



Watson Towers Group
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Cairnhill Structures

Case Study Travelodge, Aberdeen

The new CairnFRAME pre-fabricated built Travelodge in Aberdeen's city centre is the first of its kind designed, manufactured and erected in its entirety by a Scottish company utilising the latest Cold Rolled Steel Design Technology.

More than 70 tonnes of Cairnhill galvanised pre-fabricated steel was erected in just 12 weeks to complete the main structure for a new eight storey hotel in the heart of Aberdeen.

Muir Construction Ltd changed the original concrete design to a light gauge steel frame structure for both its speed of construction and lightweight design. Cairnhill delivered to site welded pre-fabricated storey height panels already fitted with cement particle board and bolted together to form the building's structure. The building's floors and roof were constructed from 160mm thick composite concrete slabs, with floor-to-floor heights of 2.78m, which enabled a floor to ceiling height of 2.4m to be achieved.

Cairnhill's Managing Director Graeme Stevenson says, "When using CairnFRAME it was possible to meet the crane down date even though we constructed the building during one of the worst winters on record.

The Cairnhill turnkey approach to this project is exemplified through our provision of drylining, ceiling and joinery work packages allowing for the demanding construction programme to be met"

Cairnhill Structures Ltd has been established for over 20 years and is developing the product further using latest STRUCAD design software to improve lead in times and to construct standalone superstructures up to fifteen storeys.

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Graeme Stevenson, Cairnhill Structures

Location:

New Travelodge,
Justice Mill Lane,
Aberdeen

Client:

Ardmuir Ltd

Architect:

Cumming & Co

Quantity Surveyor:

Franklin & Andrews

Main Contractor:

Muir Construction

Structural Engineer:

Mott MacDonald

Project Value:

£5million

Contract Value:

£1.35million

Scope of Works:

Two storey hot rolled steel podium and concrete floor structure.

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