# RELIANCE™ CURTAIN WALL
## 2-1/2" X 7-1/4" - 1" GLAZING

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- July 2019
Reliance™ Curtain Wall
2-1/2" x 7-1/4" w/ 1" Glazing - Elevation

July 2019
1-866-OLDCASTLE (653-2278) www.obe.com

Note: For Door Models visit: http://www.obe.com/products/entrances/swing-entrances/standard-ns-212ms-375ws-500-door-and-frame
Reliance™ Curtain Wall
Head at Vision - H3401

Pipe Sleeve Anchor (By Others)

Backer Rod & Sealant (By Others)

See Top Views for Mullion Cap Info

WW-501 Head

WW-104-01 Shear Block Anchor
See Top View for "T" Anchor Option

WW-162 Pressure Plate w/ GP-107 Isolator and (2) 5/16" Weep Holes
Per D.L.O.
Field Attach w/ FS-325 @ 9" O.C.

5/16" Weep Hole @ C.L. of D.L.O.

WWW-110

WWW-181-01 Shear Block @ Jamb & Mullions
Attach to Verticals w/ FS-9,
Attach to Horizontals w/ FS-115.
Seal Prior to Installing Horizontal.
See Top Views for Shear Blocks @ Corners.

1" Glazing

GP-103 Gaskets Typ.

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Reliance™ Curtain Wall
Sill at Vision - H3404

WWW-502 SILL
WWW-104-01 SHEAR BLOCK ANCHOR
WWW-181-01 SHEAR BLOCK @ JAMB & MULLIONS
ATTACH TO VERTICALS W/ FS-9, ATTACH TO HORIZONTALS W/ FS-115. SEAL PRIOR TO INSTALLING HORIZONTAL. SEE TOP VIEWS FOR SHEAR BLOCKS @ CORNERS.

1" GLAZING ON GP-109 SETTING BLOCK
WWW-110 FACE CAP
5/16" WEEP HOLES
WW-162 PRESSURE PLATE W/ GP-107 ISOLATOR AND (2) 5/16" WEEP HOLES PER D.L.O.
FIELD ATTACH W/ FS-325 @ 9" O.C.
5/16" WEEP HOLE @ C.L. OF D.L.O.
GP-103 GASKETS TYP.
BACKER ROD & SEALANT (BY OTHERS)
SHIM (BY OTHERS)
SEE TOP VIEW FOR MULLION CAP INFO
WWW-104-01 SHEAR BLOCK ANCHOR
SEE TOP VIEW FOR "T" ANCHOR OPTION
ANCHOR BOLT (BY OTHERS)
1" GLAZING ON GP-109
SETTING BLOCK

WW-110 FACE CAP

WW-162 PRESSURE
PLATE W/ GP-107
ISOLATOR AND (2) 5/16"
WEEP HOLES PER D.L.O.
FIELD ATTACH W/ FS-325
@ 9" O.C.

5/16" WEEP HOLE
@ C.L. OF D.L.O.

GP-103 GASKETS TYP.

WW-181-01 SHEAR BLOCK
ATTACH TO VERTICAL W/ FS-9, ATTACH
TO HORIZONTAL W/ FS-115. SEAL PRIOR
TO INSTALLING HORIZONTAL. SEE TOP
VIEW FOR SHEAR BLOCK AT CORNERS.

Reliance™ Curtain Wall
Intermediate Horizontal at Vision - H3405
Reliance™ Curtain Wall
Roll-over Horizontal at Vision - H3408

1" GLAZING ON GP-109 SETTING BLOCK

WW-110 FACE CAP

WW-162 PRESSURE PLATE W/ GP-107 ISOLATOR AND (2) 5/16" WEEP HOLES PER D.L.O. FIELD ATTACH W/ FS-325 @ 9" O.C.

5/16" WEEP HOLE @ C.L. OF D.L.O.

WW-181-01 SHEAR BLOCK ATTACH TO VERTICAL W/ FS-9, ATTACH TO HORIZONTAL W/ FS-115. SEAL PRIOR TO INSTALLING HORIZONTAL. SEE TOP VIEW FOR SHEAR BLOCK AT CORNERS.

