**Features**

- System depth of 4-1/2" (114.3)
- Available as OX, XO, OXO and OXXO configurations, common mullion allows for additional fixed lites to be stacked (OOX and XOO)
- Infill range from 1/4" (6.4) to 1" (25.4)
- Heavy duty steel ball-bearing, tandem roller assembly
- Stainless steel track insert for sliding panels
- Corrosion-resistant stainless steel locks and fasteners
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

**Optional Features**

- Expansion mullion allows for multiple units to be stacked
- Horizontal cross rails available
- Optional interior insect screens available

**Product Applications**

- The 990 Sliding Door is designed for low to high rise applications for use in condominiums, hotel and apartments
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.
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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Elevations shown with "Sub-Sash" framing in the fixed lite.

Note: Elevations shown with "Sub-Sash" framing in the fixed lite.

Note: 1/4" infill shown. See Glazing Options for other infills.
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**SCALE 3" = 1'-0"**

**STANDARD RANGE**

8. INTERLOCK STILE

9. OXXO MEETING STILES

10. LOCK STILE MULLION WITH 1848 LOCK

**MID-RANGE**

**MAXIMUM RANGE**

---

**OPTIONAL MEMBERS**

11. HEAD RECEPTOR

12. EXPANSION MULLION

13. FIXED STILE MULLION
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Standard Screen includes plated steel hardware. Optional Screen available with stainless steel hardware.

**SCALE 3" = 1'-0"

**TYPICAL SCREEN DETAILS**

**HEAD**

**SILL**

**INTERLOCK**

**LOCK JAMB**

**NOTE:**

**INFILL OPTIONS**

<table>
<thead>
<tr>
<th>Option</th>
<th>Thickness</th>
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<tbody>
<tr>
<td>1/4&quot;</td>
<td>(6.4)</td>
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<tr>
<td>3/8&quot;</td>
<td>(9.5)</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>(15.9)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>(25.4)</td>
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</tbody>
</table>

**STANDARD CASTER**

**BUMPER**
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### HARDWARE OPTIONS

<table>
<thead>
<tr>
<th>1-Point Lock</th>
<th>Handles</th>
<th>Exterior</th>
<th>Option</th>
<th>Interior</th>
<th>Option</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Extruded Pulls</td>
<td>Blank (Std)</td>
<td>1</td>
<td>Slide Operator (Std)</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Blank</td>
<td>1</td>
<td>Thumblurn</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>Basic Cylinder (5/8&quot;)</td>
<td>2</td>
<td>Thumblurn</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Flush Pulls</td>
<td>Blank</td>
<td>5</td>
<td>Slide Operator</td>
<td>7</td>
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<tr>
<td></td>
<td></td>
<td>Basic Cylinder (5/8&quot;)</td>
<td>6</td>
<td>Slide Operator</td>
<td>7</td>
</tr>
</tbody>
</table>

### EXTERIOR HANDLES

#### Extruded Pulls
- Option 1: Blank Pull (Standard)
- Option 2: Basic Cylinder (5/8") Pull

#### Flush Pulls
- Option 5: Blank Pull
- Option 6: Basic Cylinder (5/8") Pull

### INTERIOR HANDLES

#### Extruded Pulls
- Option 3: Slide Operator Pull (Standard)
- Option 4: Thumb Pull

#### Flush Pulls
- Option 7: Slide Operator Pull
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EXTERIOR HANDLES

<table>
<thead>
<tr>
<th>EXTERIOR</th>
<th>Option</th>
<th>INTERIOR</th>
<th>Option</th>
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</tr>
<tr>
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<tr>
<td>Blank</td>
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<td>Mortise Cylinder</td>
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INTERIOR HANDLES

<table>
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<th>EXTERIOR</th>
<th>Option</th>
<th>INTERIOR</th>
<th>Option</th>
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<td>8</td>
</tr>
<tr>
<td>Blank</td>
<td>9</td>
<td>Mortise Cylinder</td>
<td>9</td>
</tr>
</tbody>
</table>

HARDWARE OPTIONS

**Extruded Pulls**
- Blank Pull: Option 1
- Blank Pull: Option 5
- Blank Pull: Option 9

**Flush Pulls**
- Blank Pull: Option 1
- Blank Pull: Option 8
- Blank Pull: Option 9

**Mortise Cylinder**
- Thumbturn: Option 10
- Mortise Cylinder: Option 9

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WIND LOAD CHARTS ARE BASED ON CRITERIA SET FORTH IN AAMA 101-88 VOLUNTARY SPECIFICATION FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS DOORS. STRUCTURAL CRITERIA IS NO PERMANENT DEFORMATION OF ANY FRAME OR PANEL IN EXCESS OF 0.4% OF ITS SPAN. FOR SPECIAL SITUATIONS NOT COVERED BY THESE CHARTS, CONTACT YOUR KAWNEER REPRESENTATIVE FOR ADDITIONAL INFORMATION.

STANDARD RANGE INTERLOCKS
UNITS WITHIN SHADED AREA WOULD BE CERTIFIED AAMA 101-88 C30 STANDARD COMMERCIAL SLIDER

590088 / 590015
STANDARD RANGE INTERLOCKS
590088
I = 0.434 (18.06 x 10⁴)
S = 0.430 (7.05 x 10³)
590015
I = 0.387 (16.11 x 10⁴)
S = 0.396 (6.49 x 10³)

590090 / 590017
MID-RANGE INTERLOCKS
590090
I = 0.572 (23.81 x 10⁴)
S = 0.565 (9.26 x 10³)
590017
I = 0.552 (22.98 x 10⁴)
S = 0.527 (8.64 x 10³)

590092 / 590019
MAXIMUM RANGE INTERLOCKS
590092
I = 0.839 (34.92 x 10⁴)
S = 0.821 (13.45 x 10³)
590019
I = 0.835 (34.75 x 10⁴)
S = 0.807 (13.23 x 10³)

NOTE: UNITS OUTSIDE OF SHADED AREA MEET AAMA 101-88 TEST CRITERIA, BUT WOULD NOT BE AAMA CERTIFIED, AS THEY ARE OF DIFFERENT SIZE THAN THAT OF UNIT TESTED. PANEL SIZE FOR TEST UNIT IS 4’-10” x 7’-8-1/2”.

MAXIMUM RANGE INTERLOCKS
UNITS WITHIN SHADED AREA WOULD BE CERTIFIED AAMA 101-88 HC60 HEAVY COMMERCIAL SLIDER
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