**ZG-2000 SYSTEM**

Vistawall ZG-2000 Stick Curtain Wall System follows tried and tested design principles to provide a high performance building enclosure.

The system can be supplied in a range of standard sizes in fully captured or horizontally captured or 4 sided structurally glazed. It can also be customised to suit the consultant's requirements.

**MATERIALS**

- All framing members are extruded in 6063-T5 or T6 aluminium alloy for trim and structural members and 6061-T6 structural alloy for anchorage components.
- Aluminium in contact with sealant is provided with a finish that will ensure good adhesion between the aluminium and the sealant.
- Gaskets and setting blocks are made from EPDM, in a hardness to suit the application.
- Mullions and transoms are thermally isolated from the pressure plate by a rigid thermal isolator.
- Fasteners are 300 series stainless steel.

**OPENING WINDOWS**

Top hung opening windows, without the external sightline of a conventional inserted aluminium window, and using multi-point locking mechanism have been designed to provide high performance opening windows within the ZG-2000 curtain wall system. This solution allows for a consistent external appearance at both fixed and opening windows.
ZG-2000 SYSTEM

The maximum size for a top hung project out window is:
- 1500mm wide x 2000mm high.
- Minimum height is 350mm

Standard Hardware:
- Concealed, heavy duty stainless steel friction hinge.
- Multi-point locking mechanism operated by one handle.

Optional Hardware:
- Removable handle.
- Key locking handles.
- Limit opening stays.

FINISH
All visible aluminium is to be finished in either painted or anodised finish to meet International Standards. Different finishes can be applied internally and externally.

CONSTRUCTION AND DESIGN
- The standard face width of the curtain wall system is 60mm. It can be provided in a number of standard depths of framing members. Custom depths and mullion wall thickness can also be supplied to suit the project structural loading or the consultant’s size requirements.
- The framing is accurately assembled with shear blocks at mullion/transom joints and no exposed fasteners.
- The interlocking thermal isolator ensures that the pressure plate is installed true and in line with the interior framework.
- The curtain wall is designed using rain screen/pressure equalized principles to provide a high level of weatherproofing.
- Zero sight line vents, which are not visible from the exterior of the building, or opening windows from the Merit system can be provided if required.
- The system is glazed from the exterior.
- The curtain wall system allows for reasonable structural movements and deflections.
- The brackets connecting the curtain wall to the structure are provided with adjustments to take account of building tolerances.
PERFORMANCE
The curtain wall system is designed to meet the following performance standards:-

- **Air Infiltration** - Infiltration shall not exceed 1.08m$^3$/h/m$^2$ for fixed areas of glazing and 0.55m$^3$/h/m of joint length for opening windows at a static test pressure of 300Pa in accordance with ASTM E283.

- **Water penetration** - There shall be no visible water on any inside surface at a static test pressure of 600Pa for fixed glazing and 500Pa for opening vents when tested in accordance with ASTM E331.

- **Structural load** - The deflection of any member shall not exceed Span/175 or 20mm at the specified design wind load when tested in accordance with ASTM E330.

(Other performance requirements are also possible)

FABRICATION AND ASSEMBLY
Fabrication of the framework and assembly of transom shear blocks and mullion splices is carried out in the factory.
The opening vent aluminium frame corners are mitred, sealed and mechanically fastened either by crimping or using clip on corner joints. The glass for the vents is factory glazed using structural silicone.

INSTALLATION
Installation and glazing is performed by experienced installers in accordance with the installation instructions.

CLEANING
Upon completion, the curtain wall is cleaned using plain water containing a mild detergent. If more aggressive cleaners are required to remove particular types of dirt, recommendations should be sought from the curtain wall and glass supplier.
VISTAWALL INTERNATIONAL

ZG-2000 SYSTEM

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