WW-532 HORIZONTAL

WW-237 SNAP COVER

GP-103 GASKETS TYP.

7 1/4"

WW-181-01 SHEAR BLOCK ATTACH TO VERTICAL W/ FS-9, ATTACH TO HORIZONTAL W/ FS-115. SEAL PRIOR TO INSTALLING HORIZONTAL. SEE TOP VIEW FOR SHEAR BLOCK AT CORNERS.

WW-532 HORIZONTAL

WW-237 SNAP COVER

GP-103 GASKETS TYP.

7 1/4"
1" GLAZING ON GP-109 SETTING BLOCK

WW-162 PRESSURE PLATE W/ GP-107 ISOLATOR AND (2) 5/16" WEEP HOLES PER D.L.O. FIELD ATTACH W/ FS-325 @ 9" O.C.

WW-110 FACE CAP

5/16" WEEP HOLE @ C.L. OF D.L.O.

WW-181-01 SHEAR BLOCK ATTACH TO VERTICAL W/ FS-9, ATTACH TO HORIZONTAL W/ FS-115. SEAL PRIOR TO INSTALLING HORIZONTAL. SEE TOP VIEW FOR SHEAR BLOCK AT CORNERS.

WW-237 SNAP COVER

WW-533 HORIZONTAL

GP-103 GASKETS TYP.

2 1/2" D.L.O.

7 1/4" D.L.O.
"POCKET FRAME" OPERABLE WINDOW. GO TO OBE.COM/PRODUCTS/ARCHITECTURAL-WINDOWS FOR THE MOST CURRENT DETAILS AND VENT OPTIONS.

Reliance™ Curtain Wall
Horizontal at Operable Window - H3418

WW-110 FACE CAP

WW-162 PRESSURE PLATE W/ GP-107 ISOLATOR AND (2) 5/16" WEEP HOLES PER D.L.O. FIELD ATTACH W/ FS-325 @ 9" O.C.

GP-103 GASKETS TYP.

7 1/4"

2 1/2"

7 1/4"
Reliance™ Curtain Wall
Horizontal at Operable Window - H3419

- WW-100 FACE CAP
- WW-122 POCKET FILLER
  Set in sealant.
  Attach w/ cap sealed
  FS-322 @ 18" O.C.

- WW-162 PRESSURE
  PLATE W/ GP-107
  ISOLATOR AND (2) 5/16" WEEP HOLES PER D.L.O.
  FIELD ATTACH W/ FS-325 @ 9" O.C.

- GP-103
  GASKETS TYP.

"FLAT FRAME" OPERABLE WINDOW. GO TO OBE.COM/PRODUCTS/ARCHITECTURAL-WINDOWS THE MOST CURRENT DETAILS AND VENT OPTIONS.

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H3419-Flat-Frame-OperWin
Reliance™ Curtain Wall
Open Back Jamb Vertical - V3401
Reliance™ Curtain Wall
Typical Vertical Mullion - V3402

WW-500 MULLION
WW-102-01 "T" ANCHOR
WW-181-01 SHEAR BLOCKS
WW-325 MULLION CAP
ATTACH W/ FS-320
WW-110 FACE CAP
WW-162 PRESSURE PLATE W/
GP-107 ISOLATOR
FIELD ATTACH W/ FS-325 @ 9" O.C.
GP-103 GASKETS TYP.
1" GLAZING
D.L.O. 2 1/2" D.L.O.
Reliance™ Curtain Wall
Tubular Jamb Vertical - V3408

WW-503 JAMB
WW-103-01 "F" ANCHOR

WW-338-01 MULLION CAP
ATTACH W/ FS-320

BACKER ROD & SEALANT (BY OTHERS)

GP-103 GASKETS TYP.

WW-181-01 SHEAR BLOCK

WW-162 PRESSURE PLATE W/ GP-107 ISOLATOR
FIELD ATTACH W/ FS-325 @ 9" O.C.

