FEATURES EC 97911-281

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 option
- 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



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990 Sliding Doors

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SCREEN DETAILS	6
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WIND LOAD CHARTS	9_15

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

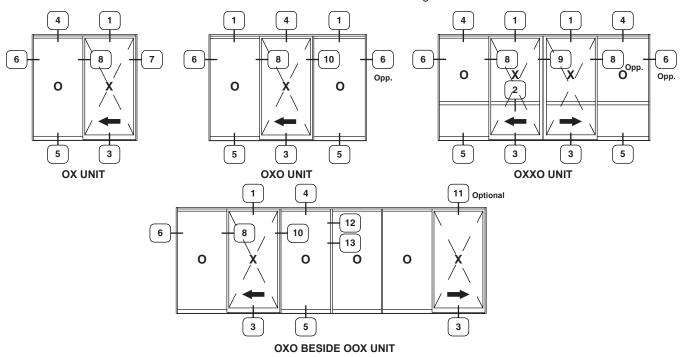


Additional information and CAD details are available at www.kawneer.com

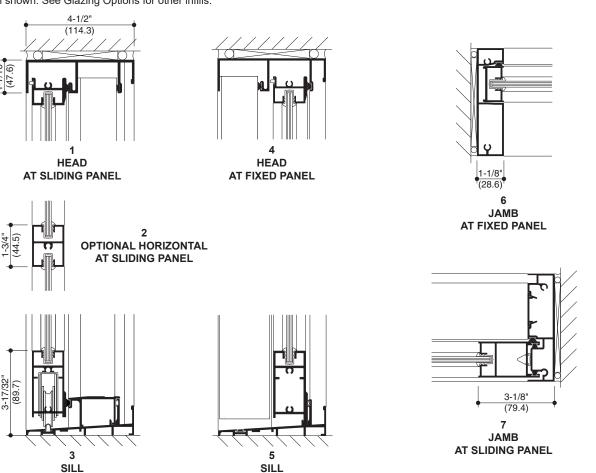
TYPICAL ELEVATIONS

ELEVATIONS ARE NUMBER KEYED TO DETAILS ON THE FOLLOWING PAGES

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



Note: 1/4" infill shown. See Glazing Options for other infills.



AT SLIDING PANEL

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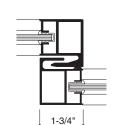
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AT FIXED PANEL

TYPICAL DETAILS

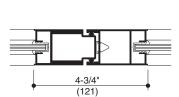
Additional information and CAD details are available at www.kawneer.com



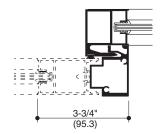


(44.5)

9 **OXXO MEETING STILES**

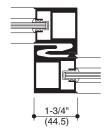


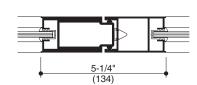
10 **LOCK STILE MULLION WITH 1848 LOCK**

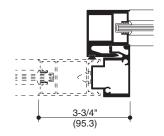


MID-RANGE

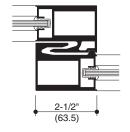
STANDARD RANGE

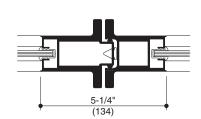


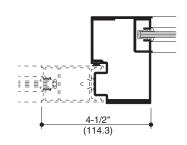




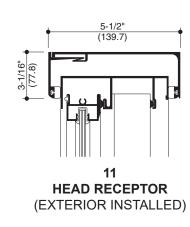
MAXIMUM RANGE

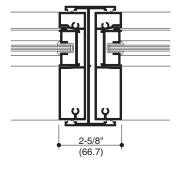




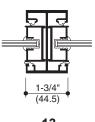


OPTIONAL MEMBERS





12 **EXPANSION MULLION**



13 **FIXED STILE MULLION**

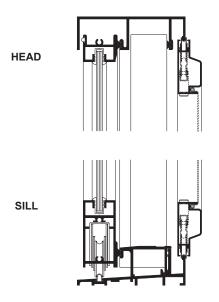


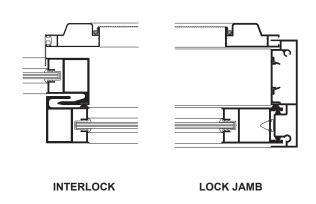
SCREEN DETAILS / GLAZING OPTIONS

EC 97911-281

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

TYPICAL SCREEN DETAILS





NOTE:

Standard Screen includes plated steel hardware. Optional Screen available with stainless steel hardware.

