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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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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Features

• Architectural Grade Window
• Non-Thermally Broken Frames
• Screw and Spline Frame Corner Joinery
• Factory Silicone Glazed
• Interior Applied Glazing Bead with Bulb Gasket
• Architectural Anodized Finishes and Applied Coatings
• Two Year Manufacturer’s Warranty

For specific product applications, consult your Kawneer representative.
# 7225 Non-Thermal Windows

**FIXED WINDOW**

<table>
<thead>
<tr>
<th><strong>CLASS and GRADE</strong></th>
<th>Architectural Grade AW-PG100-FW</th>
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## TYPICAL CONFIGURATIONS

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</thead>
<tbody>
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</tbody>
</table>

## STANDARD INFILL OPTIONS

1/4" and 1"

## STANDARD HARDWARE

Not Applicable

## OPTIONAL HARDWARE

Not Applicable

## OTHER OPTIONS

- Unequal Leg Frames
- Exterior and/or Interior Applied Muntins
- Perimeters and Sills
- Exterior Pannings and Interior Trims
- Structural Mullions
- Vertically or Horizontally Stacked
- Access Panels and Blinds
- Silicone Field Glazed upon Request
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Additional information and CAD details are available at www.kawneer.com.
Additional information and CAD details are available at www.kawneer.com

ACCESS PANEL WITH BLINDS

TYPICAL ELEVATION

1. HEAD

2. SILL

3. JAMB

4. VERTICAL MULLION

5. JAMB

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MUNTIN GRIDS

TYPICAL ELEVATION
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- Non-Thermally Broken Frames
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- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer’s Warranty
- Compatible with Storefront and Curtain Wall Systems

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### 7225 Non-Thermal Windows

#### PROJECT-IN WINDOW

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<td>Stainless Steel 4-Bar Hinges, Cast White Bronze Cam Locks</td>
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<tr>
<td><strong>OPTIONAL HARDWARE</strong></td>
<td>Access Control Locks, Limit Stop, Pole and Pole Ring</td>
</tr>
<tr>
<td><strong>OTHER OPTIONS</strong></td>
<td>Unequal Leg Frames, Exterior and/or Interior Applied Muntins, Insect Screens, Perimeters and Sills, Exterior Pannings and Interior Trims, Structural Mullions, Vertically or Horizontally Stacked, Access Panels and Blinds, Silicone Field Glazed upon Request</td>
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STAINLESS STEEL 4 BAR HINGES

A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

STANDARD CAM HANDLE

Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

CAM HANDLE WITH POLE RING

Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

POLE RING

Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

SASH POLE

A 3/4” diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze pole hanger.

HANGER FOR SASH POLE

ACCESS CONTROL LOCK

In lieu of the standard cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.
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Features

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- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty
- Compatible with Storefront and Curtain Wall Systems

Project-Out Window

For specific product applications, consult your Kawneer representative.
### 7225 Non-Thermal Windows

**PROJECT-OUT WINDOW**

**MARCH, 2019**

**EC 97911-197**

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<tr>
<td></td>
<td>Cast White Bronze Cam Locks</td>
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<tr>
<td></td>
<td>88SS Support Arm (Units over 50&quot; in height)</td>
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<td>OPTIONAL HARDWARE</td>
<td>Access Control Locks</td>
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<td>Hook Bolt Lock Handle</td>
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<td>Pivot Shoe Roto-Operator</td>
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<td></td>
<td>Scissors Arm Roto-Operator</td>
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<td>Limit Stop</td>
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<td>Silicone Field Glazed upon Request</td>
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Additional information and CAD details are available at www.kawneer.com

ACCESS PANEL WITH BLINDS

TYPICAL ELEVATION
Additional information and CAD details are available at www.kawneer.com

MUNTIN GRIDS

TYPICAL ELEVATION

1 HEAD

2 APPLIED MUNTIN

3 SILL

4 JAMB

5 APPLIED MUNTIN

6 JAMB

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MARCH, 2019

EC 97911-197

7225 Non-Thermal Windows

PROJECT-OUT WINDOW

ADME030EN

STAINLESS STEEL 4 BAR HINGES

A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

STANDARD CAM HANDLE

Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

CAM HANDLE WITH POLE RING

Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

POLE RING

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A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze pole hanger.

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7225 Non-Thermal Windows

MARCH, 2019

EC 97911-197

PROJECT-OUT WINDOW

PIVOT-SHOE ROTO-OPERATOR

Optional pivot shoe roto operator is located on the center line of the bottom horizontal frame.

Standard finish shall be brushed copper nickel to match US-25-D.

HOOK BOLT LOCK

For use with pivot-shoe roto operator in lieu of cam handles.

Standard finish shall be US-25-D clear white bronze.

88SS SUPPORT ARM

Support arms are used when window height exceeds 50".

When fully extended, the hardware automatically retains the ventilator in an open position.

SCISSORS ARM ROTO OPERATOR

Optional scissor arm roto operator is located on the center line of the bottom horizontal frame.