1" GLAZING

1/2"  2 1/2"  7 1/4"  D.L.O.
Reliance™ Curtain Wall
SSG Vertical Mullion - V3452

- WW-504 SSG MULLION
- WW-02-02 "T" ANCHOR
- WW-181-01 SHEAR BLOCKS
- WW-327 MULLION CAP
- WW-300 ZONE BRIDGE
- GP-105 GASKETS & STRUCT.
- SILICONE SEALANT
  (SEALANT BY OTHERS)
- D.L.O.
- BACKER ROD & SEALANT
  (BY OTHERS)
- 1" GLAZING
- 1/2"
- 2 1/2"
- LINE OF FACE CAP
  AT HORIZONTAL

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V3452-SSG-Vertical
Reliance™ Curtain Wall
Vertical Mullion at SSG to Captured Transition - V3453

WW-504 SSG MULLION

WW-181-01 SHEAR BLOCKS

WW-141 MULLION TONGUE ATTACH TO MULLION W/ FS-318, STAGGER W/ FS-325

WW-110 FACE CAP

GP-103 EXT. GASKETS

GP-105 GASKETS & STRUCT. SILICONE SEALANT (SEALANT BY OTHERS)

WW-162 PRESSURE PLATE W/ GP-107 ISOLATOR FIELD ATTACH W/ FS-325 @ 9" O.C.

WW-327 MULLION CAP WW-300 ZONE BRIDGE

1" GLAZING

2 1/2"

D.L.O.

D.L.O.
Reliance™ Curtain Wall
SSG Vertical Mullion at Spandrel - V3457

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WW-504 SSG MULLION

WW-181-01 SHEAR BLOCKS

GP-105 GASKETS & STRUCT. SILICONE SEALANT (SEALANT BY OTHERS)

BACKER ROD & SEALANT (BY OTHERS)

F-57 TUBE (1" X 1" X 1/8") LENGTH = D.L.O. + 1-1/2". ATTACH W/ FS-318, (1) @ EACH END

ZERO SIGHTLINE TYPE OPERABLE WINDOW. GO TO OBE.COM/PRODUCTS/ARCHITECTURAL-WINDOWS/ FOR THE MOST CURRENT DETAILS AND VENT OPTIONS.

Reliance™ Curtain Wall
SSG Mullion at Operable Window - V3459

July 2019

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V3459-SSG-Vert-w-Oper-Win
Reliance™ Curtain Wall
90° Outside Corner - V3415

AN-1 ALUM. ANGLES
3/4" x 3/4" x 1/8"

WW-503 JAMBS

WW-103-01 "F" ANCHORS

WW-181-01 SHEAR BLOCKS

WW-110 FACE CAPS

WW-338-01 MULLION CAPS
ATTACH W/ FS-320

AN-2 ALUM. ANGLE
1" x 1" x 1/8"

FS-55
(2) PER ANCHOR LOCATION

AN-1 ALUM. ANGLES
SHOP ATTACHED AT HEAD & SILL FOR PERIMETER SEALANT

1/8" FORMED ALUM. CLOSURE

BACKER ROD & SEALANT
(BY OTHERS)

1 1/2"

2 1/2"

6 3/4"

D.L.O.

1/2"

1" GLAZING

WW-162 PRESSURE PLATES W/ GP-107 ISOLATORS FIELD ATTACH W/ FS-325 @ 9" O.C.
Reliance™ Curtain Wall
90° Inside Corner - V3417

V3417-90-ISC-2mull

- WW-503 JAMBS
- WW-181-01 SHEAR BLOCKS
- WW-103-01 "F" ANCHORS
- AN-1 ALUM. ANGLES (3/4" X 3/4" X 1/8")
- 1/2" WW-110 FACE CAPS
- GP-103 GASKETS TYP.
- WW-338-01 MULLION CAPS ATTACH W/ FS-320
- WW-162 PRESSURE PLATES W/ GP-107 ISOLATORS FIELD ATTACH W/ FS-325 @ 9" O.C.
- WW-103-01 "F" ANCHORS
- SHIMS, BACKER RODS & SEALANT (BY OTHERS)
- 1/8" FORMED ALUM. CLOSURES
- AN-1 ALUM. ANGLES SHOP ATTACHED AT HEAD & SILL FOR PERIMETER SEALANT

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Reliance™ Curtain Wall
90° Outside Corner at Vision - V3421

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Reliance™ Curtain Wall

135° Outside Corner at Vision - V3423

WW-221 FILLER

WW-230 MULLION

WW-180-02 SHEAR BLOCKS

WW-230 MULLION

WW-321 MULLION CAP
ATTACH W/ FS-320

GP-103 GASKETS TYP.

