PRODUCT APPROVAL DRAWINGS
CG501 STORE FRONT WITH MULTIPLE INFILLS
FOR USE IN HURRICANE ZONES
REQUIRING LARGE MISSILE IMPACT PROTECTION
(WET GLAZED/DRY GLAZED)

GENERAL NOTES

TEST STANDARDS
ARC-150W AND ASTM E283
WATER-TRANSPORT AND ASTM E691
WATER-TRANSPORT AND ASTM E141
IMST/ASTM F1856/F1996
IMST/AS2053 AND ASTM E1060/E1996

RESIGN PRESSURE LISTED IN THIS DRAWING IS ALLOWABLE DESIGN LOAD.

WATER INFLATION: 15 PSF
AIR INFLATION: 6.24 PSF

TYPICAL GLASS BITE IS 9/16" UNLESS OTHERWISE NOTED
1/4" MAX. SHIM SPACE @ PERIMETER UNLESS OTHERWISE NOTED
ALUMINUM EXTRUSIONS ARE 6063-T6 ALLOY AND THERM.

THIS PRODUCT IS BATED FOR LARGE A SMALL MISSILE IMPACT INCLUDING HIGH VELOCITY
HURRICANE ZONE. SHUTTERS ARE NOT REQUIRED.
THE PRODUCT HAS BEEN REFINED AND TESTED FOR TO COMPLY WITH THE REQUIREMENT OF
THE 2018 INTERNATIONAL BUILDING CODE & THE 2018 INTERNATIONAL RESIDENTIAL CODE.

MATERIALS WHICH COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PAINTED
OR FINISHED TO PREVENT CORROSION.

ENTRANCE DOORS FOR CG501 FRAMING SYSTEM ARE SHOWN ON THIS
SUBMISSION. THE LOWER DESIGN PRESSURE OF WINDOW WALL OR DOOR WILL GOVERN.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STuccO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

PRODUCT CONTROL APPROVAL

Resistor
PRODUCT
CG501 STORE FRONT SYSTEM
W/ MULTIPLE INFILLS
FOR HURRICANE ZONES
(WET/DRY GLAZED)

MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 MIRAMAR PARKWAY #301
MIAMAR, FL 33027
P: (305) 271-0117
Email: MCV@MCYEngineering.com
www.MCYEngineering.com

Drawn:          Rev:             Date: October 12, 2021
By:             Status: Product Control Approval

Email: MCY@MCYEngineering.com
www.MCYEngineering.com

PDF of this drawing created by Jextend (http://www.jextend.com)
NOTES:

1. GLASS SIZE = D.L.O. +1 1/8"  
2. HORIZONTAL MULLION (DETAIL 2/8 OR 2/8 OPTIONAL) = OPTIONAL AT ANY BAY  
3. HEAD (DETAIL 1/8 OR 1/8 OPTIONAL) = OPTIONAL AT ANY BAY  
4. MAX. ALLOWABLE DEFLECTION = L/180
### Door Jamb Mullion Capacity

<table>
<thead>
<tr>
<th>Frame Height</th>
<th>Door Width</th>
<th>Door Height</th>
<th>Design Load</th>
</tr>
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</tr>
<tr>
<td>54</td>
<td>90</td>
<td>20</td>
<td>70.0</td>
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</table>

### Single Door with Transom & Sidelites

- Anchor Type: 
- Anchor Spacing: 
- Anchor Spacing between Anchors: 

### Double Door with Transom & Sidelites

- Anchor Type: 
- Anchor Spacing: 
- Anchor Spacing between Anchors: 

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**CG501 Store Front System**

- W/ Multiple Infills
- For Hurricane Zones (Wet/Dry Glazed)

**Resistor Products Series**

**MCY Engineering, Inc.**

12781 Miramar Parkway #301
Miramar, FL 33027
P: (305) 271-0117
Email: MCY@MCYEngineering.com

**Trulite Glass & Aluminum Solutions**

http://www.trulite.com

403 Westpark Ct Suite 203
Peachtree City, GA 30269
p. 800-432-8132 | f. 954-724-2083

**Trulite DOOR UNDER SEPARATE APPROVAL**

**DOOR JAMB MULLION CAPACITY**

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<tr>
<th>Frame Height</th>
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<td>54</td>
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**DOOR JAMB MULLION CAPACITY**

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<th>Frame Height</th>
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<tr>
<td>54</td>
<td>90</td>
<td>42</td>
<td>70.0</td>
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</tbody>
</table>
DOOR FRAMES WITHOUT TRANSOM

-WITH SIDELITE-

NOTES:
1. THIS APPROVAL COVERS SERIES 356 ENTRANCE DOOR.
2. DOOR SERIES UNDER SEPARATE PRODUCT APPROVALS.
   THE LOWER DESIGN PRESSURE OF WINDOW WALL OR DOOR WILL GOVERN.
3. FOR DOOR DETAILS REFER TO DOOR PRODUCT APPROVAL.

