**Features**

- 1600 SS™ is an outside glazed captured or SSG curtain wall system
- 1600 SS™ has 2-1/2” (63.5) sight lines
- Standard 6" (152.4) or 7-1/2" (190.5) depth systems
- Infill options up to 1-1/8" (28.6)
- A pre-glazed option, 1600 SS Unitwall™, is also available
- Perimeter seal can be installed at the pressure plate or mullion shoulder
- 1600 SS™ can be supplied fabricated and KD or in stock lengths
- Interlocking mullion design eliminates need for anti-buckling clips
- Concealed fastener joinery creates smooth, monolithic appearance
- EPDM gaskets and thermal break
- Screw spline joinery method allows shop assembly of ladder sections, reducing field labor
- Corners available with shear block fabrication method
- Offers integrated entrance framing systems
- Silicone compatible glazing materials for long-lasting seals
- Two color option
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

**Optional Features**

- Captured system thermal separator can be pre-installed into pressure plate
- Captured and SSG systems integrate with concealed GLASSvent®
- Captured system Integrates with standard Kawneer windows
- Deep and bullnose covers available
- Profit$maker® Plus die sets available

**Product Applications**

- Ideal for low to mid-rise applications where high performance is desired
- Most of the product assembly can be done in the shop rather than the field. This allows for better quality control and reduces expensive field labor.

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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Architects - Most extrusion and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand design flexibility. Please contact your Kawneer representative for further assistance.

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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.

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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SCALE 3" = 1'-0"

SSG MULLION ELEVATION

ELEVATION IS NUMBER KEYED TO DETAILS

1 1A
2 2A
3 4
4 4A
5 5A
6, 6A
7, 7A
10 11

SSG MULLION ELEVATION

ELEVATION IS NUMBER KEYED TO DETAILS

6 JAMB (1/4" INFILL)

6A SSG MULLION AT JAMB (1/4")

8 CAPTURED MULLION (1/4")

10 SSG MULLION (1/4" INFILL)

7 JAMB (1" INFILL)

7A SSG MULLION AT JAMB (1")

9 CAPTURED MULLION (1")

11 SSG MULLION (1" INFILL)
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NOTE: SEE PAGE 7 FOR VERTICAL MULLION DETAILS
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SCALE 3" = 1'-0"

(RTS) - Reversed Thermal Separator

(RTS) CAPTURED MULLION ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS

PRE-GLAZED EXPANSION HORIZONTAL
1" OVER 1/4"

PRE-GLAZED EXPANSION HORIZONTAL
1" OVER 1"

SILL
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SCALE 3" = 1'-0" (RTS) - Reversed Thermal Separator

<table>
<thead>
<tr>
<th>JAMB</th>
<th>MULLION</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1/4&quot; INFILL)</td>
<td>(1&quot; INFILL)</td>
</tr>
</tbody>
</table>

1/2" (12.7)

2-1/2" (63.5)

6

7

8

9

FEBRUARY, 2012
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SCALE 3" = 1'-0"

1600 GLASSvent®

HEAD

SILL

JAMB AT CAPTURED MULLION

JAMB AT SSG MULLION

8225TL ISOLOCK® WINDOWS

NOTE: Other vent types can be accommodated. Contact your Kawneer representative for other options.
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Reynobond ACM (Aluminum Composite Material) is manufactured by Alcoa Cladding Systems.

Reynobond ACM panels are available in a wide variety of sizes and shapes and are colored with Colorweld® 300 coatings. Colorweld® 300 coatings are Kynar 500®/Hylar 5000® finishes which feature durable polyvinylidene fluoride (PVDF) resins. Colorweld® 300 Series 4 finishes are designed to match Kawneer’s anodized colors.

For additional information on Reynobond visit: www.reynobond.com

ELEVATION IS NUMBER KEYED TO DETAILS

NOTE: 6” SYSTEM SHOWN, 7-1/2” SYSTEM SIMILAR

Reynobond ACM panels are available in a wide variety of sizes and shapes and are colored with Colorweld® 300 coatings. Colorweld® 300 coatings are Kynar 500®/Hylar 5000® finishes which feature durable polyvinylidene fluoride (PVDF) resins. Colorweld® 300 Series 4 finishes are designed to match Kawneer’s anodized colors.

For additional information on Reynobond visit: www.reynobond.com
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EC 97911-37

SCALE 3" = 1'-0"

ELEVATION IS NUMBER KEYED TO DETAILS

NOTE: 7-1/2" SYSTEM SHOWN, 6" SYSTEM SIMILAR

1 JAMB MULLION AT SPANDREL

2 MULLION AT SPANDREL

3 HEAD

4 EXPANSION JOINT

5 TYPICAL DEADLOAD ANCHOR

6 TRANSOM – SPANDREL OVER VISION
Actual project conditions will determine specific anchor design. Details on this page are for reference only.
Actual project conditions will determine specific anchor design. Details on this page are for reference only.