INFILL OPTIONS







3/8" (9.5)

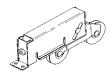


5/8" (15.9)



(25.4)

STANDARD CASTER



BUMPER





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HARDWARE OPTIONS

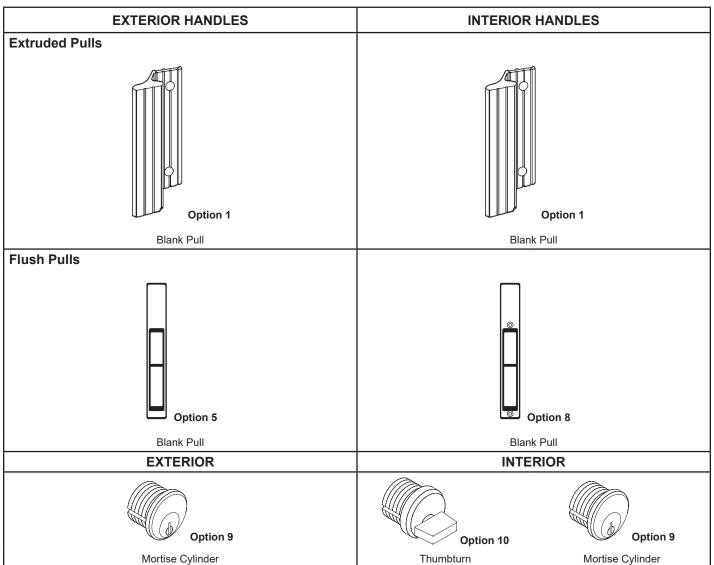
990 Sliding Doors

1-Point Lock	Handles	Exterior	Option	Interior	Option
	Extruded Pulls	Blank (Std)	1	Slide Operator (Std)	3
		Blank	1	Thumbturn	4
		Basic Cylinder (5/8")	2	Thumbturn	4
Flush Pulls	Fluob Dullo	Blank	5	Slide Operator	7
	Basic Cylinder (5/8")	6	Slide Operator	7	

EXTERIO	R HANDLES	INTERIOR	HANDLES
Extruded Pulls			
Option 1	Option 2	Option 3	Option 4
Blank Pull (Standard)	Basic Cylinder (5/8") Pull	Slide Operator Pull (Standard)	Thumb Pull
Flush Pulls			
Option 5	Option 6	O _F	otion 7
Blank Pull	Basic Cylinder (5/8") Pull	Slide Oper	rator Pull



MS Hook Bolt Lock	Handles	Exterior	Option	Interior	Option
		Blank	1	Blank	1
		Mortise Cylinder	9	Mortise Cylinder	9
		Blank	1	Blank	1
	Extruded Pulls	Mortise Cylinder	9	Thumbturn	10
	Extruded Pulls	Blank	1	Blank	1
				Thumbturn	10
		Blank	1	Blank	1
				Mortise Cylinder	9
	Flush Pulls	Blank	5	Blank	8
		Mortise Cylinder	9	Mortise Cylinder	9
		Blank	5	Blank	5
		Mortise Cylinder	9	Thumbturn	10
		Blank	5	Blank	5
				Thumbturn	10
		Blank	5	Blank	5
				Mortise Cylinder	9





