
GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this document. As such, these terms and their meanings may not correspond to standard industry meanings or usage of these terms.

“3mm fluorocarbon coating aluminum panel”	a 3mm-thick aluminum panel with a static fluorocarbon resin coating
“active breathing double-skin curtain wall”	a double-skin curtain wall system to realize the orderly air flow between the double skins by using mechanical ventilation devices
“attributable project area”	as used in this document, the total area of the curtain wall completed by us: (i) attributable project area for a completed project refers to the total area of the curtain wall completed by us, and the corresponding percentage refers to the percentage of total curtain wall area of the project attributable to us; (ii) attributable project area for a project in progress refers to the total area of the curtain wall to be completed by us pursuant to the project contract, as adjusted by the actual construction of the project, if necessary, and the corresponding percentage refers to the percentage of the total curtain wall area of the project attributable to us; and (iii) attributable project area for an uncommenced project refers to the total area of the curtain wall to be completed by us pursuant to the project contract, and the corresponding percentage refers to the percentage of the total curtain wall area of the project attributable to us
“back anchor granite curtain wall”	a curtain wall system composed of natural building stones as the surface panel, and where the back of the surface panel is fixed on the frame by a special anchor
“basket-weaved unitized curtain wall”	a unitized curtain wall system with basket weave pattern, which looks like longitude and woof interlacing together
“cantilever laminated glass fin”	a decorative component made of laminated glass cantilevering the curtain wall surface
“concaved segment cable net glass curtain wall”	a type of point-fixing curtain wall system, the supporting structure of which is composed of horizontal and vertical steel tensioned cables to form a single plane cable net, and of which glass surface is a triangular pyramid which is concaved inwards at the vertex joint of three slants
“curved unitized curtain wall”	a type of unitized curtain wall, the appearance of which forms a round curved columnar shape

GLOSSARY OF TECHNICAL TERMS

“displacement ability”	the ability of relative displacement of curtain wall units or components under load while not causing permanent deformation or damaging the structure safety and function
“double insulated energy-saving photovoltaic glass”	a type of insulated glass component which has two enclosed air interlayers, with one piece of the glass component installed with solar cell or solar film
“double insulated energy-saving unitized glass wall”	a unitized curtain wall system, the panel of which is composed of insulated glass with two air-insulating layers
“double silver coated Low-E insulating glass unit filled with argon”	a type of insulated glass component with one surface coated with double silver Low-E film and with the enclosed interlayer between the double glass filled with argon
“double silver coated Low-E tempered insulating glass unit”	insulated glass composed of tempered glass, where one piece of glass is coated with double silver Low-E film on one side
“double-skin curtain wall”	a combined curtain wall system composed of interior and exterior skins active or natural air cycles in between
“double-skin curtain wall with multi-colored laminated glass fin”	a double-skin curtain wall system with multi-colored laminated glass panels fabricated and installed on its exterior surface as decorative components
“ETFE”	ethylene tetrafluoroethylene, a type of plastic designed to have high corrosion resistance and strength over a wide temperature range
“exposed frame curtain wall”	a stick curtain wall system, the frame of which is exposed on the outer surface of the panel
“exposed frame stick curtain wall system”	a curtain wall system formed through the installation and assembly of mullion, transom and glazing panel on site in proper order, the frame component of which is exposed on the outer surface of the panel
“exterior cycle double-skin curtain wall”	a type of double-skin curtain wall with a closed interior skin, and of which exterior skin curtains air inlets and outlets which uses air natural convection or forced air ventilation to enable air circulation between the double skins
“fire stop curtain wall”	a special curtain wall system, which satisfies certain level of fire stop requirement in the building fire stop specification

