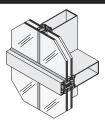


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01-J1

PAGE

Thermally Improved • Series 2100 Series 2200



SERIES 2100



SERIES 2200

SECTION J1

	Structural Silicone Vertical Glazed Curtain Wall	
SPECIFICATIONS		02-J1 and 03-J1
TECHNICAL DATA		 04-J1
SPECIAL FEATURES		 05-J1 and 06-J1
SHEAR BLOCK ASSEMBLY DE	TAILS	 07-J1 and 08-J1
SCREW SPLINE ASSEMBLY D	ETAILS	 09-J1 and 10-J1
PREASSEMBLED MULTI-LIGH		
CORNER DETAIL		 13-J1
TRANSITION DETAIL		 14-J1
TYPICAL DOOR DETAILS		 15-J1 thru 17-J1
WINDLOAD CHARTS		 18-J1 thru 24-J1
DEADLOAD CHARTS		 25-J1 and 26-J1
ACCESSORIES		 27-J1 thru 30-J1



Project: Hewitt Associates Building; Lincolnshire, IL

Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to ensure that products selected for use on projects comply with all applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware, and assumes no responsibility thereof.

The rapidly changing technology within the architectural aluminum products industry demands that U.S. Aluminum reserve the right to revise, discontinue or change any product line, specification or electronic media without prior written notice.

NOTE: Dimensions in parentheses () are millimeters unless otherwise noted. Of

ther metric units shown in this publication are:						
m - meter	Kg - kilogram					
Pa - pascal	KPa - kilopascal					
MPa - megapascal						

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J1

Specifications

5 ALUMINUM

Series 2100

Series 2200

SECTION 08 44 13 ALUMINUM CURTAIN WALL SYSTEMS

SERIES	FACE WIDTH	BACK MEMBER DEPTH	OVERALL DEPTH	GLAZING INFILL	GLAZING METHOD
2100 2200	2" (50.8)	2-7/8" (73) 4" (101.6) 5" (127)	4-15/16" (125.4) 6-1/16" (154) 7-1/16" (179.4)	1" (25)	Exterior

I. GENERAL DESCRIPTION

Work Included: Furnish all necessary materials, labor, and equipment for the complete installation of aluminum framing as shown on the drawings and specified herein. (Specifier Note: It is suggested that related items such as aluminum entrance doors, glass, and sealants be included whenever possible.)

Work Not Included: Structural support of the framing system, interior closures, and trim. (Specifier list other exclusions). Related Work Specified Elsewhere: (Specifier list).

QUALITY ASSURANCE

Drawings and specifications are based on Series 2100 or Series 2200 Curtain Wall Systems as manufactured by U.S. Aluminum. Whenever substitute products are to be considered, supporting technical literature, samples, drawings, and performance data must be submitted 10 days prior to bid in order to make a valid comparison of the products involved. Test reports certified by an independent test laboratory must be made available upon request.

PERFORMANCE REQUIREMENTS

Air Infiltration: shall not exceed 0.06 cfm/ft² (0.0003 m³ /sm²) when tested in accordance with ASTM E283 at a pressure differential of 6.24 psf (300 Pa.) Water Infiltration: shall be tested in accordance with ASTM E331 with a pressure differential of 15.0 psf (700 Pa.) Thermally, the grid members shall have a condensation resistance equal to or better than the area along the bottom of a 1" (25) sealed glass unit with standard metal spacer edge construction. (Note to Specifier: If system is a window application, add the following): Windows shall conform to the following requirements of CSA standard CAN/CSA-A440 Windows.

Air Infiltration: shall meet the FIXED rating.

Water Infiltration: shall meet the (select up to B7) rating. Wind load resistance shall meet the (select up to C5) rating. Intermediate mullions and horizontals shall be designed to withstand loading in accordance with the National Building Code of Canada. Condensation resistance temperature index for the framing system shall be a minimum of 60.6.

Structural performance shall be based on CSA standard CAN3-S157 "Strength Design in Aluminum" and a maximum deflection of L/175 of the span. Testing Procedures: ASTM 283, E 331, and E 330 - Laboratory performance testing. AAMA 503-08 - Newly installed curtain walls. AAMA 511-08 - Installed curtain walls after six months.

II. PRODUCTS MATERIALS

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 alloy T5 temper). Fasteners, where exposed, shall be aluminum, stainless steel or zinc plated steel in accordance with ASTM A 164. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from the aluminum. Glazing gaskets shall be E.P.D.M. elastomeric extrusions. System shall provide conventional glass support at horizontal, vertical, and perimeter members.

Series 2100 shall provide structural silicone support at intermediate verticals. Horizontal members and jamb configurations shall allow for pockets to receive E.P.D.M. elastomeric extruded glazing gaskets. Interior vertical glass spacers shall be extruded silicone compatible E.P.D.M. All materials that come in contact with the silicone should be tested for compatibility. Samples of aluminum vertical mullions should be submitted to the silicone manufacturer for

adhesion evaluation.

FINISH

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain... (Specify one of the following):

#11 Clear anodic coating

_#22 Dark Bronze anodic coating

#33 Black anodic coating A Fluoropolymer paint coating conforming with the requirements of AAMA 2605. Color shall be (Specify a U.S. Aluminum standard color).

FABRICATION

All mullions and horizontals shall have flexible (PVC) thermal break material located on exterior side of glass plane. Exterior glazing seal gasket shall be secured by extruded aluminum pressure plates fastened to main grid members. Provisions shall be made at all sealed horizontals to weep moisture accumulation to the exterior. A cover shall be snapped over pressure plate to show only a sharp, uninterrupted exterior profile.

Series 2200 framing members shall provide for straight-in glazing on all sides, with clean sight lines and no projecting stops or face joints. Vertical and horizontal framing members shall have a nominal width of 2" (50.8). Overall depth of system shall be (Specify). System shall provide for horizontal framing so that all fasteners at intersection of horizontal and vertical members will be concealed. There shall be no exposed fasteners at perimeter sections. Series 2100 system shall accommodate 1" (25) glazing infill and framing system shall provide a flush glazing appearance with no intermediate verticals visible from the outside.

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SECTION 08 44 13 ALUMINUM CURTAIN WALL SYSTEMS

III. EXECUTION INSTALLATION

All glass framing shall be set in correct locations as shown in the details and shall be level, square, plumb, and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between framing and the building structure shall be sealed in order to secure a watertight installation. Glass shall be set from outside. Structural silicone shall be applied from inside and silicone weatherseal from outside (after structural silicone has fully cured). Reusable twist-in temporary glass retainers shall be used during structural curing period. Structural silicone must be applied in strict accordance with the silicone manufacturer's instruction for surface preparation, priming, application, and curing time.

PROTECTION AND CLEANING

After installation the General Contractor shall adequately protect exposed portions of aluminum surfaces from damage by grinding and polishing compounds, plaster, lime, acid, cement or other contaminants. The General Contractor shall be responsible for final cleaning.



