SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM FOR USE IN HURRICANE ZONES REQUIRING LARGE & SMALL MISSILE IMPACT PROTECTION. (WET & DRY GLAZED)

GENERAL NOTES:
1. SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, (I.B.C.).
2. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1608 OF THE INTERNATIONAL BUILDING CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE PRODUCT WILL BE INSTALLED, AND FOR A DIRECTIONAL FACTOR Kg = 0.85. IN ACCORDANCE WITH ASCE 7-16 STANDARD, AND SHALL NOT EXCEED THE DESIGN PRESSURE RATING INDICATED ON NOTE 2.
3. IN ORDER TO AVOID THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
4. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.O. 2018.
5. THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1608.2 OF THE ABOVE MENTIONED CODE AS PER FLORIDA BUILDING CODE HIGH-VELOCITY HURRICANE ZONE (HVHZ). TESTING PERFORMED BY PMI TESTING, INC., LABORATORY REPORTS # 74765.02-401-18, 89681.01-401-18, 83107.01-401-18, 86111.01-401-18, 10105.01-801-18, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS PERFORMED AS PER SECTION 1604 OF THE ABOVE MENTIONED BUILDING CODE.
6. MAXIMUM DESIGN PRESSURE RATING FOR THIS WINDOW SYSTEM SHALL BE AS SHOWN ON SHEETS 6, 7, 8, 9A, 10, 18, AND 20.
7. THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
8. THIS PRODUCT IS APPROVED FOR AIR/WATER INfiltrATION (SEE SCHEDULE ON SHEET 7).
9. SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS SHALL COMPLY WITH SECTION 2406 OF THE INTERNATIONAL BUILDING CODE.
10. PROVIDE 1 3/8" MAX LOAD BEARING SHIM (TYP), WHEN ALLOWED BY THIS DRAWING.
11. WOOD BUCKS BY OTHER DESIGNERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, C.G. = 0.50.
12. REMAINING COMPONENTS OF THIS WINDOW SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.
13. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISILLIMAR MATERIALS SHALL COMPLY WITH SECTION II-6 OF THE ALUMINUM DESIGN MANUAL, 2015 EDITION.
14. ALL SCREWS AND BOLTS INSTALLED AT SEALED AREAS TO BE STEEL STAINLESS 304 OR 316 ALI SERIES AND MEET ASTM A167, OR HOT DIPPED GALVANIZED (AFTER FABRICATION) CARBON STEEL AS PER ASTM A123 OR 1015, OR HOT DIPPED GALVANIZED OR GALVALED (PRIOR TO FABRICATION) AND MEET ASTM A563 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.
15. ALL SCREWS AND BOLTS INSTALLED AT INLAND AREAS TO BE STEEL STAINLESS 304 OR 316 ALI SERIES AND MEET ASTM A167, OR HOT DIPPED GALVANIZED (AFTER FABRICATION) CARBON STEEL AS PER ASTM A123 OR 1015, OR HOT DIPPED GALVANIZED OR GALVALED (PRIOR TO FABRICATION) AND MEET ASTM A563, HOT DIPPED GALVANIZED OR ELECTRO GALVANIZED PER ASTM A611, MECHANICALLY DEPOSITED ZINC COATING PER ASTM B633.
16. SHOP DRAWINGS PREPARED BASED ON THIS T.D.J. REPORT AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
17. SUBSTRATE MATERIAL NOTED ON THIS DRAWING AS EXISTING BY OTHERS, POURED CONCRETE, GROUT FILLED BLOCK AND WOOD MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.
18. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECs INDICATED IN THIS Drawer PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED.
19. THIS P.E.D. PREPARED BY THIRD PARTY IS GENERAL AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e., WHERE THE SITE CONDITIONS DEPART FROM THE P.E.D.
20. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT. BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEPART FROM THE CONDITIONS DETAILED ON THIS DOCUMENT, CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
(e) ORIGINAL P.E.D. SHALL BE DAMAGED AND ORIGINALLY SIGNED AND THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

15. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH TEXAS DEPARTMENT OF INSURANCE REQUIREMENTS. ONE LABEL SHALL BE PLACED FOR OPENING.