TEST PARAMETERS:
1. DESIGN PRESSURE = +70/-70 PSF
2. AIR TEST AT 6.24 PSF
3. MAX. ALLOWABLE DEFORMATION = L/180
TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING:

TYPE 'A' 3/8" DIA. LW LIT TAPCON

DIRECTLY INTO CONCRETE

1-1/2" MIN. EMBEDMENT.

TYPE 'C' #14 SMS OR SELF DRILLING SCREW'S (GRADE 2 HRS)

DIRECTLY INTO MILLION & MILLION ANCHORS SEE SEPARATE APPROVAL

EDGE DISTANCE

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING:

TYPE 'HA' 1/4" DIA. ULTRACON4 BY 'DEWALT' (Fv=164 KSI, Fv=148 KSI) (JAMB ONLY)

1/4" DIA. TAPCON BY TWM (Fv=120 KSI, Fv=92 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. PENETRATION INTO WOOD INTO CONC.

THRU WOOD BUCKS INTO HOLLOW BLOCK OR MASONRY

1-1/4" MIN. EMBEDMENT.

TYPE 'A' 1/4" DIA. ULTRACON4 BY 'DEWALT' (Fv=164 KSI, Fv=148 KSI)

1/4" DIA. TAPCON BY TWM (Fv=120 KSI, Fv=92 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. PENETRATION INTO WOOD INTO CONC.

THRU WOOD BUCKS INTO CONCRETE (fc=3000 PSI)

1-1/4" MIN. EMBEDMENT.

TYPE 'B' 1/4" DIA. ULTRACON4 BY 'DEWALT' (Fv=164 KSI, Fv=148 KSI)

1/4" DIA. TAPCON BY TWM (Fv=120 KSI, Fv=92 KSI)

DIRECTLY INTO CONCRETE

1-1/2" MIN. EMBEDMENT.

STEEL: 12 GA, MIN. (Fv = 36 KSI MIN.)
ALUMINUM: 1/8" THK, MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'D' 3/8" DIA. LW LIT TAPCON

DIRECTLY INTO CONCRETE

2" MIN. EMBEDMENT.

TYPE 'D1' 3/8" DIA. LW LIT TAPCON (JAMB ONLY)

DIRECTLY INTO CONCRETE

1-1/2" MIN. EMBEDMENT.

STEEL: 12 GA, MIN. (Fv = 36 KSI MIN.)
ALUMINUM: 1/8" THK, MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'E' 3/8"-16 BOLT (GRADE 2)

DIRECTLY INTO METAL STRUCTURE

STEEL: 12 GA, MIN. (Fv = 36 KSI MIN.)
ALUMINUM: 1/8" THK, MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CONCRETE & MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE FC = 3000 PSI MIN.
C-90 MOLLE, FILLED BLOCK = 2000 PSI MIN.

SEALANTS:

GLAZING READ AT FRAME SEAL TO GLASS WITH SILICONE
GLAZING OPTIONS 9A, 9B OR 9C
FRAME CORNERS SEATED WITH COP CORNING 795 OR EQUAL COMPATIBLE.
FIGURE: #2
FRAME ASSEMBLY
CG501 STORE FRONT SYSTEM
W/ MULTIPLE INFILLS
FOR HURRICANE ZONES
(WET/DRY GLAZED)

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Email: MCY@MCYEngineering.com
www.MCYEngineering.com

