CW-250
1 Inch
Installation Manual
7th Edition

February 2005
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GENERAL INFORMATION:

The CW-250 curtain wall system is intended to be used by glazing professionals with appropriate experience. Subcontractors without this experience should employ a qualified person to provide field instruction and project management.

Vistawall does not control the application nor selection of its product configurations, sealant or glazing material and assumes no responsibility thereof. It is the responsibility of the owner, architect and installer to make these selections in strict compliance with applicable laws and building codes.

Variations on the details shown are inevitable and are not the responsibility of Vistawall when drawn by others. Vistawall strongly encourages its customers to use its Engineering department for calculations and shop drawings.

PROTECTION AND STORAGE:

Handle the material carefully. Do not drop from the truck. Stack with adequate separation so that the material will not rub together. Store material off the ground. Protect against the elements and other construction hazards by using a well-ventilated covering. Remove material from package if it is wet or is located in a damp area. Please also reference AAMA publication “Care and Handling of Architectural Aluminum From Shop to Site.”

CHECK MATERIAL:

Check glass dimensions for thickness. Some glass manufacturers are very liberal with their quality control standards. Vistawall cannot be held responsible for gaskets that are not water tight due to extreme glass tolerances. However, given advance notice, Vistawall will attempt to provide an alternate gasket for a nominal charge.

Check all material upon arrival for quality and to assure against shipping damage. Any visible damage must be noted on the freight bill at the time of receipt. If a claim is required, then receiving party must process a claim with the freight company.

Completely check construction that will receive your material against contract documents. Notify the general contractor by letter of any discrepancies before proceeding with the work. Failure to do so constitutes acceptance of work by other trades.

Check shop drawings and installation instructions to become familiar with the project. The shop drawings take precedence and include specific details for the project. The installation instructions are of a general nature and cover the most common conditions. Due to varying job conditions; all sealant used should be approved by the sealant manufacturer to insure they will function for conditions shown on instructions and shop drawings. They must be compatible with all surfaces in which adhesion is required, including other sealant surfaces. Use primers where directed by manufacturer of sealant. Be sure to properly store sealant at the recommended temperatures and check sealant for remainder of shelf life before using.
FIELD CONDITIONS:

All material to be installed must be plumb, level and true. Aluminum to be placed in direct contact with masonry or incompatible material should be isolated with a heavy coat of zinc-chromate, bituminous paint or non-metallic material.

After sealant is set and a representative amount of the wall has been glazed (250 square feet of more) run a water hose test to check installation. On large jobs hose test should be repeated during glazing operation. Test should be conducted in accordance with AAMA 501.2 specifications.

Coordinate protection of installed materials with general contractors and other trades.

CLEANING MATERIALS:

Cement, plaster, terrazzo, alkaline and acid based materials used to clean masonry are very harmful to finishes and should be removed with water and mild soap immediately or permanent staining will occur. A spot test is recommended before any cleaning agent is used.

EXPANSION JOINTS:

Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at nominal size. Actual dimensions may vary due to perimeter conditions and/or differences in metal temperature between the time of fabrication and the time of installation. For example, a 12 foot unrestrained length of aluminum can expand or contract 3/32 of an inch over a 50 F change. Any movement potential should be accounted for at the time of the installation.

THERMAL IMPROVEMENT SUGGESTIONS:

To maintain or improve your wall installation the following items should be considered.

A. Blinds or drapes prevent warm air from washing the window.

B. Warm air ventilators too far from the window will not adequately wash the window with air to prevent condensation.

C. In extreme conditions the fan of the heating system should not cycle on and off, but should run continuously.

D. Some heating systems have a water injection feature that can raise humidity levels. The higher the humidity level the more likely condensation or frost will form. Raising the temperature and reducing humidity will usually solve the problem.

E. On rare occasions an extremely cold storm may cause frost to appear on the glass framing. A space heater and electric fan blowing along the plane of the window wall can reduce or eliminate this temporary condition.

Please note: Some portions of this product are covered by patent pending.
PREFER TO NOTE THAT VISTAWALL DOES NOT CONTROL THE APPLICATION, NOR THE SELECTION OF ITS PRODUCT CONFIGURATIONS, SEALANT OR GLAZING MATERIALS AND ASSUMES NO RESPONSIBILITY; THEREFORE, IT IS THE RESPONSIBILITY OF THE OWNER, ARCHITECT AND INSTALLER TO MAKE THESE SELECTIONS IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND BUILDING CODES.

THE AIR AND WATER PERFORMANCE OF THE OUTSIDE GLAZED CW-250 SYSTEM IS DIRECTLY RELATED TO THE COMPLETENESS AND INTEGRITY OF BOTH THE SEAL INSTALLED AT THE SHEAR BLOCKS, AND THE GLAZING GASKET INSTALLED AT THE INTERIOR SIDE OF THE GLASS, AS WELL AS, PROPER INSTALLATION OF ALL PRESSURE PLATES. TO INSURE TOP PERFORMANCE FOR THIS SYSTEM, PARTICULAR NOTE SHOULD BE MADE BY THE FOLLOWING PROCEDURES:

SURFACES TO BE SEALED SHOULD BE CLEANED WITH ISOPROPYL ALCOHOL OR SOLVENT AS RECOMMENDED BY SEALANT MANUFACTURER TO REMOVE ALL DIRT AND CUTTING OILS, THEN DRIED COMPLETELY. SEALANT AT SHEAR BLOCKS SHOULD BE A MINIMUM NOMINAL 3/16" dia., PLACED COMPLETELY AROUND TOP, FACE AND BOTTOM OF THE SHEAR BLOCK, WITHOUT MISSES OR SKIPS. WIPE EXPOSED SURFACES CLEAN AFTER INSTALLING HORIZONTAL. INSPECT JOINT FOR COMPLETE SEALANT CONTACT, ESPECIALLY WHERE THE HORIZONTAL INTERSECTS THE FACE OF THE VERTICAL MEMBER AND REPAIR AS REQUIRED. CONSULT SEALANT MANUFACTURER FOR REVIEW AND RECOMMENDATION OF SEALANT APPLICATION. FOLLOW SEALANT MANUFACTURERS RECOMMENDATIONS AND LITERATURE FOR PROPER INSTALLATION.

THE INTERIOR GLAZING GASKET SHOULD BE INSTALLED FLAT AND TRUE TO THE VERTICAL AND HORIZONTAL SURFACES WITHOUT STRETCHING, FOLDS, BUCKLES OR TEARS. CORNERS MUST BE CUT SQUARE, SEALED AND BUTTED. TO AVOID DAMAGE TO GASKET WHEN GLAZING; GLASS SHOULD BE LEVEL AND STRAIGHT WHEN SETTING GLASS AGAINST GASKET.

VERTICAL MOVEMENT OF MULLIONS AT INTERMEDIATE FLOORS REQUIRES SPECIAL EXPANSION JOINTS AND GLAZING MATERIALS; SEE PG . 31 FOR DETAILS WHICH PERMIT 1/4" MOVEMENT.

FOR DESIGNS WHICH MAY REQUIRE GREATER MOVEMENT OR SPECIAL CONSIDERATIONS; PLEASE CONTACT VISTAWALL’S ENGINEERED PRODUCTS DEPARTMENT IN TERRELL, TX., NEWMAN, GA., WARWICK, RI. OR MODESTO, CA.
NOTE:
1) CLEAN FACE OF MULLION AND HORIZONTALS WITH ISOPROPYL ALCOHOL PRIOR TO INSTALLATION OF GLAZING GASKETS TO REMOVE ALL DIRT AND CUTTING OILS.
2) PROTECTIVE LINER TO BE LEFT ON GLAZING GASKETS UNTIL GLASS IS INSTALLED.
3) IT IS RECOMMENDED THAT THE INTERIOR GLAZING GASKET BE PLACED JUST PRIOR TO INSTALLATION OF THE GLASS, SINCE LINER WILL ADHERE TO GASKET IF ALLOWED TO DRY AFTER BECOMING WET.
4) IF DIRTY OR DUSTY, FACE OF GASKET SHOULD BE CLEANED WITH 50/50 SOLUTION OF ISOPROPYL ALCOHOL AND WATER PRIOR TO GLAZING.
5) PROPER SEALING OF GASKET CORNERS IS CRITICAL TO SYSTEM PERFORMANCE. THIS PROCEDURE SHOULD BE PREFORMED AT THE TIME OF INSTALLATION OF GLASS. SEE DETAILS BELOW.

