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 (Preglazed), 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 seven 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™ for curtain wall
- Captured system Integrates with standard Kawneer windows
- Deep and bullnose covers available
- Integrates with Versoleil™ Sunshade Outrigger System and Horizontal or Vertical Single Blade System
- 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.
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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.

PICTORIAL VIEW ................................................................. 5
FRAMING DETAILS................................................................. 6,7
ENTRANCE DETAILS .............................................................. 8,9
1600 SS (PREGLAZED) FRAMING DETAILS ......................... 10
FRAMING DETAILS (RTS) ....................................................... 11,12
ENTRANCE DETAILS (RTS) .................................................. 13
CORNER DETAILS ................................................................. 14,15
GLASSvent™ FOR CURTAIN WALL / WINDOWS .................. 16
BACK PAN DETAILS ............................................................... 17
ANCHORING .......................................................................... 18,19
WIND LOAD / DEAD LOAD CHARTS ................................... 20-25
THERMAL CHARTS ............................................................... 26-33

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

5
FLUSH TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SURFACE CLOSER

5A
FLUSH TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SURFACE CLOSER

5B
FLUSH TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SURFACE CLOSER

6
FLUSH DOOR JAMB
BUTT HUNG OR OFFSET PIVOT

ALTERNATE SSG
FLUSH DOOR JAMB
BUTT HUNG OR OFFSET PIVOT

ALTERNATE SSG
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT
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SCALE 3" = 1'-0"

90° OUTSIDE CORNER

135° OUTSIDE CORNER

90° OUTSIDE SSG CORNER

90° INSIDE SSG CORNER

135° OUTSIDE SSG CORNER

135° INSIDE SSG CORNER
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GLASSvent™ FOR CURTAIN WALL

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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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

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

SCALE 3" = 1'-0"

ELEVATION IS NUMBER KEYED TO DETAILS

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

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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.
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. If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. 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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DECEMBER, 2013

EC 97911-053

1600 SS

DEAD LOAD CHARTS

(1/4" INFILL)

SPAN IN METERS

(1" INFILL)

SPAN IN METERS

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

I = 1.620 (67.43 x 10^4)
S = 1.296 (21.24 x 10^3)

169014

(1/4" INFILL)

SPAN IN METERS

(1" INFILL)

SPAN IN METERS

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

I = 2.052 (85.41 x 10^4)
S = 1.642 (26.91 x 10^3)

169017

SPAN IN FEET

SPAN IN FEET

SPAN IN METERS

SPAN IN METERS

GLASS HEIGHT IN FEET

GLASS HEIGHT IN FEET

GLASS HEIGHT IN METERS

GLASS HEIGHT IN METERS

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8
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Dead Load Charts

1600 SS

(1/4" INFILL)

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

169016

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

(1" INFILL)

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

169019

I = 0.598 (24.89 x 10^4)
S = 0.470 (7.70 x 10^3)
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DEAD LOAD CHARTS

1600 SS

(1/4" INFILL)

SPAN IN METERS

A = 1/4 POINT LOADING

B = 1/8 POINT LOADING

169015

I = 0.659 (27.43 x 10^6)

S = 0.496 (8.13 x 10^3)

(1" INFILL)

SPAN IN METERS

A = 1/4 POINT LOADING

B = 1/8 POINT LOADING

169018

I = 0.671 (27.93 x 10^6)

S = 0.514 (8.42 x 10^3)
### Project Specific U-factor

**Example Calculation**

(Based on single bay of Curtain Wall/Window Wall)

