

Case Study Under Floor Heating

Project Reference

Project: Alexandra Walk Apartments, Dublin
Client: Benton Properties
Contractor: Butler Electrical
Date Completed: 2007



Project Overview:

The Alexandra Walk Apartments is a multi-storey city centre residential apartment complex. The development is high quality and comprises of 1, 2 and 3 bedroom apartments along with 2 penthouses on the top floor. The occupants of the apartments are primarily young professional people with busy lifestyles.

The ATC Semi-Storage Electric Under Floor Heating system heats the Apartments in Alexandra Walk. This system involves two processes, the fixing of electric under floor cables to the floor. This is then covered by 30mm of Gypsum Level Rock self-levelling compound. The Level Rock compound allows the system to operate as a semi-storage and direct heating system independently.

The heating system is controlled by having a digital programmable thermostat fitted in each room (zone) in the Apartments. This digital programmable thermostat controls the floor and air temperature in the room, except in bathrooms where the thermostat is installed outside the room and only reads the floor temperature. The system can operate as a semi – storage system and avail of the off peak electricity tariff (22.00 – 06.00) in the early mornings and act as a direct heating system when required during the day and evenings with a heat up time of 20-30 minutes.

This combination ensures a very economic and comfortable heating system. The digital programmable thermostat is simple to programme and will facilitate all variation of user lifestyles. This heating system requires no maintenance.

ATC also supplied the Central Ventilation Extract system, Towel Radiators and Mirror Demisters in this project.

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ATC House, Broomhill Drive, Tallaght, Dublin 24.

Sales Ph: 00353 1 467 8301 Sales Fax: 00353 1 452 0087 Email: sales@atc.ie