Project: Meydenbauer Convention Center; Bellevue, WA

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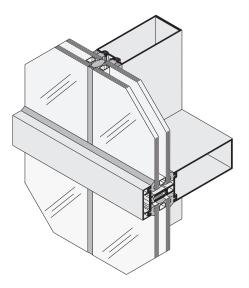
Series 2200

Technical Data

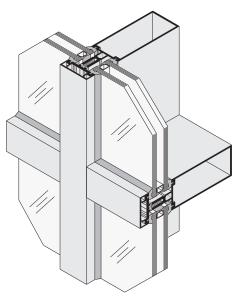


Thermally Improved • Series 2100 • Series 2200

Based on the popular Series 3150/3250, Series 2100/2200 Curtain Wall Systems offer a reduced sightline for low to mid-rise applications where exterior glazing is desired. Complementing the efficiency of insulating glass, Series 2100/2200 Curtain Walls are thermally improved by a continuous thermal spacer interlocked with the horizontal and vertical pressure plates. Dual colors can be achieved by specifying different finishes for the exterior face covers and interior mullions. Extruded aluminum shear blocks with concealed mechanical attachment allows for a concealed horizontal to vertical joinery without exposed screws. These joint intersections also have concealed lnjection Molded End Dams for controlling any infiltrated water. Series 2100/2200 Curtain Walls are designed for both Shear Block and Screw Spline installation. The Screw Spline System incorporates a unique split vertical mullion for straight-in installation of each bay, special perimeter members for easy anchorage to the structure, and the option to shop install and seal end dams. Three mullion depths are offered to accommodate various structural loads.



SERIES 2100 Structural Silicone Vertical Glazed Curtain Wall



SERIES 2200 Captured Vertical Glazed Curtain Wall

SERIES	WIDTH	DEPTH	GLAZING INFILL	APPLICATIONS
2100 2200	2" (50.8)	4-15/16" (125.4) 6-1/16" (154) 7-1/16" (179.3)	1" (25) and/or 1/4" (6)	Low-Rise to Mid-Rise Buildings Where Exterior Glazing is Desired

For custom size and profile extrusions please visit usalum.com

	GLASS SIZES*
For Series 2100 Glass Width	= Daylight Opening + 1-5/8" (41.2) at Intermediate = Daylight Opening + 1-5/16" (33.3) at Jambs
Glass Height	= Daylight Opening + 1" (25.4)
For Series 2200 Glass Width Glass Height	= Daylight Opening + 1" (25.4) = Daylight Opening + 1" (25.4)

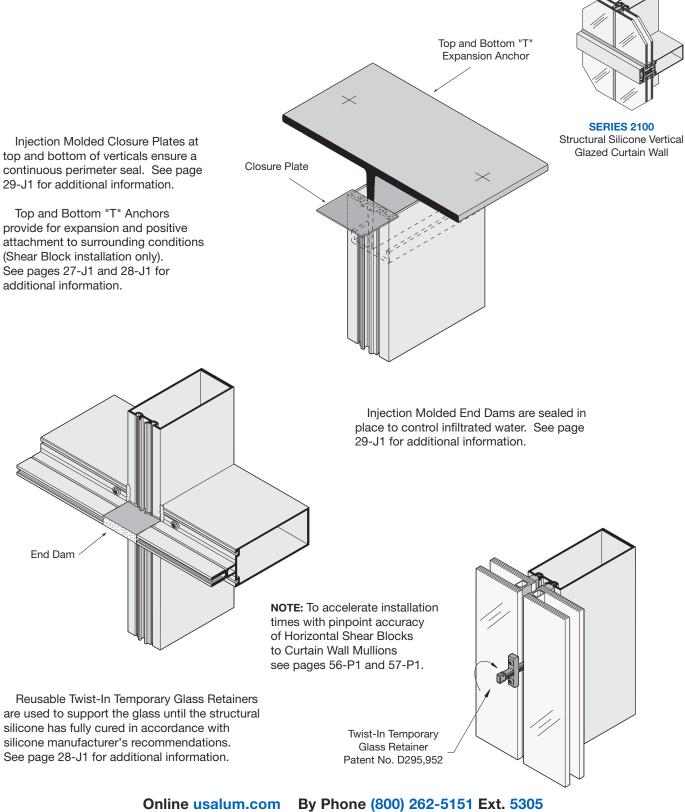
*These formulae do not take into account glass tolerances. Consult glass manufacturer before ordering glass.



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Special Features



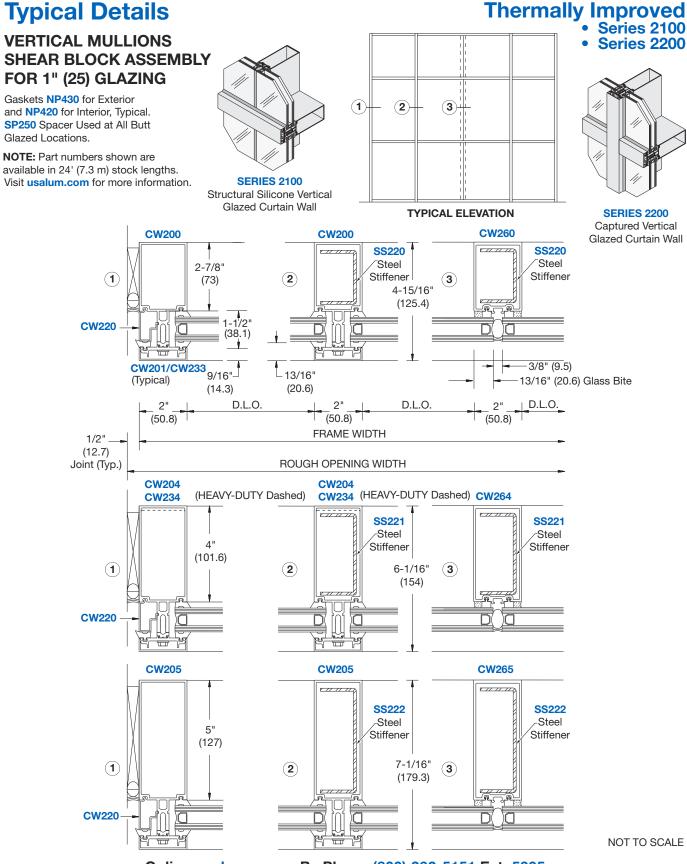
Thermally Improved • Series 2200

Perimeter Trim Two Piece Vertical Mullions offer Screw Spline attachment of horizontals, and allow for shop assembly of frame panels. SERIES 2200 Unique perimeter members Captured Vertical simplify anchorage to structure. Glazed Curtain Wall Injection Molded End Dams are sealed in place to control infiltrated water. See page 29-J1 for additional information. End Dam NOTE: To accelerate installation times with pinpoint accuracy of Horizontal Shear Blocks to Curtain Wall Mullions see pages 56-P1 and 57-P1. Extruded Aluminum Shear Blocks are furnished to ensure extra strong horizontal to vertical joinery. See page 29-J1 for additional information. AM



Typical Details

CURTAIN WALLS



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07-J1

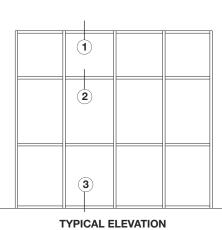
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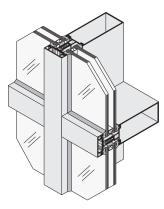
Typical Details

HORIZONTAL MULLIONS SHEAR BLOCK ASSEMBLY FOR 1" (25) GLAZING

Gaskets **NP430** for Exterior and **NP420** for Interior, Typical.

