Features

- IR 500/501 is 5" (127) deep and has a 2-1/2" (63.5) sightline
  {Expansion mullions have a 2-3/4" (69.9) sightline}
- Screw Spline fabrication
- Center glazed
- Outside glazed with internal silicone seal
- IR 500 glazing options are 9/16", (14.3) 5/8" (15.9) and 1/4" (6.4) (non-impact)
- IR 501 glazing options are 1-5/16" (33.3) and 1" (25.4) (non-impact)
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- Integrated entrance framing
- 350 IR Medium Stile - single or pairs of entrances

Product Applications

- Impact resistant
- Storefront, ribbom window or punched opening
- Low to mid-rise
- Single span

For specific product applications,
Consult your Kawneer representative.
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Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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© Kawneer Company, Inc., 2010
<table>
<thead>
<tr>
<th>Scale 3” = 1'-0&quot;</th>
<th>9/16” Infill</th>
<th>5/8” Infill</th>
<th>9/16” Infill (Dry-Glazed)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Door Jamb</strong></td>
<td>575-033</td>
<td>575-033</td>
<td>575-033</td>
</tr>
<tr>
<td><strong>Door Jamb at Transom</strong></td>
<td>575-051</td>
<td>575-051</td>
<td>575-051</td>
</tr>
<tr>
<td><strong>Door with Transom</strong></td>
<td>575-04</td>
<td>575-04</td>
<td>575-04</td>
</tr>
<tr>
<td><strong>Bottom Rail</strong></td>
<td>069-139</td>
<td>069-139</td>
<td>069-139</td>
</tr>
</tbody>
</table>

**Notes:**
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- Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.
- IR 500
- HURRICANE RESISTANT PRODUCT

**Scale:** 3” = 1'-0”

**December, 2011**
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SCALE 3" = 1'-0"

1-5/16" INFILL

1-5/16" INFILL (DRY GLAZED)

6 DOOR JAMB AT TRANSOM

7 DOOR JAMB

8 DOOR WITH TRANSOM

9 BOTTOM RAIL
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SCALE 3" = 1'-0"

OPTIONAL HEAD WITH STOP

OPTIONAL RADIUS HEAD

EXPANSION MULLION

1" INFILL (NON-IMPACT) GLAZING ADAPTOR

STRAP ANCHORS
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH and WITHOUT HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable windload stress for ALUMINUM 15,152 p.s.i. (104MPa), STEEL 20,000 p.s.i. (138MPa.) Charted curves, in all cases are for the limiting value. A 4/3 increase in allowable stress has not been used to develop these curves.

For special situations not covered by these curves, contact your Kawneer representative for additional information.
### Windload Charts

#### 575-009 & 575-010

**With Horizontals**

<table>
<thead>
<tr>
<th>Width in Meters</th>
<th>Height in Feet</th>
<th>Height in Meters</th>
<th>Height in Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>16</td>
<td>1.0</td>
<td>16</td>
</tr>
<tr>
<td>2.0</td>
<td>15</td>
<td>2.0</td>
<td>15</td>
</tr>
</tbody>
</table>

**I_a** = 9.086 in⁴ (378.19 x 10⁴ mm⁴)

**S_a** = 3.627 in³ (59.44 x 10³ mm³)

#### A = 40 PSF (1920)

#### B = 50 PSF (2400)

#### C = 60 PSF (2880)

#### D = 70 PSF (3360)

#### E = 80 PSF (3840)

#### F = 90 PSF (4320)

#### 575-009 & 575-010

**Without Horizontals**

<table>
<thead>
<tr>
<th>Width in Meters</th>
<th>Height in Feet</th>
<th>Height in Meters</th>
<th>Height in Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>16</td>
<td>1.0</td>
<td>16</td>
</tr>
<tr>
<td>2.0</td>
<td>15</td>
<td>2.0</td>
<td>15</td>
</tr>
</tbody>
</table>

### Hurricanes Resistant Product

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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HURRICANE RESISTANT PRODUCT

DECEMBER, 2011

IR 500

575-051 & 575-035 WITH HORIZONTALS

A = 40 PSF (1920)
B = 50 PSF (2400)
C = 60 PSF (2880)
D = 70 PSF (3360)
E = 80 PSF (3840)
F = 90 PSF (4320)

575-051 & 575-035 WITHOUT HORIZONTALS

575-051/575-035 and 575-111 Steel

WITH HORIZONTALS

A = 40 PSF (1920)
B = 50 PSF (2400)
C = 60 PSF (2880)
D = 70 PSF (3360)
E = 80 PSF (3840)
F = 90 PSF (4320)

575-051/575-035 AND 575-111 STEEL WITHOUT HORIZONTALS

575-051/575-035 AND 575-111 STEEL
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**Windload Charts**

