



Datasheet of Rubber Mat (Universal Version)

Rubber Mat Models:

Model	Dimensions	Voltage	Power	Weight
RS Mat-1	940*255 mm	120 V	120 W	2.4 ± 0.2 KG
RS Mat-2		230 V	110 W	
RS Mat-3		230 V	120 W	
RS Mat-4	1,000*600 mm	120 V	300 W	7.2 ± 0.2 KG
RS Mat-5		230 V	300 W	

[Note]: The voltage and power ratings for the last two rubber mat models above can be customized.



Figure 1. 940*255 mm Rubber Mat



Figure 2. 1,000*600 mm Rubber Mat

Product Advantages:

- ◆ Efficient snow melting and anti-slip
- ◆ Energy-saving and environmentally friendly
- ◆ Reduced damage to buildings and surfaces
- ◆ High durability and safety
- ◆ Convenient installation

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Material Characteristic Parameters of Rubber Mats:

Technical Index	Value	Testing Standards (China / ISO)
Material	SBR (Styrene Butadiene Rubber)	SBR (Styrene Butadiene Rubber)
Density, g/cm ³	1.2 ± 0.02	GB/T 533-2008 / ISO 2781-2007
Shore Hardness (Shore A)	60 ± 3	GB/T 531.1-2008 / ISO 7619.1
Tensile Strength, Mpa	≥15	GB/T 528-2009 / ISO 37
Elongation at Break, %	≥350	GB/T 528-2009 / ISO 37
Tensile Strength Change Rate in Hot Air Aging (70°C/168h)	±15%	GB/T 3512-2014 / ISO 188
Elongation Change Rate in Hot Air Aging (70°C/168h)	±25%	GB/T 3512-2014 / ISO 188
Low-Temperature Brittleness Temperature, °C	≤-40	GB/T 1682-2014 / ISO 812
Compression Set (70°C/24h), %	≤25	GB/T 7759.1-2015/ ISO 815-1
Oxygen Index	≥30	GB/T 10707-2008/ISO 4589-2

Material Characteristic Parameters of Rubber Mats:

Voltage Rating, V	110-120 OR 220-240
Power Density, W/ ft ²	40~50 (Other power densities can be customized)
Product Dimensions, mm	Length 2300 * Width 1200 (Max)
Rubber Mat Hot Lead Spacing, mm	20~30
Maximum Snow Melting Efficiency, mm/h	38~63 mm/h
Cold Lead Model	H07RN 3G1.5 mm ² , 15AWG or else
Certification Standards	ETL & CE
Surface Operating Temperature (Ambient Temperature), °C	≤70 (Actual temperature varies with operating ambient temperature)

[Note]: The specific dimensions of the rubber mat can be customized. For specific requirements, please consult ProTrace technical personnel.



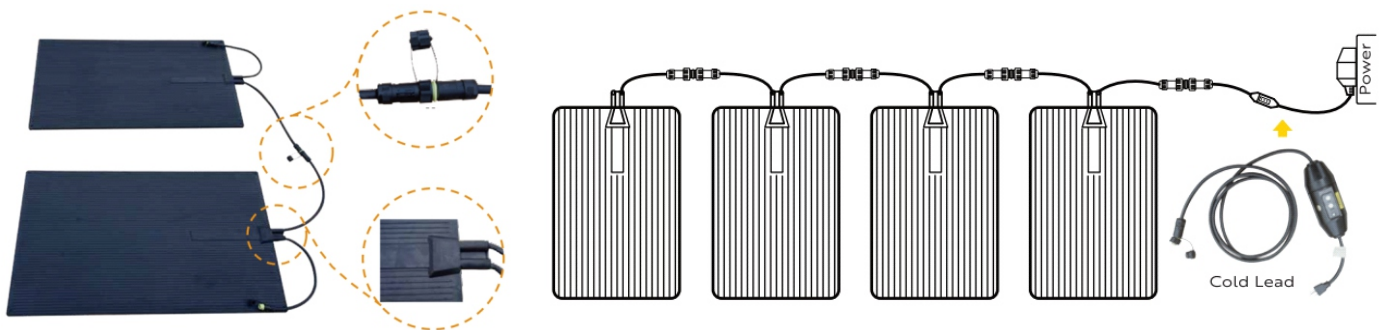
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Series and Parallel Connection Design of Rubber Mats:

- ♦ The rubber mats can be used independently or connected in series and parallel to form a continuous snow-melting mat system.
- ♦ The snow-melting rubber mat system requires a power unit for connection. For a specific number of connections, refer to the cold lead current carrying capacity. Please consult ProTrace technical personnel for details.



Application Scenarios of Rubber Mats:

Entrances and steps of residential and commercial buildings



Driveways, parking lots and ramps



Sidewalks and outdoor pathways



Ships, workshops, and other locations



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