Standard finish shall be brushed copper nickel to match US-25-D.
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7225 Non-Thermal Windows

MARCH, 2019

EC 97911-197

INSWING CASEMENT WINDOW

Features

• Architectural Grade Window
• Non-Thermally Broken Frames
• Mitered, Clipped and Staked Vent Corner Joinery
• Screw and Spline Frame Corner Joinery
• Factory Silicone Glazed
• Interior Applied Glazing Bead with Bulb Gasket
• Architectural Anodized Finishes and Applied Coatings
• Two Year Manufacturer’s Warranty
• Compatible with Storefront and Curtain Wall Systems

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<td>STANDARD INFILL OPTIONS</td>
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ACCESS PANEL WITH BLINDS

TYPICAL ELEVATION

1. HEAD
2. SILL
3. JAMB
4. JAMB

ACCESS PANEL WITH BLINDS

HINGED LEFT

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7225 Non-Thermal Windows

INSWING CASEMENT WINDOW

| BUTT HINGES | An optional hinge for ventilators providing a full 90° opening. Butt hinges shall be finished to match the window. |
| FRICTION ADJUSTER | Friction adjustors shall be used with butt hinges for additional friction for control of the ventilator. |
| KEYED LIMIT ARM | Key released limit arms may be used to restrict ventilator opening when used with butt hinges. |
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**TYPICAL CONFIGURATIONS**

![Window Configurations](image)

**STANDARD INFILL OPTIONS**

- 1/4" and 1"

**STANDARD HARDWARE**

- Stainless Steel 4-Bar Hinges
- Cast White Bronze Cam Locks

**OPTIONAL HARDWARE**

- Butt Hinges
- Access Control Locks
- Hook Bolt Lock or Multi-Point Lock
- Limit Stop
- Pole and Pole Ring
- Friction Adjustor
- Keyed Limit Arm
- Roto Operator

**OTHER OPTIONS**

- Unequal Leg Frames
- Exterior and/or Interior Applied Muntins
- Insect Screens
- Perimeters and Sills
- Exterior Pannings and Interior Trims
- Structural Mullions
- Vertically or Horizontally Stacked
- Access Panel and Blinds
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Additional information and CAD details are available at www.kawneer.com.
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ACCESS PANEL WITH BLINDS

TYPICAL ELEVATION
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MUNTIN GRIDS

TYPICAL ELEVATION

1 HEAD

2 APPLIED MUNTIN

3 SILL

4 JAMB

5 APPLIED MUNTIN

6 JAMB

ADME030EN
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**7225 Non-Thermal Windows**

**OUTSWING CASEMENTWINDOW**

**MARCH, 2019**

**EC 97911-197**

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**STAINLESS STEEL**

**4 BAR HINGES**

A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

---

**BUTT HINGES**

An optional hinge for ventilators providing a full 90° opening. Butt Hinges shall be finished to match the window.

---

**FRICITION ADJUSTER**

Friction adjustors shall be used with butt hinges for additional friction for control of the ventilator.

---

**ROTO OPERATOR**

Roto operators are used with butt hinges only and located at the bottom horizontal frame. Standard finish shall be brushed copper nickel to match US-25-D.

---

**STANDARD CAM HANDLE**

Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

---

**CAM HANDLE WITH POLE RING**

Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

---

**KEYED LIMIT ARM**

Key released limit arms may be used to restrict ventilator opening when used with butt hinges.
<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLE RING</td>
<td>Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.</td>
</tr>
<tr>
<td>SASH POLE</td>
<td>A 3/4” diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze pole hanger.</td>
</tr>
<tr>
<td>HANGER FOR SASH POLE</td>
<td></td>
</tr>
<tr>
<td>ACCESS CONTROL LOCK</td>
<td>In lieu of the standard cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.</td>
</tr>
<tr>
<td>HOOK BOLT LOCK</td>
<td>Optional hook bolt lock in lieu of cam handle. Standard finish shall be US-25-D clear white bronze.</td>
</tr>
<tr>
<td>MULTI-POINT LOCK</td>
<td>Optional single locking handle for concealed multi-point locks located on the vertical frame. Standard finish shall be US-25-D clear white bronze.</td>
</tr>
<tr>
<td>RESCUE WINDOW SIGN</td>
<td>Vinyl rescue window sign with lettering on both sides. Colors are black letters on a yellow background.</td>
</tr>
</tbody>
</table>
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EQUAL LEG SILLS

FULL DEPTH SILL

UNEQUAL LEG SILLS

UNEQUAL LEG SILLS
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PERIMETER FILLER
(Continuous)
(Head and Jamb Similar)

STRAP ANCHOR
with SEALANT BACK-UP

STRAP ANCHOR
with SUB SILL

F-ANCHOR STRAP
Equal Leg Frame Only

R-ANCHOR STRAP
Equal Leg Frame Only
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Note: Panning shown with fixed window also available for P.O., P.I., C.O., and C.I.
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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.
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MULLION CENTERS IN METERS

MULLION HEIGHT IN FEET

MULLION CENTERS IN FEET

UNITS WITH HORIZONTALS

A = 20 PSF (958)
B = 25 PSF (1197)
C = 30 PSF (1436)
D = 35 PSF (1676)
E = 40 PSF (1915)

A = 30 PSF (1436)
B = 45 PSF (2155)
C = 60 PSF (2873)
D = 75 PSF (3591)
E = 90 PSF (4309)
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NOTE:
MULLION PROJECTION TO THE INTERIOR AVAILABLE

A = 20 PSF (958)
B = 40 PSF (1915)
C = 60 PSF (2873)
D = 80 PSF (3830)
E = 100 PSF (4788)
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