INDEX:
1. SHEET 1: GENERAL NOTES, INDEX AND INSTRUCTIONS.
2. SHEET 2: COMPONENTS.
3. SHEET 3: BILL OF MATERIALS.
4. SHEET 4: ISOMETRIC ELEVATION FOR FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM.
5. SHEET 5: TYPICAL GLAZED PANELS.
6. SHEET 6: MAXIMUM DESIGN PRESSURE RATING SCHEDULE FOR A GIVEN GLASS TYPE AND GLASS PANEL DIMENSIONS.
7. SHEET 7: MAXIMUM DESIGN PRESSURE RATING FOR STANDARD AND CORNER MULLIONS.
8. SHEET 8: MAXIMUM DESIGN PRESSURE RATING FOR MULLION CONNECTIONS W/ 4" MIN. E.D. EXCEPT AS NOTED.
9. SHEET 9A: MAXIMUM DESIGN PRESSURE RATING FOR MULLION CONNECTIONS W/ 2 3/4" MIN. E.D. EXCEPT AS NOTED.
10. SHEET 9B: SILL AND HEAD CONNECTION DETAILS FOR STANDARD MULLIONS AND JAMS (PLAN VIEWS).
11. SHEET 10: SILL AND HEAD CONNECTION DETAILS FOR CORNER MULLIONS (PLAN VIEWS).
12. SHEET 11: HEAD CONNECTION DETAILS (SIDE VIEW).
13. SHEET 12: HEAD CONNECTION DETAILS (SIDE VIEW) (CONTINUED).
14. SHEET 13: HORIZONTAL CONNECTIVITY, DETAIL (SIDE VIEW), WINDOW WALL ELEVATION W/ HORIZONTAL MAXIMUM DESIGN PRESSURE RATING FOR HORIZONTAL AND MAXIMUM DESIGN PRESSURE RATING FOR JAMBS W/O ANCHORAGE.
15. SHEET 14: SILL CONNECTION DETAILS (SIDE VIEW).
16. SHEET 15: SILL CONNECTICN DETAILS (SIDE VIEW) (CONTINUED).
17. SHEET 16: SILL CONNECTICN DETAILS (SIDE VIEW) (CONTINUED).
18. SHEET 17: HORIZONTAL SECTIONS AT STANDARD AND CORNER MULLION.
19. SHEET 18: MAXIMUM PRESSURE RATING FOR JAMBS FASTENED W/ 3/8" FASTENERS.
20. SHEET 19: MAXIMUM PRESSURE RATING FOR JAMBS FASTENED W/ 1/2" FASTENERS.
21. SHEET 21: CORNER DETAIL AT JAMB.

INSTRUCTIONS:

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARDS.

STEP 2: GO TO SCHEDULE ON SHEET 6 TO DETERMINE MAXIMUM DESIGN PRESSURE RATING (psf) OF DESIRED GLASS SIZE BASED ON GLASS PANEL DIMENSIONS.

STEP 3: DETERMINE MAXIMUM MISSILE SPANN Portal (psf) FOR A GIVEN MULLION EFFECTIVE SPANN "b" , ON SCHEDULE ON SHEET 7, AND SELECT MULLION OPTION W' DESIRED PRESSURE RATING OBTAIN MAXIMUM PRESSURE RATING OF HORIZONTALS IF USED), TO BE EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 USING SCHEDULES OF SHEETS 8 AND 9.

STEP 4: USE SCHEDULES ON SHEETS 19 AND 20, TO SELECT JAMB ANCHOR OPTION W/ ANCHORAGE OR SHEET 13 FOR W/O ANCHORAGE WITH DESIGN PRESSURE RATING EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1.

STEP 5: USE SCHEDULE ON SHEET 13, TO VERIFY MAXIMUM DESIGN PRESSURE RATING OF HORIZONTALS (IF USED), TO BE EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1.

STEP 6: THE LOWEST VALUE OF DESIGN PRESSURE RATING RESULTS FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO THE ENTIRE SYSTEM.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS UNDER THE TEXAS DEPARTMENT OF INSURANCE JURISDICTION.
FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM COMPONENTS: WET & DRY GLAZED

2 SETTING BLOCK FG-5199
3 SPACER GASKET FG-5185
35 GASKET FG-5948
4 GASKET FG-1133
15 SILL END DAM FG-5000-FP10
17 CHANNEL FILLER 0 HEAD & SILL FG-5113
18 HEAD / SILL FG-5204
19 GLASS STOP FG-5199
20 POCKET FILLER FG-5196
21 HIGH PERFORMANCE SILL PAN FG-5205
16 STEEL REINFORCEMENT FG-5000-PP8
22 SILL PAN FG-5180
26 MULLION FG-5193
27 90 DEGREE CORNER MULLION FG-5200
28 HORIZONTAL FG-5202
31 SETTING CHAIR FG-5192
32 ALUMINUM FILLER FG-2122
# BILL OF MATERIALS