WW-113 FACE CAPS
ATTACH W/ FS-320

WW-164 PRESSURE PLATE W/ GP-107 ISOLATOR
FIELD ATTACH W/ FS-325 @ 9" O.C.

WW-308 ZONE PLUG (BOTH SIDES)

1" GLAZING

2 3/16" D.L.O.

2 1/2" W

7 1/4"

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Reliance™ Curtain Wall
90° Inside Corner at Vision - V3425
Reliance™ Curtain Wall
135° Inside Corner at Vision - V3427

WW-221 FILLER
WW-180-02 SHEAR BLOCKS
WW-102-06 "T" ANCHOR
WW-137 GLAZING BEAD
SET IN SEALANT & ATTACH
W/ FS-322 @ 18" O.C.

WW-230 MULLION
WW-111 FACE CAP
WW-317 MULLION CAP
ATTACH W/ FS-320

GP-103 GASKETS TYP.
WW-304 ZONE PLUG
WW-163 PRESSURE PLATE
W/ GP-107 ISOLATOR
FIELD ATTACH W/ FS-325
@ 9" O.C.

1 7/16" D.L.O.
Reliance™ Curtain Wall
135° SSG Outside Corner at Vision - V3473

WW-221 FILLER
WW-230 MULLION
WW-180-02 SHEAR BLOCKS
WW-321 MULLION CAP (ATTACH W/ FS-320)
WW-310 ZONE BRIDGE
WW-114 FACE CAP
WW-102-06 "T" ANCHOR
WW-180-02 SHEAR BLOCKS
WW-114 FACE CAP
WW-310 ZONE BRIDGE
WW-168 MULLION ADAPTOR
ATTACH W/ FS-325 @ 9" O.C.
GP-105 GASKETS & STRUCT. SILICONE SEALANT
(SEALANT BY OTHERS)
1" GLAZING
BACKER RODS & SEALANT (BY OTHERS)
9/16" 1/2" 7 1/4" 2 1/2"
Reliance™ Curtain Wall
135° SSG Outside Corner at Spandrel - V3574

WW-102-06 "T" ANCHOR
WW-230 MULLION
WW-135 GLAZING ADAPTORS ATTACH W/ FS-323 @ 12" O.C.
WW-114 FACE CAP
WW-310 ZONE PLUG
WW-321 MULLION CAP (ATTACH W/ FS-320)
WW-168 MULLION ADAPTOR ATTACH W/ FS-325 @ 9" O.C.
GP-105 GASKETS & STRUCT. SILICONE SEALANT (SEALANT BY OTHERS)
WW-180-02 SHEAR BLOCKS
WW-220 FILLER
1/4" GLAZING

1/2"

9/16"
Reliance™ Curtain Wall
90° SSG Inside Corner at Vision - V3475

- WW-220 FILLER
- WW-241 MULLION
- WW-180-03 SHEAR BLOCKS
- WW-102-07 "T" ANCHOR
- GP-105 GASKET & STRUCT. SILICONE SEALANT (SEALANT BY OTHERS)
- 1" GLAZING
- WW-200 FILLER
- WW-336 ZONE PLUG
- WW-337 MULLION CAP
  ATTACH CAP W/ FS-320

WW-180-03
SILICONE SEALANT
(SEALANT BY OTHERS)

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Reliance™ Curtain Wall
90° SSG Inside Corner at Spandrel - V3476

WW-220 FILLER
WW-241 MULLION

WW-180-03 SHEAR BLOCKS
WW-133 GLAZING BEADS
ATTACH W/ FS-323 @ 12" O.C.

