

**Warmup**



## **Warmup Insulated Underlay & Dual Overlay**

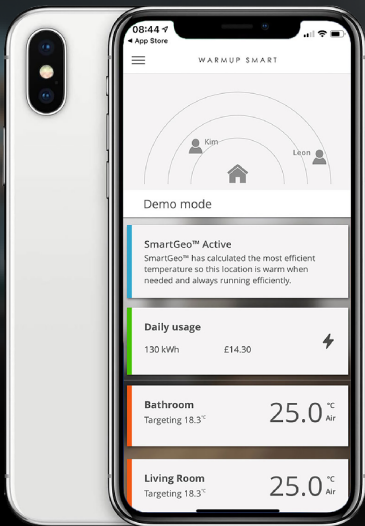
**Installation manual**

# Warmup<sup>®</sup>

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61E-0B-WiFi-Thermostat



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## Introduction

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Warmup Insulated Underlay is a thin polystyrene insulation barrier with a foil backing, designed for use under the Warmup Foil Heating system to reflect the heat upwards.

Warmup Dual Overlay is a free-floating system designed for use over the Warmup Foil Heating system. It provides a smooth and seamless subfloor, suitable for soft and resilient floor coverings such as carpet and vinyl flooring.

### **IMPORTANT!**

Warmup plc, accepts no liability, expressed or implied, for any loss or consequential damage suffered as a result of installations which in any way contravene the instructions that follow. This manual does not replace the Foil heating manual. Their instructions must also be read and followed for correct installation.

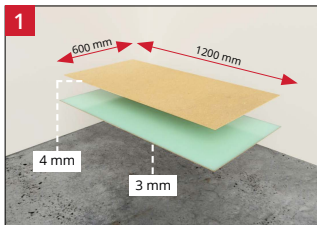
It is important that before, during and after installation that all requirements are met and understood. If the instructions are followed, you should have no problems. If you require help at any stage, please contact our helpline.

You may also find other helpful information on our website

**[www.warmup.co.uk](http://www.warmup.co.uk)**

## Installation Guide

See the layout plan below for floor configuration before commencing install.



- The Dual Overlay system comprises of twin layers of MDF panels, a 4 mm topboard and a 3 mm baseboard.

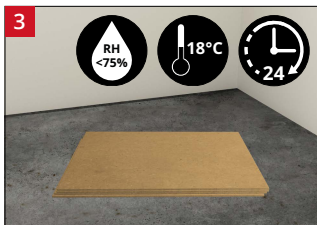
The boards are coated with a contact adhesive to bond each layer together.



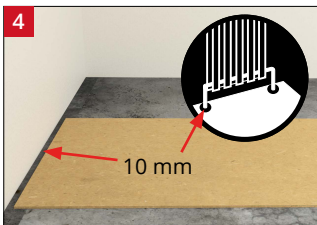
- To install the boards, the subfloor must be clean, dry and level to within 3 mm (Surface Regularity classification SR1).



Warmup Dual Overlay is not suitable for use in wet areas e.g. bathrooms.



- The Dual Overlay boards must be removed from their packaging and left in the room to acclimatise.



- Ensure a 10 mm gap is maintained around any fixings and the perimeter of the room to allow for expansion and contraction of the floor.



- Lay the insulated underlay onto the prepared subfloor, with the foil side facing down. Use double-sided tape to secure the underlay to the subfloor.

After fitting the first rows of underlay, roll out the next section removing the protective film from the self-adhesive overlap and stick both rows together, creating a vapour barrier.

Lay the foil heater over the insulated underlay and install as per the manual provided.



DO NOT use mechanical fixings such as staples to secure the insulated underlay to subfloor.



Install the insulated underlay in the same direction as the floor.

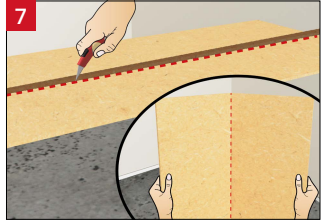


## Installation Guide

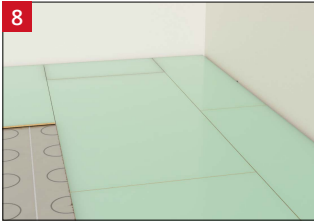


- The Dual Overlay is a floating sub-floor therefore it is not fixed to the floor below.

Each layer is staggered and arranged so that the top boards overlap the joints in the baseboards.



- To cut the boards use a utility knife with a straight edge and score the board 2-3 times. Snap the board along the score line to minimise dust. Use the layout plan and cutting guide below for dimensions and staggered overlap.