GLOSSARY OF TECHNICAL TERMS

“fish-scaled unitized glass wall”	a unitized curtain wall system, with one unitized panel piled on certain part of another down to form a fish-scaled shape curtain wall
“french outward turning window”	a type of window of which bottom frame is close to the interior floor of the building and opens outward
“glass-fin-supporting point-fixing glass wall”	a curtain wall system composed of glazing panels, point-fixing supporting components and supporting glass fins, whereby the glass fin is perpendicular to the glazing panel, and the glazing panel is fixed on the glass fin through point-fixing supporting components
“granite and GRC panel curtain wall”	a stick curtain wall system composed of natural building granite and glass-fiber reinforced concrete panel
“intelligent control”	a type of control mechanism for the motor-controlled sun-shading louver system, which usually comprises of a signal sensor, central controller and louver driving device, whereby the central controller gives the orders to the louver driving device in response to the light intensity and light angle, which are transmitted by the signal sensor, so as to adjust the angles of louvers instantly in order to achieve the desired level of shade
“interior cycle double-skin curtain wall”	a type of double-skin curtain wall with a closed exterior skin, and of which interior skin contains air inlets and outlets to enable internal air circulation
“laminated insulating glass unit”	a type of insulated glass component composed of at least one piece of laminated glass
“large-angle multi-chamber drainage system design”	a type of system design for the tilt unitized curtain wall transoms which forms the inner-higher and outer-lower drainage slope on the unit transoms which causes the rain or condensation water accumulated in the multi-chamber mullions to be drained out of the building along the drainage slope of the transoms
“LEED”	Leadership in Energy & Environmental Design, a “green” building certification system established by U.S. Green Building Council, which provides third-party verification of building performance based on buildings location and environment, water efficiency, energy saving and reduction of air pollution, construction materials, and indoor environmental quality
“Low-E glass”	a type of coated glass with one surface coated with low-emission film

GLOSSARY OF TECHNICAL TERMS

“motor-controlled glass louver system”	a type sun-shading louver system which contains glass blades linked with multiple blades, and which is controlled by an electrical motor to regulate the shading angle
“PC panel” or “polycarbonate panel”	a type of panel mainly composed of polycarbonate and extruded by a co-extrusion technique
“perforated aluminum panel”	an aluminum curtain wall panel perforated with customized holes in the desired shape, quantity and location
“perforated stainless steel sheet”	a curtain wall stainless steel sheet perforated with customized holes in the desired shape, quantity and location
“segment unitized curtain wall”	a type of unitized curtain wall system of which horizontally adjacent units are connected at an angle to form successive segment unitized curtain wall systems
“semi-hidden unitized curtain wall”	a type of unitized curtain wall, with either its vertical or horizontal frame visible on the exterior surface
“serrated glass and aluminum panel mixed curtain wall”	a type of installed stick curtain wall with surface material composed of glass and aluminum panels interlaced together at a certain angle which shows its serrated form on a horizontal level
“single building”	individual building in an architectural complex
“single cable glass curtain wall” or “Single cable net point-fixing glass curtain wall”	a point-fixing curtain wall system whose supporting structure is composed of horizontal and vertical tensioned steel cables to form a single plane cable net structure and of which glazing panels is connected with cable nets through point-fixing supporting components
“steel structure cable point-fixing glass curtain wall”	a point-fixing glass curtain wall system with steel structure beams as its main supporting component and cables as supplementary supporting components, and of which glazing panels are connected to the supporting structure by point-fixing supporting components
“steel truss point-fixing glass curtain wall”	a point-fixing curtain wall system, in which the steel structural truss is used as the supporting structure of its glazing panels which are connected with the truss through point-fixing supporting components

GLOSSARY OF TECHNICAL TERMS

“stick structure silicone glass curtain wall”	a curtain wall system of which frame components are fully hidden under the exterior surface of its glazing panels, which is formed through the installation and assembly of mullion, transom and glazing panels on site
“structure silicone unitized curtain wall”	a curtain wall system of which stick components are fully hidden under the exterior surface of its glassing panels, which is made by first factory assembling mullion, transom and glazing panels to form complete units, and then connecting the units with each other on site
“tempered laminated glass unit”	a type of glass composed of two or more pieces of tempered glass affixed together through the middle film between them using heat and pressure
“tempered Low-E insulating glass”	a type of insulated glass component composed of tempered glass, which has a single surface of glass coated with low-emission film
“T-shaped steel structure silicone glass curtain wall”	a curtain wall system of which mullion and transom are made of T-shaped steel and whose frame components are completely hidden under the outer surface of its glazing panels
“U- shaped glass curtain wall”	a unitized curtain wall system in which the panels adopt the U-form glass components
“vertical motor-controlled sun-shading louver system”	a sun-shading louver system in which blades revolve around a vertical axis and are controlled by an electrical motor to regulate the shading angle
“XIR membrane”	a type of functional membrane, which is mainly compounded into the film layer of laminated glass to constitute the glass component and which potentially reduces the transmission rate of solar energy whilst ensuring the visible light transmission rate to be at least 70%