**GENERAL**
The SL-500 stick curtain wall system is supplied in 160mm depth standard size in fully captured or toggle glazed or it can be customized to suit the consultant's and profile strength requirements.

**MATERIALS**
1. All framing members are extruded 6063-T5 or T6 aluminium alloy for trim and main frame members and 6061-T6 structural alloy for anchorage components.
2. Non-exposed aluminium is supplied in mill finish unless otherwise noted.
3. Gaskets are EPDM in a hardness to suit the application.
4. Mullions and transoms are thermally isolated from the pressure plate by a rigid thermal isolator.
5. Fasteners are 300 series stainless steel.

**FINISH**
Visible aluminium is finished in either painted or anodised finish to meet International Standards.

**CONSTRUCTION AND DESIGN**
1. The standard width of the curtain wall system is 50mm. It is provided in a 160mm depth of framing members. Custom depths and mullion wall thicknesses can also be supplied to suit the project structural loadings or the consultant's size requirements.
2. The framing is accurately assembled with shear blocks at the mullion/transom joints. There are no exposed fasteners.
3. The interlocking thermal isolator ensures that the pressure plate is installed true and in line with the interior framework.
4. The curtain wall is designed using rain screen/pressure equalized principles to provide a high level of weatherproofing.
5. Zero sight line top hung vents, which are not visible from the exterior of the building, or opening windows from the Merit system can be provided if required.
6. The systems is glazed from the exterior.
7. The curtain wall system allows for reasonable structural movements and deflections.
8. The brackets connecting the curtain wall to the structure are provided with adjustments to take account of building tolerances. These are provided from the Vistawall ZG-2000 System.
9. A qualified Structural Engineer should check the structural integrity of the curtainwall system to ensure that it complies with specification loading requirements and local condition.
PERFORMANCE
The curtain wall system is designed to meet the following performance standards:-
1. Air Infiltration - Infiltration does not exceed 1.08m³/h/m² for fixed areas of glazing and 0.55 m³/h/m of joint length at the opening windows at a static test pressure of 300Pa in accordance with ASTM E283.

2. Water penetration - There is to 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.
3. Structural load - The deflection of any member shall not exceed the consultant's specified deflection at the design wind load when tested in accordance with ASTM E330.

FABRICATION AND ASSEMBLY
1. Fabrication of the framework and assembly of transom shear blocks and mullion splices is carried out in the factory.
2. 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 to be performed by experienced installers in accordance with the installation instructions.

CLEANING
Upon completion, the curtain wall should be 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.