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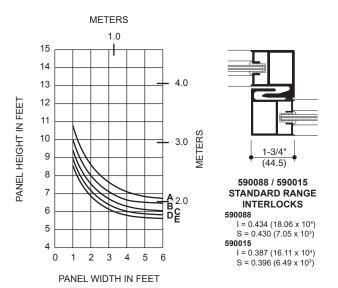
WIND LOAD CHARTS

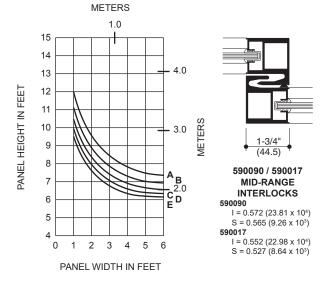
WIND LOAD CHARTS

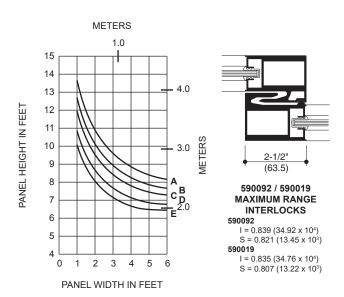
Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13' 6" and L/240 +1/4" above 13' 6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104MPa), 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.



	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	25 PSF (1200)	42 PSF (2000)
C =	30 PSF (1440)	50 PSF (2400)
D =	40 PSF (1920)	67 PSF (3200)
E=	50 PSF (2400)	83 PSF (4000)







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D=

E =

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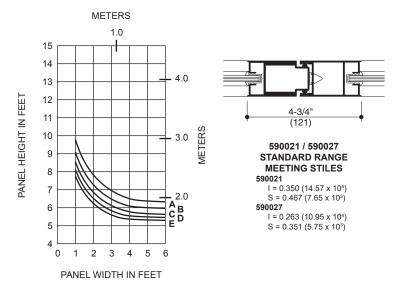
WIND LOAD CHARTS (1/4" INFILL)

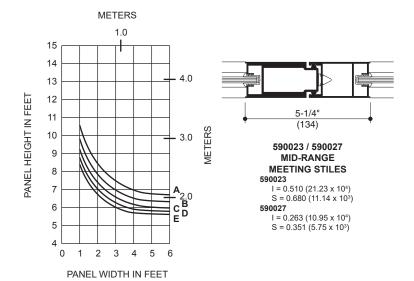
67 PSF (3200)

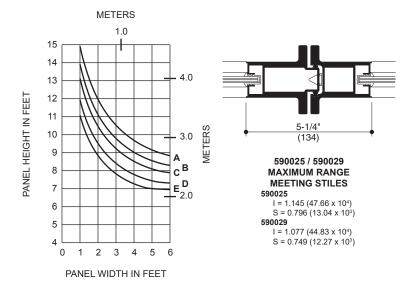
83 PSF (4000)

40 PSF (1920)

50 PSF (2400)





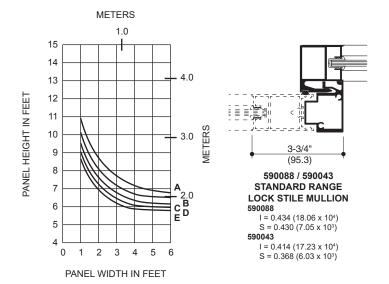


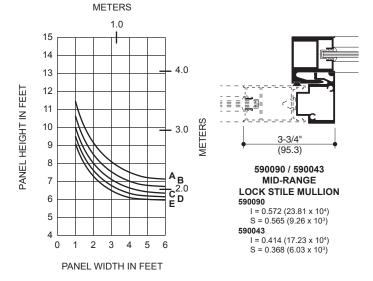


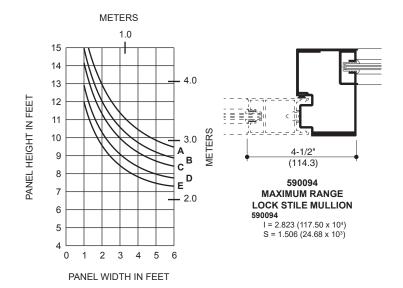
990 Sliding Doors

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D =	40 PSF (1920)	67 PSF (3200)
E =	50 PSF (2400)	83 PSF (4000)





