**Features**

- Economical
- 1-3/4" sight line with a 3-9/16", 4-1/2" or 6" depth
- Front or Center (4-1/2") glass applications
- Outside glazed
- Screw Spline, Shear Block or Type-B fabrication
- SSG option
- Infill options up to 1-1/8"
- Thermal break via. Polymer glazing clip
- Permanodic™ anodized finishes in seven standard choices
- Painted finishes in standard and custom choices

**Optional Features**

- Two color capability
- 1-1/4" perimeter sight line
- Project specific U-factors (See Thermal Charts)

**Product Applications**

- Storefront, Ribbon Window or Punched Openings
- Low to mid-rise
- Single-span
- Curved frames
- Integrated entrance framing allowing Kawneer entrances or other specialty entrances to be included
- Kawneer windows, or GLASSvent™ Windows for Storefront Framing, or GLASSvent™ UT Windows are easily incorporated

For specific product applications, consult your Kawneer Representative
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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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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EnCORE™ Framing System
PICTORIAL VIEW (SCREW SPLINE ASSEMBLY)
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Scale 3" = 1'-0"

**1/4" Infill**

1. Head

2. Horizontal

3. Sill

4. Jamb

5. Mullion

**1" Infill**

1. Head

2. Horizontal

3. Sill

4. Jamb

5. Split Mullion

5A. Split Mullion W/ 1/4" Adapter

2A. Horizontal W/ 1/4" Adapter

**Flashings**

3-9/16" System (Screw Spline)

Elevation is number keyed to details.
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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**EnCORE™ Framing System**

**4-1/2" SYSTEM - CENTER GLAZED (SCREW SPLINE)**

**SCALE 3" = 1'-0"**

<table>
<thead>
<tr>
<th>1/4&quot; INFILL</th>
<th>1&quot; INFILL</th>
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</thead>
<tbody>
<tr>
<td><strong>1 HEAD</strong></td>
<td><strong>1 HEAD</strong></td>
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<tr>
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<td><img src="175504.png" alt="Diagram" /></td>
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<tr>
<td><strong>3 SILL</strong></td>
<td><strong>3 SILL</strong></td>
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</tr>
<tr>
<td><strong>4 JAMB</strong></td>
<td><strong>4 JAMB</strong></td>
</tr>
<tr>
<td><img src="175156.png" alt="Diagram" /></td>
<td><img src="175156.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>5 MULLION</strong></td>
<td><strong>5 SPLIT MULLION</strong></td>
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<td><img src="175156.png" alt="Diagram" /></td>
<td><img src="175156.png" alt="Diagram" /></td>
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**ELEVATION IS NUMBER KEYED TO DETAILS**
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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SCALE 3" = 1'-0"

NOTE: TYPE-B SYSTEM

SIMILAR EXCEPT HEAD & SILL RUN THROUGH.

ELEVATION IS NUMBER KEYED TO DETAILS

1/4" INFILL

1 HEAD

2 HORIZONTAL

3 SILL

4 JAMB

5 MULLION

6 SSG MULLION

1" INFILL

1 HEAD

2 HORIZONTAL

3 SILL

4 JAMB

5 MULLION

5A MULLION

W/ 1/4" ADAPTER

6 SSG MULLION

W/ 1/4" ADAPTER INSIDE SEAL

W/ 1/4" ADAPTER OUTSIDE SEAL

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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.

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**Scale 3" = 1'-0"**

**Note: Type-B System** Similar except head & sill run through.

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
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<td>6</td>
<td>2A</td>
<td>2</td>
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<tr>
<td>4</td>
<td>2A</td>
<td>2A</td>
<td>3</td>
<td>5A</td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Elevation is number keyed to details.

1/4" Infill

1. Head
2. Horizontal
3. Sill
4. Jamb
5. Mullion
6. SSG Mullion

1" Infill

1. Head
2. Horizontal
3. Sill
4. Jamb
5. Mullion
6. SSG Mullion
6A. W/ 1/4" Adapter

**Note:**

Type-B System similar except head & sill run through.

Elevation is number keyed to details.