CW-250 1 INCH CURTAINWALL SYSTEM

GENERAL INSTALLATION

CW-1636
GASKET APPLICATOR

DETAIL SHOWN BELOW

APPLY SEALANT TO END OF VERTICAL

CUT OFF GASKET APPROX. 1/4" OVERLAP

NOTE: DO NOT ENTIRELY REMOVE PROTECTIVE LINER UNTIL READY TO GLAZE.

PUSH VERTICAL GASKET INTO PLACE

TRIM SIDE OF HORIZONTAL GASKET FLUSH WITH VERTICAL GASKET
GENERAL INSTALLATION

NOTE: LOCATE MULL CAPS AT HEAD & SILL.

#17 (.173 dia.) DRILL THRU FOR #8 FASTENER

NOTE: GLAZE FROM BOTTOM TO TOP. INSTALL WATER DIVERTERS ON HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION.

CW-250-FP-108 WATER DIVERTER BED IN SEALANT

9/16" FS-202

CW-250-FP-B6 (MRF# 6541)

BED MULL CAP IN SEALANT & CAP SEAL FASTENER
THE CW-250 SYSTEM FOR 1-INCH GLAZING IS DESIGNED TO ACCOMMODATE GLASS OR PANELS WITH THICKNESS RANGING FROM 0.969 TO 1.031 INCHES. 1/4" SPANDREL GLASS OR PANELS MAY BE 0.219 TO 0.281 INCHES IN THICKNESS.

ALL VISTAWALL PERFORMANCE TESTS ARE BASED ON THE USE OF GLASS AS THE INFILL GLAZING MATERIAL. IF MATERIALS OTHER THAN GLASS ARE TO BE INSTALLED IN THIS SYSTEM, IT IS THE RESPONSIBILITY OF THE OWNER, ARCHITECT, AND INSTALLER TO VERIFY COMPATIBILITY OF THE GLAZING MATERIALS TO BE USED.

FOR THERMAL EXPANSION CONSIDERATIONS, PRESSURE PLATES ARE DESIGNED FOR A MAXIMUM LENGTH OF 15'-3", AND ARE AVAILABLE FROM VISTAWALL IN 12'-3". BUTT JOINTS ARE USED BETWEEN PRESSURE PLATES IN LONG RUNS. SEE TYPICAL PRESSURE PLATE INSTALLATION ON SHEET 18. PLEASE NOTE THAT LONG FACE CAPS MAY SPAN ACROSS A PRESSURE PLATE BUTT JOINT.

ACCESSORY PARTS REQUIRED FOR THE CW-250 SYSTEM ARE INDICATED ON SHEET 78, CROSS-REFERENCED TO THEIR ORDER NUMBERS, WITH AVAILABLE QUANTITIES AND DESCRIPTIONS.

THE REPUTATION OF VISTAWALL AS A PRODUCT INNOVATOR IMPLIES THAT IT RESERVES THE RIGHT TO CHANGE OR MODIFY ITS PRODUCTS WITHOUT PRIOR NOTICE.

FOR FURTHER ASSISTANCE PLEASE CONTACT YOUR LOCAL DEALER OR VISTAWALL SALES REPRESENTATIVE.
CW-250 1 INCH CURTAINWALL SYSTEM

MULLION FABRICATION AND SHEAR BLOCK INSTALLATION

#17 (.173 dia.) DRILL THRU FOR #12 FASTENER

CW-250-FP-2

CW-21

ALTERNATE

HEAVY MULLION

TOP OF HORIZONTAL

CW-250-FP-1, USE SMALL PIECE OF CW-1 W/ SHEAR BLOCK TO ALIGN SHEAR BLOCK FOR FASTENING

FS-43 (TYP)

F5W-324 LOCK WASHER LOCATED @ HEAD & SILL

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NOTE: WHEN USING CW250-FP-3 SHEAR BLOCK, OPEN BACK HORIZ.
CUT LENGTH = D.L.O. -1/16"

#11 (.191 DIA.) DRILL THRU FOR #14 FASTENER

BOTTOM OF HORIZONTAL

TOP OF HORIZONTAL

CW-250 1 INCH CURTAIN WALL SYSTEM

MULL FABRICATION AND SHEAR BLOCK INSTALLATION CONTD.
CW-250-FP-148 INSTALLED PRIOR TO ATTACHING SHEAR BLOCKS

ANCHOR HOLES (NBV)

CW-250-FP-86 MULL CAP
ATTACH W/ FS-202

#17 (.173 dia.) DRILL THRU FOR #8 FASTENER

TYP. SEAL FACE AND UNDER SHEAR BLOCK PRIOR TO INSTALLING HORIZONTAL

FS-323 CAP SEAL

CW-250-FP-86 MULL CAP

SEAL AS SHOWN

CW-250-FP-1

HORIZONTAL CUT LENGTH = D.L.O - 1/16"
NOTE: CW-1 HORIZONTAL IS NOTCHED @ TOP WHEN ABOVE EYE LEVEL, NOTCHED @ BOTTOM WHEN BELOW EYE LEVEL. THIS METHOD OF INSTALLING HORIZONTALS SHOULD BE USED AT THE END OF A RUN. CONVENTIONAL METHODS MAY BE USED FOR THE REMAINING WALL.

TYP. SEAL FACE OF SHEAR BLOCK PRIOR TO ASSEMBLY OF HORIZONTAL

NOTE: HORIZONTAL CUT LENGTH TO BE D.L.O. -1/16" WHEN HORIZONTAL IS NOTCHED.

DRILL 7/32" CLEAR HOLE AND C’SINK 7/16" dia. FOR #12 PFH

HORIZONTAL CUT LENGTH = D.L.O.
SILL DETAIL

CW-250 1 INCH CURTAINWALL SYSTEM

CW-250-FP-86 MULL CAP
ATTACH W/ FS-202
SEAL AS SHOWN

CW-250-FP-2

TYP SEAL FACE OF
SHEAR BLOCK PRIOR
TO ASSEMBLY OF HORIZONTAL

9/16"

FW-1

DRILL 7/32" CLEAR HOLE AND
C’SINK 7/16" dia. FOR #12 PFH

HORIZONTAL CUT LENG1
= D.L.O. -1/16"

11/16"

#17 (.173 dia.) DRILL
THRU FOR #8 FASTENER

FS-323
CAP SEAL

CW-12

CW-250-FP-86 MULL CAP

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CW-250 1 INCH CURTAINWALL SYSTEM

HORIZONTAL DETAIL 1" OVER 1/4" & 1/4" OVER 1"

NOTE: HORIZONTAL DESIGN PROVIDES FOR ITS OWN THERMAL EXPANSION. DO NOT SCREW HORIZONTALS TO SHEAR BLOCKS.

TYP SEAL AROUND SHEAR BLOCK PRIOR TO INSTALLING HORIZONTAL

HORIZONTAL CUT LENGTH = D.L.O. -1/16"

CW-1

CW-14

CW-13

CW-250-FP-3

3/4"

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JAMB INSTALLATION

CW-12

PW-250 1 INCH CURTAINWALL SYSTEM

NOTE: DO NOT USE CW-12 AS A JAMB. RAW EDGE OF HORIZONTAL MAY SHOW AT JOINT.

CW-2

F6-322 @ 18" O.C

CW-3

CW-1195 POKER FILLER PREATTACH TO MULL AND SEAL PRIOR TO INSTALLATION

SEAL BETWEEN FILLER AND MULLION

PERIMETER SEAL APPLY PRIOR TO GLAZING

CW-250-FP-86 FIELD MODIFY AS SHOWN

BED MULL CAP IN SEALANT

@ 18" O.C

7/16"
CW-250-FP-4 OR CUT 3" PIECES OF PRESSURE PLATE, ISOLATOR AND GASKETS FOR TEMPORARY GLAZING RETAINER LOCATE AT 3" FROM EACH CORNER OF GLASS AND AT CENTER OF LITE, ADDITIONAL LOCATIONS MAY BE REQUIRED PER JOB CONDITIONS.

FS-322
(1) PER RETAINER

CW250-FP-108
WATER DIVERTER BED IN SEALANT

CW-9 SETTING BLOCK REFERENCE SHEET 73 FOR LOAD CHART/LOCATION

NOTE: GLAZE FROM BOTTOM TO TOP, INSTALL WATER DIVERTER ON HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION.
PRESSES PLATE INSTALLATION

NOTE: DO NOT ATTACH PRESSURE PLATE TO MULLION STEM DIRECTLY W/ FS-322. A CLEAR HOLE IS REQUIRED IN PRESSURE PLATE.

FACTORY PUNCHED SLOTS @ 12" O.C.

FS-322 SELF-DRILLING FASTENER (NOTE: FASTENER CENTERED IN SLOT TO ALLOW FOR EXPANSION.)