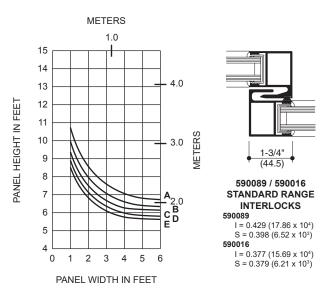


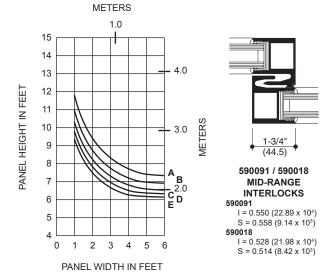


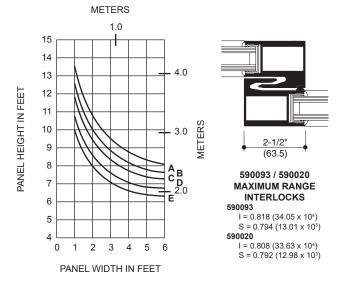
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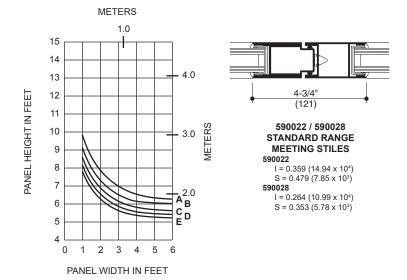


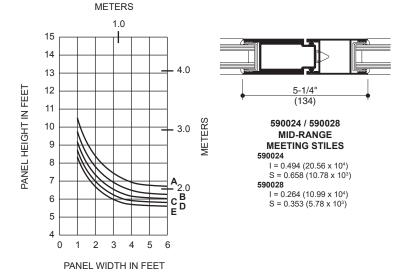


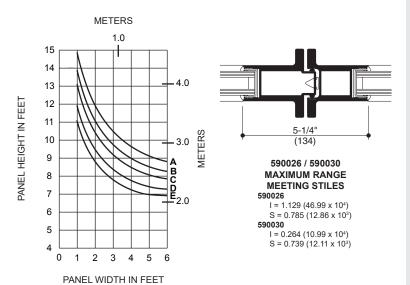


WIND LOAD CHARTS (1" INFILL)

	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	25 PSF (1200)	42 PSF (2000)
C =	30 PSF (1440)	50 PSF (2400)
D =	40 PSF (1920)	67 PSF (3200)
E=	50 PSF (2400)	83 PSF (4000)







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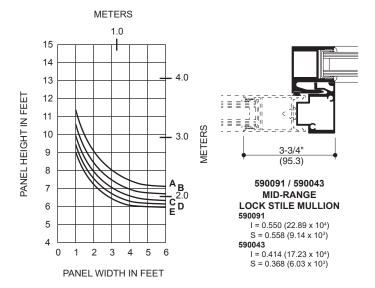
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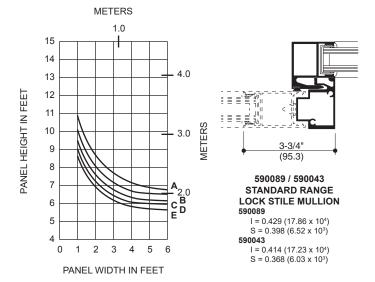
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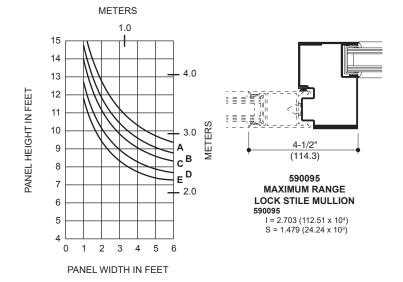
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ecessary for product improvement.	7

	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	20 PSF (960)	33 PSF (1580)
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