A PLUS
ALUMINIUM

Elegance 72

Unitised Curtain Walling

Sapa Building System

Elegance 72

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New unitised curtain walling fully tested to CWCT standards

Curtain walling provides architects and designers with the perfect way to create a stunning building façade. Glass and aluminium invariably combine to deliver a glittering array that is the epitome of modern construction. Sapa Building Systems can assist in meeting the technical, aesthetic and economic challenges that are associated with such building projects.

Elegance 72 is a unitised curtain walling system that brings together the benefits of factory production control and speed of installation on site. Modular units are manufactured and glazed in workshop conditions where quality can be strictly controlled. Lifting/Lining plates are built into the perimeter of the units, ensuring ease of lifting during transport, distribution and arrival on site. Fitting the modular units into place takes far less time than constructing a traditional stick-build system and, for installations where scaffolding is unavailable or impractical, cranes can be used to hoist the panels into position quickly, efficiently and, above all, safely.

Elegance 72 can incorporate windows and doors from the Sapa Building Systems range, as well as Elegance SC solar control and solar power generation through our Building Integrated Photovoltaic (BIPV) system, thus providing a complete façade solution for any building type or style.

Off site manufacturing

Sealing Gaskets

Two levels of gaskets run continuously along the top of the units

Lifting/Lining Plates

Fitted to top corner of units to allow for lifting during transport & installation

On site speed and safety

Units are fitted one floor level at time

Installation & Testing

Theory & Practice

Elegance 72 unitised curtain walling has been specified for a prestigious development in Warsaw. 4,000 sqm of Elegance 72 provides a spectacular atrium linking two blocks. This first installation went smoothly thanks to early involvement in the specification process by the Sapa Building System Poland design and installation team. The fast track installation that unitised systems allow was especially useful in the harsh weather conditions in Northern Poland. Rapid facade installation meant that the building was closed in, allowing secondary trades to begin their work earlier than would normally be possible if a stick system had been specified.

Summary of Results

In order to ensure confidence amongst specifiers and contractors, Sapa Building Systems has carried out a full test procedure to CWCT and European standards.

Test CWCT Sequence B	Comments	Pass	Fail
Air Permeability **Class A4**	Total air loss through screen was $3m^3/h/m^2$ at 600pa (*max: allowable 71$m^3/h/m^2$*)	✓	
Water Penetration Resistance (Static) Class R7	No leakage up to 600pa (70mph winds with 200mm of rainfall in one hour)	✓	
Wind Resistance (Serviceability) Class E5	Profiles did not exceed the permissible deflection measurements at 2400pa	✓	
Air Permeability **Class A4**	Repeat	✓	
Water Penetration Resistance **Class R7**	Repeat Static	✓	
Water Penetration Resistance **Class R7**	Aero Engine Dynamic	✓	
Site Hose Test	45 minutes (using hose with 220kpa pressure with 22L/min flow rate)	✓	
Wind Resistance (Safety) **Class E5**	No damage occurred at 3600pa (equivalent to 165mph winds hitting the facade)	✓	

Test BS EN 13830	Comments	Pass	Fail
Water Penetration Resistance	Moveable Fan Dynamic	✓	
Water Penetration Resistance	Pressure increased to 750, 900, 1050, 1200, 1350 & 1500pa with no leaks. **Taylor Woodrow had never gone to 1500pa on a static water test before**	✓	
Impact Resistance	Profiles & Glass withstood impact from 900mm drop height (highest category)	✓	

Our policy is one of continuous development and consequently we reserve the right to vary the products and their performance specification shown in this literature without notice.

All products and systems which Sapa supply are supplied subject to Sapa's standard Terms and Conditions of Sale which may vary from time to time.

This Technical Data Sheet is for specification guidance only. It should not be relied on for manufacturing or installation details which must instead be obtained from Sapa Building Systems' Fabrication Manuals. For further assistance please contact one of our Project Consultants by calling the Marketing Department on the number below.

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For more information about our products and services please call, fax or email and we will respond immediately.

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A STILLWATER Group Company

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