NOTE: ALL STANDARD PRESSURE PLATES ARE PRE-PUNCHED WITH CW-6 ISOLATOR: STOCK LENGTH = 12' - 1"

1/8" GAP BETWEEN PRESSURE PLATES-FILL W/ SEALANT

DRILL 7/32" CLEARANCE HOLE AT END OF PRESSURE PLATE FOR FS-322
1" GLAZING DETAIL

NOTE:
1) GLASS BITE = 1/2" TYPICAL
2) CUT VERTICAL PRESSURE PLATE
   1/4" SHORT AT SILL FOR WEEPAGE
   (DO NOT BLOCK WITH WEATHERSEAL)
3) GLAZING GASKET: PROVIDE 1/4" ADDITIONAL GASKET FOR EACH FOOT OF DAYLIGHT OPENING TO ALLOW FOR RELAXATION OF GASKET.
4) OPTION 1: INSTALL VERTICAL PRESSURE PLATE AND FACE CAP PRIOR TO INSTALLATION OF HORIZONTAL PRESSURE PLATES. SEAL HORIZONTAL PRESSURE PLATE TO VERTICAL FACE CAP PRIOR TO INSTALLING HORIZONTAL FACE CAP.
   OPTION 2: INSTALL ALL PRESSURE PLATES AND MAINTAIN A MINIMUM 1/8" SPACE BETWEEN VERTICAL AND HORIZONTAL PRESSURE PLATES. INSTALL VERTICAL FACE CAP AND SEAL HORIZONTAL PRESSURE PLATE TO VERTICAL FACE CAP PRIOR TO INSTALLING HORIZONTAL FACE CAP.
1/4" GLAZING DETAIL

NOTE:
1) GLASS BITE = 1/2" TYPICAL
2) CUT VERTICAL PRESSURE PLATE 1/4" SHORT AT SILL FOR WEEPAGE (DO NOT BLOCK WITH WEATHERSEAL)
3) GLAZING GASKET: PROVIDE 1/4" ADDITIONAL GASKET FOR EACH FOOT OF DAYLIGHT OPENING TO ALLOW FOR RELAXATION OF GASKET.

4) OPTION 1: INSTALL VERTICAL PRESSURE PLATE AND FACE CAP PRIOR TO INSTALLATION OF HORIZONTAL PRESSURE PLATES. SEAL HORIZONTAL PRESSURE PLATE TO VERTICAL FACE CAP PRIOR TO INSTALLING HORIZONTAL FACE CAP.

OPTION 2: INSTALL ALL PRESSURE PLATES AND MAINTAIN A MINIMUM 1/8" SPACE BETWEEN VERTICAL AND HORIZONTAL PRESSURE PLATES. INSTALL VERTICAL FACE CAP AND SEAL HORIZONTAL PRESSURE PLATE TO VERTICAL FACE CAP PRIOR TO INSTALLING HORIZONTAL FACE CAP.
1/4" ADAPTOR FABRICATION & INSTALLATION

**When using CW-1:** The CW-10 will be cut D.L.O. + 1/2" and will run thru at the bottom of the lite, and the horizontal CW-10 will run thru at the top of the lite.

**Use compatible sealant to marry joint between sealant at glass, vertical sealant at mullion adaptor, sealant at shear block, and horizontal sealant at adaptor.**

**Cap seal all fasteners.**

**Note:** CW-10 adaptor is spliced at mullion splice. Reference Sheet 31.

**Detail for installation of CW-10 at CW-1 horizontal.**

**Cut length of CW-10 at corner varies. Reference corner details.**

**When using CW-13 & CW-14; the CW-10 to be cut D.L.O. + 1 1/2" and will run thru vertically at both the top and bottom of the opening.**

**Drill 5/16" Ø weep hole.**

**CW-10 cut length = D.L.O. + 1" typical.**

**CW-10 cut length = D.L.O. + 1/2" typical.**

**FS-322 @ 18" O.C.**

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CW-250 1 INCH CURTAINWALL SYSTEM

FLUSH DOOR JAMB & HEAD DETAILS

BED DOOR JAMB & HEAD IN SEALANT

CUT AWAY FOR CLARITY

FILL HOLE AT TOP OF DOOR JAMB WITH BACKER ROD AND SEAL

CW-20 DOOR JAMB
ATTACH W/ FS-322 @ 18" O.C.

FG-2145

CW-20 DOOR JAMB
CUT LENGTH = DOOR OPENING + 1"
ATTACH W/ FS-322 @ 18" O.C.

CW-1636 (5/16" x 3/8" SSA)
ATTACH W/ FS-322 @ 18" O.C.

CW-9 SETTING BLOCK

CAP SEAL FASTENERS

TOP OF CW-20 DOOR JAMB

1"

SEAL BETWEEN DOOR JAMB & HEADER

F6322 @ 18" O.C. (2 PLACES)
CW-250 1 INCH CURTAINWALL SYSTEM

FLUSH DOOR JAMB & HEAD DETAILS

NOTES:
1) CW-20 DOOR JAMB TO RUN THRU AT SILL TO FINISHED FLOOR.
2) CW-3 PRESSURE PLATE TO BE CUT 1/4" SHORT AT SILL FOR WEEPAGE.

SET DOOR JAMB IN SEALANT AT SILL AND MARRY INTO THRESHOLD & PRIMARY WEATHERSEAL

CAP SEAL FASTENERS

BED DOOR JAMB IN SEALANT

FS-322 (#12 X 1" HHSTS) @ 18" O.C.

CW-3 CUT 1/4" SHORT AT SILL. SEE NOTE 2

BED THRESHOLD IN SEALANT

FS-42

TH-44 CLIP

CG-2145

CW-1 MULLION

CW-20 DOOR JAMB

icz 43

icz 44
CW-250 1 INCH CURTAINWALL SYSTEM

FLUSH DOOR JAMB & HEAD DETAILS

CW-3 PRESSURE PLATE

CW-2 FACE CAP
BUTT TO CW-150
FACE CAP BELOW

FS-322 @ 12" O.C.

CW-150 FACE CAP
CUT LENGTH = DOOR
OPENING + 2 1/2" -
SEALANT JOINT @ SILL

CW-151 PRESSURE PLATE

CW-150 FACE CAP

CW-151 PRESSURE PLATE
CUT LENGTH = DOOR OPENING
+ 1 1/2". BED IN SEALANT
AT SILL

SEE SHEET 25 FOR
ADDITIONAL INFORMATION

DRILL 1/2" ACCESS HOLE IN
CW-151 AND INSTALL FS-43
@ 12" O.C.

APPLY CONTINUOUS
SEALANT BEFORE
INSTALLATION
**FLUSH DOOR JAMB & HEAD DETAILS**

1. **Door Opening**
   - Install backer rod into top of CW-151 and seal to mull and horizontal.
   - Notch leg of CW-150 face cap x 7/8" lg. to clear CW-3 pressure plate above.
   - Leave gap in sealant for drainage.
   - Access hole 1/2" dia.

2. **DS-1 Door Stop**
   - Attach with SC-1 clip @ 18" O.C.
SPLICE FABRICATION DETAILS

1/4" X 3 1/4" LONG SLOT EACH SIDE OF MULLION

FS-8 (#14 X 1" H.H) (2 PER SIDE)

SHOP APPLY CW-65 SPLICE SLEEVE TO EACH SIDE OF UPPER MULL USING ONE FASTENER AT EACH SLOT. FIELD DRILL AND INSTALL SECOND FASTENER AFTER ASSEMBLY WITH LOWER MULL

NOTE: SPLICED ASSEMBLY SHOULD BE DESIGNED FOR MULLION TO ACT AS A SINGLE, NON-JOINTED MEMBER.

SHOP APPLY CW-65 SPLICE SLEEVE TO EACH SIDE OF LOWER MULLION

F5-8 (#14 X 1" H.H) (2 PER SIDE)

SPLICE TABLE

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NOTES:

1) REFERENCE SHEETS 28 THRU 32 FOR FABRICATION, ASSEMBLY AND SEALANT OF TYPICAL SPLICE CONNECTION.

2) DO NOT APPLY BOND BREAKER TAPE TO SPLICE JOINT FOR FIXED SPLICE APPLICATIONS.

3) ASSEMBLE MULLIONS USING EITHER RETRACTABLE OR FIXED CONNECTION AND SECURE OPPOSITE HALF OF ASSEMBLY USING (4) FS-8 FASTENERS AS SHOWN BELOW.