### 575-116 & 575-102

**With Horizontals**

- **Width in Meters**
  - 1.0
  - 2.0

**Height in Feet**

- **A** = 40 PSF (1920)
- **B** = 50 PSF (2400)
- **C** = 60 PSF (2880)
- **D** = 70 PSF (3360)
- **E** = 80 PSF (3840)
- **F** = 90 PSF (4320)

**Moment of Inertia (I)**

- **575-116/575-102**
  - \( I_a = 8.612 \text{ in}^4 (358.46 \times 10^4 \text{ mm}^4) \)
  - \( S_a = 3.472 \text{ in}^3 (56.90 \times 10^3 \text{ mm}^3) \)

---

### 575-117 & 575-118

**With Horizontals**

- **Width in Meters**
  - 1.0
  - 2.0

**Height in Feet**

**Moment of Inertia (I)**

- **575-117/575-118**
  - \( I_a = 9.285 \text{ in}^4 (386.47 \times 10^4 \text{ mm}^4) \)
  - \( S_a = 3.704 \text{ in}^3 (60.70 \times 10^3 \text{ mm}^3) \)
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A = 40 PSF (1920)
B = 50 PSF (2400)
C = 60 PSF (2880)
D = 70 PSF (3360)
E = 80 PSF (3840)
F = 90 PSF (4320)

575-050/575-135
WITH HORIZONTALS

WIDTH IN METERS
1.0 2.0

HEIGHT IN FEET
1 2 3 4 5 6 7 8

575-051/575-135
WITHOUT HORIZONTALS

WIDTH IN METERS
1.0 2.0

HEIGHT IN FEET
1 2 3 4 5 6 7 8

575-051 & 575-135
WITH HORIZONTALS

WIDTH IN METERS
1.0 2.0

HEIGHT IN FEET
1 2 3 4 5 6 7 8

575-051 & 575-135
WITHOUT HORIZONTALS

WIDTH IN METERS
1.0 2.0

HEIGHT IN FEET
1 2 3 4 5 6 7 8

I_x = 8.371 in^4 (348.43 x 10^6 mm^4)
S_x = 3.226 in^2 (52.86 x 10^5 mm^2)

I_x = 8.393 in^4 (349.34 x 10^6 mm^4)
S_x = 3.255 in^2 (53.34 x 10^5 mm^2)
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**HURRICANE RESISTANT PRODUCT**

Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 9/16" or 5/8" thick impact resistant glass or 1-5/16" thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

**A = (1/4 POINT LOADING)**

**B = (1/6 POINT LOADING)**

**C = (1/8 POINT LOADING)**

<table>
<thead>
<tr>
<th>HEIGHT IN FEET</th>
<th>WIDTH IN FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
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<tr>
<td>3</td>
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<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

**575-011**

- **I = 1.043 in^4 (43.41 x 10^4 mm^4)**
- **S = 0.697 in^3 (11.42 x 10^3 mm^3)**

**575-115**

- **I = 0.929 in^4 (38.67 x 10^4 mm^4)**
- **S = 0.620 in^3 (10.16 x 10^3 mm^3)**

---

**DEADLOAD CHARTS**

**A = (1/4 POINT LOADING)**

**B = (1/6 POINT LOADING)**

**C = (1/8 POINT LOADING)**
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DEADLOADS ON ENTRANCE TRANSOM BARS

Height limitations for transom glass over a doorway are based on a 1/16" (1.6) maximum allowable deflection at the center of a transom bar. The accompanying chart is calculated for 9/16" or 5/8" thick impact resistant glass or 1-5/16" thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

**DEADLOADS ON ENTRANCE TRANSOM BARS**

**575-022 HORIZONTAL**

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>1.0</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1.248 in(^4) (51.95 \times 10^4\ mm(^4))</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>0.777 in(^3) (12.73 \times 10^3\ mm(^3))</td>
<td></td>
</tr>
</tbody>
</table>

**575-023 HORIZONTAL**

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>1.0</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1.764 in(^4) (73.42 \times 10^4\ mm(^4))</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>1.081 in(^3) (17.71 \times 10^3\ mm(^3))</td>
<td></td>
</tr>
</tbody>
</table>

**575-122 HORIZONTAL**

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>1.0</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1.177 in(^4) (48.99 \times 10^4\ mm(^4))</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>0.722 in(^3) (11.83 \times 10^3\ mm(^3))</td>
<td></td>
</tr>
</tbody>
</table>

**575-122 HORIZONTAL**

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>1.0</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1.177 in(^4) (48.99 \times 10^4\ mm(^4))</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>0.722 in(^3) (11.83 \times 10^3\ mm(^3))</td>
<td></td>
</tr>
</tbody>
</table>

