

## Quick Facts:

**Location:**  
Munich, Germany

**Client:**  
Studio Aislinger

**Nature of Project:**  
Public

**About the client:**  
Award-winning designer  
is a creator of avant-  
garde products

### System specifications:

- 200W/m<sup>2</sup> heating mats
- 1cm thick insulation boards
- Warmup® XSTAT thermostats

Warmup is the only  
underfloor heating  
accredited by all these  
leading institutions:



## Warmup provides warmth for innovative mobile home unit, the LoftCube



### The Challenge

Mostly glass-fronted, there was little wall space for radiators within the cube. To stay in keeping with the fast-assembly concept of the LoftCube, the ideal heating system had to be space-saving and quick to install too.

### The Solution

Warmup® 200W/m<sup>2</sup> heating mats were installed completely under the floor finish, so no wall space was required. Warmup® XSTAT thermostats were then installed to improve energy usage through zonal heating control.

### The Result

The simple installation of the heaters worked beautifully with the construction of the rest of the unit, while the discretion of underfloor heating complemented the contemporary style of the roof-top pod and did not need to obstruct the glass walls.



### Products Used



#### PFM matting system (PFM)

Warmup® mat systems are perfect for heating up a large or regular-shaped room. Just 2mm thin, this multi-strand core, double-insulated element is the toughest and thinnest wire you can buy. Installation is as quick and simple as rolling out the mat with pre-spaced wired. Sturdy fibreglass mesh gives it extra durability while super-sticky double-sided tape allows secure installation. Multiple heaters can be combined to cover larger areas.

#### Technical data:

- Operating voltage 230V: 50Hz
- Width: 500mm (0.5 metre)
- Mat thickness: 3mm
- Inner/Outer Insulation: Advanced Fluoropolymer
- Output rating: 100W/m<sup>2</sup>, 150 W/m<sup>2</sup> and 200 W/m<sup>2</sup>
- Single 3m long 'cold tail' connection lead
- Approvals: ASTA BEAB, CE, KEMA & GS
- Lifetime Warranty & SafetyNet™ Installation Guarantee



#### WARMUP® Insulation Boards

Using Warmup® insulation boards with underfloor heating can lower your running costs by as much as 50% while reducing your carbon footprint. In fact, they can pay for themselves in as little as 2 and a half years.

#### Technical data:

- Board Dimensions: 1250mm x 600mm
- Board Thicknesses: 6mm, 10mm (standard), 20mm, 50mm
- Able to withstand a load of 30 tonnes per square metre
- U Values (W/m K): 6mm-4.50, 10mm-2.70, 20mm 1.35, 50mm-0.54
- Water Absorption (Capillary): Nil
- Class "O" / "B1" fire rated
- High soundproofing properties
- No primer required when used in conjunction with underfloor heating



#### Warmup® XSTAT programmable thermostat

Warmup® XSTAT is a flush mounted, dual-sensor digital thermostat so easy to program that there is hardly any need to read the instruction booklet!

#### Technical data:

- Supply voltage: 230V: 50Hz
- Output relay SPST or 1A inductive load: 16A, 3,600W
- Built-in interrupter: 2-pole, 16A
- Temperature range: 0 / +40 °C
- Limitation of range: +5 / +55 °C
- Ambient temperature during operation: 0/+40°C
- On/off differential: 0.4°C
- Sensor type: NTC, 3 m
- Dimensions (H/W/D): 86 x 86 x 34 mm
- XSTAT Clock function: 4-events program/7 days
- XSTAT Housing: IP 20
- XSTAT Size of display (H/W): 26 x 39 mm
- XSTAT Installation depth: 14mm
- Approvals: CE, ASTA BEAB
- Available in white and graphite

### Product Application