WW-336 ZONE PLUG
WW-337 MULLION CAP
ATTACH CAP W/ FS-320

GP-105 GASKET & STRUCT.
SILICONE SEALANT
(SEALANT BY OTHERS)

1/4" GLAZING

WW-102-07 "T" ANCHOR

BACKER ROD & SEALANT
(BY OTHERS)

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V3476-SSG-90-ISC
Standard Curtain Wall
Steel Anchor - H0042

WELD AS REQUIRED BY INSTALLER

FLOOR SLAB OR BEAM
WW-2223 JAMB ANCHOR PLATE
ATTACH W/ (6) FS-336 (1/4"-20 X 1-1/8" HWH DRILL FLEX)

ACCESS HOLE

ANCHOR BOLT (BY OTHERS)

HOLE IN ANCHOR @ DEAD LOAD
SLOT IN ANCHOR @ WIND LOAD

STEEL ANCHOR DESIGN DETERMINED BY ENGINEER. SEE APPROVED SHOP DRAWINGS.

ANCHOR BOLT (BY OTHERS)

FLOOR SLAB OR BEAM
WW-2223 JAMB ANCHOR PLATE
ATTACH W/ (6) FS-336 (1/4"-20 X 1-1/8" HWH DRILL FLEX)

ACCESS HOLE

ANCHOR BOLT (BY OTHERS)

HOLE IN ANCHOR @ DEAD LOAD
SLOT IN ANCHOR @ WIND LOAD

STEEL ANCHOR DESIGN DETERMINED BY ENGINEER. SEE APPROVED SHOP DRAWINGS.
NOTE:
1. ANCHOR BOLT DESIGNED BY STRUCTURAL ENGINEER.
2. WWW-104-01 ALUM. ANCHOR MAXIMUM ALLOWABLE END REACTION IS 375 LBS. PER ANCHOR, I.E. 375 LBS. AT JAMB VERTICAL, 750 LBS. AT INTERMEDIATE VERTICAL.
### "F" Anchor Chart

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<th>MULLION</th>
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<td>WW-504 / WW-510 / WW-560</td>
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<td>WW-400 / WW-403 / WW-450 / WW-453</td>
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<td>WW-404 / WW-410 / WW-460</td>
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<td>WW-103-05</td>
<td>WW-240 (90° Corner)</td>
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<td>WW-103-06</td>
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<td>WW-103-07</td>
<td>WW-241 (135° Inside SSG Corner)</td>
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<td>WW-105-01</td>
<td>WW-800 / WW-804 / WW-850</td>
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<td>WW-105-02</td>
<td>WW-810</td>
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<td>WW-105-06</td>
<td>WW-1175 (90° Outside Corner)</td>
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### "T" Anchor Chart

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<td>WW-400 / WW-450</td>
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<td>WW-404 / WW-410 / WW-460</td>
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<tr>
<td>WW-102-05</td>
<td>WW-240 (90° Corner)</td>
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<td>WW-102-06</td>
<td>WW-230 (135° Corner)</td>
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<td>WW-102-07</td>
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<td>WW-810</td>
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<tr>
<td>WW-105-06</td>
<td>WW-1175 (90° Outside Corner)</td>
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**Note:**

1. Anchor bolt size and location determined by structural engineer.

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Reliance™ Curtain Wall
"F" & "T" Anchors - H3425

July 2019

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H3425-F-T-Mull-Anchors
Reliance™ Curtain Wall
Perimeter Anchor - H3429

ALL STANDARD RELIANCE 1" SYSTEMS EXCEPT 10"

HEAD ANCHOR RUNS THROUGH
FORMED ALUM. SLEEVE @ JAMB
ANCHOR @ JAMB
SILL ANCHOR RUNS THROUGH

ACCESS HOLE ALIGNED W/ FASTENER TYP.
ANCHOR BOLT (BY OTHERS) TYP.

FORMED ALUM. SLEEVE @ HEAD & SILL
3" LONG, SET IN SEALANT

NOTCH JAMBS @ TOP & BOTTOM

WEEP HOLES (2) PER LITE
BACKER ROD & SEALANT (BY OTHERS)
NOTE: DO NOT SEAL OVER WEEP HOLES

WW-100 PERIMETER ANCHOR SET IN SEALANT
ATTACH W/ FS-325 @ 12" O.C. AND CAP SEAL (TYP.)

