

TECHNICAL DATA SHEET

WHBE OUTDOOR

Warmset's WHBE Technology is a heating system based on the company's patented multilayer laminated ribbon, composed of two conductive materials laminated together and enclosed in a polypropylene sheath. This configuration ensures durability and consistent **performance in demanding environments**.

To enhance mechanical strength and weather resistance, the WHBE outdoor mat includes an **additional protective layer of EVA resin**, applied through hot extrusion. The electrical **connection is also resin-coated** with a bi-component compound, ensuring long-term protection against atmospheric agents.

The product is **supplied in mats** and is ideal for outdoor applications, particularly suitable for ramps, paths, roofs, and gutters.

The product is available in a wide range of standard lengths, and comes with a 3-meter supply cable (extendable upon request). It is **fully customizable** in terms of size, power, and voltage (24V, 48V, 120V, 230V, 240V, 380V).



10 YEARS
WARRANTY



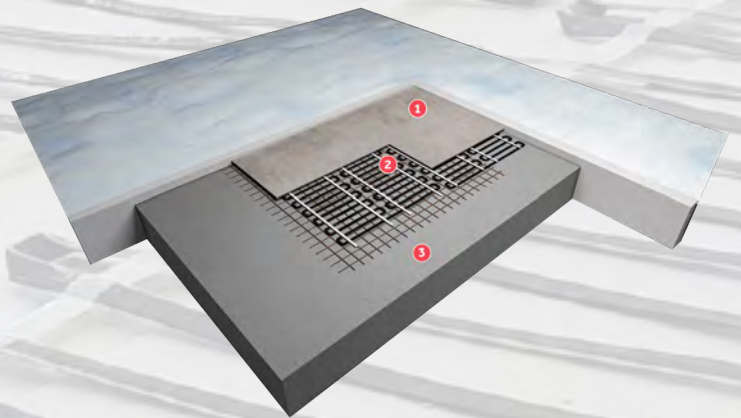
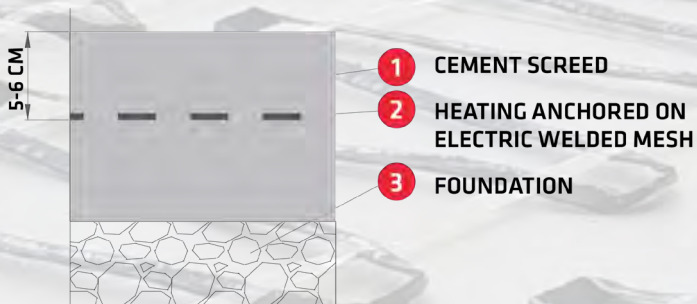
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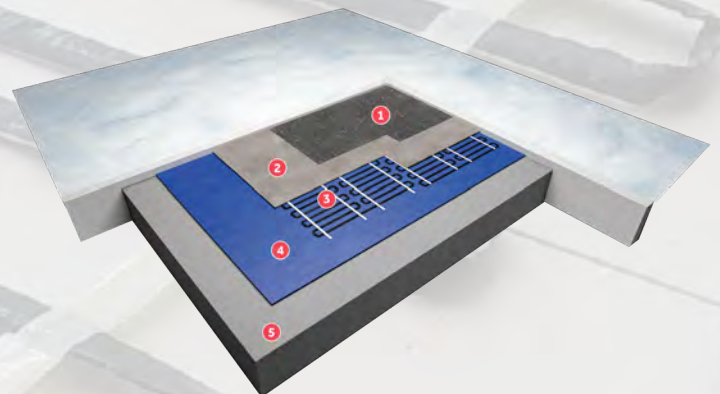
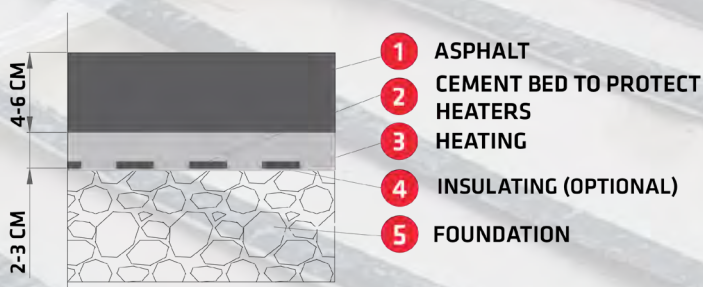
TYPE OF INSTALLATION

