

Neptune Marina



Kawneer Products

- AA®603 Tiltturn Windows
- AA®605 Swing Doors
- 1202 Curtain Wall
- Sliding Doors
- 190 Narrow Style Doors

Architect

BUJ Architects, London

Client

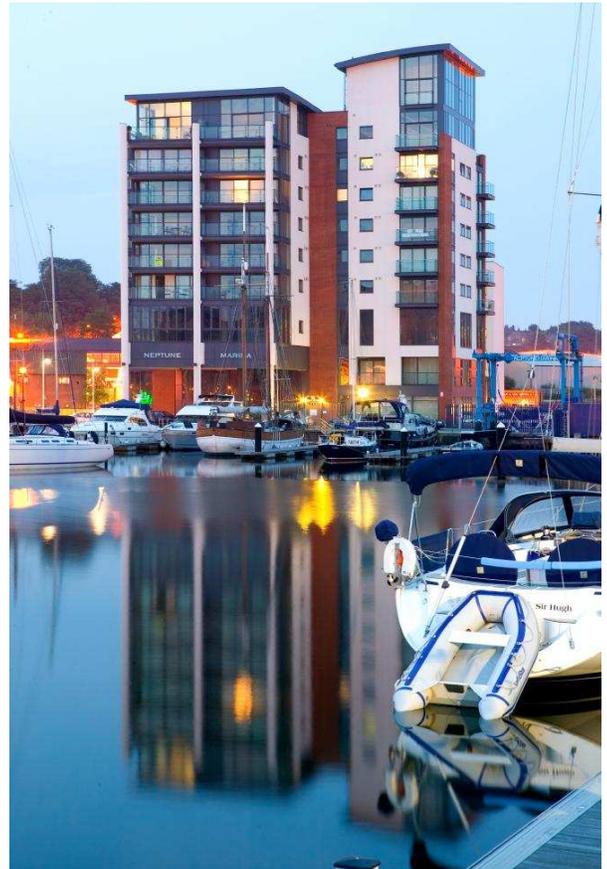
Redrow Homes

Kawneer, the UK's leading manufacturer and supplier of architectural aluminium systems, in partnership with specialist contractor, Norman & Underwood, has recently contributed to the construction of the £13 million development of Neptune Marina, Ipswich. Designed by BUJ Architects and erected by Jackson Construction Ltd, the impressive structure makes extensive use of Kawneer AA®603 Tiltturn Windows throughout.

Neptune Marina is an impressive eight-storey development comprising 113 one, two and three bedroom apartments and incorporates a number of ground floor commercial units. The luxury penthouse apartments, constructed with curtain wall glazing, have large roof top sliding doors and terraced gardens with panoramic views over Ipswich and the River Orwell.

Included in the development are glazed curtain wall shopfronts to Duke Street, the Marina offices and entrances to the ground floor. On the ground and first floors overlooking the Marina, is a waterfront restaurant with a curtain wall facade. The majority of the apartments utilise Kawneer AA®603 Tiltturn windows in the bedrooms and Kawneer sliding doors leading onto projecting balconies. Due to its central location, the development also had to meet stringent acoustic requirements to prevent disturbance to residents from the busy Duke Street. Compliant with Part E of the

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Kawneer is the UK's leading manufacturer and supplier of architectural aluminium systems. An ISO 9001 company, Kawneer provides single source responsibility for the design, extrusion, fabrication and finishing of high quality aluminium systems. Based in Runcorn, Cheshire, the company operates a nation-wide network of fully trained authorised dealers, which fabricate and install its precision-engineered curtain walling, framing, window and door systems. The dealer network is supported by a dedicated project engineering team, which also works directly with the specifier to provide sophisticated technical and design support tailored to meet the needs of any project, large or small.

Kawneer is the architectural systems business within Alcoa's Building & Construction Systems (BCS) division. With 3400 employees in 12 countries, Alcoa BCS supplies architectural aluminium systems and products to the global construction market. Alcoa BCS is part of Alcoa, the world's largest producer of aluminium and alumina. Alcoa's activities extend to all major segments of the industry including mining, refining, smelting, fabrication and recycling. Further information about Kawneer can be obtained by logging on to Kawneer's website, www.kawneer.co.uk or calling: 01928 502500.

Building Regulations, Kawneer's AA®603 Tiltturn windows contributed to the development's acoustic requirements.

Due to the main contractors tight programme requirements the vast majority of the glazing had to be installed into the inner skin of blockwork with the exterior render wall system being installed later, making the build particularly challenging.

The majority of the windows were installed into punched openings. Due to the necessity of the windows to accommodate the external render line the internal blockwork reveals became deeper, thereby presenting further challenges for safety restrictors, whilst still meeting the requirement to fully open the windows to enable internal access for cleaning.

The Penthouses were all constructed using Kawneer curtain wall with the larger apartments having two-storey, full height glazing to maximise vision. Many elevations also had curved heads to follow the curvature of the roofs.

Kawneer 1202 thermally broken curtain wall was installed to ground and first floor offices, as well as shopfronts and restaurant areas and the high level Penthouses.

Denis Collier of BUJ Architects commented: "The bold and contemporary design of Neptune Marina created a significant departure from the architectural style of earlier waterfront developments and has helped to establish a benchmark for the design quality of future regeneration projects in the Wet Dock area.

"Kawneer's innovative products were selected for the project on the basis that their systems are proven with a great track record, which guaranteed performance even in an adverse coastal climate."



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