WW-432 WW-532
5/8" 2 1/2"

WW-433 WW-533
6" 7 1/4"

WW-433 WW-533
6" 7 1/4"
Reliance™ Curtain Wall
Steel Reinforcement - H3430

SEE APPROVED SHOP DRAWINGS FOR SPECIFIC REQUIREMENTS.

REF. INSTALLATION MANUAL FOR ADDITIONAL INFO.

STEEL REINFORCING CHART

| A | RS-19 (1 9/16" X 4 13/16" 10 GA.) |
| B | PP-16 (1 1/2" X 4 1/4" 10 GA.)  |
| C | PP-17 (1 5/16" X 3 3/4" 10 GA.) |
| D | RS-18 (1 7/8" X 4 11/16" 10 GA.) |
| E | RS-22 (1 9/16" X 3 9/16" 10 GA.) |
| F | RS-21 (1 1/2" X 3" 10 GA.)      |
| G | RS-23 (1 7/8" X 3 7/16" 10 GA.) |
| H | STEEL BAR OPTION (BY OTHERS)    |
| J | 1/4"-20 X 3" HEX HEAD BOLT      |
|   | 1/4"-20 HEX NUT & WASHERS      |
| K | FS-259 (1/4"-20 X 1" PFH)      |
**Reliance™ Curtain Wall**

**Mullion Splice - H3443**

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**H3443-Mullion-Splice**

Reference installation manual for additional splice info.

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<th>6&quot; System Depth</th>
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<td>WW-191-01</td>
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</tr>
<tr>
<td>WW-241</td>
<td>WW-202-01</td>
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</tbody>
</table>

**NOTE:** Omit upper fasteners at expansion splice.

**Sealant** (by others)

**Line at glazing adaptor**

**Splice Centerline**
NOTES:
1. GP-110 setting block typical, except for GP-126 at 1/2" and 9/16" glazing.
2. Glass pocket with adaptor = 3/4" unless noted otherwise.
3. Glass pocket 1" at 1/2" and 9/16" glazing.
4. Adaptors/glazing beads set in sealant (sealant by others).
5. 1/2" and 9/16" glazing not available at inside corners.

GLASS CHART

<table>
<thead>
<tr>
<th>GLAZING THICKNESS</th>
<th>GASKET EXTERIOR</th>
<th>GASKET INTERIOR</th>
<th>GLAZING ADAPTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot; (.1875)</td>
<td>GP-118</td>
<td>GP-103</td>
<td>WW-130</td>
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<tr>
<td>1/4&quot; (.250)</td>
<td>GP-103</td>
<td>GP-103</td>
<td>WW-130</td>
</tr>
<tr>
<td>5/16&quot; (.3125)</td>
<td>GP-117</td>
<td>GP-103</td>
<td>WW-130</td>
</tr>
<tr>
<td>3/8&quot; (.375)</td>
<td>GP-117</td>
<td>GP-103</td>
<td><em>WW-1128</em></td>
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<tr>
<td>1/2&quot; (.500)</td>
<td>GP-103</td>
<td>GP-103</td>
<td><em>WW-1318</em></td>
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<tr>
<td>9/16&quot; (.5625)</td>
<td>GP-103</td>
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</tbody>
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*Non-stock item
Reliance™ Curtain Wall
Vision Glass Options - H3448

NOTE: 135° SINGLE MULL CORNER OPTIONS UNAVAILABLE ON 10" SYSTEM

NOTES:
1. Glass Pocket = 1-1/2" (Typical)
2. Glazing beads set in sealant (sealant by others)

<table>
<thead>
<tr>
<th>GLAZING THICKNESS</th>
<th>GASKET EXTERIOR</th>
<th>GASKET INTERIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8&quot; (0.875)</td>
<td>GP-118</td>
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<tr>
<td>15/16&quot; (0.9375)</td>
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<td>1&quot;</td>
<td>GP-103</td>
<td>GP-103</td>
</tr>
<tr>
<td>1-1/16&quot; (1.0625)</td>
<td>GP-117</td>
<td>GP-103</td>
</tr>
<tr>
<td>1-1/8&quot; (1.125)</td>
<td>GP-117</td>
<td>GP-117</td>
</tr>
</tbody>
</table>