

Uniclass	EPIC
L413:P43	D13:X421
CI/SfB	
(31-4), Xh4	



**comar**  
ARCHITECTURAL ALUMINIUM SYSTEMS

## comar5P.i ECO

Thermally efficient Polyamide Insulation (P.i) 55mm and 75mm casement window system, designed for aesthetics, security and performance.

### **The Parkside Group Ltd**

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complementing architecture

# comar

Comar Architectural Aluminium Systems constantly look for ways to exceed what the market demands. Current trends are for window and door systems to provide aesthetics as well as achieve environmental, security, thermal efficiency and life cycle targets. Therefore, Comar are pleased to launch their latest development: the Comar P.i. ECO range.

Comar P.i. ECO range has been designed to perform, whilst backed by Comar's market leading delivery. Comar 5P.i ECO includes a 55mm and 75mm window system as well as Comar 7P.i. ECO, a 75mm door system, which is designed to integrate together as well as into Comar framing systems.

With more and more onus on the environment, window and door systems must be sustainable. Using aluminium the Comar P.i. ECO system is 100% recyclable. Aluminium can be recycled an infinite number of times with no loss to its capability. In fact, a study from the Delft University of Technology highlights this: 96% of the aluminium from the demolished Wembley was reclaimed and recycled. Added to this, aluminium is one of the most sustainable materials as there are at least 300 years of known reserves of Bauxite – aluminium's raw material.

Aluminium is the tried and tested building material – the life-cycle is indefinite. The Empire State Building was one of the first projects to use anodised aluminium and still provides a focal point to the building nearly eighty years later.

Unlike other materials, aluminium has been around long enough not to have an expected design life but a guaranteed design life of at least 40 years, with no loss in performance or looks.



# perform

## Comar 5P.i ECO

Comar P.i ECO has been designed and priced to appeal to the demands of today's market. Curve and feature accentuate the slim aluminium profiles, maximising glazed area with the capacity to glaze units up to 32mm.

Comar 5P.i ECO has a dual colour option: the internal and external faces of the profiles can be polyester powder coated or anodised in a multitude of colours and finishes.

Thermal efficiency concerns are alleviated with Comar 5P.i ECO window, achieving a Grade "A" Window Energy Rating (WER). This is, naturally, backed up by Comar's Technical Department offering project-by-project U-values as well as structural calculations.

Security is becoming more and more of a standard and the Comar 5P.i ECO window has a shoot bolt option, which conforms to BS7950.

Tooling is available ensuring that punches and preparations are accurate and reduce wastage. In order to appeal to the very latest production preferences, two methods of manufacture are available: spring-loaded cleats or crimping.

## Weather Performance

Air tightness	600Pa
Water tightness	750Pa
Wind resistance	2400Pa
Safety Test	3600Pa

## Size Limitations

	Height	Width
Side-projected	1300	700
Top-projected	1200	1200

## Thermal Performance

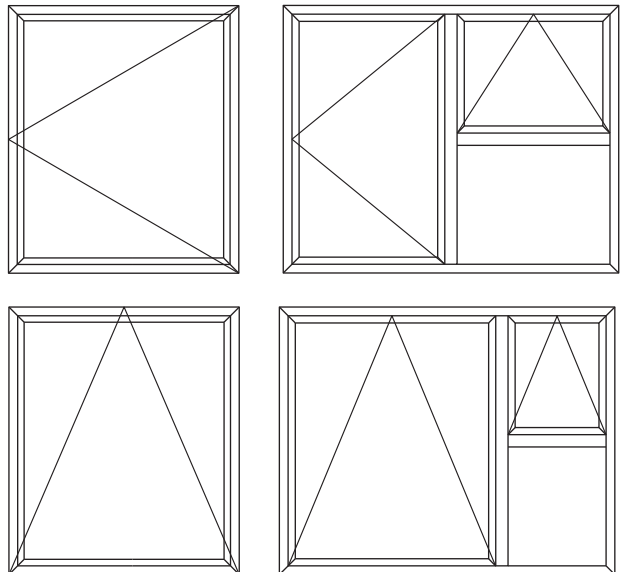
	Calculated to CEN Sizes 1.2 Centre Pane U-value	Calculated to CEN Sizes 0.8 Centre Pane U-value
Comar 5Pi ECO 55mm Internally Beaded	2.1	1.8
Comar 5Pi ECO 55mm Externally Beaded	2.0	1.6
Comar 5Pi ECO 75mm Internally Beaded	2.2	1.9
Comar 5Pi ECO 75mm Externally Beaded	2.1	1.8

## Combinations

The Comar 5P.i ECO is a 75mm and 55mm window system which can be manufactured in all casement configurations, side and top projected, with cockspur or shoot-bolt locking. Comar 5P.i ECO 75mm system can integrate directly with Comar 7Pi ECO to create seamless window and door composites.

