SERIES 3300 ALUMINUM STOREFRONT SYSTEM

- This product has been designed and tested to comply with the requirements of 2018 International Residential Code, 2018 International Building Code and Florida Building Code 7th Edition (2020) including High Velocity Hurricane Zone (HVHZ).
- Storefront system is rated for large & small missile impact (Level D). Shutters are not required.
- This system may be used in conjunction with TDI listed evaluation reports for Trulite entrance doors.
- 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 embedded 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.
- Metal structures not by Trulite Glass and Aluminum solution to be designed to support the loads imposed by glazing system and to be transfer such loads to the building main structure.
- Materials including but not limited to steel/metal screws, that come into contact with other dissimilar materials shall meet the requirements of the 2018 International Building Code, the 2018 International Residential Code and the Florida Building Code 7th Edition (2020).
- Ultimate load obtained from ASCE 7-16, multiply by 0.6 shall be less than or equal to max. design load in this document. The design loads shown in this document are allowable design loads.

INSTRUCTIONS:

- Use charts as follows.
- Step 1: Determine design wind load requirements based on wind velocity, bldg. height, wind zone using applicable ASCE 7-16 standard.
- Step 2: See charts on Sheet 3 for design load capacity of desired glass size based on applicable wind duration.
- Step 3: Check mullion and jamb capacity for a given spacing and height using charts on Sheet 4 thru 7. The capacity should exceed the design load.
- Step 4: Using chart on Sheets 6, 7 & 8 select anchor option with design rating more than design load specified in Step 1 above.
- Step 5: The lowest value resulting from Steps 2, 3 and 4 shall apply to entire system.

Typical Elevations

This Product has been designed and tested to comply with the requirements of 2018 International Residential Code 2018 International Building Code and Florida Building Code 7th Edition (2020) including High Velocity Hurricane Zone (HVHZ).
GLAZING OPTION

- DOWSIL 995
- TREMCO PROGLAZE SSG
- SIKA SIKASIL SG-10

SILICONE OPTIONS:

GLASS TYPE 'G7'
1-5/16" NOMINAL OVERALL
0.075" SAFLEX STORM CP INTERLAYER
BY 'EASTMAN CHEMICAL COMPANY'
1/4" HEAT STREN'D GLASS
1/4" TEMP. GLASS
1/4" HEAT STREN'D GLASS
1/2" AIR SPACE
16
15
20
5
1/2" MIN. TYP. GLASS BITE
6

GLASS TYPE 'G6'
9/16" NOMINAL OVERALL
0.100" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYER
BY 'EASTMAN CHEMICAL COMPANY'
0.090" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYER
BY 'EASTMAN CHEMICAL COMPANY'
1/4" HEAT STREN'D GLASS
1/4" TEMP. GLASS
1/4" HEAT STREN'D GLASS
1/2" AIR SPACE
17
15
20
5
1/2" MIN. TYP. GLASS BITE
6

GLASS TYPE 'G5'
1-5/16" NOMINAL OVERALL
9/16" NOMINAL OVERALL
1-5/16" NOMINAL OVERALL
1-5/16" NOMINAL OVERALL

GLASS TYPE 'G4'
9/16" NOMINAL OVERALL

GASKET USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH ASTM STANDARD CANC.

PRIMARY SEALANT: P18 - POLYISOBUTYLENE
SECONDARY SEALANT: SILICONE SEALANT

SEE SHEET 3 FOR D.L.O. WIDTHS AND HEIGHTS, V.S. DESIGN LOADS.
GLASS COMPLIES WITH ASTM E1300-09 (3 SEC. GUSTS)
### Glass Load Capacity

<table>
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<tr>
<th>Glass Types</th>
<th>Nominal Dims. (In)</th>
<th>Load Capacity Pdall (psf)</th>
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<td>G4, G5, G6</td>
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<td>G7</td>
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---

**Step 2: Glass Load Tables**

**Product:**
Resistor 3300

**Storefront Wall (Large and Small Missile Impact)**

**Email:** MCY@mcyengineering.com

**Website:** [www.MCYEngineering.com](http://www.MCYEngineering.com)

**MCY Engineering, Inc.**

Glazing Consultant

32781 Miramar Parkway, Suite 301
Miramar, FL 33027
P: 305-271-0117

**Resistor Products Series:**

**OF 15**

403 Westpark Court, Suite 201
Peachtree City, GA 30269
P: 800-432-8132
### Step 3: Mullion Load Capacities

<table>
<thead>
<tr>
<th>Width (W)</th>
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### Step 3: Jamb Load Capacities

#### Vertical Mullion with or without Intermediate Horizontals

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<th>Width (W)</th>
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### Resistor 3300

**Storefront Wall (Large and Small Missile Impact)**

**Email:** MCY@mcyengineering.com

**Website:** www.MCYEngineering.com

**Glazing Consultant**

**MCY ENGINEERING, INC.**

**Address:**

12781 Miramar Parkway, Suite 301

MIRAMAR, FL. 33027

**P:** 305-271-0117

http://www.trulite.com

**Resistor**

**PRODUCT CONTROL APPROVAL**

**DATE/REMARKS**

3/1 03.26.2021

**ENGINEER:**

MCY ENGINEERING, INC.

**DATE/REMARKS**

3/1 03.26.2021
ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

AA2 = (2) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION OR JAMB
BB2 = (2) ANCHORS TYPE 'BB' AT EACH SIDE OF MULLION OR JAMB
A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION OR JAMB
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION OR JAMB
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION OR JAMB
D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF MULLION OR JAMB

AA3, BB3, A3, B3, C3, D3
AA4, BB4, A4, B4, C4, D4

TYPICAL EDGE DISTANCE:
INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'c = 3000 PSI MIN. (NORMAL WEIGHT, UNCRACKED CONCRETE)
WOOD SG=0.55 MIN.