**Scale 3" = 1'-0"**
EnCORE™ Framing System

**4-1/2" SYSTEM - CENTER GLAZED (SHEAR BLOCK)**

**SCALE 3" = 1'-0"**

**NOTE: TYPE-B SYSTEM SIMILAR EXCEPT HEAD & SILL RUN THROUGH.**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
<tr>
<td><strong>HEAD</strong></td>
<td><strong>HORIZONTAL</strong></td>
<td><strong>SILL</strong></td>
<td><strong>JAMB</strong></td>
<td><strong>MULLION</strong></td>
<td><strong>SSG MULLION</strong></td>
</tr>
<tr>
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<td>17523</td>
<td>175021</td>
<td>175023</td>
<td>175021</td>
<td>175028</td>
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<td>1/4&quot;</td>
</tr>
</tbody>
</table>

**ELEVATION IS NUMBER KEYED TO DETAILS**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEAD</strong></td>
<td><strong>HORIZONTAL</strong></td>
<td><strong>SILL</strong></td>
<td><strong>JAMB</strong></td>
<td><strong>MULLION</strong></td>
<td><strong>SSG MULLION</strong></td>
</tr>
<tr>
<td>17521</td>
<td>17523</td>
<td>175021</td>
<td>175023</td>
<td>175021</td>
<td>175028</td>
</tr>
<tr>
<td><strong>INFILL</strong></td>
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<td><strong>INFILL</strong></td>
<td><strong>INFILL</strong></td>
<td><strong>INFILL</strong></td>
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<tr>
<td>1/4&quot;</td>
<td>1&quot;</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

**NOTE:** TYPE-B SYSTEM SIMILAR EXCEPT HEAD & SILL RUN THROUGH.
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EnCORE™ Framing System

SCALE 3" = 1'-0"

NOTE: TYPE-B SYSTEM SIMILAR EXCEPT HEAD & SILL RUN THROUGH.

ELEVATION IS NUMBER KEYED TO DETAILS

1/4" INFILL

1 HEAD

2 HORIZONTAL

3 SILL

4 JAMB

5 MULLION

6 SSG MULLION

1" INFILL

1 HEAD

HORIZONTAL

2A HORIZONTAL

W/ 1/4" ADAPTER

3 SILL

4 JAMB

5 MULLION

5A MULLION

W/ 1/4" ADAPTER

6 SSG MULLION

6A W/ 1/4" ADAPTER INSIDE SEAL

6A W/ 1/4" ADAPTER OUTSIDE SEAL

ADMC080EN
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SCALE 3" = 1'-0"

1/4" INFILL

1" INFILL

3-9/16" SYSTEM

4-1/2" SYSTEM

4-1/2" SYSTEM CENTER GLAZED

6" SYSTEM
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SCALE 3" = 1'-0"

1/4" INFILL

1" INFILL

3-9/16" SYSTEM

4-1/2" SYSTEM

4-1/2" SYSTEM CENTER GLAZED

6" SYSTEM
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SCALE 3" = 1'-0"

1/4" INFILL

3-9/16" SYSTEM

4-1/2" SYSTEM

4-1/2" SYSTEM CENTER GLAZED

6" SYSTEM
**SCALE 3" = 1'-0"**

### 1-1/4" NARROW PERIMETER

**SCREW SPLINE SYSTEM WITH 1/4" INFILL**

- **3-9/16" SYSTEM**
- **4-1/2" SYSTEM**
- **CENTER GLAZED 4-1/2" SYSTEM**
- **6" SYSTEM**

### HEAD RECEPTORS

- **3-9/16" NON-THERMAL**
- **3-9/16" THERMAL**
- **4-1/2" NON-THERMAL**
- **4-1/2" THERMAL**
- **6" NON-THERMAL**
- **6" THERMAL**

### HEAVY MULLIONS

- **175004** (IN LIEU OF 175003)
- **175004** (IN LIEU OF 175033)
- **175006** (IN LIEU OF 175005)
- **175006** (IN LIEU OF 175055)
- **175104** (IN LIEU OF 175103)
- **175106** (IN LIEU OF 175105)

**NOTE:**

HEAVY MULLIONS CAN BE USED WITH STANDARD FACE COVERS 175155 & 175156
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SCALE 3" = 1'-0"

HORIZONTAL / CROSSRAIL ASSEMBLY
(SCREW SPLINE SYSTEM)

1/4" INFILL

1" INFILL

EnCORE™ GLAZING CHART

<table>
<thead>
<tr>
<th>INFILL THICKNESS</th>
<th>ADAPTER for 1&quot; Infill Pocket</th>
<th>WEATHERING (Both Sides)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>175171</td>
<td>027077 Heavy</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>175171</td>
<td>027074 Standard</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>175171</td>
<td>027076 Light</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>175173</td>
<td>027074 Standard</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>175173</td>
<td>027076 Light</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>175175</td>
<td>027074 Standard</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>–</td>
<td>027077 Heavy</td>
</tr>
<tr>
<td>1&quot;</td>
<td>–</td>
<td>027074 Standard</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>–</td>
<td>027076 Light</td>
</tr>
</tbody>
</table>

NOTE: For infill thicknesses in 1/16" increments or oversize glass, use a combination of the Std. (027074) with either the Light (27076) or the Heavy (027077) gaskets.