OUTDOOR

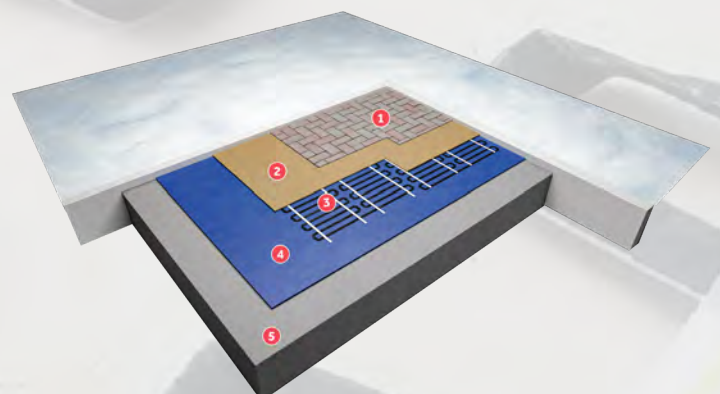
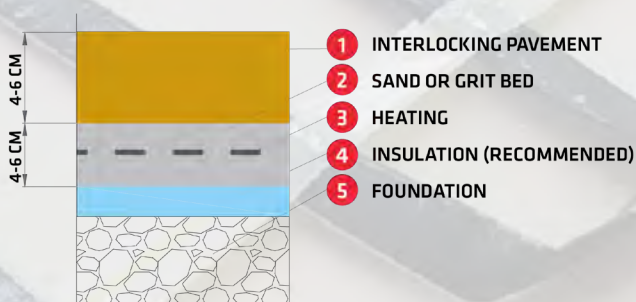
UNDERNEATH CEMENT