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit **usalum.com** for more information.



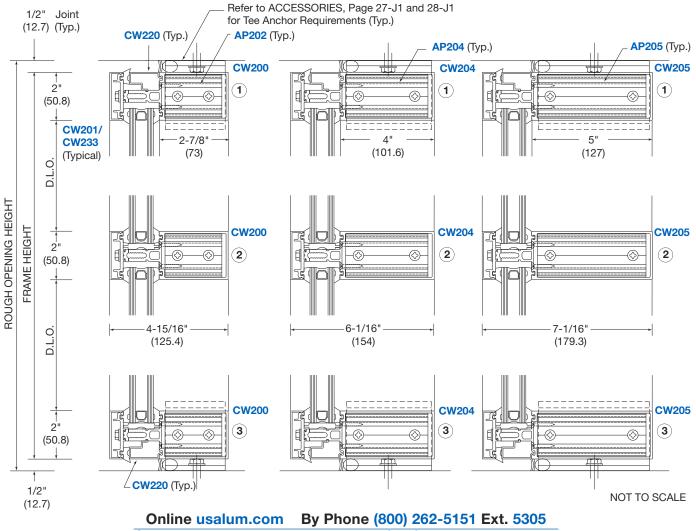


Series 2200

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SERIES 2200 Captured Vertical Glazed Curtain Wall



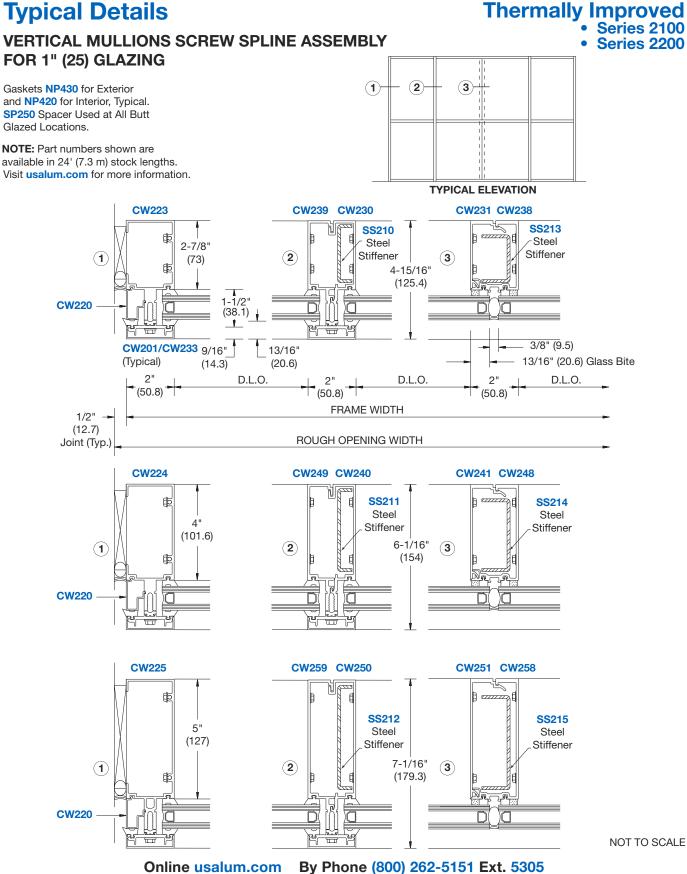
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Typical Details



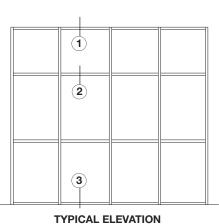
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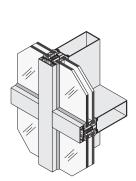
Typical Details

HORIZONTAL MULLIONS SCREW SPLINE ASSEMBLY FOR 1" (25) GLAZING

Gaskets **NP430** for Exterior and **NP420** for Interior, Typical.

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit **usalum.com** for more information.



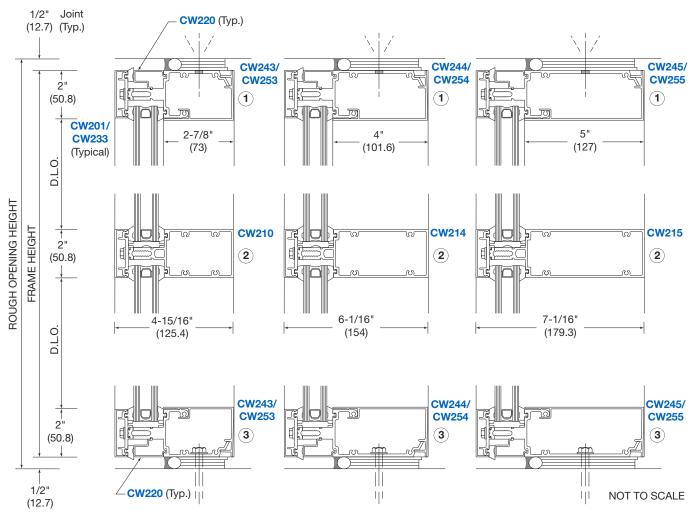


Series 2100

Series 2200

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Typical Details

VERTICAL MULLIONS PREASSEMBLED MULTI-LIGHT UNITS FOR 1" (25) GLAZING

CW223

Æ 200

2-7/8"

Gaskets NP430 for Exterior and NP420 for Interior, Typical.

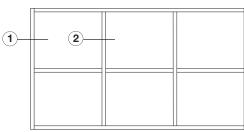
NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.

CW273

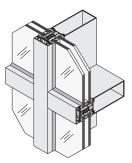
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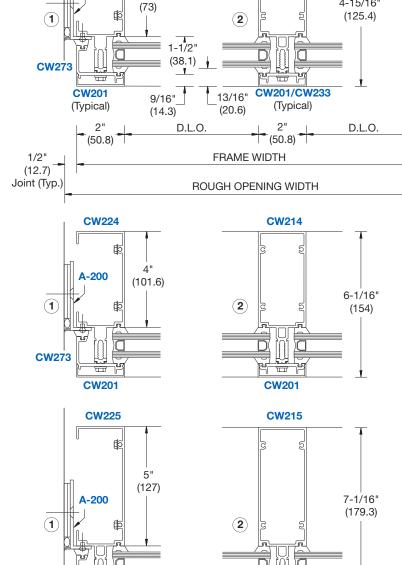
CW201



TYPICAL ELEVATION



SERIES 2200 Captured Vertical Glazed Curtain Wall



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CW201

1

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CW210

4-15/16"

J1

11-J1

Series 2200

Typical Details

HORIZONTAL MULLIONS PREASSEMBLED MULTI-LIGHT UNITS FOR 1" (25) GLAZING

Gaskets NP430 for Exterior and NP420 for Interior, Typical.

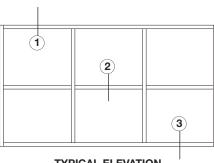
NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.