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS</th>
<th>MATERIAL</th>
<th>MANUFACTURER</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>FS—54</td>
<td>PHILLIPS FLAT HEAD MACHINE SCREW UC</td>
<td>#10—24 x 3/8&quot;</td>
<td>STEEL</td>
<td>VARIES</td>
<td>ZINC COATED, PER ASTM B–633.</td>
</tr>
<tr>
<td>2.</td>
<td>FG—5199</td>
<td>SETTING BLOCK</td>
<td>.800&quot; x .688&quot; x 4.00&quot;</td>
<td>EPDM</td>
<td>EPG</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>FG—5185</td>
<td>SPACER GASKET</td>
<td>.250&quot; x .250&quot;</td>
<td>EPDM</td>
<td>EPG</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>FG—1133</td>
<td>EXTERIOR GASKET</td>
<td>.500&quot; x .548&quot;</td>
<td>EPDM</td>
<td>EPG</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>FS—8</td>
<td>SPLINE ASSEMBLY SCREW</td>
<td>#14 x 1&quot; HHSTS FS—322</td>
<td>STEEL</td>
<td>VARIES</td>
<td>STALGARD COATED, BY ELCO</td>
</tr>
<tr>
<td>7.</td>
<td>ANCHOR</td>
<td>HEAD ANCHOR SCREW</td>
<td>#14 x 1 1/2&quot; HHVT</td>
<td>STEEL</td>
<td>ITW/BUILDEX</td>
<td>ZINC COATED, PER ASTM B–633.</td>
</tr>
<tr>
<td>8.</td>
<td>FASTENER</td>
<td>PPH SELF TAPPING SCREW</td>
<td>#10 x 2 1/2&quot;</td>
<td>STEEL</td>
<td>VARIES</td>
<td>ZINC COATED, PER ASTM B–633.</td>
</tr>
<tr>
<td>9.</td>
<td>FASTENER</td>
<td>PPH STEEL ATTACHMENT SCREW</td>
<td>#10 x 1&quot;</td>
<td>STEEL</td>
<td>VARIES</td>
<td>ZINC COATED, PER ASTM B–633.</td>
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<tr>
<td>10.</td>
<td>SM—5601</td>
<td>ISOCLYL TAPE</td>
<td>.125&quot; x .500&quot;</td>
<td>POLYISOBUTYLENE</td>
<td>SCHNEE-MOOREHEAD</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>FG5000—FP—5</td>
<td>WATER DIVERTER</td>
<td>876&quot; x .54147&quot; x .040&quot; x 1.500&quot;</td>
<td>RIGID PVC</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>FG—5000—FP—10</td>
<td>SILL END DAM</td>
<td>3.500&quot; x .562&quot; x 0.062&quot; x 5.000&quot;</td>
<td>6063–T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>FG—5000—PP8</td>
<td>STEEL REINFORCEMENT</td>
<td>1.250&quot; x 4.563&quot; x .250&quot;</td>
<td>ZINC PAINTED STEEL</td>
<td>VARIES</td>
<td>ASTM A–36</td>
</tr>
<tr>
<td>14.</td>
<td>FG—5113</td>
<td>CHANNEL FILLER @ HEAD &amp; SILL</td>
<td>1.697&quot; x .500&quot; x .062&quot;</td>
<td>6063–T5</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>FG—5204</td>
<td>HEAD / SILL</td>
<td>4.980&quot; x 2.500&quot; x .080&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>FG—5190</td>
<td>GLASS STOP</td>
<td>2.010&quot; x 1.392&quot; x .078&quot;</td>
<td>6063–T5</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>FG—5196</td>
<td>POCKET FILLER</td>
<td>4.660&quot; x 1.392&quot; x .080&quot;</td>
<td>6063–T5</td>
<td>OBE</td>
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</tr>
<tr>
<td>18.</td>
<td>FG—5205</td>
<td>HIGH PERFORMANCE SILL PAN</td>
<td>5.276&quot; x 2.750&quot; x .100&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>FG—5180</td>
<td>SILL PAN</td>
<td>5.402&quot; x 2.625&quot; x .080&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
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</tr>
<tr>
<td>20.</td>
<td>FG—5206</td>
<td>SILL / HEAD</td>
<td>4.980&quot; x 2.500&quot; x .080&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>21.</td>
<td>FG—5201</td>
<td>JAMB</td>
<td>5.000&quot; x 2.500&quot; x .094&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>NOT USED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>23.</td>
<td>FG—5193</td>
<td>MULLION</td>
<td>5.000&quot; x 2.500&quot; x .094&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>24.</td>
<td>FG—5200</td>
<td>90 DEGREE CORNER MULLION</td>
<td>5.500&quot; x 5.500&quot; x .125&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>FG—5202</td>
<td>HORIZONTAL</td>
<td>4.980&quot; x 2.500&quot; x .080&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>26.</td>
<td>995</td>
<td>STRUCTURAL SEALANT</td>
<td>–</td>
<td>SILICONE</td>
<td>DOW CORNING</td>
<td># 995</td>
</tr>
<tr>
<td>27.</td>
<td>795</td>
<td>PERIMETER SEALANT</td>
<td>–</td>
<td>SILICONE</td>
<td>DOW CORNING</td>
<td># 795</td>
</tr>
<tr>
<td>28.</td>
<td>FG—5192</td>
<td>SETTING CHAIR</td>
<td>.844&quot; x 1.062&quot; x .094&quot;</td>
<td>6063–T5</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>29.</td>
<td>FG—2122</td>
<td>ALUMINUM JAMB FILLER</td>
<td>4.000&quot; x .365&quot; x .078&quot;</td>
<td>6063–T6</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>ANCHOR</td>
<td>PPH T/D SCREW</td>
<td>#10 x 2.000&quot;</td>
<td>ZINC COATED STEEL</td>
<td>VARIES</td>
<td>ZINC COATED, PER ASTM B–633.</td>
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<tr>
<td>31.</td>
<td>FG—5948</td>
<td>INTERIOR GASKET</td>
<td>.381&quot; x .718&quot;</td>
<td>EPDM</td>
<td>EPG</td>
<td>DRY GLAZED GASKET.</td>
</tr>
</tbody>
</table>
FOOT NOTES:

