











POWERBOARD-S (Steel Version With Paper Coating)

The POWERBOARD-S is a heated and insulated panel incorporating LaminaHeat's novel full surface carbon fiber heating films. The POWERBOARD-S was designed to be analogous to standard size plaster/gypsum board making it ideal for residential and commercial suspended ceiling applications. The POWERBOARD heating system provides a comfortable and low-cost sustainable radiant heating solution with top of class safety guarantees!



Electrical Properties	Dielectric breakdown voltage Dielectric constant @ 1GHz Loss Tangent @1GHz	>1.5 kv 7.0 0.006	
Physical Properties	Material Thickness	- E Fibreglass - PET Film - Proprietary fire coating - Carbon veil material	
Thermal Properties	Maximum operating temperature Thermal expansion Thermal conductivity	70°C / 158°F 11 x 10 ⁻⁶ cm/cm/°C 0.04 W/m °C	
Mechanical Properties	 Heater conductor thickness Max. Tensile strength Elongation Tensile modulus Cross section Cu bus 	100 -150 μm 250 MPa 4.8% 6 Gpa 20mm x 0,050mm	

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POWERBOARD-S (Steel Version With Paper Coating) Product Specification

LaminaHeat Product ID		PB-S-180W	PB-S-250W
Wattage /m²	W/m²	351 +/- 10%	488+/- 10%
Wattage / Board	w	180 +/- 10%	250 +/- 10%
Total Length	mm	1200	1200
Total Width	mm	600	600
Heating Width	mm	470	470
Amps per board	Α	0,75 +/- 10%	1,04 +/- 10%
AC Voltage	V	240	240
Resistance per Board	Ω	320	230
Weight (Board)	kg	6,6	6,6
Thickness	mm	12,5	12,5
Max. No. of panels per 16A supply (one zone)	Pieces	17	12

The POWERBOARD-S has been developed by our engineers to easily incorporate into our 'plug and play' cable system reducing on-site installation time and allowing for greater market penetration.



