

ThermalStream®

Luxury carpet underlay for underfloor heating systems incorporating flame retardant foam


Technical specifications

Recommended end use:
Suitable for luxury domestic applications, perfect for underfloor heating.


ThermalStream®	
Construction	PU Foam*
Density	80kg*
Thickness	10mm*
Tog Rating	0.8 Functional TOG*
Heat Transfer	46°C (achieved on a 200kw electric UFH system)
Noise Reduction	36 dB*
Comfort Rating	Luxury*
Area Coverage	15m ² (1.37m x 11m)*
Roll Dimensions	140 x 35 x 35 cm
Double Stick Applications?	No

Product Specifications	
Top Surface	Printed ThermalStream® logo with instructions
Bottom Surface	Exposed foam with thermal air pocket holes
Recyclable	Yes
Guarantee	Lifetime of initial carpet installation (when used in recommended areas)
Recommendation	Luxury domestic areas such as living rooms/bedrooms with underfloor heating
Installation Method	Lay ThermalStream logo face side upwards, all corners must have spray adhesive applied. All underlay joins must be taped with Wilsons Bonding Tape. Always use a fresh, sharp blade/heavy duty shears when cutting.
Heat Source	We recommend using electric underfloor heating systems to enjoy the benefit of a warm carpet. Wet systems tend to be much milder in comparison which are limited further by your boiler temperature and your thermostat settings throughout the day.

Technical Specifications			
Testing	Result	Method	
Resistance to Cracking	<50mm	BS EN 14499:2015	
Static Loading	<40%	BS EN 14499:2015	
Dynamic Loading	<15%	BS EN 14499:2015	
Retention of Compression	>40%	BS EN 14499:2015	
Work of Compression	50-200J/m ²	BS EN 14499:2015	





0.8 Functional TOG
See the heat transfer graph



36 dB
BS EN ISO 10140-3:2010
& BS EN ISO 354:2003

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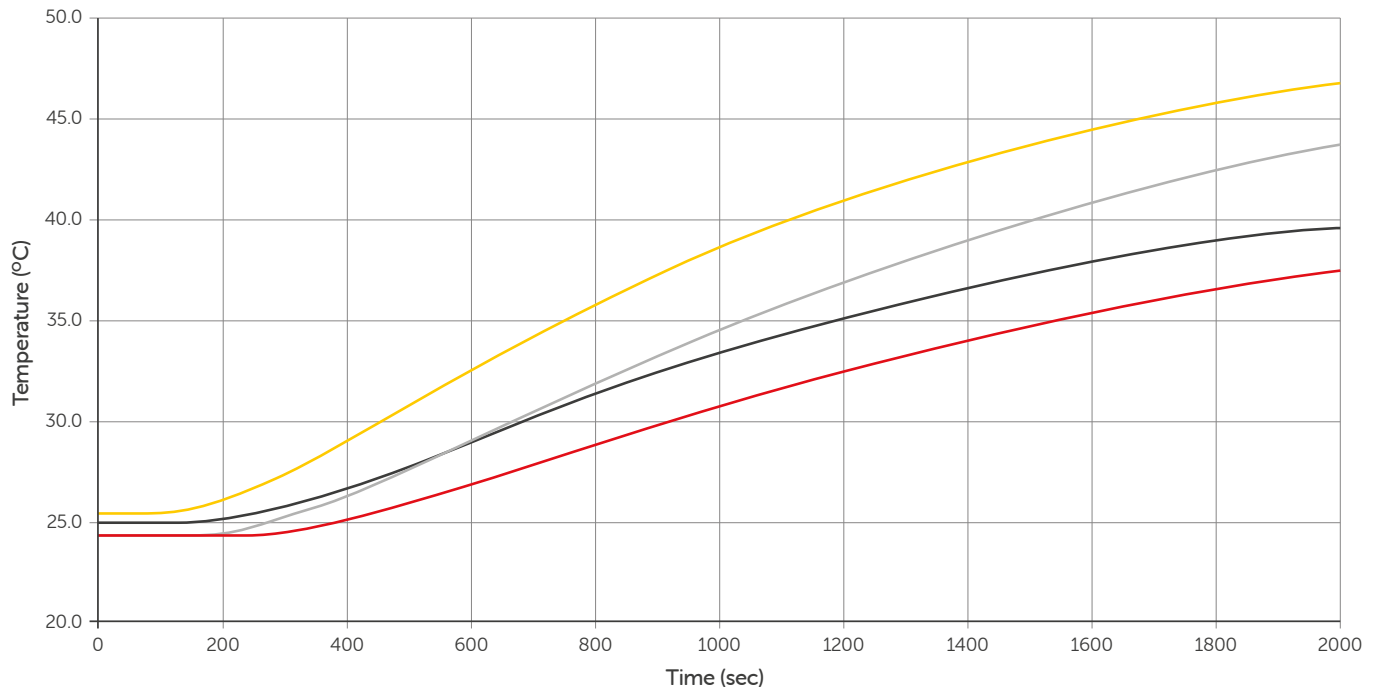
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ThermalStream®

Heat transfer results – ThermalStream vs branded rubber UFH underlay

Heat Transfer Results on a 200kw electric heat source

Rate of heat transfer



Summary of results

After 400 sec:

ThermalStream® UFH underlay 28.9 °C
0.8 TOG Branded UFH underlay 26.2 °C

After 800 sec:

ThermalStream® UFH underlay 35.8 °C
0.8 TOG Branded UFH underlay 31.8 °C

After 1200 sec:

ThermalStream® UFH underlay 40.9 °C
0.8 TOG Branded UFH underlay 36.9 °C

After 1600 sec:

ThermalStream® UFH underlay 44.3 °C
0.8 TOG Branded UFH underlay 40.8 °C

After 2000 sec:

ThermalStream® UFH underlay 46.8 °C
0.8 TOG Branded UFH underlay 43.7 °C

Conclusion

ThermalStream® underlay has a better thermal efficiency when used in conjunction with underfloor heating.

MANUFACTURER:

Wilsons Underlays Ltd. Dewsbury, WF13 3RD.

DISCLAIMER:

The data on this sheet is meant for information purposes only. The typical properties listed are the result of extensive research & laboratory tests, the materials used may vary and we cannot guarantee these results are obtained in practice. Users should conduct their own tests to determine the suitability of each material to its intended application.

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