4) 1/2" JOINT TO PROVIDE FABRICATION CONTINUITY WITH LIVE LOAD SPLICES.
CW-250 1 INCH CURTAINWALL SYSTEM

LIVELOAD SPLICE SEALANT DETAIL

NOTES:
1) APPLY BOND BREAKER TAPE AS SHOWN IN DETAIL 1 FOR LIVE LOAD SPLICES ONLY.
2) SEAL SPACES BETWEEN SPLICE AND MULLION AS SHOWN IN DETAIL 1
3) CLEAN (& PRIME IF REQ'D) FOR CURING-TYPE SEALANT BETWEEN MULL HALVES. AS SHOWN IN DETAIL 2.
LIVELOAD SPLICE SEALANT DETAIL

GENERAL NOTES:
A) NORTON "NORPRENE" P3247, 1/4" X 3/8" FOAM GLAZING GASKET TO BE USED FOR LIVE-LOAD SPLICE CONDITIONS IN LIEU OF CW-1636 FOAM TAPE INDICATED ON STANDARD CW-250 DETAILS.

B) MULLION NORMALLY SPLICED IN 1/4" SPANDREL GLASS AREA.

C) MAXIMUM MOVEMENT OF 1/4" AT TYPICAL SPLICE JOINT.
LIVELOAD SPLICE SEALANT DETAIL

**SEALANT INSTRUCTIONS:**
1) SEAL MULLION AND SPLICE AS SHOWN IN DETAILS 1 & 2, SHEET 30
2) INSTALL "DENVER" FOAM ROD AS SHOWN IN DETAIL 3, SHEET 31
3) APPLY NON-HARDENING NON-SKINNING SEALANT ON TOP AND FRONT SURFACES OF "DENVER" FOAM AS SHOWN IN DETAIL 4, SHEET 31
4) INSTALL LOWER PRESSURE PLATE AND FILL VOID INSIDE GLAZING CAVITY TO TOP OF PRESSURE PLATE. SEE DETAIL 5.
5) APPLY DEALER PREFERRED SEALANT BETWEEN 1/4" GLAZING ADAPTOR AND MULLION IN SPLICE AREA.
6) INSTALL LOWER FACE CAP AND SEAL TO FACE OF PRESSURE PLATE.
7) NOTE: UPPER PRESSURE PLATE AND FACE CAP NOT SHOWN FOR CLARITY.
OUTSIDE 90° CORNER ASSEMBLY

NOTE:
DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS.

USE HOLES IN HORIZONTAL TO MATCH DRILL #17 (.173 dia.) HOLES IN SHEAR BLOCK

FS-322 @ 12" O.C.

DRILL 7/23" CLEAR HOLE & C'SINK 7/16" dia. FOR #12 PFH

CW-26

CW-22

CW-31
W/ CW-6

(2) CW-34

FS-42 (TYP)
CAP SEAL

CW-1

CW-12

CW-250-FP-13 (OPP SIDE)

CW-250-FP-14

CW-250-FP-7 (TYP)

CW-250-FP-13

CW-250-FP-14

CW-12

CW-26
OUTSIDE 90° CORNER GLAZING

NOTE: HORIZONTAL CUT LENGTH = WORKPOINT - 3 11/16”
HEAD AND SILL CUT LENGTH = HORIZ. LENGTH - 1/16”

NOTE:
1) COMPLETELY SEAL BOTH ENDS OF ADAPTER TO HORIZONTALS;
MARRY SEALANT TO ADAPTOR LONGITUDINAL SEALS TO GLASS
SEALS.
2) REFERENCE SHEETS 32 THRU 33 FOR SHEARBLOCK, ANCHOR AND
HORIZONTAL DETAILS.
INSIDE 90° CORNER FABRICATION

- CW-250-FP-7
- 1 1/4" FSW-324 @ HEAD & SILL ANCHORS
- FS-43 (TYP) ANCHOR HOLE (NBV)
- CW-250-FP-92 MULL CAP
  USE TOP & BOTTOM OF MULL. ATTACH W/ FS-202
  REF. SHT. 33 FOR ATTACHMENT
- CW-22
- #17 (.173 dia.) DRILL THRU FOR #12 FASTENER
- TOP OF HORIZONTAL
INSIDE 90° CORNER ASSEMBLY

NOTE:
DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS

DRILL 7/32" CLEAR HOLE AND CSINK 7/16" dia. FOR #12 PFH

* USE HOLES IN HORIZONTAL TO MATCH DRILL (#17 (.173 dia.) HOLES IN SHEAR BLOCKS
INSIDE 90° CORNER GLAZING

CW-250 1 INCH CURTAINWALL SYSTEM

HORIZONTAL CUT LENGTH = WORKPOINT + 5 17/32" 
HEAD AND SILL CUT LENGTH = HORIZONTAL LENGTH - 1/16"
OUTSIDE 135° CORNER FABRICATION

CW-250-FP-50
CW-250-FP-51 (OPP SIDE)

F5-43 (TYP)
F5-324
@ HEAD & SILL ANCHORS

CW-250-FP-94 MULL CAP
USE AT TOP & BOTTOM OF MULL. ATTACH W/ F5-202

ANCHOR HOLE (NBV)

1 1/4"

#17 (.173 dia.)
DRILL THRU FOR #12 FASTENER

TOP OF HORIZONTAL

1 1/4"

1/2"

1/4"

1/2"

3/4"

2 3/4"

1 1/4"

CW-250-FP-52

CW-250-FP-50 (OPP SIDE)

CW-161

#17 (.173 dia.)
CLEAR HOLE FOR #8 FASTENER

1 5/16" REF.

1 1/4"
OUTSIDE 135° CORNER ASSEMBLY

* USE HOLES IN HORIZONTAL TO MATCH DRILL (#17 (.173 dia.) HOLES IN SHEAR BLOCKS.

DRILL 7/32" CLEAR HOLE AND C’SINK 7/16" dia. FOR #12 PFH

NOTE: DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS.

FS-322 @ 12" O.C.
OUTSIDE 135° CORNER GLAZING

CONTINUOUS SEAL BETWEEN ADAPTOR & MULLION

SEAL ADAPTORS @ BOTH ENDS & FULL LENGTH (SEE NOTE #1, SHT 35)

NOTE:
HORIZONTAL CUT LENGTH = WORKPOINT - 2 5/32"
HEAD AND SILL CUT LENGTH = HORIZONTAL LENGTH - 1/16"
INSIDE 135° CORNER FABRICATION

CW-161

#17 (.173 dia.)
DRILL THRU FOR #12 FASTENER

TOP OF HORIZONTAL

1 1/4"

DRILL #17 (.173 dia.)
CLEAR HOLE FOR #8 FASTENER

CW-250-FP-94 MULL CAP
USE AT TOP & BOTTOM OF MULL. ATTACH W/ FS-202

CW-250-FP-52

CW-250-FP-50 (OPP SIDE)

ANCHOR HOLE (NBV)

CW-250-FP-51 (OPP SIDE)

CW-250-FP-51

CW-250-FP-50 (OPP SIDE)

FS-43 (TYP)

FSW-324
@ HEAD & SILL ANCHORS

CW-250-FP-50

CW-250-FP-51 (OPP SIDE)

#17 (.173 dia.)
DRILL THRU FOR #12 FASTENER

TOP OF HORIZONTAL

1 1/4"

1 3/16"

1/4"

1/2"

1 1/4"

2 3/4"

7/8"

7/8"
NOTE: DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS.

FS-42 (TYP) CAP SEAL

CW-165

CW-161

CW-164 W/ CW-6

CW-23

CW-250-FP-51

CW-250-FP-50 (OPP SIDE)

SEAL TYP.

FS-322 @ 12" O.C.

DRILL 7/32" CLEAR HOLE AND C’SINK 7/16" dia. FOR #12 PFH

3/4" TYP.

* USE HOLES IN HORIZONTAL TO MATCH DRILL (#17 (.173 dia.) HOLES IN SHEAR BLOCKS.
CW-250 1 INCH CURTAINWALL SYSTEM

INSIDE 135° CORNER GLAZING

NOTE:
HORIZONTAL CUT LENGTH = WORKPOINT + 1 21/32"
HEAD AND SILL CUT LENGTH = HORIZONTAL LENGTH - 1/16"
Butt Glaze Mull Fabrication and Shear Block Installation

- CW-250-FP-2
- CW-250-FP-1
- CW-7
- FSW-324 Lock Washer located @ head & sill
- #17 (.137 dia.) drill thru for #12 fastener
- FS-43 Typ #12 x 3/4" (P.P.H.S.T.S.)

Use small piece of CW-1 horizontal w/shear block to align shear block for fastening.

Top of horizontal 5/8".
BUTT GLAZE MULL FABRICATION AND SHEAR BLOCK INSTALLATION CONT.
NOTE: FOR GLAZING AND REGLAZING PURPOSES, CUT PRESSURE PLATES TO GLASS WIDTH DIMENSION.