ANCHORING TO HORIZONTAL STRUCTURAL STEEL

ANCHORING TO VERTICAL STRUCTURAL STEEL
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 p.s.i. (104MPa). 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.

DEAD LOAD 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) thick insulating glass or 1/4" (6) thick glass supported on two setting blocks placed at the loading points shown.
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Dead Load Charts

<table>
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<tr>
<th>Span in Feet</th>
<th>Glass Height in Feet</th>
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<tbody>
<tr>
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<td>7</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

169-016
I = 0.589 (24.52 x 10^4)
S = 0.456 (7.47 x 10^3)

169-019
I = 0.598 (24.89 x 10^4)
S = 0.470 (7.70 x 10^3)
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Project Specific U-factor
Example Calculation
(Based on single bay of Curtain Wall/Window Wall)

**Vision Area**

- **Example Glass U-factor**
  \[ \text{Example Glass U-factor} = 0.48 \text{ Btu/(ft}^2 \cdot \text{h} \cdot \text{°F)} \]

- **Vision Area**
  \[ \text{Vision Area} = 5(9 + 8 + 4) = 105.0 \text{ ft}^2 \]

- **Total Area (Vision)**
  \[ \text{Total Area (Vision)} = 5' \ 2-1/2" \ (9' \ 3-3/4" + 8' \ 2-1/2" + 4' \ 2-1/2") = 113.2 \text{ ft}^2 \]

- **Percentage of Vision Glass**
  \[ \text{Percentage of Vision Glass} = \left( \frac{\text{Vision Area}}{\text{Total Area (Vision)}} \right) \times 100 = \left( \frac{105.0}{113.2} \right) \times 100 = 93\% \]

**Spandrel Area**

- **Example Spandrel R-value**
  \[ \text{Example Spandrel R-value} = 15 \ (\text{ft}^2 \cdot \text{h} \cdot \text{°F})/\text{Btu} \]

- **Spandrel Area**
  \[ \text{Spandrel Area} = 5(6 + 3) = 45.0 \text{ ft}^2 \]

- **Total Area (Spandrel)**
  \[ \text{Total Area (Spandrel)} = 5' \ 2-1/2" \ (6' \ 2-1/2" + 3' \ 3-3/4") = 49.6 \text{ ft}^2 \]

- **Percent of Spandrel**
  \[ \text{Percent of Spandrel} = \left( \frac{\text{Spandrel Area}}{\text{Total Area (Spandrel)}} \right) \times 100 = \left( \frac{49.0}{49.6} \right) \times 100 = 91\% \]
Vision Area Chart

System U-factor vs Percent of Vision Area

Based on a single curtain wall bay of 93% vision glass and center of glass U-factor of 0.48, System U-factor is equal to 0.53 Btu/(h·ft²·°F)

Spandrel Area Chart

System U-factor vs Percent of Spandrel Area

Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h·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 for Vision Glass

- **COG U-factor**
- **Vision Area / Total Area (%)**

### System U-Factors for Spandrel Glass

- **Spandrel R-Value**
- **Spandrel Area / Total Area (%)**
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System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area

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 ³</th>
<th>Overall U-Factor ⁴</th>
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<tbody>
<tr>
<td>0.48</td>
<td>0.62</td>
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### SHGC Matrix

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<th>Glass SHGC ³</th>
<th>Overall SHGC ⁴</th>
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<tr>
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<td>0.24</td>
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### Visible Transmittance

<table>
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<tr>
<th>Glass VT ³</th>
<th>Overall VT ⁴</th>
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<td>0.20</td>
<td>0.18</td>
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</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").
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:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

System U-Factor for Vision Glass

System U-Factors for Spandrel Glass

Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.
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System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area

System Visible Transmittance (VT) vs Percent of Vision Area

Charts are generated per AAMA 507.
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### THERMAL PERFORMANCE MATRIX (NFRC SIZE) - (SSG)

#### Thermal Transmittance

<table>
<thead>
<tr>
<th>Glass U-Factor</th>
<th>Overall U-Factor</th>
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<tbody>
<tr>
<td>0.48</td>
<td>0.56</td>
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<tr>
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#### SHGC Matrix

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<th>Glass SHGC</th>
<th>Overall SHGC</th>
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<tr>
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<tr>
<td>0.85</td>
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<td>0.37</td>
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#### Visible Transmittance

<table>
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<tr>
<th>Glass VT</th>
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</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").