SSG GLAZING CHART

<table>
<thead>
<tr>
<th>INFILL THICKNESS</th>
<th>SSG ADAPTER</th>
<th>HORIZONTAL WEATHERING</th>
<th>SSG WEATHERING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>175172</td>
<td>027074 Std.</td>
<td>175302</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>175173</td>
<td>027074 Std.</td>
<td>175302</td>
</tr>
</tbody>
</table>
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Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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Scale 3" = 1'-0"

Outswing Casement

Project-Out

Elevation is number keyed to details

NOTE: Black spacer is recommended when 1" (25.4) insulating glass is used.
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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NOTE: Black spacer is recommended when 1” (25.4) insulating glass is used.
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Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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SCALE 3" = 1'-0"

8225TL THERMAL WINDOWS SHOWN

NOTE: Other vent types can be accommodated. Consult your Kawneer Representative for other options.

ELEVATION IS NUMBER KEYED TO DETAILS
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EnCORE™ Framing System
4-1/2" Entrance Framing (Front Glazed)

EnCORE™ Framing incorporating Kawneer "190" Doors.

NOTE: Other types of Kawneer doors may be used with this framing. See the Entrance Section for additional information.

Scale 3" = 1'-0"

Elevation is number keyed to details.
Transom area for both double or single acting doors with glass surround. Jambs above transom area are routed out to accept pocket insert 175253.

SCALE 3" = 1'-0"
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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

EnCORE™ Framing System

4-1/2" Entrance Framing (Center Glazed)

EC 97911-114

AUGUST, 2016

NOTE: Other types of Kawneer doors may be used with this framing. See the Entrance Section for additional information.

SCALE 3" = 1'-0"

EnCORE™ FRAMING INCORPORATING KAWNEER "190" DOORS.

ELEVATION IS NUMBER KEYED TO DETAILS

1 TRANSOM HEAD

2 OFFSET PIVOT/ BUTT HUNG TRANSOM BAR

2 S/A OFFSET ARM OFFSET PIVOT/ BUTT HUNG TRANSOM BAR

2 C.O.C. CENTER PIVOT TRANSOM BAR

3 OFFSET PIVOT/ BUTT HUNG HEADER

3 S/A OFFSET ARM OFFSET PIVOT/ BUTT HUNG HEADER

3 C.O.C. CENTER PIVOT HEADER

EnCORE™ Framing System

4-1/2" ENTRANCE FRAMING (CENTER GLAZED)

EC 97911-114

AUGUST, 2016

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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.

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**SCALE 3" = 1'-0"**

Transom area for both double or single acting doors with glass surround. Jambs above transom area are routed out to accept pocket insert 175253.

1. **DOOR JAMB AT TRANSOM**

2. **SINGLE ACTING DOOR JAMB**

3. **DOUBLE ACTING DOOR JAMB**

4. **POCKET INSERT**

5. **SINGLE ACTING DOOR JAMB**

6. **DOUBLE ACTING DOOR JAMB**
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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

NOTE: Other types of Kawneer doors may be used with this framing. See the Entrance Section for additional information.
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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EC 97911-114
6" ENTRANCE FRAMING (FRONT GLAZED)

SCALE 3" = 1'-0"
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WIND LOAD CHARTS

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 HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104MPa), STEEL 30,000 psi (207MPa). Charted curves, in all cases are for the limiting value. Wind load charts contained herein are based upon nominal wind load utilized in allowable stress design. A conversion from Load Resistance Factor Design (LRFD) is provided. To convert ultimate wind loads to nominal loads, multiply ultimate wind loads by a factor of 0.6 per ASCE/SEI 7. 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.

