SPOTLIGHT ON SUCCESS

EOS
ENGINEERED OFF-SITE SYSTEMS

Residential : Housing
East Cliffe Portpatrick Scotland

"Benefits of light gauge steel frame that are important to the team at Galloway Homes are cost and durability. Although the frames for the Portpatrick development were erected back in January, they were able to withstand the harsh Scottish weather conditions. Further to this, speed was a key benefit in the process."

Graham Fletcher, Galloway homes

Project Profile

Location: Portpatrick

Client: Galloway Homes

Architects: Iain MacFadzean

Structural Engineers: WA Fairhurst

Project Value: £450,000

Size: 287 sq m

Completed: Summer 2007

The Project

EOS worked to complete a new luxury, eco friendly development named Portpatrick Holiday Homes Ltd, for Galloway Homes who demanded the highest specification and delivery consisting of 17 units. The first two houses completed are 287sq metres detached houses with complex roofs and opening requirements. The project also encompassed manufactured bathroom pods as part of the structure.

The project consists of high specification properties built to exacting standards offering five bedrooms, all with en-suite bathrooms, and comprehensive disabled access, off road parking, patios and balconies. Taking advantage of the EOS systems load bearing capabilities, the upstairs design provides a spacious lounge with a patio overlooking the Irish Sea and Portpatrick.

The downstairs area also has a large open plan living area. The open layout adds to the feel of contemporary space and luxury in the context of the location, and compliments Galloway Home's approach and ethos.




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A key focus of this project was to establish a contemporary design that took advantage of the unique situation and emphasised luxury, and visitor experience through the use of space. The EOS team worked hard to ensure the architect's vision was supported while maintaining commercial focus.

Open Spaces

The main structure comprises of the EOS load bearing system panels engineered and manufactured from 150mm C section for the external walls supporting a light weight render system. The load bearing internal walls were manufactured from 100mm C section.

Integrated Flooring

The EOS flooring system was constructed from 232 deep lattice joists and 150 floor cassettes. This accommodated large open aspects required in the design. Further the flexible system provided for the floor construction of the bathroom pods to give a level floor.

High Vaulted Ceilings

A warm roof was constructed using the EOS roof System. Large 7 metre panels were supported from truss support panels at the first floor level to give the room's high vaulted internal ceilings without the incorporation of a ridge beam or purlins for support. Window openings were also designed into the roof panels to allow light into the first floor area.

Fast solutions:

Exceeding expectations, 'Number 10' took four weeks to erect to wind and weather tight. This included the installation of bathroom pods also coordinated by EOS.

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