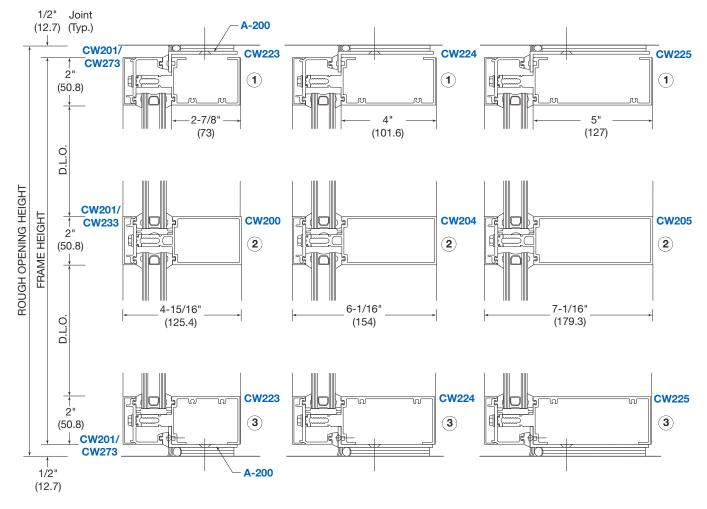
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Series 2200

SERIES 2200 Captured Vertical Glazed Curtain Wall







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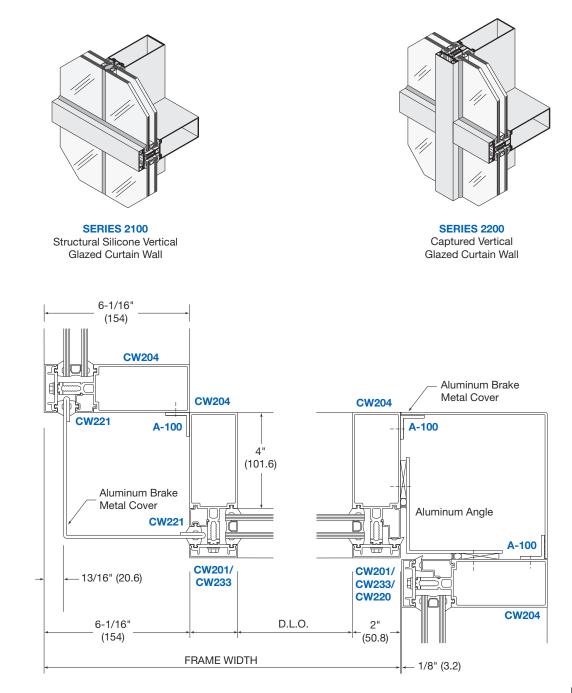
Typical Details

FOR 1" (25) GLAZING

90 DEGREE INSIDE AND OUTSIDE CORNER CONDITION

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NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit usalum.com for more information.

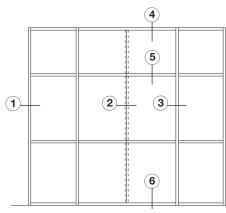


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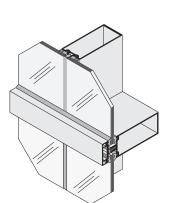
Typical Details

1/4" (6) TRANSITION GLAZING

NOTE: Part numbers shown are available in 24' (7.3 m) stock lengths. Visit **usalum.com** for more information.



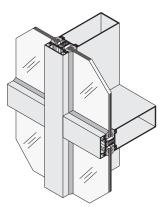
TYPICAL ELEVATION



SERIES 2100 Structural Silicone Vertical Glazed Curtain Wall

1/2"

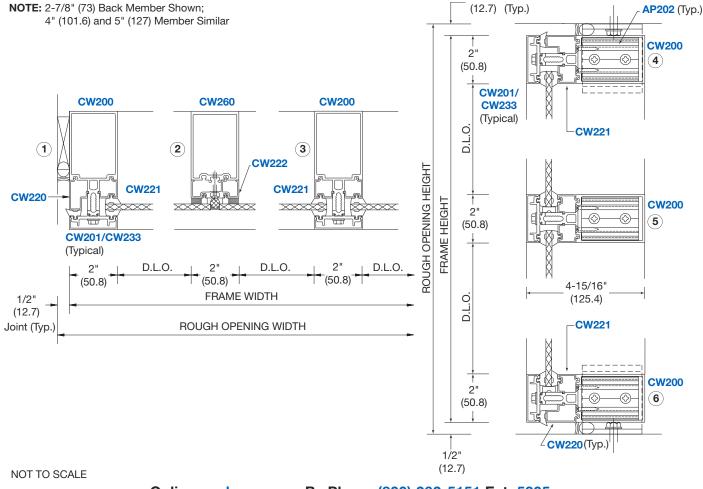
Joint



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Series 2200

SERIES 2200 Captured Vertical Glazed Curtain Wall







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Series 2100 Series 2200

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15-J1

DOOR FRAMING

Gaskets **NP430** for Exterior and **NP420** for Interior, Typical.

NOTE: Doors are available in stock to accommodate 36" x 84" (914 x 2134) and 72" x 84" (1829 x 2134) door openings. Visit **usalum.com** for more information.

NOTE: 2-7/8" (73) Back Member Shown; 4" (101.6) and 5" (127) Members Shown in Parentheses

CW201/

CW233/

CW220

1/8"

(3.2)

D-201

D-101

3/16"

(4.8)

1/2"

(12.7)

1/8"

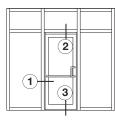
(3.2)

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1-3/4"

(44.5)

о. О



OFFSET HUNG DOOR

ΠT

CW201/

CW233/

CW220

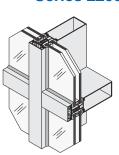
1/16"

(1.6)

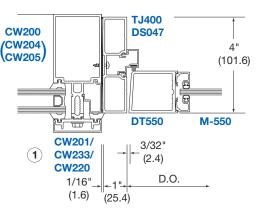
CW200

(CW204) (CW205)

(1)



SERIES 2200 Captured Vertical Glazed Curtain Wall



CW200

(CW204)

CW205

(2)

J-400

Door Sweep

Fasteners

BW200

TH250 Threshold

With Concealed

(3)

-🔗

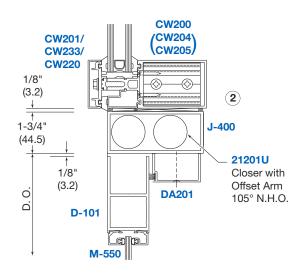
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ଇ ଲ M-550

C) (D

M-550

DS047



TJ400

DS047

12:55

(25.4)

3/8"

(9.5)

D.O.

DT550/M-550

8

35083 Continuous

Gear Hinge

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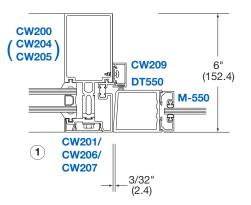
Typical Details

DOOR FRAMING WITH FLUSH DOOR ADAPTOR

(For Series 2200 Only)

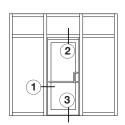
NOTE: 2-7/8" (73) Back Member Shown; 4" (101.6) and 5" (127) Members Shown in Parentheses

NOTE: Doors are available in stock to accommodate 36" x 84" (914 x 2134) and 72" x 84" (1829 x 2134) door openings. Visit **usalum.com** for more information.