## Specification

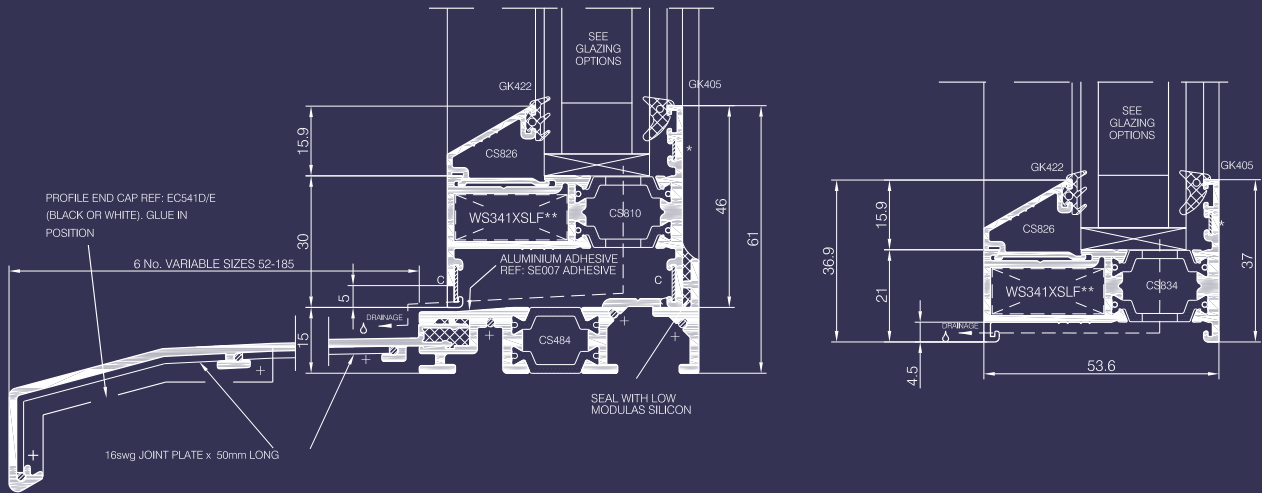
Comar 5P.i ECO can be specified in NBS Clause L10.



# on-time

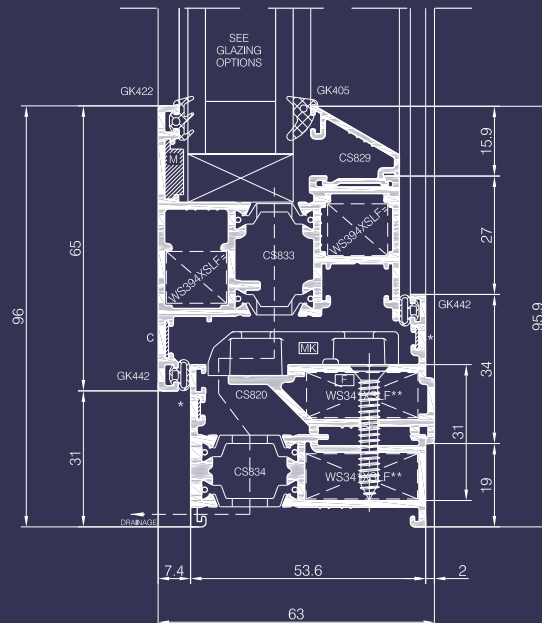


## Comar 5P.i ECO 55mm Externally Beaded



General arrangement showing Comar 5P.i ECO 55mm, window outer frame sill details, fixed light, externally beaded.