UNDERNEATH ASPHALT



UNDERNEATH INTERLOCKING ELEMENTS



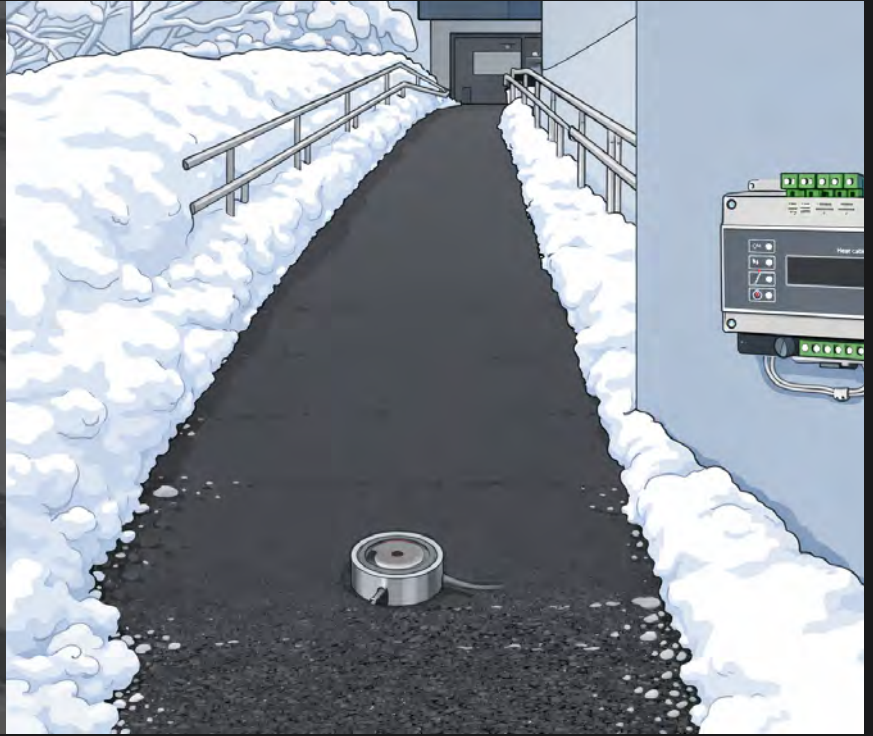
STANDARD SIZES AND POWERS

CUSTOMIZABLE SIZE & POWERS

AREA	SIZE	250 W/M ²	300 W/M ²	350 W/M ²	400 W/M ²	450 W/M ²
		POWER(W) CODE	POWER(W) CODE	POWER(W) CODE	POWER(W) CODE	POWER(W) CODE
0.5	0.5x1	125 W WHBE - 0.5 - 250	150 W WHBE - 0.5 - 300	175 W WHBE - 0.5 - 350	200 W WHBE - 0.5 - 400	225 W WHBE - 0.5 - 450
1.0	0.5x2	250 W WHBE - 1 - 250	300 W WHBE - 1 - 300	350 W WHBE - 1 - 350	400 W WHBE - 1 - 400	450 W WHBE - 1 - 450
1.5	0.5x3	375 W WHBE - 1.5 - 250	450 W WHBE - 1.5 - 300	525 W WHBE - 1.5 - 350	600 W WHBE - 1.5 - 400	675 W WHBE - 1.5 - 450
2.0	0.5x4	500 W WHBE - 2 - 250	600 W WHBE - 2 - 300	700 W WHBE - 2 - 350	800 W WHBE - 2 - 400	900 W WHBE - 2 - 450
2.5	0.5x5	625 W WHBE - 2.5 - 250	750 W WHBE - 2.5 - 300	875 W WHBE - 2.5 - 350	1000 W WHBE - 2.5 - 400	1125 W WHBE - 2.5 - 450
3.0	0.5x6	700 W WHBE - 3 - 250	900 W WHBE - 3 - 300	1050 W WHBE - 3 - 350	1200 W WHBE - 3 - 400	1350 W WHBE - 3 - 450
3.5	0.5x7	875 W WHBE - 3.5 - 250	1050 W WHBE - 3.5 - 300	1225 W WHBE - 3.5 - 350	1400 W WHBE - 3.5 - 400	1575 W WHBE - 3.5 - 450
4.0	0.5x8	1000 W WHBE - 4 - 250	1200 W WHBE - 4 - 300	1400 W WHBE - 4 - 350	1600 W WHBE - 4 - 400	1800 W WHBE - 4 - 450
4.5	0.5x9	1125 W WHBE - 4.5 - 250	1350 W WHBE - 4.5 - 300	1575 W WHBE - 4.5 - 350	1800 W WHBE - 4.5 - 400	2025 W WHBE - 4.5 - 450
5.0	0.5x10	1250 W WHBE - 5 - 250	1500 W WHBE - 5 - 300	1750 W WHBE - 5 - 350	2000 W WHBE - 5 - 400	2250 W WHBE - 5 - 450
6.0	0.5x12	1500 W WHBE - 6 - 250	1800 W WHBE - 6 - 300	2100 W WHBE - 6 - 350	2400 W WHBE - 6 - 400	2700 W WHBE - 6 - 450
7.0	0.5x14	1750 W WHBE - 7 - 250	2100 W WHBE - 7 - 300	2450 W WHBE - 7 - 350	2800 W WHBE - 7 - 400	3150 W WHBE - 7 - 450
8.0	0.5x16	2000 W WHBE - 8 - 250	2400 W WHBE - 8 - 300	2800 W WHBE - 8 - 350	3200 W WHBE - 8 - 400	3600 W WHBE - 8 - 450
9.0	0.5x18	2250 W WHBE - 9 - 250	2700 W WHBE - 9 - 300	3150 W WHBE - 9 - 350	3600 W WHBE - 9 - 400	4050 W WHBE - 9 - 450
10.0	0.5x20	2500 W WHBE - 10 - 250	3000 W WHBE - 10 - 300	3500 W WHBE - 10 - 350	4000 W WHBE - 10 - 400	4500 W WHBE - 10 - 450
12.0	0.5x24	3000 W WHBE - 12 - 250	3600 W WHBE - 12 - 300	4200 W WHBE - 12 - 350	4800 W WHBE - 12 - 400	5400 W WHBE - 12 - 450
14.0	0.5x28	3500 W WHBE - 14 - 250	4200 W WHBE - 14 - 300	4900 W WHBE - 14 - 350	5600 W WHBE - 14 - 400	6300 W WHBE - 14 - 450

CONTROL SYSTEM

The ramp thermoregulation system consists of a **control unit** and a **combined temperature and humidity sensor** installed in the most critical area of the surface. The sensor continuously **detects surface temperature and the presence of moisture, snow, or ice**. When predefined conditions are met, the control unit automatically **activates the heating ribbon** to prevent ice and snow formation. Thanks to the intelligent power management function, the system **can operate with up to 50% less installed load**, optimizing energy consumption without compromising performance. Once the surface is dry and the temperature rises above the set thresholds, the system automatically switches off.



PROJECT REFERENCES