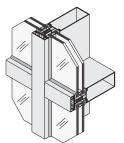




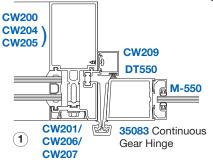
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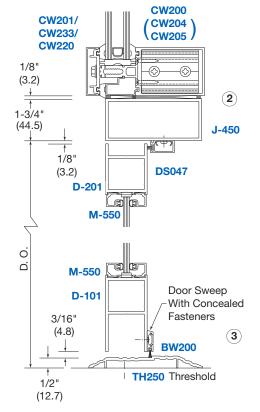


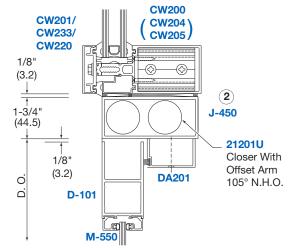
OFFSET HUNG DOOR



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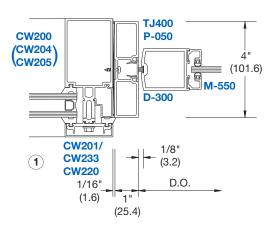


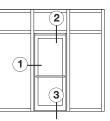
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DOOR FRAMING

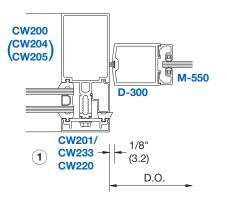
NOTE: 2-7/8" (73) Back Member Shown; 4" (101.6) and 5" (127) Members Shown in Parentheses

NOTE: Doors are available in stock to accommodate 36" x 84" (914 x 2134) and 72" x 84" (1829 x 2134) door openings. Visit **usalum.com** for more information.

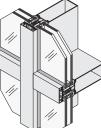




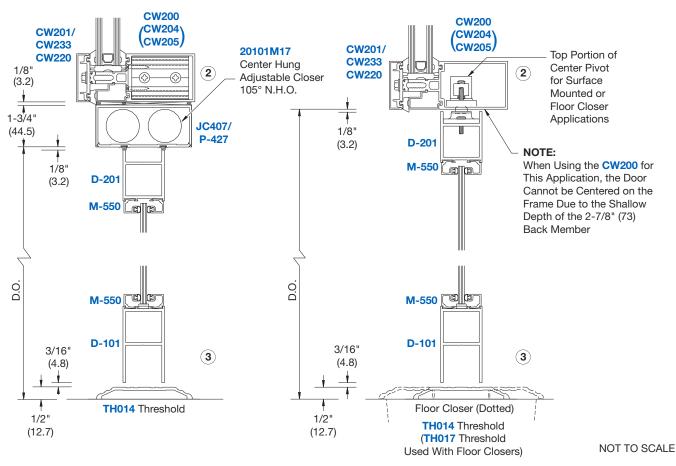
CENTER HUNG DOOR



Series 2100
Series 2200



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Windload Charts



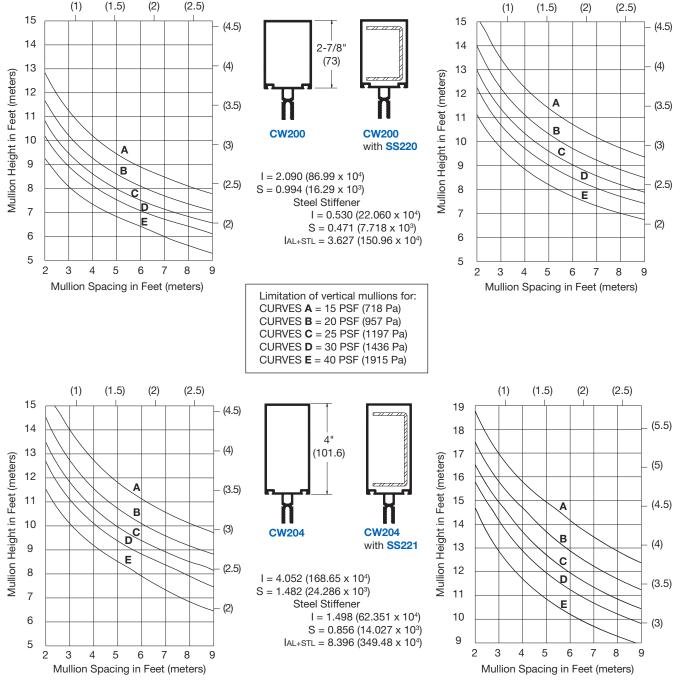
Series 2100

Series 2200

CAPTURED VERTICAL MULLIONS FOR 1" (25) GLAZING SHEAR BLOCK ASSEMBLY

Deflection criteria to be in accordance with AAMA TIR-A11 - L/175 or L/240 + 1/4" (6.4 mm) for spans greater than 13'-6" (4.1 m) but less than 40'-0" (12.2 m). Codes and specifications may vary. No single lite of glass shall deflect more than 3/4" (19 mm). Glass is not considered as contributing to resistance of deflection. Aluminum alloy 6063-T6 allowable stress for windload is 15,200 psi. (89 MPa), and steel reinforcing allowable stress for windload is 21,600 psi. (183 MPa).

These charts include unbraced length analysis and are based on at least one horizontal being placed at the midpoint of the span. For other applications, please contact U.S. Aluminum Technical Sales at (800) 262-5151, or visit our web site at **usalum.com**.



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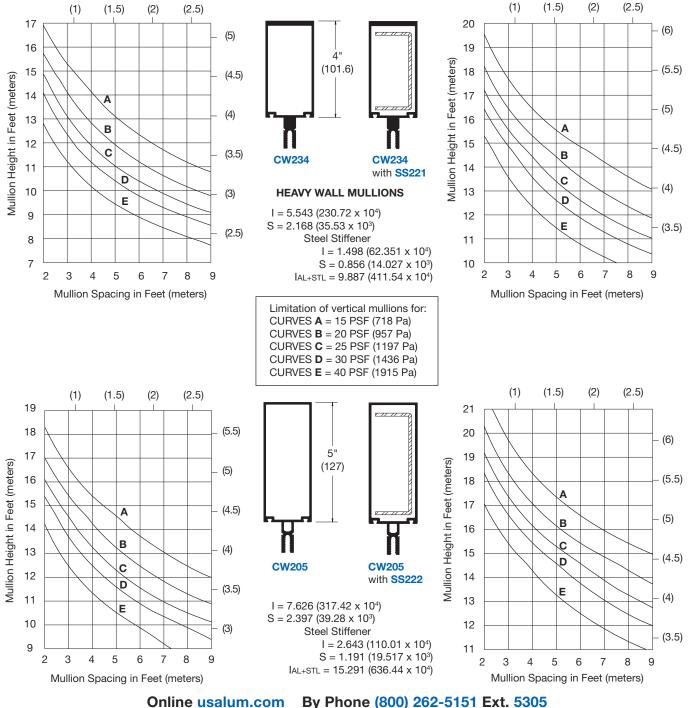
Windload Charts

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CAPTURED VERTICAL MULLIONS FOR 1" (25) GLAZING SHEAR BLOCK ASSEMBLY

Deflection criteria to be in accordance with AAMA TIR-A11 - L/175 or L/240 + 1/4" (6.4 mm) for spans greater than 13'-6" (4.1 m) but less than 40'-0" (12.2 m). Codes and specifications may vary. No single lite of glass shall deflect more than 3/4" (19 mm). Glass is not considered as contributing to resistance of deflection. Aluminum alloy 6063-T6 allowable stress for windload is 15,200 psi. (89 MPa), and steel reinforcing allowable stress for windload is 21,600 psi. (183 MPa).

