



Quick Facts:

Location:

Ocean Village, Gibraltar

Client:

BRUESA Construcción
Gibraltar s.a.

Nature of Project:

Commercial-Residential

About the client:

Bruesa is one of the largest construction companies in Spain

System specifications:

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

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



Warmup heats 300 bathrooms in Gibraltar's largest leisure-residential development

The Challenge

Ocean Village is Gibraltar's most prestigious address, with apartments offering spectacular views out to sea through glass walls. This however, meant limited wall space combined with an additional need for heating.

The Solution

To get around the simultaneous problem of heat loss and lack of space, Warmup recommended installing 100W/m² Warmup® underfloor heating mats beneath the tiled bathroom floors. Laid onto 2cm thick insulation boards, the heaters were then wired up to Warmup® TSTAT thermostats for easy control.

The Result

The issue of cold feet and air was overcome where it would have been felt the most - in the bathroom. Installed out of sight, Warmup also resolved the dilemma of insufficient wall space.



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® TSTAT programmable thermostat

Warmup® TSTAT is a state-of-the-art thermostat featuring a 7 day digital time with 4 settings per day where you can set the exact temperature you desire at a time that suits you.

Technical data:

- Load: 240V AC:16A
- Battery-free backup up to 50 hours
- Dimensions (H/W/D): 80 x 80 x 48 mm
- TSTAT Clock function: 4-events program/7 days
- TSTAT Housing: IP 21
- XSTAT Installation depth: 35mm
- Approvals: CE, ASTA BEAB
- 3-year warranty

Product Application

