

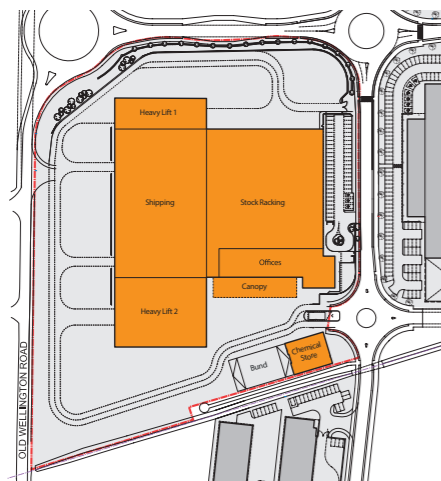


181,000 Square Feet heated with Mark Radiant panels

Total Oil & Chemical warehouse heated with Mark Climate Technology radiant panels.

The construction of Total E&P UK Limited's 181,000 square feet warehouse facility at Aberdeen Gateway business park is completed.

The new facility sees Total E&P UK Limited consolidate its existing warehouse facilities at Gateway. Construction commenced in late January 2014 and the majority of the primary steel work was already in place by summertime. During wintertime all inventory, including the heating system, was installed.



Radiant Panels

Since early 2013 Mark Climate Technology worked on this project locally with the Engineering Designer Atelier Ten and Services Contractor Richard Irvin to help get the optimum heating solution fit for the customer.

Mark Infra Aqua Eco radiant panels are a practical and energy efficient option for multifunctional and versatile warehouse facilities which store all kinds of oil and chemical materials. Sensitivity for explosion risk makes hot water radiant panels a very effective and safe solution.

Additional advantages are: low energy consumption and maintenance costs, no dust spread and no lost space. No high level gas equipment inspections or working space disruptions made the choice even more logical.

Radiant heating is a low temperature heating system that provides comfortable warmth even in a 10 meter high building.



Hot water radiant heating has become a very popular solution in Scotland, England and the rest of the world. Mark has delivered radiant systems for schools, sport facilities, industrial buildings and commercial buildings.

Total

Total is a leading energy player on the international stage, and the fifth-largest publicly-traded integrated international oil and gas company in the world.



TOTAL

Almost 100,000 Total employees leverage their knowledge and expertise to discover, produce, refine and convert oil and gas into products and services for customers worldwide. Total is also developing energies that can partner oil and gas — today, solar energy and tomorrow, biomass fuels. (source: www.total-campus.com)

Market Leader in Climate Technology

Mark Climate Technology has been manufacturer of climate control equipment since 1945. Mark is Europe's largest manufacturer with a wide range of products for industry and utility.

Mark's extensive range of products consists of: air heating, radiant heating, ventilation equipment, air handling units and pipe bending machines. These product groups are additionally split into gas – oil fired – or water-fed heating equipment, making it easy to create a solution for every type of project.

After completion the building has the following specifications:

- Steel portal frame construction with composite roofing and panel system, with concrete dado wall infill.
- Warehouse floor loading of 37.5 kN/m².
- 12.2 m haunch height in the 'Heavy Lift' areas and 6.5m in the remaining warehouse.
- Design capacity for 2 No 25 tonne cranes and 2 No 16 tonne cranes in the 'Heavy Lift' warehouse areas.
- Raised access floor (145 mm) in the majority of the offices.
- Office floor to ceiling height 2.7m
- VRF cooling/heating and mechanical ventilation in the office areas.
- Heating to warehouse via LTHW radiant panels.



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