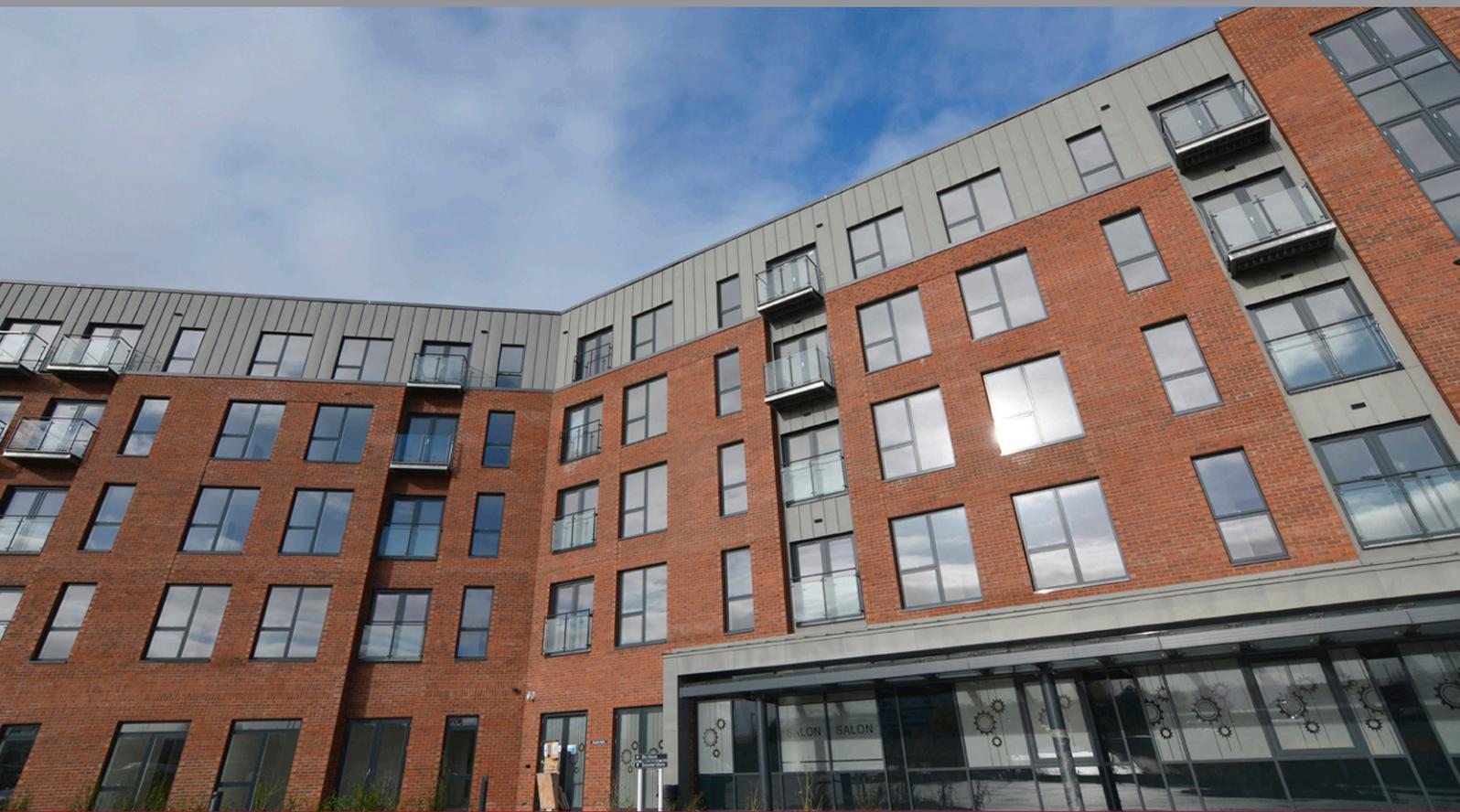


CASE STUDY

Zinc Cladding at Foundry Wharf Extra Care St Helens



A flagship scheme of 130 extra care homes of one and two bedroom apartments designed by Liverpool architects Brock Carmichael