<table>
<thead>
<tr>
<th>Vision Area</th>
<th>Spandrel Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Glass U-factor</td>
<td>Example Spandrel R-value</td>
</tr>
<tr>
<td>(= 0.48 \text{ Btu/}(\text{ft}^2 \cdot \text{h} \cdot {}^\circ\text{F}))</td>
<td>(= 15 \text{ (ft}^2 \cdot \text{h} \cdot {}^\circ\text{F})/\text{Btu})</td>
</tr>
<tr>
<td>Vision Area</td>
<td>Spandrel Area</td>
</tr>
<tr>
<td>(= 5(9 + 8 + 4) = 105.0 \text{ ft}^2)</td>
<td>(= 5(6 + 3) = 45.0 \text{ ft}^2)</td>
</tr>
<tr>
<td>Total Area (Vision)</td>
<td>Total Area (Spandrel)</td>
</tr>
<tr>
<td>(= 5' \ 2-1/2'' (9' \ 3-3/4'' + 8' \ 2-1/2'' + 4' \ 2-1/2'') = 113.2 \text{ ft}^2)</td>
<td>(= 5' \ 2-1/2'' (6' \ 2-1/2'' + 3' \ 3-3/4'') = 49.6 \text{ ft}^2)</td>
</tr>
<tr>
<td>Percentage of Vision Glass</td>
<td>Percent of Spandrel</td>
</tr>
<tr>
<td>(= (\text{Vision Area} \div \text{Total Area})\times 100)</td>
<td>(= (\text{Spandrel Area} \div \text{Total Area})\times 100)</td>
</tr>
</tbody>
</table>
| \(= (105.0 \div 113.2)\times 100 = 93\%\)       | \(= (49.0 \div 49.6)\times 100 = 91\%\)
**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.
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### Thermal Transmittance

#### Thermal Transmittance \(^1\) (BTU/hr • ft\(^2\) • °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>0.62</td>
</tr>
<tr>
<td>0.46</td>
<td>0.60</td>
</tr>
<tr>
<td>0.44</td>
<td>0.59</td>
</tr>
<tr>
<td>0.42</td>
<td>0.57</td>
</tr>
<tr>
<td>0.40</td>
<td>0.55</td>
</tr>
<tr>
<td>0.38</td>
<td>0.54</td>
</tr>
<tr>
<td>0.36</td>
<td>0.52</td>
</tr>
<tr>
<td>0.34</td>
<td>0.50</td>
</tr>
<tr>
<td>0.32</td>
<td>0.49</td>
</tr>
<tr>
<td>0.30</td>
<td>0.47</td>
</tr>
<tr>
<td>0.28</td>
<td>0.46</td>
</tr>
<tr>
<td>0.26</td>
<td>0.44</td>
</tr>
<tr>
<td>0.24</td>
<td>0.42</td>
</tr>
<tr>
<td>0.22</td>
<td>0.41</td>
</tr>
<tr>
<td>0.20</td>
<td>0.39</td>
</tr>
</tbody>
</table>

### SHGC Matrix

#### SHGC Matrix \(^2\)

<table>
<thead>
<tr>
<th>Glass SHGC (^3)</th>
<th>Overall SHGC (^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.90</td>
<td>0.82</td>
</tr>
<tr>
<td>0.85</td>
<td>0.78</td>
</tr>
<tr>
<td>0.80</td>
<td>0.73</td>
</tr>
<tr>
<td>0.75</td>
<td>0.69</td>
</tr>
<tr>
<td>0.70</td>
<td>0.64</td>
</tr>
<tr>
<td>0.65</td>
<td>0.60</td>
</tr>
<tr>
<td>0.60</td>
<td>0.55</td>
</tr>
<tr>
<td>0.55</td>
<td>0.51</td>
</tr>
<tr>
<td>0.50</td>
<td>0.46</td>
</tr>
<tr>
<td>0.45</td>
<td>0.42</td>
</tr>
<tr>
<td>0.40</td>
<td>0.37</td>
</tr>
<tr>
<td>0.35</td>
<td>0.33</td>
</tr>
<tr>
<td>0.30</td>
<td>0.29</td>
</tr>
<tr>
<td>0.25</td>
<td>0.24</td>
</tr>
<tr>
<td>0.20</td>
<td>0.20</td>
</tr>
</tbody>
</table>