These charts include unbraced length analysis and are based on at least one horizontal being placed at the midpoint of the span. For other applications, please contact U.S. Aluminum Technical Sales at (800) 262-5151, or visit our web site at **usalum.com**.



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Windload Charts

CAPTURED VERTICAL MULLIONS SCREW SPLINE ASSEMBLY FOR 1" (25) GLAZING

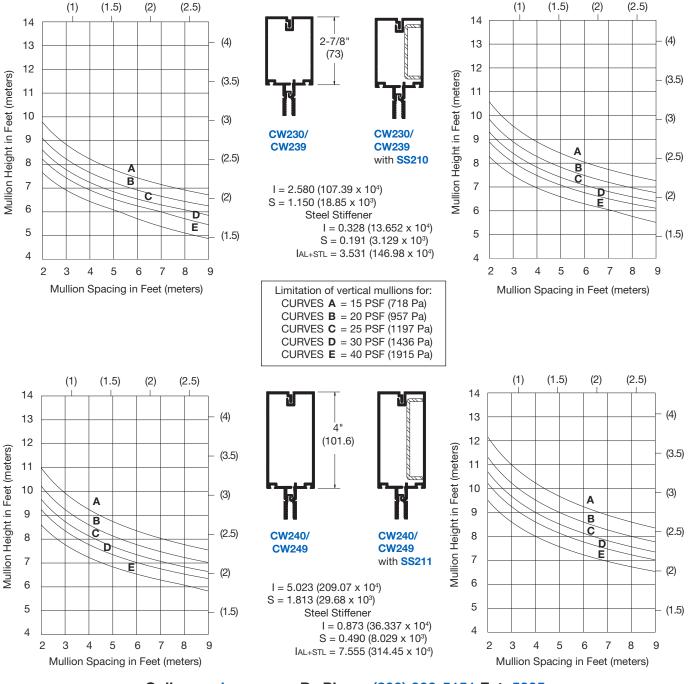
Deflection criteria to be in accordance with AAMA TIR-A11 - L/175 or L/240 + 1/4" (6.4 mm) for spans greater than 13'-6" (4.1 m) but less than 40'-0" (12.2 m). Codes and specifications may vary. No single lite of glass shall deflect more than 3/4" (19 mm). Glass is not considered as contributing to resistance of deflection. Aluminum alloy 6063-T6 allowable stress for windload is 15,200 psi. (89 MPa), and steel reinforcing allowable stress for windload is 21,600 psi. (183 MPa).

Thermally Improved

Series 2100

Series 2200

These charts include unbraced length analysis and are based on at least one horizontal being placed at the midpoint of the span. For other applications, please contact U.S. Aluminum Technical Sales at (800) 262-5151, or visit our web site at **usalum.com**.





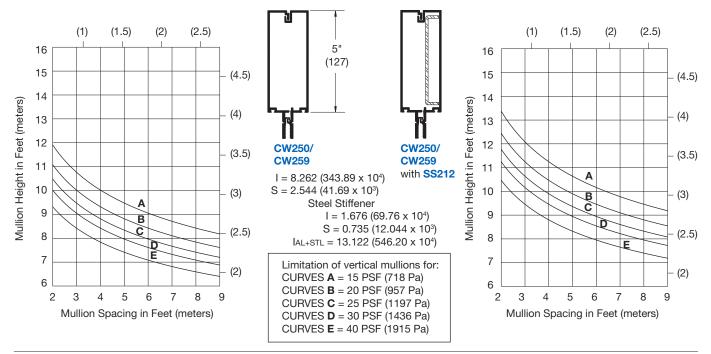
Windload Charts

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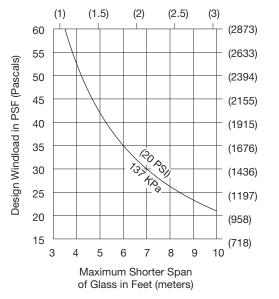
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Structural Silicone Chart



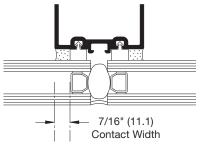
Stress on structural silicone should not exceed 20 PSI (137 KPa) for a 6:1 safety factor.

Series 2100 offers a contact width of 7/16" (11.1).

NOTE: The maximum shorter span of glass may be the width or the height dimension

E.G. for 5' x 7' (1.52 m x 2.13 m) check 5' (1.52 m) for 7' x 5' (2.13 m x 1.52 m) check 5' (1.52 m)

THESE LIMITATIONS ARE RELATED ONLY TO THE SILICONE JOINT CAPABILITY. ALUMINUM MEMBERS SHOULD ALSO BE CHECKED FOR WINDLOAD AND DEADLOAD.



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Windload Charts

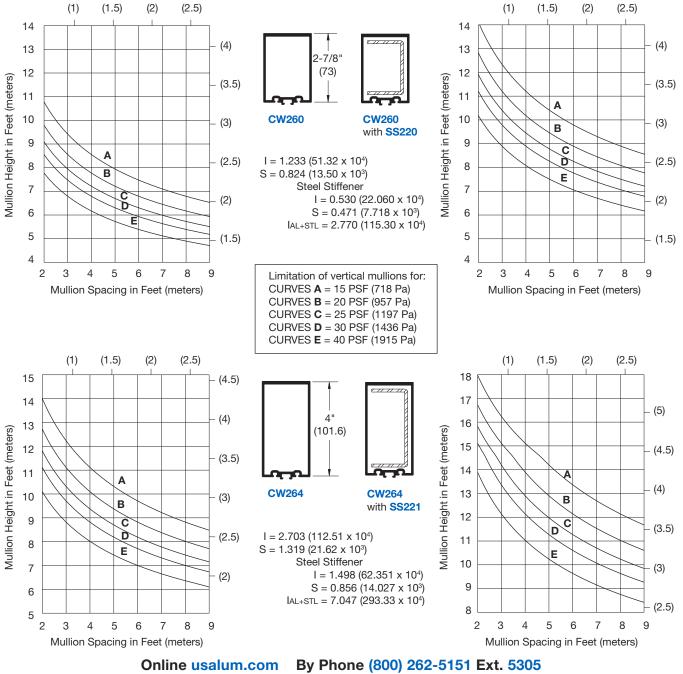


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STRUCTURAL SILICONE GLAZED VERTICAL MULLIONS SHEAR BLOCK ASSEMBLY FOR 1" (25) GLAZING

Deflection criteria to be in accordance with AAMA TIR-A11 - L/175 or L/240 + 1/4" (6.4 mm) for spans greater than 13'-6" (4.1 m) but less than 40'-0" (12.2 m). Codes and specifications may vary. No single lite of glass shall deflect more than 3/4" (19 mm). Glass is not considered as contributing to resistance of deflection. Aluminum alloy 6063-T6 allowable stress for windload is 15,200 psi. (89 MPa), and steel reinforcing allowable stress for windload is 21,600 psi. (183 MPa).