FOR MAXIMUM MULLION SPACING SEE SHEET 7, EXCEPT THAT MAXIMUM MULLION SPACING AT LAST WINDOW WALL PANEL INSTALLED ADJACENT TO DOOR (WHEN APPLICABLE) SHALL NOT EXCEED 5'-0".

FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 8 & 8A.

SEE SHEETS 19 & 20 FOR MAXIMUM DESIGN PRESSURE RATING FOR JAMB CONNECTED TO EXISTING STRUCTURE.

SEE SHEET 13 FOR MAXIMUM DESIGN PRESSURE RATING FOR JAMB NOT CONNECTED TO EXISTING STRUCTURE.

USE OF HORIZONTALS (SEE SECTION 2/13) IS LIMITED BY SCHEDULE ON SHEET 13.

FOR MAXIMUM MULLION SPAN SEE SHEET 7.

FOR GLAZING DETAILS AND GLASS SCHEDULE SEE SHEET 5.

FOR MAXIMUM D.L.O. DESIGN PRESSURE RATING FOR GLASS, SEE SCHEDULE ON SHEET 6.
# Typical Glazing Details

## Glass Type G1, G2, G31, G33

**Wet Glazed**

<table>
<thead>
<tr>
<th>Glass Label</th>
<th>Glass Composition</th>
<th>Manufacturer Name</th>
<th>Maximum D.L.O.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1</td>
<td>1/4&quot; overall thickness laminated glass consisting of two 3/8&quot; HS glass, and a 0.060&quot; Tensol PVB interlayer</td>
<td>Kuraray America, Inc.</td>
<td>See Schedule on Sheet 6</td>
</tr>
<tr>
<td>G2</td>
<td>1/4&quot; overall thickness laminated glass consisting of two 3/8&quot; HS glass, and a 0.060&quot; Sentryglas plus interlayer</td>
<td>Kuraray America, Inc.</td>
<td>See Schedule on Sheet 6</td>
</tr>
<tr>
<td>G31</td>
<td>1/4&quot; overall thickness laminated glass consisting of two 3/8&quot; HS glass, and a 0.060&quot; Sentryglass plus interlayer</td>
<td>Eastman Chemical Company</td>
<td>See Schedule on Sheet 6</td>
</tr>
<tr>
<td>G33</td>
<td>1/4&quot; overall thickness laminated glass consisting of two 3/8&quot; HS glass, and a 0.075&quot; Vacona/Stormglass composite interlayer</td>
<td>Eastman Chemical Company</td>
<td>See Schedule on Sheet 6</td>
</tr>
</tbody>
</table>

## Glass Type G2

**Dry Glazed**

<table>
<thead>
<tr>
<th>Glass Label</th>
<th>Glass Composition</th>
<th>Manufacturer Name</th>
<th>Maximum D.L.O.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G2</td>
<td>1/4&quot; overall thickness laminated glass consisting of two 3/8&quot; HS glass, and a 0.060&quot; Sentryglas plus interlayer</td>
<td>Kuraray America, Inc.</td>
<td>See Schedule on Sheet 6</td>
</tr>
</tbody>
</table>
**MAXIMUM DESIGN PRESSURE RATING** (psf) SCHEDULE FOR A GIVEN GLASS TYPE AND GLASS PANEL DIMENSIONS "a" (in) x "b" (in) (SEE LEGEND)