CW-250-FP-2
ANCHOR HOLES (NBV)
HORIZONTAL CUT LENGTH = D.L.O. - 1/16"

FS-323
CAP SEAL

NOTE: FACE OF HORIZONALS AND BUTTGLAZE MULLION DO NOT ALIGN DUE TO SILICONE SPACE REQUIREMENTS. SEAL OFFSET AFTER ASSEMBLY.

CW-250-FP-86
MULL CAP

#17 (.173 dia.)
DRILL THRU FOR #8 FASTENER

TYP. SEAL FACE AND UNDER SHEAR BLOCK PRIOR TO INSTALLING HORIZONTAL

CW-250-FP-2
MULL CAP

11/16"

DRILL 7/32" CLEAR HOLE AND C'SINK 7/16" dia. FOR #12 PFH

CW-250-FP-86
MULL CAP

SEAL AS SHOWN
NOTE: CW-1 HORIZONTALS IS NOTCHED @ TOP WHEN ABOVE EYE LEVEL, NOTCHED @ BOTTOM WHEN BELOW EYE LEVEL, THIS METHOD OF INSTALLING HORIZONTALS SHOULD BE USED AT THE END OF A RUN. CONVENTIONAL METHODS MAY BE USED FOR THE REMAINING WALL.

*NOTE: FACE OF HORIZONTALS AND BUTTGLAZE MULLION DO NOT ALIGN DUE TO SILICONE SPACE REQUIREMENTS. SEAL OFFSET AFTER ASSEMBLY.

NOTE: HORIZONTAL CUT LENGTH TO BE D.L.O. - 1/16" WHEN HORIZONTAL IS NOTCHED.

TYP. SEAL AROUND SHEAR BLOCK PRIOR TO ASSEMBLY OF HORIZONTAL

NOTE: FOR GLAZING AND REGLAZING PURPOSES, CUT PRESSURE PLATES TO GLASS WIDTH DIMENSION.

DRILL 7/32" CLEAR HOLE AND C'SINK 7/16" dia. FOR #12 PFH
**SILL DETAIL**

CW-250 1 INCH CURTAINWALL SYSTEM

*NOTE: FACE OF HORIZONTALS AND BUTT GLAZE MULLION DO NOT ALIGN DUE TO STRUCTURAL SILICONE SPACE REQUIREMENTS. SEAL OFFSET AFTER ASSEMBLY.*

NOTE: FOR GLAZING AND REGLAZING PURPOSES, CUT PRESSURE PLATES TO GLASS WIDTH DIMENSION.
PRIOR TO INSTALLING BRIDGE
APPLY SILICONE ACROSS FACE
OF MULL, ALONG TONGUE OF
HORIZONTAL AND ALONG INSIDE
OF HORIZONTAL TONGUE.

LOWER LITES OF GLASS MUST BE
INSTALLED PRIOR TO INSTALLING
BRIDGE

STEP 1

INSTALL A TEMPORARY CLIP 4"
FROM THE TOP OF THE GLASS,
INSTALL BACKER ROD AND
APPLY A WEATHERSEAL DOWN
2"-3" FROM THE TOP OF THE GLASS,
PRIOR TO INSTALLING BRIDGE.

STEP 2

LOWER LEG BENEATH
BRIDGE SHOULD BE
ENGAGED UNDER
HORIZONTAL TONGUE.

SLIDE CW250-PP-164
BRIDGE INTO POSITION
OVER HORIZONTAL TONGUE.
INSTALLING FROM LEFT
tO RIGHT.

STEP 3
BRIDGE INSTALLATION CONT'D.

STEP 4

ONCE FACE OF BRIDGE ALIGNS WITH LEFT HORIZONTAL TONGUE, BEGIN TO ROTATE INTO FINAL POSITION.

STEP 5

AFTER BRIDGE IS ROTATED INTO POSITION, THE SNAP LEG ON RIGHT SIDE OF BRIDGE WILL BE LOCATED ABOVE THE HORIZONTAL TONGUE. FLEX BRIDGE AT CENTER AND SNAP ONTO TONGUE.

TOOL SEALANT ALONG BACK LEG, SIDE AND ALONG FACE JOINT AFTER INSTALLATION. MARRY SEAL INTO JOINT BETWEEN HORIZONTAL AND MULLION.

STEP 6

AFTER BRIDGE IS INSTALLED RUN BEAD OF SEALANT ALONG FACE JOINT JUST PRIOR TO INSTALLING PRESSURE PLATE.
PRESSURE PLATE INSTALLATION AT BRIDGE

NOTE:
WHEN INSTALLING PRESSURE PLATE FASTENERS, THEY SHOULD BE WITHIN 2" TO 4" FROM THE CENTERLINE OF MULLION. ADDITIONAL 7/32" HOLES SHOULD BE ADDED IF STANDARD SLOTS ARE NOT WITHIN THIS AREA.

MARK LOCATION OF DIVERTER BRIDGE CENTERLINE BY TEMPORARILY ALIGNING PRESSURE PLATE, CUT LOWER PRESSURE PLATE GASKET AT BRIDGE LOCATION AND SPREAD GASKETS TO ALLOW 3/4" GAP. INSTALL PRESSURE PLATE ONTO HORIZONTAL AND ALLOW GAP TO CLOSE AS SHOWN IN DETAIL ON PAGE 6.

IF PRE-PUNCHED SLOT FALLS WITHIN 2" OF CENTERLINE OF MULL, SEAL SLOT WITH SILICONE AND DRILL ADDITIONAL 7/32" HOLE AT 2" OFF CENTERLINE OF MULLION.

INSTALL PRESSURE PLATE WITH GAP IN LOWER GASKET. FILL GAPS WITH SILICONE BETWEEN ENDS OF GASKET AND WEEP LEG OF DIVERTER.
GLAZING INSTRUCTIONS

NOTE: WIDTH OF STRUCTURAL SILICONE JOINT AND PLACEMENT OF V2110 TO BE DETERMINED

CUT 3" PIECES OF PRESSURE PLATE, ISOLATOR AND GASKETS OR TEMPORARY GLAZING RETAINER LOCATE AT 3" FROM EACH CORNER

CUT 3" PIECES OF PRESSURE PLATE, ISOLATOR AND GASKETS OR TEMPORARY GLAZING RETAINER LOCATE AT 3" FROM EACH CORNER

NOTE: GLAZE FROM BOTTOM TO TOP, INSTALL BACKER ROD AND SEAL FOR DIVERTER BEAD. MARRY DIVERTER BEAD INTO VERTICAL WEATHER SEAL AT TOP OF LOWER LITES.
NOTE: FOR GLAZING AND REGLAZING PURPOSES, CUT PRESSURE PLATES TO GLASS WIDTH DIMENSION.

4) OPTION 1: INSTALL VERTICAL PRESSURE PLATE AND FACE CAP PRIOR TO INSTALLATION OF HORIZONTAL PRESSURE PLATES. SEAL HORIZONTAL PRESSURE PLATE TO VERTICAL FACE CAP PRIOR TO INSTALLING HORIZONTAL FACE CAP.

OPTION 2: INSTALL ALL PRESSURE PLATES AND MAINTAIN A MINIMUM 1/8" SPACE BETWEEN VERTICAL AND HORIZONTAL PRESSURE PLATES. INSTALL VERTICAL FACE CAP AND SEAL HORIZONTAL PRESSURE PLATE TO VERTICAL FACE CAP PRIOR TO INSTALLING HORIZONTAL FACE CAP.

NOTE:
1) GLASS BITE = 1/2" TYPICAL
2) CUT VERTICAL PRESSURE PLATE 1/4" SHORT AT SILL FOR WEEPAGE (DO NOT BLOCK WITH WEATHERSEAL)
3) GLAZING GASKET: PROVIDE 1/4" ADDITIONAL GASKET FOR EACH FOOT OF DAYLIGHT OPENING TO ALLOW FOR RELAXATION OF GASKET.
CW-250 1 INCH CURTAINWALL SYSTEM

BUTT GLAZE HORIZONTAL JOINT DETAILS

GLASS JOINT (SPlice IN CAP)

NOTE: LEAVE SPACE IN GASKET & SEALANT AT BOTTOM FOR WEEPAGE

MARRY WEATHER SEAL @ GLASS TO WEATHER SEAL @ FACE CAP

OPEN CELL BACKER ROD

WEATHER SEAL

GLASS JOINT (NO SPlice IN CAP)

NOTE: FOR GLAZING AND REGLAZING PURPOSES, CUT PRESSURE PLATES TO GLASS WIDTH DIMENSION.