If the end reaction of the mullion [mullion spacing (ft.) times height (ft.) times specified wind load (psf) divided by two] is more than 500 lbs., the optional Mullion Anchors must be used. Consult Application Engineering. *(Mullion Anchor not used with Lightweight Receptor,)*

DEADLOAD CHARTS

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 1" (25.4) thick insulating glass or 1/4" (6.35) thick glass supported on two setting blocks placed at the loading points shown.
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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Wind Load Charts

<table>
<thead>
<tr>
<th>Allowable Stress Design Load</th>
<th>LRFD Ultimate Design Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 15 PSF (720)</td>
<td>25 PSF (1200)</td>
</tr>
<tr>
<td>B = 20 PSF (960)</td>
<td>33 PSF (1580)</td>
</tr>
<tr>
<td>C = 25 PSF (1200)</td>
<td>42 PSF (2000)</td>
</tr>
<tr>
<td>D = 30 PSF (1440)</td>
<td>50 PSF (2400)</td>
</tr>
<tr>
<td>E = 40 PSF (1920)</td>
<td>67 PSF (3200)</td>
</tr>
</tbody>
</table>
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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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I = 0.654 (27.22 x 10^4)  
S = 0.466 (7.64 x 10^3)

I = 1.277 (53.15 x 10^4)  
S = 0.639 (10.47 x 10^3)
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. Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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Allowable Stress Design Load | LRFD Ultimate Design Load
--- | ---
A = 15 PSF (720) | 25 PSF (1200)
B = 20 PSF (960) | 33 PSF (1580)
C = 25 PSF (1200) | 42 PSF (2000)
D = 30 PSF (1440) | 50 PSF (2400)
E = 40 PSF (1920) | 67 PSF (3200)

\[ I = 1.511 \times 10^4 \quad S = 0.745 \times 10^3 \]

\[ I = 1.747 \times 10^4 \quad S = 0.877 \times 10^3 \]
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<table>
<thead>
<tr>
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<th>LRFD Ultimate Design Load</th>
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</thead>
<tbody>
<tr>
<td>A = 15 PSF (720)</td>
<td>25 PSF (1200)</td>
</tr>
<tr>
<td>B = 20 PSF (960)</td>
<td>33 PSF (1580)</td>
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</tr>
<tr>
<td>D = 30 PSF (1440)</td>
<td>50 PSF (2400)</td>
</tr>
<tr>
<td>E = 40 PSF (1920)</td>
<td>67 PSF (3200)</td>
</tr>
</tbody>
</table>

I = 3.229 ($134.40 \times 10^4$)
S = 1.094 ($17.93 \times 10^3$)

I = 4.325 ($180.02 \times 10^4$)
S = 1.626 ($26.65 \times 10^3$)
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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<th>LRFD Ultimate Design Load</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>B = 20 PSF (960)</td>
<td>33 PSF (1580)</td>
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<tr>
<td>C = 25 PSF (1200)</td>
<td>42 PSF (2000)</td>
</tr>
<tr>
<td>D = 30 PSF (1440)</td>
<td>50 PSF (2400)</td>
</tr>
<tr>
<td>E = 40 PSF (1920)</td>
<td>67 PSF (3200)</td>
</tr>
</tbody>
</table>

I = 4.005 \times 10^4 \quad S = 1.533 \times 10^3

I = 2.919 \times 10^4 \quad S = 1.297 \times 10^3
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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Wind Load Charts

<table>
<thead>
<tr>
<th>Allowable Stress Design Load</th>
<th>LRFD Ultimate Design Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 15 PSF (720)</td>
<td>25 PSF (1200)</td>
</tr>
<tr>
<td>B = 20 PSF (960)</td>
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<tr>
<td>D = 30 PSF (1440)</td>
<td>50 PSF (2400)</td>
</tr>
<tr>
<td>E = 40 PSF (1920)</td>
<td>67 PSF (3200)</td>
</tr>
</tbody>
</table>

AUGUST, 2016

EnCORE™ Framing System

WITH HORIZONTALS

<table>
<thead>
<tr>
<th>HEIGHT IN FEET</th>
<th>WIDTH IN METERS</th>
</tr>
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<tbody>
<tr>
<td>15</td>
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<td>9</td>
<td>3.5</td>
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<tr>
<td>8</td>
<td>4</td>
</tr>
</tbody>
</table>

HEIGHT IN METERS

WIDTH IN FEET

WIDTH IN FEET

HEIGHT IN METERS

I = 2.799 (116.50 x 10^4)
S = 1.233 (20.21 x 10^3)
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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EnCORE™ Framing System  AUGUST, 2016