October 12, 2021

PRODUCT CONTROL APPROVAL

سة ET LENGTHS, SIZES & DIMENSIONS

Resistor
PRODUCT SERIES

12 OF 13
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS (INCHES)</th>
<th>MATERIAL</th>
<th>MANUFACTURER</th>
<th>NOTES</th>
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<tr>
<td>1</td>
<td>RG-1</td>
<td>EXTERIOR GLAZING GASKET</td>
<td>0.120 SPACE</td>
<td>EPDM, DURO 65+/-5, SHORE A</td>
<td>VARES</td>
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<td>2</td>
<td>RG-5</td>
<td>BULB GASKET @ DOOR STOP</td>
<td>0.377 X 0.420</td>
<td>EPDM, DURO 60+/-5, SHORE A</td>
<td>VARES</td>
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<td>3</td>
<td>RG-8</td>
<td>INTERIOR SPACER GASKET</td>
<td>0.375 X 0.194</td>
<td>EPDM, DURO 75+/-5, SHORE A</td>
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<td>4</td>
<td>RG-13</td>
<td>INTERIOR GASKET - DRY/GLazed</td>
<td>0.399 X 0.905</td>
<td>EPDM, DURO 65+/-5, SHORE A</td>
<td>VARES</td>
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<td>5</td>
<td>RW5001</td>
<td>W-BLOCK</td>
<td>0.125 X 0.500 X 2.500</td>
<td>EPDM, DURO 70+/-5, SHORE A</td>
<td>VARES</td>
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<td>6</td>
<td>RSB-13</td>
<td>SETTING BLOCK @ SILL &amp; HORIZONTAL</td>
<td>0.787 X 0.687</td>
<td>EPDM, DURO 85+/-5, SHORE A</td>
<td>VARES 2 / LIFE</td>
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<td>RSB-14</td>
<td>SETTING BLOCK @ INVERTED HORIZONTAL</td>
<td>0.907 X 0.587</td>
<td>EPDM, DURO 85+/-5, SHORE A</td>
<td>VARES 2 / LIFE</td>
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<td>RSB-15</td>
<td>SETTING BLOCK @ TRANSOM</td>
<td>0.789 X 0.387</td>
<td>EPDM, DURO 85+/-5, SHORE A</td>
<td>VARES 2 / LIFE</td>
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<td>9</td>
<td>GT-1</td>
<td>JOINT SEALANT TAPE</td>
<td>0.500 X 0.125 X VARIIES</td>
<td>BUTYL SCHMUTZ MOREHEAD</td>
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<td>705</td>
<td>995</td>
<td>SILICONE- PERIMETER SEALANT</td>
<td>FULL SPACE</td>
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<td>Dow CORNING</td>
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<td>WD451</td>
<td>WATER DEFLECTOR</td>
<td>1.358 X 0.585 X 0.040</td>
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<td>TRULITE</td>
<td>AT EACH END INTERMEDIATE HORIZONTAL</td>
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<td>ST500-4</td>
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<td>A36 STEEL</td>
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<td>ED500</td>
<td>END DAM</td>
<td>5.14 X 2.665 X 0.040</td>
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<td>16</td>
<td>CG500-11</td>
<td>JAMBHEAD</td>
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<td>CG501-2</td>
<td>SILL HEAD</td>
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<td>GLASS STOP</td>
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<td>STD. VERTICAL MULLION</td>
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<td>OPEN BACK MULLION FILLER</td>
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<td>23</td>
<td>CG501-11</td>
<td>HEAD OR WALL JAMB</td>
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<td>SUBSILL FLASHING</td>
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<td>FAST-1</td>
<td>FASTENER</td>
<td>#10 X 3/4&quot; PHFTEK</td>
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<td>FAST-2</td>
<td>FASTENER</td>
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<td>STEEL</td>
<td>VARES TYPICAL SPLINE SCREW</td>
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<td>FASTENER ATTACH ITEM #21 TO CONCRETE SUBSTRATE</td>
<td>#12 X 2&quot; FH WR SCREW</td>
<td>STEEL</td>
<td>VARES 1&quot; MINIMUM EMBLMENT NON-STRUCTURAL</td>
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<td>FASTENER ATTACH ITEM #21 TO WOOD SUBSTRATE</td>
<td>#12 X 2&quot; FH WR SCREW</td>
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<td>VARES 1&quot; MINIMUM EMBLMENT NON-STRUCTURAL</td>
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<td>31</td>
<td>FASTENER ATTACH ITEM #21 TO STL SUBSTRATE</td>
<td>#12 X 1-1/2&quot; D. FH</td>
<td>STEEL</td>
<td>VARES 1&quot; LONG NON-STRUCTURAL</td>
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<td>32</td>
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<td>33</td>
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<td>TRANSOM MULLION</td>
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<td>34</td>
<td>D102</td>
<td>O/A DOOR HEADER STOP</td>
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<td>35</td>
<td>D106</td>
<td>TRANSOM SASH</td>
<td>1.000 X 1.940 X 0.062</td>
<td>6063-T6 ALUMINUM</td>
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<td>D107</td>
<td>3/16&quot; IMPACT GL STOP</td>
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<td>37</td>
<td>AGA-95</td>
<td>HEADER DOOR STOP</td>
<td>1.750 X 0.500 X 0.090</td>
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<td>38</td>
<td>D104A</td>
<td>STD. DOOR STOP</td>
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<td>6063-T6 ALUMINUM</td>
<td>TRULITE</td>
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<td>D117</td>
<td>TRANSOM SASH (1-5/16&quot; GLASS)</td>
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<td>RG-23</td>
<td>INTERIOR GASKET - DRY/GLAZED</td>
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<td>EPDM, DURO 65+/-5, SHORE A</td>
<td>VARES</td>
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<td>INTERIOR GLAZING GASKET</td>
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<td>EPDM, DURO 65+/-5, SHORE A</td>
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<td>42</td>
<td>RSB-18</td>
<td>SETTING BLOCK @ TRANSOM</td>
<td>1.375 X 0.398</td>
<td>EPDM, DURO 85+/-5, SHORE A</td>
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<td>43</td>
<td>RG-1</td>
<td>INSULATED ALUMINUM SPACER</td>
<td>0.501 X 0.282 X 0.031</td>
<td>6063-T5 ALUMINUM</td>
<td>ALL METAL INC.</td>
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