---

**DEADLOAD CHARTS**

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>1.0</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1.248 in(^4) (51.95 \times 10^4\ mm(^4))</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>0.777 in(^3) (12.73 \times 10^3\ mm(^3))</td>
<td></td>
</tr>
</tbody>
</table>

**HURRICANE RESISTANT PRODUCT**
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DEADLOAD CHARTS

**HURRICANE RESISTANT PRODUCT**

**575-020 (IR 500)**

- **A = (1/4 POINT LOADING)**
- **B = (1/6 POINT LOADING)**
- **C = (1/8 POINT LOADING)**

- **I = 1.148 in⁴ (47.78 x 10⁴ mm⁴)**
- **S = 0.751 in³ (12.31 x 10³ mm³)**

**575-120 (IR 501)**

- **I = 1.080 in⁴ (44.95 x 10⁴ mm⁴)**
- **S = 0.683 in³ (11.19 x 10³ mm³)**

**575-021 (IR 500)**

- **I = 1.621 in⁴ (67.47 x 10⁴ mm⁴)**
- **S = 1.234 in³ (20.22 x 10³ mm³)**
**Project Specific U-factor Example Calculation**

Example Glass U-factor = 0.42 Btu/hr·ft²·°F

Total Daylight Opening = 3(5’ x 7’) + 3(5’ x 2’) = 135ft²

Total Projected Area = (Total Daylight Opening + Total Area of Framing System) = 15’-10" x 9’-7 1/2" = 152.39ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area) = (135 ÷ 152.39)100 = 88%

**System U-factor vs Percent of Glass Area**

Based on 88% glass and center of glass (COG) U-factor of 0.42
System U-factor is equal to 0.51 Btu/hr x ft² x °F
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**System U-Factor for Vision Glass**

Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

<table>
<thead>
<tr>
<th>COG U-factor</th>
<th>System U-Factor (Btu/h·ft²·°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.48 (2.73)</td>
<td></td>
</tr>
<tr>
<td>0.46 (2.51)</td>
<td></td>
</tr>
<tr>
<td>0.44 (2.50)</td>
<td></td>
</tr>
<tr>
<td>0.42 (2.39)</td>
<td></td>
</tr>
<tr>
<td>0.40 (2.27)</td>
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</tr>
<tr>
<td>0.38 (2.16)</td>
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</tr>
<tr>
<td>0.36 (2.05)</td>
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</tr>
<tr>
<td>0.34 (1.93)</td>
<td></td>
</tr>
<tr>
<td>0.32 (1.82)</td>
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</tr>
<tr>
<td>0.30 (1.71)</td>
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</tr>
<tr>
<td>0.28 (1.59)</td>
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</tr>
<tr>
<td>0.26 (1.48)</td>
<td></td>
</tr>
<tr>
<td>0.24 (1.37)</td>
<td></td>
</tr>
<tr>
<td>0.22 (1.25)</td>
<td></td>
</tr>
<tr>
<td>0.20 (1.14)</td>
<td></td>
</tr>
</tbody>
</table>

Vision Area / Total Area (%)
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area

Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area

Charts are generated per AAMA 507.
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---

**Thermal Transmittance**

<table>
<thead>
<tr>
<th>Glass U-Factor</th>
<th>Overall U-Factor</th>
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</thead>
<tbody>
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<td>0.48</td>
<td>0.65</td>
</tr>
<tr>
<td>0.46</td>
<td>0.63</td>
</tr>
<tr>
<td>0.44</td>
<td>0.62</td>
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<tr>
<td>0.42</td>
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<td>0.38</td>
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<tr>
<td>0.36</td>
<td>0.56</td>
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<td>0.34</td>
<td>0.54</td>
</tr>
<tr>
<td>0.32</td>
<td>0.52</td>
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<tr>
<td>0.26</td>
<td>0.48</td>
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<tr>
<td>0.24</td>
<td>0.46</td>
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<tr>
<td>0.22</td>
<td>0.45</td>
</tr>
<tr>
<td>0.20</td>
<td>0.43</td>
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</table>

**SHGC Matrix**

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<th>Glass SHGC</th>
<th>Overall SHGC</th>
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<tbody>
<tr>
<td>0.75</td>
<td>0.66</td>
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<tr>
<td>0.70</td>
<td>0.62</td>
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<tr>
<td>0.65</td>
<td>0.58</td>
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<td>0.05</td>
<td>0.06</td>
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**Visible Transmittance**

<table>
<thead>
<tr>
<th>Glass VT</th>
<th>Overall VT</th>
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<td>0.65</td>
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<tr>
<td>0.70</td>
<td>0.60</td>
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<tr>
<td>0.65</td>
<td>0.56</td>
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**NOTE:** For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 2000mm wide by 2000mm high (78-3/4” by 78-3/4”).