

Quick Facts:

Location:
Tagus Village, Oeiras,
Portugal

Client:
Oeiras Parque, on behalf
of Oeiras Council

Nature of Project:
Residential

About the client:
Oeiras Parque,
established since 1992,
specialists in purchase,
construction and sale of
large-scale developments
and urbanisation projects

System specifications:

- 100W/m² heating mats,
- 2cm thick insulation boards,
- Warmup® XSTAT thermostats, white

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



Warmup chosen for upmarket residences in 400-hectare commercial development



The Challenge

At a large 184m² each, these houses needed an effective and reliable heating system to provide warmth. The heaters would only be used for a short time annually, so having ugly radiators all year round would be a shame to the rest of the designer interior furnishings, which included hydromassage facilities.

The Solution

Warmup recommended a hidden system and offered professional support from quotation through to installation. 100W/m² Warmup® undertile heating mats were chosen for the tile floors and laid onto 2cm thick insulation boards. These heaters were in turn connected to Warmup® XSTAT thermostats, offering zonal control for improved energy efficiency.

The Result

The developer was able to provide their customers with the luxury of a very personalised level of comfort and warmth, combined with aesthetic discretion and design freedom.



TAGUS VILLAGE - Portugal

System Specifications

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/m², 150 W/m² and 200 W/m²
- 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