WITH SEALANT, MARRY WEATHER SEAL TO GASKET AT TOP
1/4" BUTT-GLAZE DETAIL

* NOTE: WIDTH OF STRUCTURAL SILICONE SEAL AND PLACEMENT OF V211O TO BE DETERMINED BY PROJECT REQUIREMENTS.
OUTSIDE 90° CORNER ASSEMBLY BUTT GLAZE

NOTE: SURFACES TO BE FLUSH

NOTE: DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS.

* USE HOLES IN HORIZONTAL TO MATCH DRILL (#17 .173 dia.) HOLES IN SHEAR BLOCKS
OUTSIDE 90° CORNER BUTT GLAZE

**CONTINUOUS SEAL BETWEEN ADAPTOR & MULLION**

F5-119 (#10 X 1 3/8" PFH STS) @ 18" O.C.

**SEAL ADAPTORS @ BOTH ENDS & FULL LENGTH (SEE NOTE #1)**

CW-37

**STRUCTURAL GLAZING SEALANT (CLEAN & PRIME SURFACE AS REQ'D)**

WEATHER SEAL

F5-322 @ 12" O.C.

**NOTE:** HORIZONTAL OFFSET 1/8" TO VERTICAL. SEAL OFFSET OF HORIZONTAL TO VERTICAL.

V2110

1/8"

1/16"

9/16"

2 3/8"

3"

1 5/16" 2 3/8" 1/16"

**NOTE:**

HORIZONTAL CUT LENGTH = WORKPOINT - 2 3/8"

HEAD AND SILL CUT LENGTH = HORIZONTAL LENGTH - 1/16"

**NOTE:**

1) COMPLETELY SEAL BOTH ENDS OR ADAPTOR TO HORIZONTALS; MARRY SEALANT TO ADAPTOR LONGITUDINAL SEALS AND GLASS SEALS.

2) REFERENCE SHEETS 55 & 56 FOR SHEARBLOCK, ANCHOR AND HORIZONTAL DETAILS.

CW-250-FP-19

TEMP. GLAZING RETAINER. ATTACH W/ F5-214

February 2005
INSIDE 90° CORNER FABRICATION BUTT GLAZE

CW-22

#17 (.173 dia.)
DRILL THRU FOR #12 FASTENER

TOP OF HORIZONTAL

CW-250-FP-14
CW-250-FP-13 (OPP SIDE)
ANCHOR HOLE (NBV)

FS-43 (TYP)
FSW-324
@ HEAD & SILL ANCHORS

CW-250-FP-7

CW-250-FP-13
CW-250-FP-14 (OPP SIDE)

CW-250-FP-92 MULL CAP
USE TOP & BOTTOM OF MULL. ATTACH W/ FS-202
REF. SHT. 55 FOR ATTACHMENT
INSIDE 90° CORNER ASSEMBLY BUTT GLAZE

CW-250 1 INCH CURTAINWALL SYSTEM

NOTE: DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS.

NOTE: MULL. CAP NOT SHOWN FOR CLARITY.

SEAL TYP. ALSO SEAL OFFSET OF HORIZONTAL TO MULL. ASSEMBLY

3/4" TYP. * USE HOLES IN HORIZONTAL TO MATCH DRILL #17 (.173 dia.) HOLES IN SHEAR BLOCK

DRILL 7/32" CLEAR HOLE AND C' SINK 7/16" dia. FOR #12 PFH

February 2005
INSIDE 90° CORNER BUTT GLAZE

HORIZONTAL CUT LENGTH = WORKPOINT + 5 11/16
HEAD AND SILL CUT LENGTH = HORIZONTAL LENGTH - 1/16"

FS-322
@ 18" O.C.
SEAL ADAPTORS @ BOTH ENDS & FULL
LENGTH (SEE NOTE #1, SHT 57)

CW-3 (PRES. PLT)
SEAL BETWEEN PRESSURE
PLATES/FACE CAPS

CW-2 (FACE CAP)
SEAL ADAPTORS @
BOTH ENDS & FULL
LENGTH (SEE NOTE #1, SHT 57)

CW-2 (FACE CAP)
SEAL END OF HORIZONTAL
AND ADAPTOR TO FACE OF
MULLION

MARRY SEALANT AT ENDS OF HORIZ.
ADAPTOR TO END SEAL AND VERT.
ADAPTOR SEALS
OUTSIDE 135° CORNER FABRICATION BUTT GLAZE

CW-250-FP-50
CW-250-FP-51 (OPP SIDE)

CW-250-FP-94 MULL. CAP
USE AT TOP & BOTTOM
OF MULL. ATTACH W/ FS-202

CW-250-FP-52

#17 (.173 dia.)
DRILL THRU FOR
#12 FASTENER

TOP OF
HORIZONTAL

DRILL #17 (.173 dia)
CLEAR HOLE FOR
#8 FASTENER

CW-161

OUTSIDE 135° CORNER FABRICATION BUTT GLAZE

February 2005
OUTSIDE 135° CORNER DETAILS BUTT GLAZE

NOTE:
DO NOT USE CW-13 OR CW-14 HORIZONTALS AT CORNERS.

* USE HOLES IN HORIZONTAL TO MATCH DRILL #17 (.173 dia.) HOLES IN SHEAR BLOCK

DRILL 7/32" CLEAR HOLE AND C' SINK 7/16" dia. FOR #12 PFH
OUTSIDE 135° CORNER BUTT GLAZE

CONTINUOUS SEAL BETWEEN ADAPTOR & MULLION

SEAL ADAPTORS @ BOTH ENDS & FULL LENGTH (SEE NOTE #1, SHT 57)

STRUCTURAL GLAZING SEALANT (CLEAN & PRIME SURFACE AS REQ'D)

WEATHER SEALANT

FS-322 @ 12" O.C.

CW-172

FS-119 (#10 X 1 3/8" PFH STS.) @ 18" O.C.

NOTE:
HORIZONTAL CUT LENGTH = WORKPOINT - 1 19/32
HORIZONTAL LENGTH - 1/16"

SEAL BETWEEN HORIZONTAL AND MULLION

MARRY SEAL AT HORIZONTAL ADAPTOR INTO SEAL BETWEEN HORIZONTAL AND MULLION
INSIDE 135° CORNER FABRICATION BUTT GLAZE

CW-250-FP-51
CW-250-FP-50 (OPP SIDE)
CW-250-FP-94 MULL. CAP
USE AT TOP & BOTTOM OF MULL. ATTACH W/ F5-202

#17 (.173 dia.) DRILL THRU FOR #12 FASTENER

TOP OF HORIZONTAL

DRILL #17 (.173 dia) CLEAR HOLE FOR #8 FASTENER

CW-250-FP-52

FS-43 (TYP)
FSW-324 @ HEAD & SILL ANCHORS

CW-250-FP-50
CW-250-FP-51 (OPP SIDE)

ANCHOR HOLE (NBV)

February 2005
INSIDE 135° CORNER DETAILS BUTT GLAZED

CW-23

CW-161

CW-169

CW-16B ADAPTOR
CUT DLO - 1/16"

SEAL TYP., ALSO
SEAL OFFSET OF
HORIZONTAL TO
MULL. ASSEMBLY

CW-250-FP-51
CW-250-FP-50 (OPP SIDE)

CW-250-FP-52 (TYP)

NOTE:
DO NOT USE CW-13 OR CW-14
HORIZONTALS AT CORNERS.

CW-1

FS-42 (TYP.)
CAP SEAL

CW-250-FP-50
CW-250-FP-51 (OPP SIDE)

3/4" TYP.

DRILL 7/32" CLEAR HOLE AND
C'SINK 7/16" dia. FOR #12 PFH

* USE HOLES IN HORIZONTAL TO MATCH
DRILL #17 (.173 dia.) HOLES IN SHEAR
BLOCK

February 2005
INSIDE 135° CORNER BUTT GLAZE

NOTE:
HORIZONTAL CUT LENGTH = WORKPOINT + 1 21/32"
HEAD AND SILL CUT LENGTH = HORIZONTAL LENGTH - 1/16"
CW-250 1 INCH CURTAINWALL SYSTEM

MULLION REINFORCING SECTIONS

NOTE: LIVE LOAD DEFLECTION NOT CONSIDERED

REFLECTED DETAIL SIM.