### Glass Type (G1) & (G3): Wet Glazed

<table>
<thead>
<tr>
<th>Dimension &quot;a&quot;</th>
<th>Dimension &quot;b&quot;</th>
<th>Maximum Design Pressure Rating (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>from 24&quot; to 115&quot;</td>
<td>±65.0</td>
</tr>
<tr>
<td>30&quot;</td>
<td>from 30&quot; to 115&quot;</td>
<td>±65.0</td>
</tr>
<tr>
<td>36&quot;</td>
<td>from 36&quot; to 115&quot;</td>
<td>±65.0</td>
</tr>
<tr>
<td>41.75&quot;</td>
<td>from 41.75&quot; to 102.5&quot;</td>
<td>±65.0</td>
</tr>
<tr>
<td>48&quot;</td>
<td>from 48&quot; to 89&quot;</td>
<td>±56.5</td>
</tr>
<tr>
<td>54&quot;</td>
<td>from 54&quot; to 79&quot;</td>
<td>±50.3</td>
</tr>
<tr>
<td>57.5&quot;</td>
<td>from 57.5&quot; to 74&quot;</td>
<td>±47.0</td>
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</tbody>
</table>

### Glass Type (G2): Wet Glazed

<table>
<thead>
<tr>
<th>Dimension &quot;a&quot;</th>
<th>Dimension &quot;b&quot;</th>
<th>Maximum Design Pressure Rating (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>from 24&quot; to 115&quot;</td>
<td>±90.0</td>
</tr>
<tr>
<td>30&quot;</td>
<td>from 30&quot; to 115&quot;</td>
<td>±90.0</td>
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<tr>
<td>36&quot;</td>
<td>from 36&quot; to 115&quot;</td>
<td>±90.0</td>
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<tr>
<td>42&quot;</td>
<td>from 42&quot; to 115&quot;</td>
<td>±90.0</td>
</tr>
<tr>
<td>47.5&quot;</td>
<td>from 47.5&quot; to 115&quot;</td>
<td>±90.0</td>
</tr>
<tr>
<td>54&quot;</td>
<td>from 54&quot; to 101&quot;</td>
<td>±79.2</td>
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<tr>
<td>57.5&quot;</td>
<td>from 57.5&quot; to 95&quot;</td>
<td>±74.3</td>
</tr>
</tbody>
</table>

### Glass Type (G2): Dry Glazed

<table>
<thead>
<tr>
<th>Dimension &quot;a&quot;</th>
<th>Dimension &quot;b&quot;</th>
<th>Maximum Design Pressure Rating (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>from 24&quot; to 115&quot;</td>
<td>+60, -70</td>
</tr>
<tr>
<td>30&quot;</td>
<td>from 30&quot; to 115&quot;</td>
<td>+60, -70</td>
</tr>
<tr>
<td>36&quot;</td>
<td>from 36&quot; to 115&quot;</td>
<td>+60, -70</td>
</tr>
<tr>
<td>42&quot;</td>
<td>from 42&quot; to 115&quot;</td>
<td>+60, -70</td>
</tr>
<tr>
<td>47.5&quot;</td>
<td>from 47.5&quot; to 115&quot;</td>
<td>+60, -70</td>
</tr>
<tr>
<td>54&quot;</td>
<td>from 54&quot; to 101&quot;</td>
<td>+60, -70</td>
</tr>
<tr>
<td>57.5&quot;</td>
<td>from 57.5&quot; to 95&quot;</td>
<td>+60, -70</td>
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</tbody>
</table>

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**DETERMINATION OF MAXIMUM DAY LIGHT OPENING (D.L.O.) AT EACH END OF GLASS GIVEN "a" & "b"**

**SIDE**

**MAXIMUM DAY LIGHT OPENING**

- **(D.L.O.) Formula at Vertical & Horizontal Mullions**
- **(D.L.O.) Formula at Jamb, Head & Sill Frames**

**MAX. D.L.O. (a) (SHORT SIDE)**

- "a" = 5.00" "a" = 5.00"

**MAX. D.L.O. (b) (LONG SIDE)**

- "b" = 5.00" "b" = 5.00"

---

**DIMENSIONS LEGEND**

**SIDE "a" IS ALWAYS EQUAL OR SHORTER THAN "b". "a", "b" MAY BE ORIENTED IN ANY DIRECTION.**
**maximum design pressure rating for standard & corner mullion installations is +60, -70 psf.**
# Maximum Design Pressure Rating for Mullion Connections