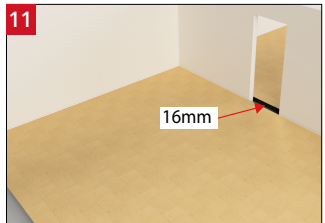
- Place the baseboards of the Dual Overlay directly over the foil heater. DO NOT remove the film from the adhesive layer until you are ready to apply the topboards.



- DO NOT walk on the boards once the film from the adhesive layer has been removed. Keep dust and debris in the room to a minimum.



- Apply the 4mm top boards to the 3mm baseboards, ensuring the joints are staggered, tightly butted together and the adhesive surfaces are pressed together. Secure the bond using a rubber mallet and if required, sand the joints of the boards to prevent them showing through to the final floor covering.



- A 16 mm expansion gap must be left in doorways where Dual Overlay continues into adjoining rooms.



- Before installing the floor finish its suitability for use with underfloor heating and its maximum operating temperature should be checked against required operating conditions.

Install the chosen floor covering over the Dual Overlay referring to manufacturer's instructions.

The maximum thermal resistance of the floor finish should not exceed  $0.10 \text{ [m}^2\text{K/W]}$ .

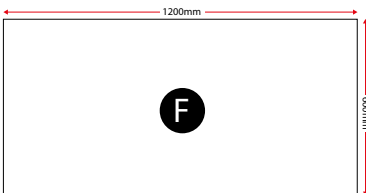
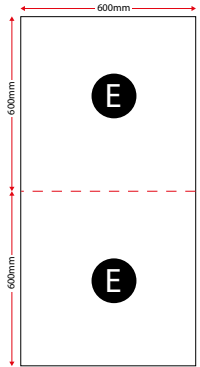
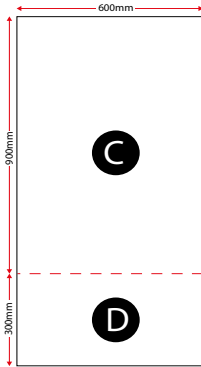
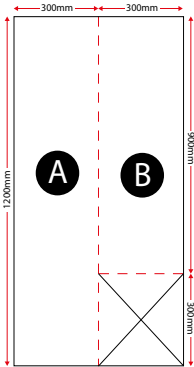
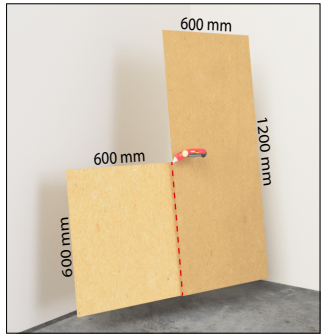
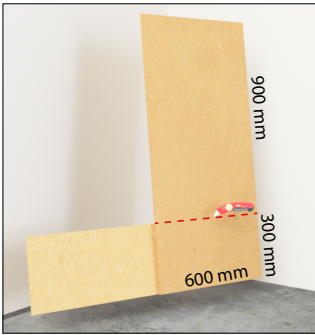
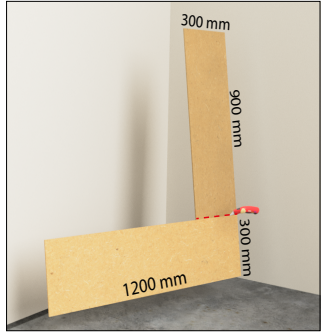
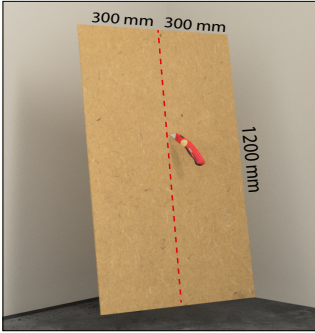


Dual Overlay is not suitable for tile floor coverings.