SEALANTS: FRAME CORNERS SEALED WITH DOW CORNING DOWSIL 1199 OR EQUAL COMPATIBLE.
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<th>ANCHORS TYPE</th>
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**STEP 4: ANCHOR LOAD CAPACITIES**
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<th>Nominal Divs. (IN)</th>
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</tbody>
</table>

**Resistor 3300**

**Storefront Wall (Large and Small MISSILE IMPACT)**

**Product Control Approval**

**Dimension:**

**Date/Remarks:**

**Engineer:**

**Incorporated:**

**Product Series:**

**Fabricated:**

**Design:**

**Stamp:**

---

**ANCHOR LOAD CAPACITIES**

**STEP 4:**

**ANCHOR LOAD CAPACITIES**

---

**ANCHOR LOAD CAPACITIES - SPF**

**Anchor Type 'BB' & 'B' & 'D'**

**Width (IN):**

**Frame Height (IN):**

**Anchor Load Capacity - PSI**

**Anchor Type 'BB' & 'B' & 'D'**

**Width (IN):**

**Frame Height (IN):**

**Anchor Load Capacity - PSI**
WOOD BUCKS AND METAL STRUCTURE NOT BY TRULITE.
MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

3/8" MAX. SHIM SPACE

EDGE DISTANCE

1 BY OR 2 BY WOOD BUCKS
MIN. EMBED.

UNIT HEIGHT

EXTERIOR 1/16"

D.L.O.
2 1/2"

3 1/4"

TYPICAL ANCHORS SEE ELEV. FOR SPACING

EDGE DISTANCE

3 1/8" MAX.

SHIM SPACE

EDGE DISTANCE

9
A
9

ALUM. MULLION SEE SEPARATE APPROVAL

EDGE DISTANCE

1/8 POINT

SETTING BLOCK

TYPICAL ANCHORS SEE ELEV. FOR SPACING

EDGE DISTANCE

METAL STRUCTURE

EDGE DISTANCE

2 BY WOOD BUCK OR WOOD STRUCTURE

3/8" MAX. SHIM SPACE

TYPICAL ANCHORS SEE ELEV. FOR SPACING

EDGE DISTANCE

3/8" MAX. SHIM SPACE

TYPICAL ANCHORS SEE ELEV. FOR SPACING

EDGE DISTANCE

TYPICAL ANCHORS SEE ELEV. FOR SPACING

EDGE DISTANCE

EDGE DISTANCE

EDGE DISTANCE

EDGE DISTANCE

EDGE DISTANCE

EDGE DISTANCE

EDGE DISTANCE

EDGE DISTANCE
Exterior Frame Width

Wood Buck Filler Optional By Others

Silicone Sealant DowSil 790 Or Equal. Recommended Sealant Depth Shall Be Half The Sealant Width.

Min. Max.

1/4" 1/2"

1/4" 1/2"

3/8" 1/2"

3/8" 1/2"

Height

78" 84" 96"

Gaps

Max. Frame

3/8" 1/2"

3/8" 1/2"

108" 120"

Alternate Sealants At Jamb Gaps Can Be Designed By Engineer Of Record Based On Manufacturer Guide Lines.

Min. Max. Gap

See Chart Below

Std. Jamb

Std. Mullion

Reinf. Mullion

Jamb W/ Reinf.

D. D.L.O.

E. Std. Mullion

E1. Reinf. Mullion


Min. Max. Gap

See Chart Below

Max. Frame

GAP

7/8" 1/4" 1/2"

5/8" 1/4" 1/2"

3/4" 3/8" 1/2"

1 1/8" 3/8" 1/2"

1 1/4" 3/8" 1/2"

1 1/2" 3/8" 1/2"

Alternate Sealants At Jamb Gaps Can Be Designed By Engineer Of Record Based On Manufacturer Guide Lines.

Door Jamb Mullion At Transom

Door Jamb Mullion

NOTE:
1-5/16" Glazing Option Shown.
Refer To Sheet 2 For 9/16" Glazing Option.
Silicone Sealant Refer To Item

Trulite Glass & Aluminum Solutions

http://www.trulite.com

Resistor

Resistor

3300

Storefront Wall (Large And Small Missile Impact)

MCY Engineering, Inc.

Glazing Consultant

12781 Miramar Parkway, Suite 301
Miramar, FL. 33027
P: 305-271-0117
Email: MCY@mcyengineering.com
www.MCYengineering.com

March 26, 2021

Product Control Approval

11 Of 15
WOOD BUCK FILLER
OPTIONAL
BY OTHERS

SILICONE SEALANT DOWSIL 790 OR EQUAL.
RECOMMENDED SEALANT DEPTH SHALL BE
HALF THE SEALANT WIDTH.

2 1/2"
1 3/4"
3/4"

MIN. & MAX. GAP
SEE CHART ON SHEET 11

FREE STANDING JAMB OPTIONS
SEE SHEET 4 FOR CAPACITIES
GENERAL NOTE:
1. GLASS NOT SHOWN FOR CLARITY.
2. FRAME AND PANEL CORNERS, INSTALLATION SCREWS AND ALL METAL PARTS CONNECTIONS TO BE SEALED WITH CLEAR COLORED SEALANT.

NOTE:
DETAIL ABOVE SHOWS CONNECTION OF HORIZONTAL FRAME MEMBERS TO VERTICAL FRAMES. JAMB AND MULLION CAN BE WITH OR WITHOUT REINFORCEMENT. SEE SHEETS 4 THRU 5 FOR OPTIONS.