## Table 1: Maximum Design Pressure Rating

<table>
<thead>
<tr>
<th>Mullion Height (in)</th>
<th>Poured Concrete</th>
<th>Structural Steel</th>
<th>Alumina Ceramic Brick</th>
<th>Mullion Substrate</th>
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</thead>
<tbody>
<tr>
<td>4.5</td>
<td>0.60</td>
<td>0.80</td>
<td>0.90</td>
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<tr>
<td>5.5</td>
<td>0.65</td>
<td>0.85</td>
<td>1.00</td>
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<tr>
<td>6.5</td>
<td>0.70</td>
<td>0.90</td>
<td>1.10</td>
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<tr>
<td>7.5</td>
<td>0.75</td>
<td>0.95</td>
<td>1.20</td>
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<tr>
<td>8.5</td>
<td>0.80</td>
<td>1.00</td>
<td>1.30</td>
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<tr>
<td>9.5</td>
<td>0.85</td>
<td>1.05</td>
<td>1.40</td>
<td></td>
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<tr>
<td>10.5</td>
<td>0.90</td>
<td>1.10</td>
<td>1.50</td>
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</table>

## Diagram:

**Schematic Concrete & Steel Connection Detail**
- **Exterior**
- **At Standard Mullion**

**Schematic Wood Connection Detail**
- **Exterior**
- **At Standard Mullion**

### Fasteners Types and Substrates Requirements

- **A**: Hilti Kwik Bolt 12 anchor (2") min. embedment into 6" min. thick poured concrete (Min. f'c = 3 ksi)
- **B**: Power Fasteners Tapper anchor (1/4") min. embedment into poured concrete (Min. f'c = 5 ksi)
- **C**: Hilti HUS-H screw anchor (2") min. embedment into poured concrete (Min. f'c = 3 ksi)
- **D**: Type "F" bolt or 3/4" lag ELCO construction products drill Flex Screw to 2"x2" wood BUCK (90-150) min. 6" penetration into wood.
- **E**: 1/2" lag Screws to double 2x wood BUCK (90-150) min. 3" penetration into wood.

*See connection details on sheets 5, 10 & 22.*
MAXIMUM DESIGN PRESSURE RATING FOR MULLION CONNECTIONS

CONTINUED

SCHEMATIC CONCRETE & 12 GAGE STEEL
CONNECTION DETAIL *
(AT STANDARD MULLION)

FASTENERS
(4 REQ'D)

EXTERIOR

SCHEMATIC GROUT-FILLED CONCRETE BLOCK
CONNECTION DETAIL *
(AT STANDARD MULLION)

FASTENERS
(6 REQ'D)

EXTERIOR

OUTSIDE/INSIDE CORNER MULLION

SCHEMATIC CONCRETE & 12 GAGE STEEL
CONNECTION DETAIL *
(AT OUTSIDE/INSIDE CORNER MULLION)

FASTENERS
(2 REQ'D)

SCHEMATIC GROUT-FILLED CONCRETE BLOCK
CONNECTION DETAIL *
(AT OUTSIDE/INSIDE CORNER MULLION)

FASTENERS
(3 REQ'D)

EXTERIOR

* MIN. SPACING IS [ ] REQUIRED FOR DIFFERENT SUBSTRATES

- POURED CONCRETE: 4 1/2" MIN. D.C.
- GROUT FILLED C.B.: 8" MIN. D.C.
- STEEL: 4 1/2" MIN. D.C.

SEE CONNECTION DETAILS ON SHEETS 9, 10 & 22.

FASTENERS TYPES AND SUBSTRATES REQUIREMENTS W/ 2 3/4" MIN. E.D.
BEYOND ANY FINISH MATERIAL

F - 3/8" HILTI Kwik Bolt 12 Anchor W/ 2" Min. Embedment Into 8" Min. Thick Poured Concrete (Min. Ft = 3 ft).

G - 3/8" Power Fasteners Tapper Anchor W/ 1 3/4" Min. Embedment Into Poured Concrete (Min. Ft = 3 ft).

H - 3/8" HILTI HUS-H Screw Anchor W/ 2" Min. Embedment Into Poured Concrete (Min. Ft = 3 ft).


I - 3/8" Type "S" Bolt Or 3/8"-10 SAE Grade 5 Galvanized Steel, HHS Thru Bolt W/ Nut & Lock Washer & 2" Min. Edge Distance To 12 Gauge (6 1/2" Min. Thk.) Fw39 Kz Steel.
SILL AND HEAD CONNECTION DETAILS FOR CORNER MULLIONS (PLAN VIEWS)

