**Features**

- 2" (50.8) sight line
- 2-1/4" (57.2) frame depth (Veneer) and 4-1/2" (114.3) frame depth (Captured)
- Front glass plane
- Flush glazed from either the Inside or Outside (Veneer is outside glazed)
- Stick fabrication
- SSG / Weatherseal option
- 1/8" (3.2), 1/4" (6.4), or 3/8" (9.5) infill options
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

**Product Applications**

- Storefront, Ribbon window or Punched openings
- Low to Mid-rise
- Single-Span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be included

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.
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

2" x 4-1/2" (50.8 x 114.3) FRAMING MEMBERS
- OUTSIDE GLAZED ................................................................. 5
- INSIDE GLAZED ................................................................. 6
- OUTSIDE GLAZED with SSG ADAPTER ............................. 7
- INSIDE GLAZED with SSG ADAPTER ................................. 8

2" x 2-1/4" (50.8 x 114.3) VENEER FRAMING MEMBERS
- OUTSIDE GLAZED ................................................................. 9
- OUTSIDE GLAZED SSG ....................................................... 10
- CORNERS ............................................................................. 11
- ENTRANCE FRAMING ......................................................... 12
- WIND LOAD CHARTS ............................................................ 13,15
- END REACTION CHARTS .................................................... 16
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Trifab™ VG 450 Framing System 2" Sightline
INSIDE GLAZED - 2" x 4-1/2" (50.8 x 114.3)
EC 97911-122

SCALE 3" = 1'-0"

ELEVATION IS NUMBER KEYED TO DETAILS
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Trifab™ VG 450 Framing System 2" Sightline
INSIDE GLAZED with SSG ADAPTOR - 2" x 4-1/2" (50.8 x 114.3)
EC 97911-122

SCALE 3" = 1'-0"

1 HEAD

2 HORIZONTAL

3 SILL

4 JAMB

5 SSG VERTICAL

5A WEATHERSWEAL VERTICAL

6 JAMB

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SCALE 3” = 1’-0”

OUTSIDE GLAZED - SSG - 2" x 2-1/4" (50.8 x 57.2) VENEER

Trifab™ VG 450 Framing System 2" Sightline

NOVEMBER, 2016

EC 97911-122
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SCALE 3" = 1'-0"

4-1/2" x 4-1/2" (114.3 x 114.3) TUBE

TWO PIECE NO POCKET CORNER

ONE POCKET CORNER

TWO POCKET 90°-CORNER

TWO POCKET BRAKE METAL POST

VARIABLE DEGREE BRAKE METAL OUTSIDE CORNER

VARIABLE DEGREE BRAKE METAL INSIDE CORNER

90° CORNER

90° SSG CORNER

135° CORNER

135° SSG CORNER
Trifab™ VG 450 Framing System 2" Sightline

ENTRANCE FRAMING

NOVEMBER, 2016

EC 97911-122

SCALE 3" = 1'-0"

SINGLE ACTING DOOR JAMBS

DOUBLE ACTING DOOR JAMBS

HEADER / TRANSOM BAR

FOR SURFACE CLOSER

FOR SAM-II COC CLOSER

FOR CONCEALED CLOSER

TRANSOM AREA

Transom area for both double and single acting doors with glass surround. Jambs above transom bar are routed out to accept glass holding Insert (450VG033).

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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 HORTONTALS 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.)
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<table>
<thead>
<tr>
<th>Allowable Stress</th>
<th>LRFD Ultimate</th>
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<tbody>
<tr>
<td>Design Load</td>
<td>Design Load</td>
</tr>
<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>

Trifab™ VG 450 Framing System 2" Sightline

WIND LOAD CHARTS

WITH HORIZONTALS

WITH HORIZONTALS

WITHOUT HORIZONTALS

WIDTH IN METERS

WIDTH IN METERS

134WC005

I_1 = 2.892 (120.37 X 10^4)
S_1 = 1.125 (18.44 X 10^3)

1" x 2-1/2" (25.4 x 63.5) STEEL BAR

I_1 = 1.302 (54.19 X 10^4)
S_1 = 1.042 (17.08 X 10^3)
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WIND LOAD CHARTS

WITH HORIZONTALS

WITHOUT HORIZONTALS

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</tbody>
</table>

WITH HORIZONTALS

WITHOUT HORIZONTALS

134SSG005

\[ I_a = 2.672 \times (111.22 \times 10^4) \]
\[ S_a = 1.437 \times (23.55 \times 10^3) \]

1" x 2-1/2" (25.4 x 63.5) STEEL BAR

\[ I_a = 1.302 \times (54.19 \times 10^3) \]
\[ S_a = 1.042 \times (17.08 \times 10^3) \]
For each application, end reactions MUST be checked. These charts are used to verify that the end reactions at the head and sill receptors are 500 lbs. (2224N) or less and will meet the specified wind load.

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WITH HORIZONTALS

WIDTH IN METERS

WITHOUT HORIZONTALS

WIDTH IN METERS

500lbs. Max. End Reaction

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