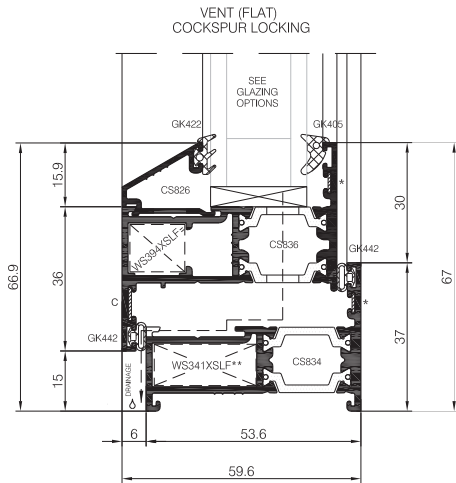
## Comar 5P.i ECO 55mm Internally Beaded



General arrangement showing Comar 5P.i ECO 55mm, window outer frame, open out sill detail, internally beaded vent with transfer profile.

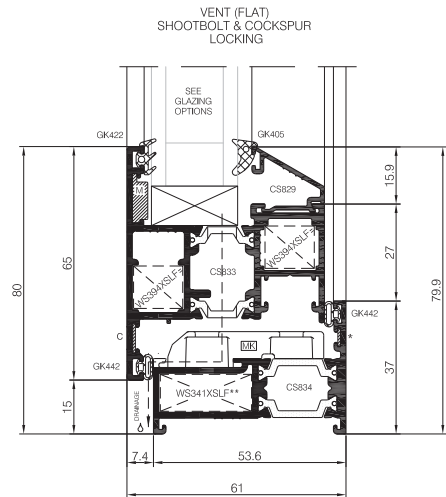
# on-time

## Comar 5P.i ECO 55mm Opening Vent With Cockspur Locking



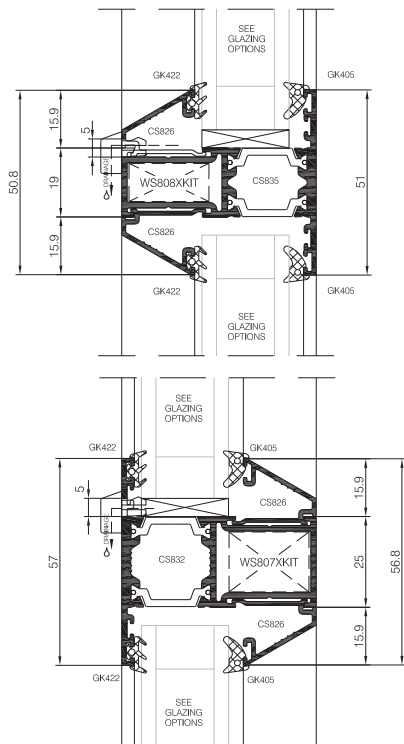
General arrangement showing 55mm outer frame, open out sill detail, externally beaded vent.

## Comar 5P.i ECO 55mm Opening Vent With Shoot-bolt Locking



General arrangement showing 55mm outer frame, open out sill detail internally beaded.

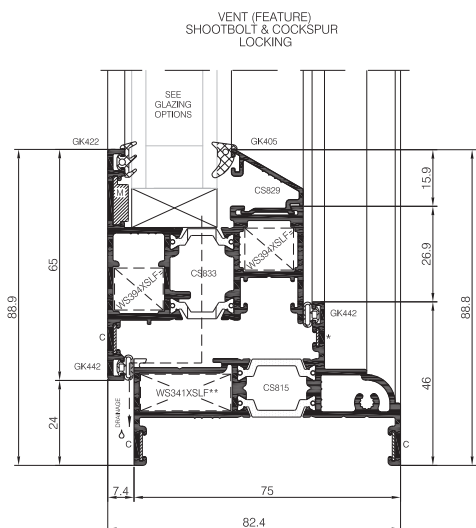
## Comar 5P.i ECO 55mm Mullion/Transom Detail



Δ DRAIN CAP REFERENCE W5201EWHT/W5201DBLK FOR DRAINAGE DETAIL. SEE PREP SECTION

General arrangement showing mullion/transom details, externally/internally beaded 55mm section.

## Comar 5P.i ECO 75mm Sill Detail



General arrangement showing window 75mm outer frame, open out sill detail internally beaded.



## **Technical Back-Up**

An experienced Sales Team covers the UK while the Technical Department offers an unsurpassed design and installation advice service to designers, specifiers and fabricators; simply call: +44 (0)20 8685 9685

## **For More Information**

To find out more about this or any other Comar Architectural Aluminium System, or to obtain your personal copies of the Comar Technical Manuals call: +44 (0)20 8685 9685 or fax on: +44 (0)20 8646 5096

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