

Quick Facts:

Location:

Sotogrande, Cadiz, Spain

Client:

Residencial Marlin, S L,
Grupo Sotogrande

Nature of Project:

Public

About the client:

Specialists in large scale constructions all over the Costa del Sol and Cadiz province

System specifications:

- Warmup® 100W/m² heating mats
- 1cm thick insulation boards
- Warmup® MSTAT thermostats

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



Warmup heats 444 bathrooms in exclusive riverfront golf resort



The Challenge

Space was a premium in the bathrooms of these posh apartments, so there was little room for heaters.

The Solution

Warmup® fitted 100W/m² heating mats just below the floor finish and onto 10mm thick insulation boards. The Warmup® MSTAT thermostat was chosen as the heating control.

The Result

Installed beneath the ground, the heating system did not occupy any walls within the bathroom, thus creating a greater sense of space. Spread over the entire floor, the heat emitted was luxuriously even and gentle, enhancing the experience of quality riverside living.



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® MSTAT thermostat

Warmup® MSTAT is a fuss free, simple to use manually operated thermostat.

Technical data:

- Supply voltage: 230V: 50Hz
- Load: 15A, maximum (resistive only)
- Power: 3450 Watts (NI) @ 230 VAC
- Temperature range: 7°C, 15°C to 35°C
- Storage: -20°C to +50°C
- Wire size: 0.33 to 3.1mm²
- MSTAT Housing: IP 20
- MSTAT Installation depth: 35mm
- Approvals: EN60730-2-9 / EN50081-1 / EN50082-2

Product Application