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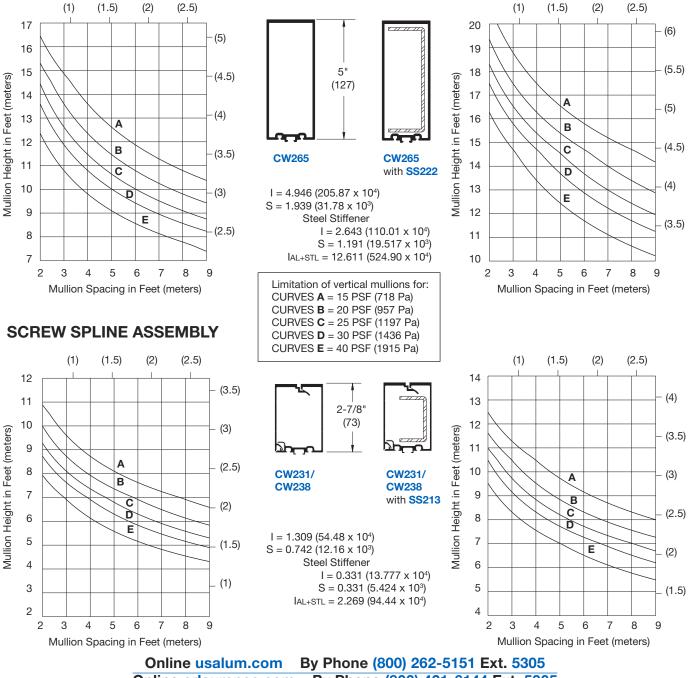
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USALUMINUM Windload Charts

STRUCTURAL SILICONE GLAZED VERTICAL MULLIONS SHEAR BLOCK ASSEMBLY FOR 1" (25) GLAZING

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Windload Charts



Deflection criteria to be in accordance with AAMA TIR-A11 - L/175 or L/240 + 1/4" (6.4 mm) for spans greater than 13'-6" (4.1 m) but less than 40'-0" (12.2 m). Codes and specifications may vary. No single lite of glass shall deflect more than 3/4" (19 mm). Glass is not considered as contributing to resistance of deflection. Aluminum alloy 6063-T6 allowable stress for windload is 15,200 psi. (89 MPa), and steel reinforcing allowable stress for windload is 21,600 psi. (183 MPa).

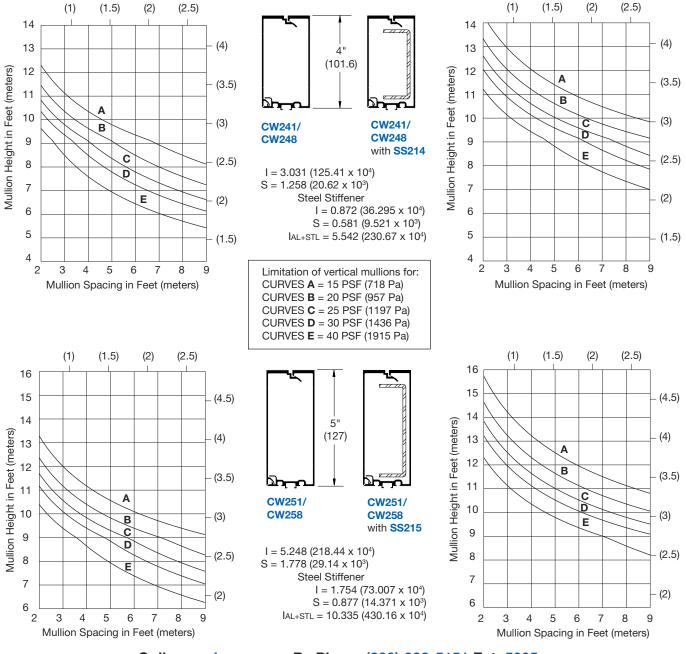
ALUMIN

Series 2100

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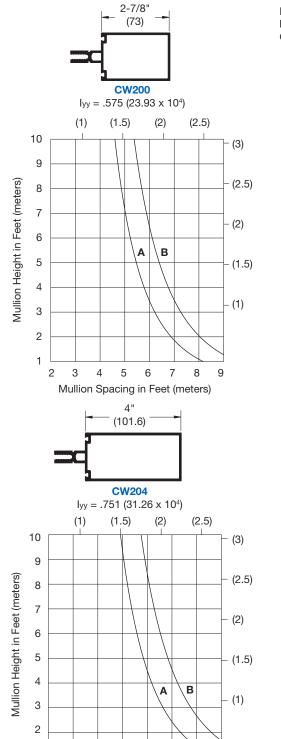
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Deadload Charts

HORIZONTAL MULLIONS SHEAR BLOCK ASSEMBLY FOR 1" (25) GLAZING



Mullion Spacing in Feet (meters)

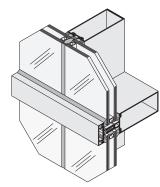
1

2 3 4 5 6 7 8 9

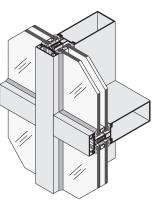
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Deadload charts are based on 1/8" (3.2) maximum deflection at the center point of the horizontal member and on a glass weight of 6.5 psf (31.74 Kg/m²). Glass shall rest on two setting blocks located at: CURVES **A:** 1/4 points

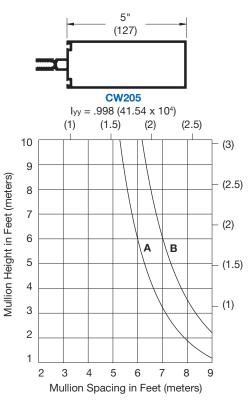
CURVES B: 1/8 points or 8" (203.2) from corners, whichever is larger.