### Visible Transmittance

#### Visible Transmittance \(^2\)

<table>
<thead>
<tr>
<th>Glass VT (^3)</th>
<th>Overall VT (^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.90</td>
<td>0.81</td>
</tr>
<tr>
<td>0.85</td>
<td>0.76</td>
</tr>
<tr>
<td>0.80</td>
<td>0.72</td>
</tr>
<tr>
<td>0.75</td>
<td>0.67</td>
</tr>
<tr>
<td>0.70</td>
<td>0.63</td>
</tr>
<tr>
<td>0.65</td>
<td>0.58</td>
</tr>
<tr>
<td>0.60</td>
<td>0.54</td>
</tr>
<tr>
<td>0.55</td>
<td>0.49</td>
</tr>
<tr>
<td>0.50</td>
<td>0.45</td>
</tr>
<tr>
<td>0.45</td>
<td>0.40</td>
</tr>
<tr>
<td>0.40</td>
<td>0.36</td>
</tr>
<tr>
<td>0.35</td>
<td>0.31</td>
</tr>
<tr>
<td>0.30</td>
<td>0.27</td>
</tr>
<tr>
<td>0.25</td>
<td>0.22</td>
</tr>
<tr>
<td>0.20</td>
<td>0.18</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").
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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 • ft \(^2\) • °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>0.56</td>
</tr>
<tr>
<td>0.46</td>
<td>0.54</td>
</tr>
<tr>
<td>0.44</td>
<td>0.53</td>
</tr>
<tr>
<td>0.42</td>
<td>0.51</td>
</tr>
<tr>
<td>0.40</td>
<td>0.49</td>
</tr>
<tr>
<td>0.38</td>
<td>0.48</td>
</tr>
<tr>
<td>0.36</td>
<td>0.46</td>
</tr>
<tr>
<td>0.34</td>
<td>0.44</td>
</tr>
<tr>
<td>0.32</td>
<td>0.42</td>
</tr>
<tr>
<td>0.30</td>
<td>0.41</td>
</tr>
<tr>
<td>0.28</td>
<td>0.39</td>
</tr>
<tr>
<td>0.26</td>
<td>0.37</td>
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<tr>
<td>0.24</td>
<td>0.36</td>
</tr>
<tr>
<td>0.22</td>
<td>0.34</td>
</tr>
<tr>
<td>0.20</td>
<td>0.32</td>
</tr>
</tbody>
</table>

### SHGC Matrix \(^2\)

<table>
<thead>
<tr>
<th>Glass SHGC (^3)</th>
<th>Overall SHGC (^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.90</td>
<td>0.87</td>
</tr>
<tr>
<td>0.85</td>
<td>0.82</td>
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<tr>
<td>0.80</td>
<td>0.77</td>
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<tr>
<td>0.75</td>
<td>0.73</td>
</tr>
<tr>
<td>0.70</td>
<td>0.68</td>
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<tr>
<td>0.65</td>
<td>0.64</td>
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<tr>
<td>0.60</td>
<td>0.59</td>
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<tr>
<td>0.55</td>
<td>0.55</td>
</tr>
<tr>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td>0.45</td>
<td>0.46</td>
</tr>
<tr>
<td>0.40</td>
<td>0.41</td>
</tr>
<tr>
<td>0.35</td>
<td>0.37</td>
</tr>
<tr>
<td>0.30</td>
<td>0.32</td>
</tr>
<tr>
<td>0.25</td>
<td>0.28</td>
</tr>
<tr>
<td>0.20</td>
<td>0.23</td>
</tr>
</tbody>
</table>

### Visible Transmittance \(^2\)

<table>
<thead>
<tr>
<th>Glass VT (^3)</th>
<th>Overall VT (^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.90</td>
<td>0.81</td>
</tr>
<tr>
<td>0.85</td>
<td>0.77</td>
</tr>
<tr>
<td>0.80</td>
<td>0.72</td>
</tr>
<tr>
<td>0.75</td>
<td>0.68</td>
</tr>
<tr>
<td>0.70</td>
<td>0.63</td>
</tr>
<tr>
<td>0.65</td>
<td>0.59</td>
</tr>
<tr>
<td>0.60</td>
<td>0.54</td>
</tr>
<tr>
<td>0.55</td>
<td>0.50</td>
</tr>
<tr>
<td>0.50</td>
<td>0.45</td>
</tr>
<tr>
<td>0.45</td>
<td>0.41</td>
</tr>
<tr>
<td>0.40</td>
<td>0.36</td>
</tr>
<tr>
<td>0.35</td>
<td>0.32</td>
</tr>
<tr>
<td>0.30</td>
<td>0.27</td>
</tr>
<tr>
<td>0.25</td>
<td>0.23</td>
</tr>
<tr>
<td>0.20</td>
<td>0.18</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”).
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Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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