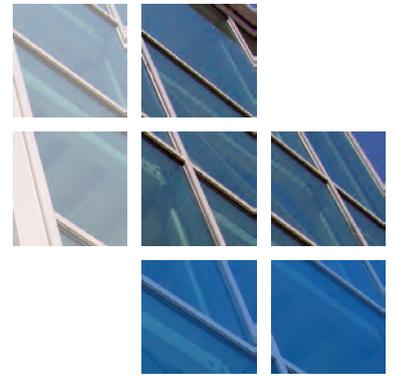




comar

ARCHITECTURAL ALUMINIUM SYSTEMS



Chamberlain Student Accommodation, University of Birmingham.



The University of Birmingham's new Chamberlain Hall Student Accommodation is an impressive example of regeneration which is in keeping with the landscape as well as providing all essential capacity growth for the future. Consisting of 2 linked tall towers at 17 at & 21 stories and 5 "finger" blocks.

The façade had to provide function as well as form. Day-lighting is vital to aid with studying, no dark gloomy corners, a light and airy interior is desirable. Natural ventilation was a must, however, in keeping with the structured façade open-in windows were required fronted with ventilation panels, to allow ventilation yet not impact on the façades integrity, maintaining the clean lines and sleek elevations. Making the façade work and integrate with all the cladding elements involved Comar Architectural Aluminium Systems designing new methods of fixing. The flush façade was a must and all the elements: Comar Glazing, Mesh and Copper panels needed to integrate. One of the engineering challenges on the project was the connection of the perforated copper cladding panels to the Comar 6EFT curtain walling. This connection had a few considerations, such as the metals being at opposite ends of the galvanic table, aesthetic demands, thermal performance and the structural considerations of loading panels to Comar 6EFT curtain walling. Continental Installations worked closely with Comar Architectural Aluminium Systems and main contractor Balfour Beatty on the complex façade. The team designed a bespoke capping profile which was extruded with re-enforced walls capable of fixing the copper panels directly to it. A heavy duty pressure plate with a fixing port arrangement, was used to mechanically fix the capping to the pressure plate. Subsequent regular fixings then transmitted the applied loads back to the rear structural mullion member to ensure there was no thermal bridging. All connections were fully isolated to prevent bi-metallic corrosion.

This bespoke design then included inward full height opening windows which sat behind the façade, Comar 5P.i Advanced Tilt/Turn open in windows were selected. These windows were perfect for the application as they offer slim sight-lines, thus maximising daylighting as well as the profiles themselves have thicker walls that provide robustness and large spans to ensure they stand the test of time. On the window elements Comar 5P.i Advanced Tilt/Turn open in windows were selected. These tilt/turn windows are perfect for the application, they offer slim sight-lines to maximise day-lights as well as the profiles themselves have wide wall thicknesses that provide robustness to ensure they stand the test of time. The wire mesh fitted directly onto the window.

PROJECT DETAILS

Main Contractor:
Balfour Beatty

Fabricator:
Continental Installations

Project Value:
Part of a £42 million project

Comar Systems Used:
Comar 6EFT Curtain Walling,
5P.i Advanced Tilt & Turn Windows
& 7P.i CD Doors

Location: Chamberlain Village,
University of Birmingham



Chamberlain Student Accommodation, University of Birmingham.

The Parkside Group incorporates Comar Architectural Aluminium Systems, Alu-Timber, an aluminium/timber composite system of windows, doors and framing, Axim Architectural Hardware and Duco ventilation and sun control.

This provides a unique opportunity for specifiers and fabricators to rely on a single source for building envelope and integrated systems.

Comar

Comar Architectural Aluminium Systems is the largest British, privately owned aluminium systems company in Europe. Comar designs, extrudes and distributes over 700 integrated profiles to a nationwide approved fabricator network for use in aluminium ground floor treatment, window, door and curtain walling applications. Comar has built its reputation on delivery; over £5M of mill, white polyester powder coating, silver, bronze and anodised profiles are kept in stock. This means that 99% of orders are fulfilled by our customers' weekly delivery.

Alu-Timber - Merging Material Solutions. Creating sustainable, energy efficient buildings is a cornerstone of design.



Alu-Timber, a range of aluminium/timber windows, doors and framing, that combines sustainably grown FSC or PEFC timbers with 100% recyclable aluminium. Alu-Timber gives the specifier benefits: low U-values to achieve current legislation as well as reassurance for the client that the facade will last, with minimal maintenance.

Comar Duco

Comar-Duco produce market leading ventilation and sun control products that continually evolve to meet the latest demands that building regulations command. This comprehensive solution to provide single source aluminium facades, with ventilation and solar shading, incorporates Window Ventilation, including acoustic ventilation, Architectural Louvres, Continuous Louvre Walls and Solar Shading.

Axim

As part of the The Parkside Group, Axim supply a full range of architectural aluminium door hardware including: concealed transom closers, floor springs, surface mounted closers, flush bolts, panic exit devices, handles, letter plates and other ancillary items.

RIBA CPD Provider

The Parkside Group provides RIBA assessed CPD seminars to architects and specifiers throughout the UK. Please contact us for further details.

Nationwide Architectural Specification Team

Comar Architectural Aluminium Systems have a nationwide team of architectural advisors who specialise in providing architects and specifiers with project support and NBS specifications. Fabricators and installers are supported by a team of Territory Managers.



GROUND FLOOR TREATMENT

- COMAR 1 Single Glazed GFT
- COMAR 3 Double Glazed GFT
- COMAR 4 Single Glazed GFT
- COMAR 8 Fin/Bead GFT

CURTAIN WALLING

- COMAR 6 Curtain Walling, Stick Build & Ladder Frame, Square Cut & Step Cut.
- COMAR 6 EFT Structural Glazing 2 & 4 sided

DOORS

- COMAR 7 Doors, Folding, Sliding, Swing & Polyamide Rebated.

WINDOWS

- COMAR 5P.i Windows, 55mm, 60mm & 75mm Polyamide insulation.

WINDOW WALLING

- COMAR 9P.i High Performance Window, Doors & Framing.

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ISO 9001 Quality Management

ISO 14001 Environmental Management

OHSAS 18001 Occupational Health & Safety Management