MAX. HEIGHT FOR PURPOSES OF WIND LOAD CHARTS

SEE WIND LOAD CHARTS FOR THIS CONDITION

NOTE:
CONSULT VISTAWALL ENGINEERING DEPT., TERRELL, TX. OR WARWICK, R.I. FOR INFORMATION REGARDING WIND & LIVE LOADS FOR THIS CONDITION
NOTE:
1) SEE SHEET 15 FOR TYPICAL DETAILS AT OPEN-BACK INTERMEDIATE HORIZONTALS WITH CW-250-FP-3 SHEAR BLOCKS.
2) TO AVOID INTERFERENCE WITH SHEAR BLOCK FASTENERS, INSTALL ALL STEEL REINFORCING CHANNELS PRIOR TO SECURING SHEAR BLOCKS TO MULLIONS.
3) THE USE OF REINFORCING CHANNELS REQUIRES THAT THE CW-250-FP-1 & 2 SHEAR BLOCKS BE SECURED WITH FS-27 FASTENERS IN LIEU OF THE FS-43 FASTENERS TYPICALLY USED WHEN THE MULLION IS NOT REINFORCED. (SEE SHEET 10 FOR THE TYPICAL UNREINFORCED CONDITION.)
4) CW-250-PP-15 REINFORCING CHANNEL MAY BE USED ALONE, OR IN COMBINATION WITH CW-250-FP-16 OR CW-250-FP-17 (SEE SHEET 72 FOR LOAD TABLES.)
5) SEE SHEETS 9 & 10 FOR FABRICATION OF MULLION AND SHEET 69 FOR LOCATION OF BOLT FOR ATTACHMENT OF REINFORCING CHANNELS.
SILL SECTION (HEAD SIMILAR)

CW-12 SILL

SHIM CHANNELS SNUG (NBV)

(2) 3/8" - 16 X 1 1/2" ASSEMBLY BOLT W/ WASHERS. (NBV) (NOTE: ENLARGE HOLE IN ANCHOR TO FIT.)

CW-250-FP-2 SHEAR BLOCK (SEE NOTE #1)

7/16 Ø HOLES IN MULLION & REINF CHANNELS (NBV)

SPANDRFI SECTION

FS-9 TYP (#14 X 1 1/2" HH) INSTALL ALL FASTENERS AFTER REINF. STEEL IN PLACE INSIDE MULL

FS-114 @ 18" O.C. (#8 X 3/8" PPHSMS) DRILL CLEAR HOLE IN CW-10 ADAPTOR. USE WASHER (NBV) IF REQ'D TO PREVENT SCREW FROM TOUCHING STEEL
MULLION REINFORCEMENT DETAILS CONT'D.

SHIM CHANNELS
SNUG (NBV)

1/2" - 13 X 2" HHB
W/ WASHERS (NBV)
(STAKE THREADS TO SECURE NUT (NBV))

CLIP ANGLE
(NBV)

KNEE BRACE ANGLE (NBV)

ACCESS HOLE IN MULLION IF REQ'D (NBV)

9/16" Ø HOLE IN MULL, CLIP ANGLE AND CHANNELS (NBV)

ANCHOR AT TOP

CW-21 MULLION (CW-1 & CW-7 SIM.)

3/8"
CW-250 1 INCH CURTAINWALL SYSTEM

WIND LOAD - SINGLE SPAN

The following data is based on a single-span condition. The formulas in AISC are used to obtain the results. For spans up to 13' - 6" max. defl. L/175, for spans greater than 13' - 6" max. defl. L/240 + 1/4" per AAMA TIR-A11-1996; T-6 Alum. is used.

WIND LOAD - TWIN SPAN

The following data is based on a twin-span condition & max. defl. L/175 and/or max. stress of 20000 PSI.
WIND LOAD - SINGLE SPAN

THE FOLLOWING DATA IS BASED ON A SINGLE-SPAN CONDITION. THE FORMULAS IN AISC ARE USED TO OBTAIN THE RESULT. FOR SPANS UP TO 13' - 6" MAX. DEFL. L/175, FOR SPANS GREATER THAN 13' - 6" MAX. DEFL. L/240 + 1/4 PER AAMA TIR-A11-1996; T-6 ALUM. IS USED.
THE FOLLOWING DATA IS BASED ON 1/4 & 1/8 OF SPAN POINT LOADING. THE FORMULAS IN AISC ARE USED TO OBTAIN THE RESULTS. MAX. DEFL. 1/8"; GLASS THICKNESS AS NOTED.
CW-250 1 INCH CURTAINWALL SYSTEM

MULLION REINFORCEMENT DETAILS

NOTE: SECURE REINFORCEMENT WITH THRU BOLT AT END OF MULLION.

NOTE: INSTALL FASTENERS AFTER REINF. STEEL IS IN PLACE INSIDE MULL.

CW-252 MULLION
CW-496

1/2" X 6" STL. BAR

CW-250-FP-1 SHEAR BLOCK

FS-27 TYP.
NOTE: INSTALL FASTENERS AFTER REINF. STEEL IS IN PLACE INSIDE MULL.
THE FOLLOWING DATA IS BASED ON A SINGLE-SPAN CONDITION. THE FORMULAS IN AISC ARE USED TO OBTAIN THE RESULTS. MAX. DEFL. L/175; T-6 ALUM. IS USED.

CW-252
\[ \text{I}_{xx} = 42.258 \text{ in}^4 \]

CW-252 W/ CW-496
\[ \text{I}_{xx} = 74.31 \text{ in}^4 \]

CW-252 W/ CW-496 & (1) 1/2" X 6" STEEL BAR
\[ \text{I}_{xx} = 100.41 \text{ in}^4 \]

CW-252 W/ CW-496 & (2) 1/2" X 6" STEEL BARS
\[ \text{I}_{xx} = 126.51 \text{ in}^4 \]
CW-250 1 INCH CURTAINWALL SYSTEM

MULLION REINFORCEMENT DETAILS

NOTE: SECURE REINFORCEMENT WITH THRU BOLT AT END OF MULLION.

FS-27 TYP.
NOTE: INSTALL FASTENERS AFTER REINF. STEEL IS IN PLACE INSIDE MULL.

CW-544 MULLION
CW-1352
1/2" X 6" STL. BAR

CW-250-FP-1 SHEAR BLOCK
WIND LOAD - SINGLE SPAN

THE FOLLOWING DATA IS BASED ON A SINGLE-SPAN CONDITION. THE FORMULAS IN AISC ARE USED TO OBTAIN THE RESULTS. MAX. DEFL. L/240 + 1/4"; T-6 ALUM. IS USED.

CW-544
I_{xx} = 35.902 \text{ in}^4

CW-544 W/ CW-496
I_{xx} = 67.954 \text{ in}^4

CW-544 W/ CW-496 & (1) 1/2" X 6" STEEL BAR
I_{xx} = 94.054 \text{ in}^4

CW-544 W/ CW-496 & (2) 1/2" X 6" STEEL BARS
I_{xx} = 120.154 \text{ in}^4

MULLION SPACING (FEET)

MAXIMUM HEIGHT (FEET)

15 PSF

20

25

30

35

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

MAXIMUM HEIGHT (FEET)

MULLION SPACING (FEET)

15 PSF

20

25

30

35

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8
## CW-250 1" Parts Cross Reference