# Cutting Guide

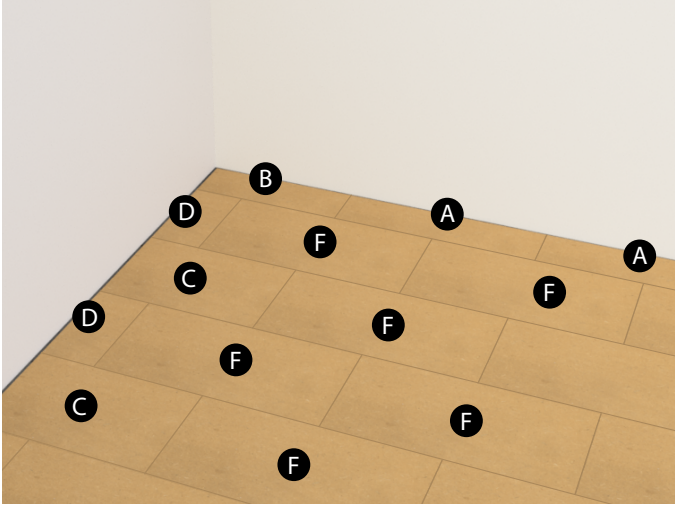
Use the boards as templates to cut to the correct size as shown:



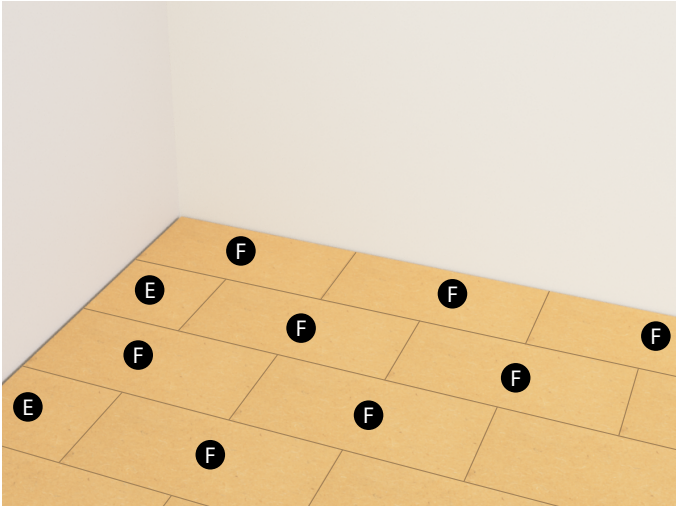
# Layout Plan

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## Base boards - Floor layout



## Top boards - Floor layout



## Technical specifications

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### Insulated Underlay

<b>Product Code</b>	WIU (Warmup Insulated Underlay)
<b>Dimensions</b>	Width - 1200 mm Coverage/pack - 2.5 sqm, 5.0 sqm, 10 sqm, 25 sqm
<b>Thickness</b>	6 mm +/- 0.5
<b>Composition</b>	Top Layer: Ribbed EPS Bottom Layer: (silver) polyethelene foil backing
<b>Density (kg/m<sup>3</sup>)</b>	18
<b>Compressive Strength</b>	43 kPa
<b>Impact Sound Reduction</b>	21dB ΔLw*
<b>Temperature Range</b>	-30 °C up to +70 °C
<b>Water Vapour Diffusion Resistance (SD)</b>	> 100
<b>Thermal Conductivity (W/m.K)</b>	0.033
<b>Thermal Resistance (m<sup>2</sup>.K/W)</b>	0.17
<b>tog</b>	1.7
<b>Fire Class EN 13501</b>	B <sub>fl-s1</sub>

\* Impact sound reduction on concrete floor (according to ISO 10140-3 2010) in combination with electric underfloor heating with Dual Overlay + LVT



## Technical specifications

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### Dual Overlay

<b>Product Code</b>	WDO (Warmup Dual Overlay System)
<b>Content</b>	4 Base and 4 Top Boards (Covers 2.88 m <sup>2</sup> )
<b>Dimensions</b>	1200 x 600 mm +/- 1.5 mm
<b>Thickness</b>	Top Board: 4 mm Base Board: 3 mm Total Thickness: 7 mm +/- 0.2 mm
<b>Composition</b>	MDF, coated with an interactive adhesive
<b>Density (kg/m<sup>3</sup>)</b>	770
<b>Bending Strength (kg/cm<sup>2</sup>)</b>	> 40
<b>Compressive strength (kPa)</b>	1000
<b>Humidity (%)</b>	4 - 10
<b>Thermal Conductivity (W.m/K)</b>	0.114
<b>Thermal Resistance (m<sup>2</sup>.K/W)</b>	0.072
<b>tog</b>	0.72
<b>Fire Class EN 13501 (WDO)</b>	D <sub>fl-s1</sub>
<b>Fire Class EN 13501 (WDO with 2 mm LVT)</b>	B <sub>fl-s1</sub>



**Warmup plc**

[www.warmup.co.uk](http://www.warmup.co.uk)

[uk@warmup.com](mailto:uk@warmup.com)

**Tel:** 0345 345 2288

**Fax:** 0345 345 2299