SERIES 2100 Structural Silicone Vertical Glazed Curtain Wall

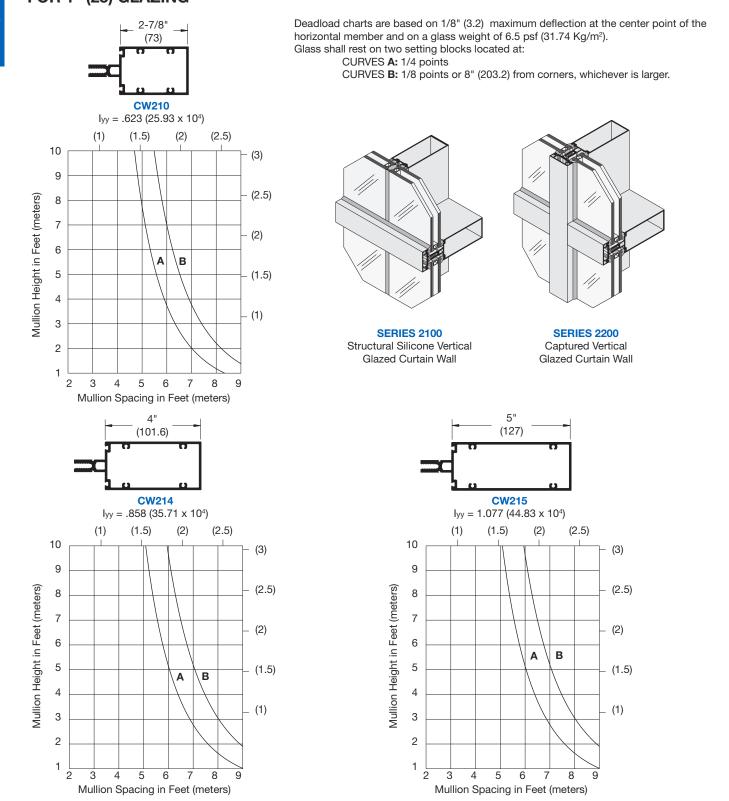


SERIES 2200 Captured Vertical Glazed Curtain Wall



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Deadload Charts HORIZONTAL MULLIONS SCREW SPLINE ASSEMBLY FOR 1" (25) GLAZING



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Accessories

FOR 1/4" (6) AND 1" (25) GLAZING

CURTAIN WALLS

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PART	DETAIL	DECODIDITION	PKG.	FOR	MULLION DEP	THS
NO.	DETAIL	DESCRIPTION	QTY.	2-7/8" (73)	4" (101.6)	5" (127)
AP311		Wall Jamb Anchor at Head and Sill for CW200	6	•		
AP315		Wall Jamb Anchor at Head and Sill for CW260	6	•		
AP312		Wall Jamb Anchor at Head and Sill for CW204	6		•	
AP314		Wall Jamb Anchor at Head and Sill for CW234	6		•	
AP316		Wall Jamb Anchor at Head and Sill for CW264	6		•	
AP313		Wall Jamb Anchor at Head and Sill for CW205	6			•
AP317		Wall Jamb Anchor at Head and Sill for CW265	6			•
AP240		Intermediate Vertical Anchor at Head and Sill for CW200	12	•		
AP260		Intermediate Vertical Anchor at Head and Sill for CW260	12	•		
AP244		Intermediate Vertical Anchor at Head and Sill for CW204	12		•	

Accessories

FOR 1/4" (6) AND 1" (25) GLAZING

	-		0) 262-5151 E 300) 421-6144		
	Edge Block 1-1/4" x 4" (31.8 x 101.6)	100	•	•	
	Faterit No. D293,932				



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PART	DETAIL	DECODIDITION	PKG.	FOR	MULLION DEP	THS
NO.	DETAIL	DESCRIPTION	QTY.	2-7/8" (73)	4" (101.6)	5" (127)
AP255		Intermediate Vertical Anchor at Head and Sill for CW234	12		•	
AP264		Intermediate Vertical Anchor at Head and Sill for CW264	12		•	
AP245		Intermediate Vertical Anchor at Head and Sill for CW205	12			•
AP265		Intermediate Vertical Anchor at Head and Sill for CW265	12			•
SL284		Mullion Splice Sleeve for 4" (101.6) Mullions	12		•	
SL285		Mullion Splice Sleeve for 5" (127) Mullions	12			•
NP430	e -	Exterior Gasket	250' Roll	•	•	•
NP420		Interior Gasket	250' Roll	•	•	•
SP250		Spacer Gasket for Butt Glaze	250' Roll	•	•	•
RG635		Temporary Glass Retainer for Butt Glaze. Patent No. D295,952	50	•	•	•
SB240		Edge Block 1-1/4" x 4" (31.8 x 101.6)	100	•	•	•



Accessories

FOR 1/4" (6) AND 1" (25) GLAZING

CURTAIN WALLS

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PART	DETAIL	DESCRIPTION	PKG.	FOR MULLION DEPTHS		THS
NO.	DETAIL	DESCRIPTION	QTY.	2-7/8" (73)	4" (101.6)	5" (127)
AP202		Shear Block for 2-7/8" (73) Mullions (Includes screws)	20	•		
AP204		Shear Block for 4" (101.6) Mullions (Includes screws)	20		•	
AP205		Shear Block for 5" (127) Mullions (Includes screws)	20			•
AP287	Use for last bay horizontals	Shear Clip for 2-7/8" (73) Mullions (Includes Screws)	20	•		
AP404	Use for last bay horizontals	Shear Clip for 4" (101.6) Mullions (Includes Screws)	20		•	
AP517	Use for last bay horizontals	Shear Clip for 5" (127) Mullions (Includes Screws)	20			•
HD475		End Dam for Captured Mullions	50	•	•	•
WD220	the second secon	End Dam for Butt Glaze Mullions	50	•	•	•
CP220		Closure Plate for Captured Mullions	20	•	•	•
CP271		Closure Plate for Butt Glaze Mullions	20	•	•	•
CW368	0	Temporary Glass Retainer for Captured Mullions	50	•	•	•
MS222		Screw for Pressure Bar 1/4"-20 x 1" (25) HWHCS with SRG5	200	•	•	•
ST251		Screw for Screw Spline Assembly #10 x 1" (25) HWH SMS	200	•	•	•

Accessories

FOR 1/4" (6) AND 1" (25) GLAZING

NO.	DETAIL	DESCRIPTION	QTY.	2-7/8" (73)	4" (101.6)	5" (127)
SB220		Setting Block for 1/4" (6) Glass; 4" (101.6) Long	100	•	•	•
SB221		Setting Block for 1" (25) Glass; 4" (101.6) Long	100	•	•	•
DJ020		Drill Jig for Captured Vertical Mullions	1	•	•	•
DJ021	0000 0000 0000	Drill Jig for Structural Glaze Vertical Mullions	1	•	•	•
SS210		Steel Stiffener Fits in: CW230, CW239	16' (4.88 m) Stock Length	•		
SS211		Steel Stiffener Fits in: CW240, CW249	16' (4.88 m) Stock Length		•	
SS212		Steel Stiffener Fits in: CW250, CW259	16' (4.88 m) Stock Length			•
SS213		Steel Stiffener Fits in: CW231, CW238	16' (4.88 m) Stock Length	•		
SS214		Steel Stiffener Fits in: CW241, CW248	16' (4.88 m) Stock Length		•	
SS215		Steel Stiffener Fits in: CW251, CW258	16' (4.88 m) Stock Length			•
SS220		Steel Stiffener Fits in: CW200, CW260	16' (4.88 m) Stock Length	•		
SS221		Steel Stiffener Fits in: CW204, CW234, and CW264	16' (4.88 m) Stock Length		•	
SS222		Steel Stiffener Fits in: CW205, CW265	16' (4.88 m) Stock Length			•

PKG.

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FOR MULLION DEPTHS