(2) FASTENERS
(SEE SCHEDULE ON SHEET 5 & 8A) typ. EA SIDE

(3) typ. 7
top/bottom

WET GLAZED SHOWN
SEE SHEET 5 FOR DRY GLAZED DETAIL

HEAD OR SILL
90 DEGREES
OUTSIDE/INSIDE CORNER MULLIONS

MAX. D.L.O. ON SHEET 6
EXTERIOR

CONNECTION DETAIL APPLICABLE TO Poured CONCRETE, GROUT FILLED CONCRETE BLOCK OR STEEL

(5) FASTENERS
(SEE SCHEDULE ON SHEET 5 & 8A) typ. EA DIRECTION

(3) typ. 7
top/bottom

WET GLAZED SHOWN
SEE SHEET 5 FOR DRY GLAZED DETAIL

HEAD OR SILL
90 DEGREES
OUTSIDE/INSIDE CORNER MULLIONS

MAX. D.L.O. ON SHEET 6
EXTERIOR

CONNECTION DETAIL APPLICABLE TO WOOD ONLY
HEAD CONNECTION DETAILS

EXISTING POURRED CONCRETE OR GROUT FILLED CONCRETE BLOCK STRUCTURE (BY OTHERS)
SEE SHEETS 8 & 8A

(2) FASTENERS
SEE SCHEDULE ON SHEETS 8 & 8A typ. EA.
SIDE

EXISTING (2) 2"x PT WOOD BUCK STRUCTURE
(SEE SCHEDULE ON SHEET 8)

FASTENERS
(SEE SCHEDULE ON SHEET 8)

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY GLAZED

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY GLAZED

DETAIL X

SEE SCHEDULE ON SHEET 5
HEAD CONNECTION DETAILS

(Continued)

EXISTING Poured
CONCRETE OR GROUT
FILLED CONCRETE BLOCK
STRUCTURE (BY OTHERS)
SEE SHEETS 8 & 8A

MIN. E.D.
SEE SCHEDULE ON
SHEETS 8 & 8A

FASTENERS
(SEE SCHEDULE
ON SHEETS 8 & 8A)

MIN. E.D.
SEE SCHEDULE ON
SHEETS 8 & 8A

EXISTING (2) 2" x PT
WOOD BUCK STRUCTURE
(BY OTHERS)

FASTENERS
(SEE SCHEDULE
ON SHEET 8)

MIN. E.D.
SEE SCHEDULE ON SHEET 8

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY
GLAZED

10 HEAD

19

12

7/32" Required

30

5/16"/10°

SEE SCHEDULE ON SHEET 9

30

10°

18

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY
GLAZED

17

SEE SCHEDULE ON SHEET 8

17

SEE SCHEDULE ON SHEET 8

18

EXISTING STEEL
STRUCTURE SEE
SHEETS 8 AND 8A

FASTENERS
(SEE SCHEDULE ON SHEETS 8 & 8A)

4 5/16"/10°

11/16"

MIN. E.D.
SEE SCHEDULE ON SHEET 8

MIN. E.D.
SEE SCHEDULE ON SHEET 8

MIN. E.D.
SEE SCHEDULE ON SHEET 8

MIN. E.D.
SEE SCHEDULE ON SHEET 8

MIN. E.D.
SEE SCHEDULE ON SHEET 8

MIN. E.D.
SEE SCHEDULE ON SHEET 8

19

13

7/32" Required

SEE SCHEDULE ON SHEET 5

SEE SCHEDULE ON SHEET 5

SEE SCHEDULE ON SHEET 5

SEE SCHEDULE ON SHEET 5

DETAIL X

7/32" Required

4

29

17

19

13

7/32" Required

12

SEE SCHEDULE ON SHEET 8

SEE SCHEDULE ON SHEET 8
MAXIMUM DESIGN PRESSURE RATING FOR HORIZONTAL JAMBS W/O ANCHORAGE

MAXIMUM HORIZONTAL SPAN "L" (ft) FOR A GIVEN DESIGN PRESSURE RATING (psf) AND A GIVEN JAMB EFFECTIVE DAY LIGHT OPENING "D.L.O." (ft-h)

<table>
<thead>
<tr>
<th>D.L.O.</th>
<th>&quot;L&quot; (ft)</th>
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</thead>
<tbody>
<tr>
<td>60.0</td>
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<tr>
<td>65.0</td>
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<tr>
<td>70.0</td>
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<tr>
<td>75.0</td>
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<tr>
<td>80.0</td>
<td>1.0</td>
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</tbody>
</table>

**SIDE VIEW**

L = JAMB SPAN

**EFFECTIVE SPACING**

\[ b = \frac{S_1}{2} \] (SEE SCHEDULE)

( FOR FREESTANDING JAMB MULLION)

AT JAMB MULLION GLASS PANEL
SILL CONNECTION DETAILS
(Continued)

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY GLAZED

EXISTING Poured CONCRETE OR GRout
FILLED CONCRETE BLOCK STRUCTURE (BY OTHERS)
SEE SHEETS 8 & 8A

FASTENERS (SEE
SCHEDULE ON
SHEETS 8 & 8A)

MIN. E.D.
SEE SCHEDULE ON
SHEETS 8 & 8A

30
SILL

13/16"

4 5/16"