WIND LOAD CHARTS

EC 97911-114

<table>
<thead>
<tr>
<th>Allowable Stress Design Load</th>
<th>LRFD Ultimate Design Load</th>
</tr>
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<tbody>
<tr>
<td>A = 15 PSF (720)</td>
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</tr>
<tr>
<td>E = 40 PSF (1920)</td>
<td>67 PSF (3200)</td>
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</tbody>
</table>

WITH HORIZONTALS

WIDTH IN METERS

WITH 1/2" x 3-1/4" STEEL BAR

I = 4.005 (166.70 x 10^4)
S = 1.533 (25.12 x 10^3)

WITHOUT HORIZONTALS

WIDTH IN METERS

Allowable Stress

Design Load

LRFD Ultimate Design Load

A = 15 PSF (720) 25 PSF (1200)
B = 20 PSF (960) 33 PSF (1580)
C = 25 PSF (1200) 42 PSF (2000)
D = 30 PSF (1440) 50 PSF (2400)
E = 40 PSF (1920) 67 PSF (3200)

WITH 1/2" x 3-1/4" STEEL BAR

I = 1.430 (59.49 x 10^4)
S = 0.880 (14.43 x 10^3)
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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### Table: Allowable Stress Design Load and LRFD Ultimate Design Load

<table>
<thead>
<tr>
<th>Level</th>
<th>Allowable Stress Design Load</th>
<th>LRFD Ultimate Design Load</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>15 PSF (720)</td>
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</tr>
<tr>
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<td>E</td>
<td>40 PSF (1920)</td>
<td>67 PSF (3200)</td>
</tr>
</tbody>
</table>

### Wind Load Charts

#### With Horizontals

<table>
<thead>
<tr>
<th>Width in Meters</th>
<th>Height in Feet</th>
<th>I</th>
<th>S</th>
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</tr>
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<td>8</td>
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</tbody>
</table>

#### Without Horizontals

<table>
<thead>
<tr>
<th>Width in Meters</th>
<th>Height in Feet</th>
<th>I</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
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<td>6</td>
<td>8</td>
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<td></td>
</tr>
</tbody>
</table>

**With 1/2" x 3-1/4" Steel Bar**

- \( I = 4.325 \times 10^4 \) (180.02 x \(10^4\))
- \( S = 1.626 \times 10^3 \) (26.65 x \(10^3\))

---

*Allowing and building codes governing the design and use of glazing materials may 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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<td>50 PSF (2400)</td>
</tr>
<tr>
<td>E = 40 PSF (1920)</td>
<td>67 PSF (3200)</td>
</tr>
</tbody>
</table>

WITH 1/2" x 3-1/4" STEEL BAR

I = 4.005 (166.70 x 10^4)
S = 1.533 (25.12 x 10^3)

WITH HORIZONTALS

WIDTH IN METERS

WITHOUT HORIZONTALS

WIDTH IN METERS

Allowable Stress
Design Load

LRFD Ultimate
Design Load

A = 15 PSF (720)
B = 20 PSF (960)
C = 25 PSF (1200)
D = 30 PSF (1440)
E = 40 PSF (1920)

I = 4.005 (166.70 x 10^4)
S = 1.533 (25.12 x 10^3)

WITH 1/2" x 3-1/4" STEEL BAR

I = 1.430 (59.49 x 10^4)
S = 0.880 (14.43 x 10^3)

HEIGHT IN FEET

WIDTH IN FEET

HEIGHT IN METERS

WIDTH IN FEET

HEIGHT IN FEET

WIDTH IN METERS

HEIGHT IN METERS

AUGUST, 2016

ADMC080EN
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 1/4" (6.4) and 1" (25.4) thick 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
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 1/4" (6.4) and 1" (25.4) thick glass supported on two setting blocks placed at the loading points shown.
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 1/4" (6.4) and 1" (25.4) thick glass supported on two setting blocks placed at the loading points shown.
DEADLOADS ON ENTRANCE TRANSOM BARS
Height limitations for transom glass over a doorway are based on a maximum 1/16" (1.6) mid-point deflection of a transom bar supporting glass bearing on two setting blocks placed at the loading points shown.

