaptability for outdoor applications, the cable is enclosed in an outer jacket made of Polyolefin (Low Smoke Zero Halogen). The jacket provides high resistance to fire & low-smoke emission in any unfortunate fire incidence.

A hot to cold junction is properly combined to ensure reliability and longevity.



Energy Efficient



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ALUMINIUM FOIL HEATER (AFH)



APPLICATION

- Radiant Panel Heaters, Mirror De-foggers



SURFACE TYPE

- Metal and other Insulators



INSTALLATION LOCATION

- Ceilings, Walls, Mirrors in Bathrooms, Living rooms, Bedrooms



INSTALLATION TECHNIQUE

- Sticking with glue

Aluminum foil heaters are flexible, lightweight, and cost-effective and can be provided in customized sizes to meet customer needs. Additionally temperature limiters can be provided for ensuring safe operations. AFH are used for a variety of applications including defogging, dehumidifying and comfort heating and can be used in various indoor applications including radiant panel heaters used in ceilings, walls of bedrooms, living rooms as well as mirror de-foggers in bathrooms.

AFH features a twin/single conductor heating element insulated with silicon rubber / fluoropolymers operating at high temperatures. The uniform spacing of heating elements ensures even warmth across the surface. The heating elements are sandwiched between layers of aluminum foil.

A hot to cold junction is properly combined to ensure reliability and longevity.



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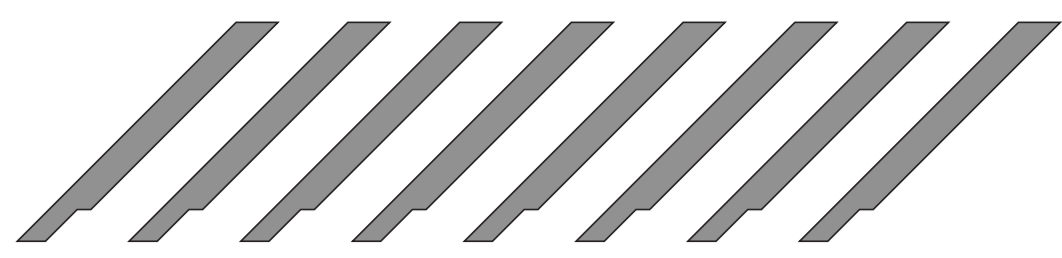
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SPECIFICATION

- Heating Element* Single/ Twin
- Heating Power Output Max. 1500 W/Sqm
- Rated voltage 230 V A.C, 50 Hz
- Cold lead length (Nom.) 0.5m

CABLE CONSTRUCTION

- Heating conductor
- Fluoropolymer / Silicon rubber
- Reinforced Aluminum foil
- Cold lead

TECHNICAL DATA FOR ALUMINIUM FOIL HEATERS (AFH)

S.No	Product code	Width (M)	Length (M)	Wattage (W)
1	SC-AFH-S/T-200	0.55	0.5	200
2	SC-AFH-S/T-300	0.55	0.8	300
3	SC-AFH-S/T-400	0.55	1.0	400
4	SC-AFH-S/T-600	0.55	1.2	600
5	SC-AFH-S/T-800	0.55	1.5	800
6	SC-AFH-S/T-200	0.35	0.5	200
7	SC-AFH-S/T-300	0.35	0.8	300
8	SC-AFH-S/T-400	0.35	1.0	400
9	SC-AFH-S/T-600	0.35	1.2	600

Note

1. *S/T represents Heating Element. S stands for single conductor and T stands for twin conductor
2. AFH can are tailored to meet the specific needs of each customer



SC ELECTRIC

ACCESSORIES



METAL CABLE
FIXING STRIP



PLASTIC CABLE
FIXING STRIP



THERMOSTAT
WITH SENSOR



WIFI
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