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY GLAZED

EXISTING STEEL STRUCTURE SEE
SHEETS 8 AND 8A

FASTENERS (SEE
SCHEDULE ON
SHEETS 8 & 8A)

MIN. E.D.
SEE SCHEDULE ON
SHEETS 8 & 8A

30
SILL

13/16"

4 5/16"

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY GLAZED

EXISTING 2" WOOD BUCK STRUCTURE

FASTENERS
(SEE SCHEDULE ON SHEET 8)

MIN. E.D.
SEE SCHEDULE ON SHEET 8

SILL

13/16"

4 5/16"

DETAIL X

MIN. E.D.
SEE SCHEDULE ON SHEETS 8 & 8A

30
SILL

13/16"

4 5/16"
SILL CONNECTION DETAILS

(Continued)

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY
GLAZED

FASTENERS (SEE
SCHEDULE ON
SHEETS B & BA)

EXISTING Poured
CONCRETE OR GROUT
FILLED CONCRETE BLOCK
STRUCTURE (BY OTHERS)
SEE SHEETS B & BA

MIN. E.D.
SEE SCHEDULE
ON SHEETS B & BA

MIN. E.D.
SEE SCHEDULE
ON SHEETS B & BA

1 3/8"

MIN. E.D.
SEE SCHEDULE
ON SHEETS B & BA

EXISTING STEEL
STRUCTURE SEE
SHEETS B AND BA

FASTENERS
(SEE SCHEDULE
ON SHEETS B & BA)

MIN. E.D.
SEE SCHEDULE
ON SHEETS B & BA

MIN. E.D.
SEE SCHEDULE
ON SHEETS B & BA

* THIS SILL TYPE SHALL ONLY
BE USED FOR MAX. DESIGN
LOADS UP TO 65 psf & FOR
MULLION HEIGHTS UP TO 108". 

DETAIL X

WET GLAZED SHOWN
SEE DETAIL (X) FOR DRY
GLAZED

EXISTING (2) 2"x WOOD
BULK STRUCTURE

MIN. E.D.
SEE SCHEDULE
ON SHEET B

MIN. E.D.
SEE SCHEDULE
ON SHEET B

MIN. E.D.
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SEE SCHEDULE
ON SHEET B

MIN. E.D.
### Maximum Design Pressure Rating Schedule for Jambs Fastened W/ 3/8" Ø Fasteners

#### Fasteners Types and Substrates

<table>
<thead>
<tr>
<th>Option #1 (Elevation)</th>
<th>Option #2 (Elevation)</th>
<th>Option #3 (Elevation)</th>
<th>Option #4 (Elevation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 x 4.0 x 18</td>
<td>4.0 x 4.0 x 18</td>
<td>4.0 x 4.0 x 18</td>
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<td>4.0 x 4.0 x 18</td>
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</tbody>
</table>

#### Pouring Concrete

- **Pour Concrete**: 4 1/2" Min. O.C.
- GROUT FILLED BOX: 1 1/2" Min. O.C.
- STEEL: 12" Min. O.C.
- WOOD: 2" Min. O.C.

#### Fasteners Types

- **J**: 3/8" HILTI Kwik Bolt 3 Anchor W2 2" Min. Embedment into 7" Min. Thick Pour Concrete (Min. F = 3 ksa)
- **K**: 3/8" Power Fasteners Tapped Anchor W1 1 3/4" Min. Embedment into Pour Concrete (Min. F = 3 ksa)
- **L**: 3/8" HILTI Hux Screw Anchor W2 2" Min. Embedment into Pour Concrete (Min. F = 3 ksa)
- **M**: 3/8" Power Fasteners Tapped Anchor W1 1 3/4" Min. Embedment into Pour Concrete (Min. F = 3 ksa)
- **N**: 3/8" HILTI Kwik Bolt 3 Anchor W2 1 3/4" Min. Embedment into GROUT FILLED CONCRETE BLOCK
- **P**: 3/8" TYPE "F" BOLT OR 3/8"-15 SAE GRADE 5 GALVANIZED STEEL THREAD BOLT W/ D/W O.D. LOCK WRENCH 1 3/4" Min. Embedment into GROUT FILLED CONCRETE BLOCK
- **Q**: 3/8" HILTI Hux Screw Anchor W2 2" Min. Embedment into GROUT FILLED CONCRETE BLOCK

**Note**: Beyond any finish material.
CORNER DETAIL AT JAMB

EXTERIOR

WET GLAZED SHOWN SEE SHEET 5 FOR DRY GLAZED DETAIL

EXISTING STRUCTURE

FASTENER (SEE SCHEDULE ON SHEETS 19 & 20)

4D JAMB PLAN

VIEW "X"
(ISOMETRIC)