GLAZING SYSTEMS
Interactive Guide
GALLERY
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01  SINGLE SPAN MULLION DETAILS
System requirements for large single span openings

VS-1 can also be reversed to place the mullions and hardware on the exterior subject to structural calculations.

VS-1 pinch plate and Vario assembly locations determined by IGU size, geometry and wind loads.

VS-1 gravity fitting to support glazing deadload.

Horizontal sealant joint.

IGU captured by glazing channel.

8m unbroken span with single IGU and no horizontal joints.

TYPICAL JAMB DETAIL

TYPICAL HEAD + PARAPET DETAIL

TYPICAL CILL DETAIL

VS1 by GLASSOLUTIONS SAINT-GOBAIN CURTAIN WALLING REDEFINED
FACETED WALL LAYOUTS

VS-1 accommodates multiple geometries

VS-1 can be reversed to place the mullions and hardware on the exterior

Vertical sealant joint

VS-1 pinch plate and vario assembly locations determined by IGU size, orientation and wind loads

IGU captured by glazing channel

Typical head + parapet detail

Typical jambs detail

Vario point support detail

Typical cill detail
CANOPY AND DOOR DETAILS

VS-1 system supports integrated canopy and door portal hardware
04  EXTERIOR SHADING SUPPORT
VS-1 supports exterior elements through the vertical glazing joint
VS-1 SYSTEM INTERIOR VIEW

Additional floor space and extension of interior floor covering

01
02
03
04
05
06
07 08 09 10 11 12
06 INCLINED MULLION + SPLICE PLATE DETAIL

VS-1 accommodates significant changes in geometry and mullion lengths
COMPLEX GEOMETRY
Changes in mullion angle achieved with an internal splice plate
VS-1 SLAB EDGE DETAIL
Typical slab edge with Vario glazing support
VS-1 SYSTEM WITH VARIO GLAZING

Vario toggle glazing with concealed VS-1 system connector
CUSTOM PINCH PLATES
The VS-1 is a customisable kit of parts

VS-1 CAN ALSO BE REVERSED TO PLACE THE MULLIONS AND HARDWARE ON THE EXTERIOR TO PROVIDE SHADING OR TO SUPPORT SIGNAGE AND LIGHTING

VS-1 PINCH PLATE AND VARIOUS ASSEMBLY LOCATIONS DETERMINED BY IGU SIZE, GEOMETRY AND WIND LOADS

PINCH PLATES RETAIN GLAZING
STAINLESS STEEL SECURITY SCREW
THREADED ROD THROUGH TO PINCH PLATE BODY

VERTICAL SEALANT JOINT
ALL-GLASS CORNER DETAILS
Suspended gravity shelf to maintain all-glass corner detail
WINDOW ELEVATION
Narrow glazing shadow lines
VS-1 SYSTEM WITH VARIO GLAZING

Vario toggle glazing with concealed VS-1 system connector

CUSTOMISABLE MULLION PROFILES TO SUIT MULLION SPAN REQUIREMENTS OR PROJECT AESTHETICS
D2

VS-1 EXTERIOR MOUNT
Vario toggle glazing with mullions and hardware reversed

EXTERIOR MULLIONS REQUIRE STAINLESS STEEL KNIFE PLATES AND SYSTEM HARDWARE. GASKET INSTALLED FROM THE INTERIOR WITH WET SEAL TO THE EXTERIOR BETWEEN PINCH PLATE BODIES
VS-1 SYSTEM
Standard pinch plate connection
TYPICAL CILL DETAIL
Flush mounted glazing channel
VS-1 GRAVITY FITTING

Gravity fitting transfers glazing deadload at horizontal glazing joint

- Torque bolts to VS-1 mullion profile
- Detail through horizontal joint between gravity fittings
- Exterior face seal
- Extruded silicone gasket applied from the interior
- VS-1 gravity fitting transfers glazing deadload to mullion
- Horizontal sealant joint with silicone gasket and face seal
TYPICAL SLAB EDGE DETAIL
Seamless transition from large span to smaller curtain wall mullions

- Internal knife plate and stainless steel shear pin to fix mullion
- Gravity fitting and setting block support IGU deadload
- Silicone face seal
- Extruded silicone gasket notched around gravity fitting
- IGU with ceramic frit, or alternative, to conceal slab edge insulation and/or fire seal
- Folded metal closure to support insulation and/or fire seal, metal terminates into horizontal joint
- Internal knife plate for vertical slip connection
- Extruded VS1 mullion profile
VARIABLE MULLION DEPTHS
Seamless transition from large span to smaller curtain wall mullions

VARIE POINT SUPPORT DETAIL

VS-1 SYSTEM TRANSITIONS FROM LARGE TO SHORT SPAN MULLIONS. USED FOR TYPICAL CURTAIN WALL APPLICATIONS WITHOUT ANY EXTERIOR CHANGE IN DETAIL