Project: Foundry Wharf, Atlas Street, St Helens
Client: Torus Group
Architect: [Brock Carmichael](#)
Structural engineer: [Alan Johnston Partnership LLP](#)
M&E contractor: [Steven A. Hunt & Associates](#)
Specialist roofing and cladding contractor: [Longworth](#)
Material: 1200m² of [elZinc Slate angled standing seam cladding](#)

Introduction

This flagship scheme of 130 extra care homes for the over 55s comprises 109 one bedroom and 21 two-bedroom apartments built to a high specification for Torus Group. The building also includes communal facilities; a bistro and hairdressers which are open to the public within a large foyer which opens out onto

extensive secure, landscaped grounds overlooking the St Helens Canal. We spoke to project architect Phil Malthouse and Daniel Nelson of installer Longworth who worked on the project.

About the project

The site has been designed by the Liverpool architects Brock Carmichael as part of a masterplan for an area of the city centre adjacent to the housing association Helena Homes' headquarters, which is now part of Torus Group.

One of the largest developments in St Helens, the building is a focal point on entry to the city centre and was welcomed by the local planning authority for its contemporary appearance and the use of high quality brickwork and zinc cladding.

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The large site backs on to the canal; there is no ‘front and back’ to speak of – each façade is very visible. With little site context, the building had to stand on its own, with no place to hide. Meanwhile Torus are building an asset for rent, which they will own for 30 years. The building had to be long lasting, low maintenance, and aesthetically pleasing. The choice of massing, materials, detailing and execution are all important to the long term quality appearance of the scheme.

Choosing zinc

Zinc cladding was chosen as part of this clear strategy to use quality materials. Such a high profile building attracts attention, and the LPA head of planning insisted on quality materials, including the brick, which is Ibstock Grainger Antique.

The form of the building is broken up into sections representing notional individual units, separated by vertical angled zinc cladding with balconies. The cladding runs down to the ground and envelops the entrance canopy that acts as a focal point for visitors.

Brock Carmichael chose angled standing seam cladding for a number of reasons. Without a pitched roof, the top floor cladding helps the building to seem smaller, and the elZinc Slate colour assists in the visual effect. Using an angled (rather than a double lock) seam keeps the verticals very straight and improves the robustness of the finish.

On a project with a tight budget which is to be executed through Design & Build, taking the right design approach is important to ensure success. “There is no point in over-specifying,” Malthouse says. “Work with a strong form and quality materials - this can help avoid value engineering. If you look at our concept sketches, they are very similar to the finished building.”

Keeping zinc in the contractor

Brock Carmichael worked with the client to stage 3, at which point contractors were interviewed and the project tendered as Design & Build. The practice was then novated to the contractor, and the influence of the architect on the project can be reduced.



Crisp flatlock joints in the entrance canopy of the development

“Whilst our involvement in the execution on site was limited, we managed to keep the zinc cladding from being engineered out of the project”, says Malthouse. “This was due to the high visibility of the project with the LPA, but mostly to the work of Simon Walker at SIG Zinc & Copper to keep the zinc in the contract.”

Construction

The project started on site in mid 2017, a few weeks before the Grenfell tragedy. The client’s development director made an immediate decision to change the specification, and the building has non-combustible insulation and a full sprinkler system. Later the main contractor went into administration, but the project will complete, and the cladding installation was completed a few weeks before the first lockdown earlier this year.

The zinc cladding was designed and installed by specialist roofing contractor Longworth. On a project of this size, it is normal to produce a full set of drawings based on measurements taken on site. There were a lot of measurements involved in this project, as can be seen by the photographs. The vertical zinc areas include a number of windows and balconies, and each is bounded by brickwork, so there was plenty of setting out.

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“We fabricated the panels on site,” Daniel Nelson, Traditional Roofing and Cladding Manager at Longworth, explained. “This is much more practical with a project of this size, when factory fabrication would have meant scheduling weeks or months in advance.” If there are any discrepancies, they can be dealt with on site much more easily.

