SERIES 3100L-3100 ALUMINUM WINDOW WALL SYSTEM

- Window Wall System is rated for large & small missile impact shutters are not required.
- This system may be used in conjunction with TBI listed evaluation reports for Trulite entrance doors.
- Code requirements for safeguarding must be observed.

This product has been designed and tested to comply with the requirements of 2018 International Residential Code and 2018 International Building Code.

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 sake material shall be beyond wall opening or stud.

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.

Materials including but not limited to steel/metal screws, that come into contact with other dissimilar materials, shall meet the requirements of 2018 International Residential Code and 2018 International Building Code section as applicable.

Ultimate design load obtained from ASCE 7-16, multiplied by 0.8 shall be less than or equal to max. design load in this document. The design loads shown in the document are allowable design loads.

TYPICAL ELEVATIONS

INSTRUCTIONS:

1. Determine design wind load requirements based on wind velocity, block, height, wind zone using applicable ASCE 7-16 standard.

2. See charts on sheet 3 for design load capacity of desired glass size based on applicable wind duration.

3. Check mullion and jamb capacity for a given spacing and height using charts on sheet 4 through 7. The capacity should exceed the design load.

4. Using chart on sheets 8 and select anchor option with design rating more than design load specified in step 1 above.

5. The lowest value resulting from steps 2, 3, and 4 shall apply to entire system.
### Resistor

#### 3100

**STOREFRONT WALL - L.M.I. & S.M.I.**

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**MCY GLAZING CONSULTANT**

**MCY ENGINEERING, INC.**

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305-271-0117

**Email:** MCY@MCYEngineering.com

**www.MCYEngineering.com**

---

**Resistor Products Series**

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**Step 2: Glass Load Tables**
<table>
<thead>
<tr>
<th>Nominal Width</th>
<th>Frame Height</th>
<th>Width (W)</th>
<th>Ext. (L)</th>
<th>Ext. (R)</th>
<th>Ext. (T)</th>
<th>Ext. (B)</th>
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**Resistor 3100**

**STOREFRONT WALL - L.M.I. & S.M.I.**

**Resistor Product Series**

**MCY ENGINEERING, INC.**

**GLAZING CONSULTANT**

**MCY ENGINEERING, INC.**

**12781 MIRAMAR PARKWAY #301**

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**P: 305-271-0117**

**www.MCYEngineering.com**

**STATE OF FLORIDA**

**139420**

**Resistor Product Control Approval**

**DATE [10-30-21]**

**DRAWN BY:**

**SIGNED:**

**STEP 3: MULLION LOAD CAPACITIES**

October 13, 2021
### Resistor

**3100**

**STOREFRONT WALL - L.M.I. & S.M.I.**

<table>
<thead>
<tr>
<th>Width (W)</th>
<th>Frame Height</th>
<th>Jamb 'J1'</th>
<th>Jamb 'J2'</th>
<th>Intermediate Horizontal</th>
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<td>144'</td>
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<td>42'</td>
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**Resistor Product Series**

- **Resistor 3100**
- **Storefront Wall - L.M.I. & S.M.I.**

**McY Glass & Aluminum Solutions**

- **Trulite**
- **http://www.trulite.com**

**Contact Information**

- 403 Westpark Ct., Suite 201
- Peachtree City, GA 30269
- P: 800-432-8132 | F: 954-724-2083

**McY Engineering, Inc.**

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- Miramar, Fl 33027
- P: 305-271-0117
- Email: MCY@McyEngineering.com

**Additional Information**

- Moyer Engineering, Inc.
- 12751 Miramar Parkway #301, Miramar, FL 33027
- Email: Moyer@MoyerEngineering.com

**Document Details**

- Date: October 13, 2021
- Page 5 of 12
| Resistor 3100 STOREFRONT WALL - L.M.I. & S.M.I. |

**McY Glazing Consultant**

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---

**Resistor Products Series**

**6 OF 12**
<table>
<thead>
<tr>
<th>Width (W1)</th>
<th>Nominal Dim.</th>
<th>Without Reinforcing</th>
<th>With Alum Reinforcing</th>
<th>With Steel Reinforcing</th>
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**Step 3: Mullion Load Capacities**

- **Jamb**: 1/4" (4.54mm) X 1/8" (3.18mm) X 5/8" (16mm) X 5/8" (16mm)
- **Alum Mullion**: 1/4" (4.54mm) X 1/8" (3.18mm) X 5/8" (16mm) X 5/8" (16mm)
- **Total (w Alum)**: 1.25" (31.8mm) X 1.25" (31.8mm) X 1.5" (38mm) X 1.5" (38mm)
|----------------------------------------|---------------------------------------|

**Resistor 3100**

Storefront Wall - L.M.I. & S.M.I.

**Dimensions**

- Storefront Wall

**Email**

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**Consultant**

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**Trulite**

http://www.trulite.com

**Resistor PRODUCE SERIES**

8 OF 12

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**Figure 4: Anchor Load Capacity**

- **Anchor Type A** at each side of Mullion or Jamb
- **Anchor Type B** at each side of Mullion or Jamb
- **Anchor Type C** at each side of Mullion or Jamb
- **Anchor Type D** at each side of Mullion or Jamb

**Maximum Spacing for Head and Sink Anchors Not to Exceed 24"**
BIL OF MATERIALS

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<th>#</th>
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ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
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.

A. HEAD ASSEMBLY

B. INTERM. HORIZONTAL

C. SILL ASSEMBLY

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 8 FOR OPTIONS.

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.

APPROVED IMPACT RESISTANT DOOR