GRAVITY FITTING DETAIL

INTERNAL KNIFE PLATE AND STAINLESS STEEL SHEAR PIN TO FIX MULLION

IGU WITH CERAMIC FRIT, OR ALTERNATIVE, TO CONCEAL SLAB EDGE INSULATION AND / OR FIRE SEAL

FOLDED METAL CLOSURE TO SUPPORT INSULATION AND / OR FIRE SEAL, METAL TERMINATES INTO HORIZONTAL JOINT

INTERNAL KNIFE PLATE FOR VERTICAL SLIP CONNECTION

VS-1 PINCH PLATE ASSEMBLY

LARGE SPAN MULLION FOR DOUBLE HEIGHT SPACE BELOW
TYPICAL HEAD PARAPET DETAIL
Folded metal parapet capping
D9  BALUSTRADE DETAIL
Continuation of curtain wall into balustrade glazing

- Cantilevered VS-1 Mullion
- Integrated Handrail Bracket through machined slot in mullion
- Open joints between balustrade glazing
- VS-1 Stainless Steel Shear Pin
- VS-1 Pinch Plate Assembly
- Stainless Steel Cantilever Plate Internal to Mullion
- Modified gravity to support balustrade deadload
VERTICAL PORTAL FROM METAL PLATE AT JAMB WITH CONCEALED MOUNTING BRACKET TO FLOOR BELOW

DOOR FRAME AND HARDWARE TO SUIT PROJECT REQUIREMENTS

SIDE LITE STRUCTURALLY GLAZED TO PORTAL JAMB PROFILE

D10 DOOR PORTAL JAMB DETAIL
Entrance doors integrated into portal frame
D11
VS-1 PORTAL PLATE ATTACHMENT
Vario toggle glazing and door portal

PORTAL TRANSM ON ABOVE DASHED AND FIXED TO MULLION

TRANSOM NOTCHED AROUND ADJACENT SIDE LITE

VS-1 PINCH PLATE BODY AND VARIO TOGGLE GLAZING ASSEMBLY

SILICONE GASKET AND FACE SEAL

VARIO TOGGLE GLAZED SIDE LITE
D12 [DOOR PORTAL TRANSFORM
Entrance doors integrated into portal frame

FOR DOUBLE DOORS THE Mullion AT MID SPAN CANNOT BE DEADLOADED AND IS THEREFORE SUSPENDED FROM THE FLOOR STRUCTURE ABOVE

SHEAR PIN AND SLOTTED CONNECTION

PORTAL TRANSOM FABRICATED FROM METAL PLATE

DOOR FRAME AND HARDWARE TO SUIT PROJECT REQUIREMENTS

PORTAL JAMB PLATE BEYOND
EXTERIOR SUPPORT BRACKET

VS-1 “Tee” bracket to support exterior features

“TEE” BRACKET MOUNTED TO MULLION WITH TORQUE BOLT

VERTICAL SEALANT JOINT IS FORMED AROUND THE “TEE” BRACKET MAINTAINING THE SAME EDGE CLEARANCE AS THE PINCH PLATE BODY. EXTRUDED GASKET IS SLOTTED AROUND THE PROJECTING PLATE OF THE “TEE” BRACKET

VS-1 "TEE" BRACKET SUPPORTS EXTERIOR ENTRANCE CANOPIES SHADING ELEMENTS, SIGNAGE OR LIGHTING

CANTILEVERED TWIN PLATE CANOPY SUPPORT ARMS
D14  TYPICAL JAMB DETAIL
Flush mounted glazing channel
D15 VS-1 ALL GLASS CORNER
Stainless steel gravity shelf support glazing deadload
TYPICAL WINDOW JAMB DETAIL
Zero sight line window with flush glazed IGU

VS-1 MULLION
CLAMPING BLOCK FIXES JAMB EXTRUSION TO MULLION PROFILE
CASTELATED WINDOW JAMB
FOUR BAR STAY HINGES
SILICONE GASKET
EXTRUDED FRAME FLUSH GLAZED INTO WINDOW VENT
VERTICAL SEALANT JOINT
CONTINUOUS GASKET CLOSES AGAINST THERMALLY IMPROVED JAMB FRAME
TYPICAL WINDOW HEAD DETAIL

Zero sight line window with flush glazed IGU

- VS-1 MULLION
- CLAMPING BLOCK FIXES JAMB EXTRUSION TO MULLION PROFILE
- CASTELATED WINDOW JAMB
- FOUR BAR STAY HINGES, PARALLEL PROJECTION OPTION ALSO AVAILABLE
D18 [ TYPICAL WINDOW CILL DETAIL
Zero sight line window with flush glazed IGU

- Continuous gasket closes against thermally improved jamb frame
- Extruded frame flush glazed into window vent
- Window cill extrusion
- Silicone gasket