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<th>Catalog No.</th>
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<td>CW-250-FP-1</td>
<td>6450</td>
<td>20/box</td>
<td>Shear Block, CW-1 Intermediate Horizontal</td>
</tr>
<tr>
<td>CW-250-FP-2</td>
<td>6451</td>
<td>20/box</td>
<td>Shear Block, CW-12 Head/Sill</td>
</tr>
<tr>
<td>CW-250-FP-3</td>
<td>6452</td>
<td>20/box</td>
<td>Shear Block, CW-13 &amp; CW-14 Horizontals</td>
</tr>
<tr>
<td>CW-250-FP-4</td>
<td>6459</td>
<td>20/box</td>
<td>Captured Glazing Temporary Cup</td>
</tr>
<tr>
<td>CW-250-FP-5</td>
<td>1201</td>
<td>Each</td>
<td>Glazing Gasket Application Tool</td>
</tr>
<tr>
<td>CW-250-FP-7</td>
<td>6465</td>
<td>20/box</td>
<td>Shear Block, CW-22 (90 Deg.) Corner Mull</td>
</tr>
<tr>
<td>CW-250-FP-13</td>
<td>6467</td>
<td>10/box</td>
<td>90 Deg Corner Mull Anchor</td>
</tr>
<tr>
<td>CW-250-FP-14</td>
<td>6468</td>
<td>10/box</td>
<td>90 Deg Corner Mull Anchor (Opp. Hand)</td>
</tr>
<tr>
<td>CW-250-FP-15</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 4 3/4&quot; x 1 7/8&quot;</td>
</tr>
<tr>
<td>CW-250-FP-16</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 4 1/4&quot; x 1 1/2&quot;</td>
</tr>
<tr>
<td>CW-250-FP-17</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 3 3/4&quot; x 1 5/16&quot;</td>
</tr>
<tr>
<td>CW-250-FP-19</td>
<td>4169</td>
<td>100/box</td>
<td>Butt Glaze Temporary Retainer</td>
</tr>
<tr>
<td>CW-250-PP-15</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 4 5/8&quot; x 1 5/8&quot;</td>
</tr>
<tr>
<td>CW-250-PP-25</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 4 3/4&quot; x 1 1/2&quot;</td>
</tr>
<tr>
<td>CW-250-PP-16</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 3 3/4&quot; x 1 5/16&quot;</td>
</tr>
<tr>
<td>CW-250-PP-17</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 3 3/4&quot; x 1 5/16&quot;</td>
</tr>
<tr>
<td>CW-250-FP-19</td>
<td>4169</td>
<td>100/box</td>
<td>Butt Glaze Temporary Retainer</td>
</tr>
<tr>
<td>CW-250-FP-25</td>
<td>——</td>
<td>——</td>
<td>Reinforcement Channel 4 5/8&quot; x 1 5/8&quot;</td>
</tr>
<tr>
<td>CW-250-FP-50</td>
<td>4897</td>
<td>10/box</td>
<td>135 Deg. Corner Mullion Anchor</td>
</tr>
<tr>
<td>CW-250-FP-51</td>
<td>4898</td>
<td>10/box</td>
<td>135 Deg. Corner Mullion Anchor (Opp. Hand)</td>
</tr>
<tr>
<td>CW-250-FP-52</td>
<td>4899</td>
<td>20/box</td>
<td>Shear Block, CW-161 (135 Deg) Corner Mullion</td>
</tr>
<tr>
<td>CW-250-FP-86</td>
<td>6540</td>
<td>20/box</td>
<td>Mull End Cap</td>
</tr>
<tr>
<td>CW-250-FP-92</td>
<td>6257</td>
<td>20/box</td>
<td>Mull End Cap at 90 Deg. Corner</td>
</tr>
<tr>
<td>CW-250-FP-94</td>
<td>6562</td>
<td>20/box</td>
<td>Mull End Cap at 135 Deg. Corner</td>
</tr>
<tr>
<td>CW-250-PP-108</td>
<td>6889</td>
<td>50/box</td>
<td>Horizontal Water Diverter</td>
</tr>
<tr>
<td>CW-250-FP-148</td>
<td>727</td>
<td>10/box</td>
<td>Head Anchor for CW-1</td>
</tr>
<tr>
<td>CW-9</td>
<td>6456</td>
<td>100/box</td>
<td>EPDM Setting Block</td>
</tr>
<tr>
<td>SCW-9</td>
<td>6457</td>
<td>100/box</td>
<td>Silicone Setting Block</td>
</tr>
<tr>
<td>HP-17</td>
<td>10267</td>
<td>200/box</td>
<td>Setting Block 1/4&quot; Glazing Only</td>
</tr>
<tr>
<td>CW-17</td>
<td>501</td>
<td>500 FT/Roll</td>
<td>EPDM Exterior Glazing Gasket</td>
</tr>
<tr>
<td>CW-187</td>
<td>4948</td>
<td>250 FT/Roll</td>
<td>EPDM Head/Sill Pressure Plate Spacer</td>
</tr>
<tr>
<td>CW-998</td>
<td>600</td>
<td>2000 FT/Roll</td>
<td>Bulb Gasket for Expansion Mulls</td>
</tr>
<tr>
<td>CW-1636</td>
<td>734</td>
<td>50 FT/Roll</td>
<td>Interior Glazing Gasket</td>
</tr>
<tr>
<td>P3247</td>
<td>209</td>
<td>500 FT/Roll</td>
<td>Interior Glazing Gasket at Live Load</td>
</tr>
<tr>
<td>V2100</td>
<td>235</td>
<td>25 FT/Roll</td>
<td>Interior Butt Glaze Spacer Gasket</td>
</tr>
<tr>
<td>CW-13</td>
<td>6460</td>
<td>Each</td>
<td>Mull Pres. Plate W/ CW-6 Isolator; Punched</td>
</tr>
<tr>
<td>CW-16</td>
<td>6461</td>
<td>Each</td>
<td>Jamb Pres. Plate W/ CW-6 Isolator; Punched</td>
</tr>
<tr>
<td>CW-29</td>
<td>6462</td>
<td>Each</td>
<td>OS90 CRNR (BG) Face Cap Retainer W/ CW-6</td>
</tr>
<tr>
<td>CW-30</td>
<td>6463</td>
<td>Each</td>
<td>IS90 CRNR Pres. Plate W/ CW-6; Punched</td>
</tr>
<tr>
<td>CW-31</td>
<td>6464</td>
<td>Each</td>
<td>OS90 CRNR Pres. Plate W/ CW-6; Punched</td>
</tr>
<tr>
<td>CW-65</td>
<td>4723</td>
<td>20/box</td>
<td>Splice; CW-1 Mullion</td>
</tr>
<tr>
<td>CW-66</td>
<td>4724</td>
<td>20/box</td>
<td>Splice; CW-7 Mullion</td>
</tr>
<tr>
<td>CW-67</td>
<td>4725</td>
<td>20/box</td>
<td>Splice; CW-21 Mullion</td>
</tr>
<tr>
<td>CW-68</td>
<td>4735</td>
<td>20/box</td>
<td>Splice; CW-63 &amp; CW-64 Expansion Mulls</td>
</tr>
<tr>
<td>CW-71</td>
<td>4736</td>
<td>20/box</td>
<td>Splice; CW-22 (90 Deg) Corner Mullion</td>
</tr>
<tr>
<td>CW-163</td>
<td>4900</td>
<td>20/box</td>
<td>Splice; CW-161 (135 Deg) Corner Mullion</td>
</tr>
<tr>
<td>CW-164</td>
<td>6408</td>
<td>Each</td>
<td>IS135 Corner Pres. Plate W/ CW-6; Punched</td>
</tr>
<tr>
<td>CW-166</td>
<td>6409</td>
<td>Each</td>
<td>OS135 Corner Pres. Plate W/ CW-6; Punched</td>
</tr>
<tr>
<td>CW-170</td>
<td>6410</td>
<td>Each</td>
<td>OS135 Corner Face Cap Retainer W/ CW-6</td>
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<tr>
<td>FS-7 CLR</td>
<td>10220</td>
<td>200/box</td>
<td>Optional Fastener-Horiz. To Shear Block</td>
</tr>
<tr>
<td>FS-7 BRZ</td>
<td>10221</td>
<td>200/box</td>
<td>Optional Fastener-Horiz. To Shear Block</td>
</tr>
<tr>
<td>FS-8</td>
<td>10223</td>
<td>100/box</td>
<td>Fasteners; Splices To Mullion</td>
</tr>
<tr>
<td>FS-9</td>
<td>6495</td>
<td>100/box</td>
<td>Fasteners; Shear Block To Mullion</td>
</tr>
<tr>
<td>FS-27</td>
<td>10208</td>
<td>200/box</td>
<td>Fasteners; Shear Block To Mullion</td>
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<tr>
<td>FS-41</td>
<td>6317</td>
<td>200/box</td>
<td>Fasteners; Isolator To Mullion</td>
</tr>
<tr>
<td>FS-42</td>
<td>6469</td>
<td>200/box</td>
<td>Fasteners; Horizontal To Shear Block</td>
</tr>
<tr>
<td>FS-43</td>
<td>10211</td>
<td>200/box</td>
<td>Fasteners; Adaptor To Mullion</td>
</tr>
<tr>
<td>FS-114</td>
<td>6318</td>
<td>200/box</td>
<td>Fasteners; Adaptor To Mullion</td>
</tr>
<tr>
<td>FS-119</td>
<td>6493</td>
<td>100/box</td>
<td>Fasteners; CW-37 Adaptors</td>
</tr>
<tr>
<td>FS-202</td>
<td>4910</td>
<td>100/box</td>
<td>Fasteners; End Cap To Mullion</td>
</tr>
<tr>
<td>FS-214</td>
<td>10205</td>
<td>200/box</td>
<td>Fasteners; CW250-FP-19 Glazing Retainer</td>
</tr>
<tr>
<td>FS-322</td>
<td>6453</td>
<td>200/box</td>
<td>Fasteners; Pres. Plate, Door Frame, Adaptors</td>
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<tr>
<td>FS-323</td>
<td>6455</td>
<td>200/box</td>
<td>Fasteners; Horizontal To Shear Block</td>
</tr>
<tr>
<td>FSW-324</td>
<td>6454</td>
<td>100/box</td>
<td>Lack Washer; Use W/ FS-43 @ CW250-FP-2 Shear Block</td>
</tr>
</tbody>
</table>