WITH 1" GLASS

A = 1/4 POINT LOADING
B = 1/6 POINT LOADING
C = 1/8 POINT LOADING

WITH 1/4" GLASS
DEADLOADS ON ENTRANCE TRANSMOM BARS

Height limitations for transom glass over a doorway are based on a maximum 1/16” (1.6) mid-point deflection of a transom bar supporting glass bearing 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

WITH 1” GLASS

WITH 1/4” GLASS

DEADLOAD CHARTS
Generic Project Specific U-factor Example Calculation
(Percent of Glass will vary on specific products depending on sitelines)

Example Glass U-value = 0.42 Btu/hr·ft²·°F
Total Daylight Opening = 3(5' x 7') + 3(5'x2') = 135 ft²
Total Projected Area = (Total Daylight Opening + Total Area of Framing System)
= 15'-8" x 9'-6" = 148.83 ft²
Percent of Glass = (Total Daylight Opening + Total Projected Area)
= (135 ÷ 148.83)100 = 91%

System U-factor vs Percent of Glass Area

Based on 91% glass and center of glass U-factor of 0.42,
System U-factor is equal to 0.49 Btu/hr·ft²·°F
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Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

System U-factor vs Percent of Glass Area

Vision Area / Total Area (%)

95  94  93  92  91  90  89  88  87  86  85  84  83  82  81  80  79  78  77  76  75  74  73  72  71  70

0.900  0.850  0.800  0.750  0.700  0.650  0.600  0.550  0.500  0.450  0.400  0.350  0.300  0.250  0.200

System U-factor (Btu/h·ft²·°F)

COG

0.48  0.46  0.44  0.42  0.40  0.38  0.36  0.34  0.32  0.30  0.28  0.26  0.24  0.22  0.20

Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.
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.
### Thermal Transmittance \(^1\) (BTU/hr \cdot ft^2 \cdot °F)

<table>
<thead>
<tr>
<th>Glass U-Factor (^3)</th>
<th>Overall U-Factor (^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.48</td>
<td>0.61</td>
</tr>
<tr>
<td>0.46</td>
<td>0.59</td>
</tr>
<tr>
<td>0.44</td>
<td>0.58</td>
</tr>
<tr>
<td>0.42</td>
<td>0.56</td>
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<td>0.38</td>
<td>0.53</td>
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<tr>
<td>0.36</td>
<td>0.51</td>
</tr>
<tr>
<td>0.34</td>
<td>0.50</td>
</tr>
<tr>
<td>0.32</td>
<td>0.48</td>
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<td>0.30</td>
<td>0.46</td>
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<td>0.22</td>
<td>0.40</td>
</tr>
<tr>
<td>0.20</td>
<td>0.38</td>
</tr>
</tbody>
</table>

**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").

### SHGC Matrix \(^2\)

<table>
<thead>
<tr>
<th>Glass SHGC (^3)</th>
<th>Overall SHGC (^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>0.68</td>
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<tr>
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<td>0.65</td>
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### Visible Transmittance \(^2\)

<table>
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<tr>
<th>Glass VT (^3)</th>
<th>Overall VT (^4)</th>
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<tr>
<td>0.70</td>
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<tr>
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<td>0.10</td>
<td>0.09</td>
</tr>
<tr>
<td>0.05</td>
<td>0.04</td>
</tr>
</tbody>
</table>
Clip spacing of each elevation must be checked to meet wind load requirements.
Glazing clips should be located 3" from each end of member and subsequently spaced per formula below:

**STEP 1:** Locate the largest lite of glass on each ELEVATION.
**STEP 2:** Determine the width and height for the largest glass lite.
**STEP 3:** Use the smallest of the two dimensions for the MODULE (FT) spacing.
**STEP 4:** Match that Module (ft) spacing with the required wind load on the chart below.

**SAMPLE CALCULATION**

<table>
<thead>
<tr>
<th>Lite &quot;W&quot;</th>
<th>3'-0&quot; x 5'-3-1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'-0&quot;</td>
<td>12&quot; O.C. for 30 PSF</td>
</tr>
<tr>
<td></td>
<td>10&quot; O.C. for 35 PSF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODULE (FT)</th>
<th>WIND LOAD (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>55</td>
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<tr>
<td>4</td>
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<td>6</td>
<td>40</td>
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<tr>
<td>7</td>
<td>35</td>
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<tr>
<td>8</td>
<td>30</td>
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A = 6" O.C.
B = 7" O.C.
C = 8" O.C.
D = 9" O.C.
E = 10" O.C.
F = 12" O.C.
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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.