Advice for architects

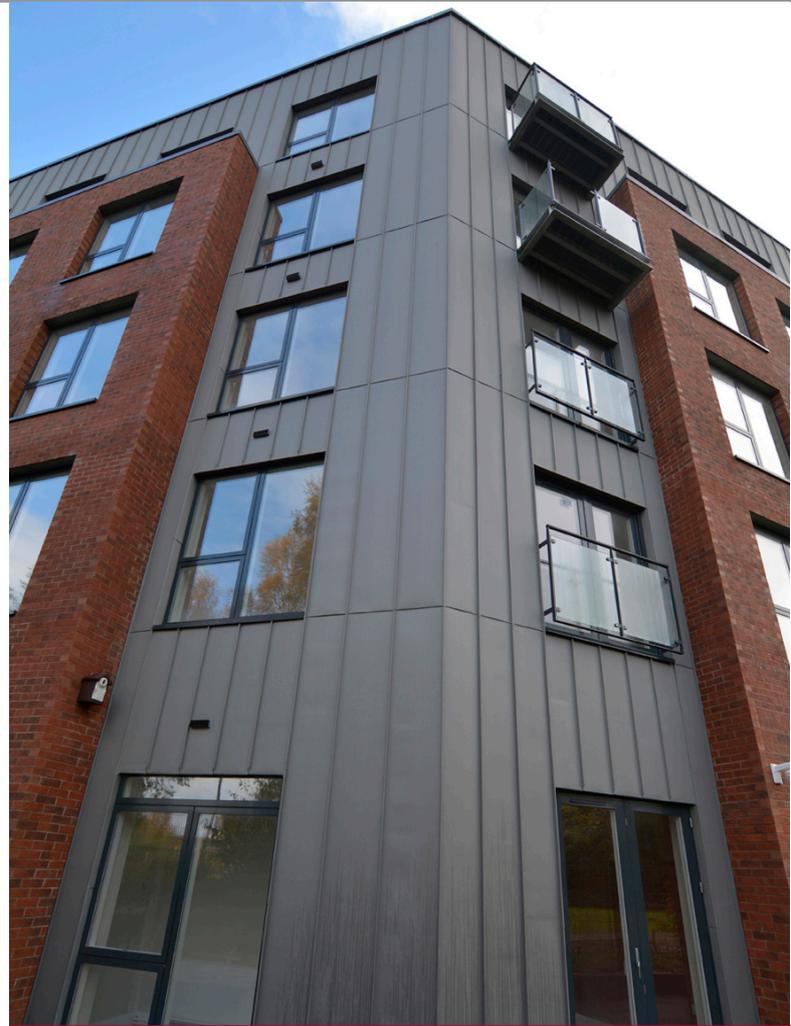
Phil and Daniel are in agreement when it comes to their advice for architects. Go in early for the best advice.

“Early engagement is key,” says Daniel. “The sooner you can talk to SIG and a specialist subcontractor such as Longworth about what you want. They can explain what can and cannot be done, the sooner you can employ a specialist subcontractor find an appropriate solution. So many issues can be eliminated far in advance by sharing information.”

Phil agrees. “Don’t design it and then try and find something to fit your design. Use a specialist who understands the limits of the material and how you can use it to get the aesthetic you want.

“Don’t try to design everything bespoke either. If you can get 5-10 key details that you really care about, work on them and fight for them. Choose the things people will see – the entrance, canopies, the first floor. They all look great.”

Phil Malthouse is full of praise for the team at Longworth and SIG Zinc & Copper who worked on the cladding design, supply and installation. “I’m very pleased with the finish, and the detail has worked out really well. If you get the right people in early – as soon as you have an idea what you want to do – this can bring benefits later on.”



More information

- Visit the elZinc product pages and downloads <http://www.sigzincandcopper.co.uk/rainbow-pigmented-pre-weathered-zinc-sheets-and-zinc-shingles/>
- Thinking about specifying zinc? Talk to an expert. SIG Zinc & Copper on 0330 123 1820 or contact us through the website. www.sigzincandcopper.co.uk

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