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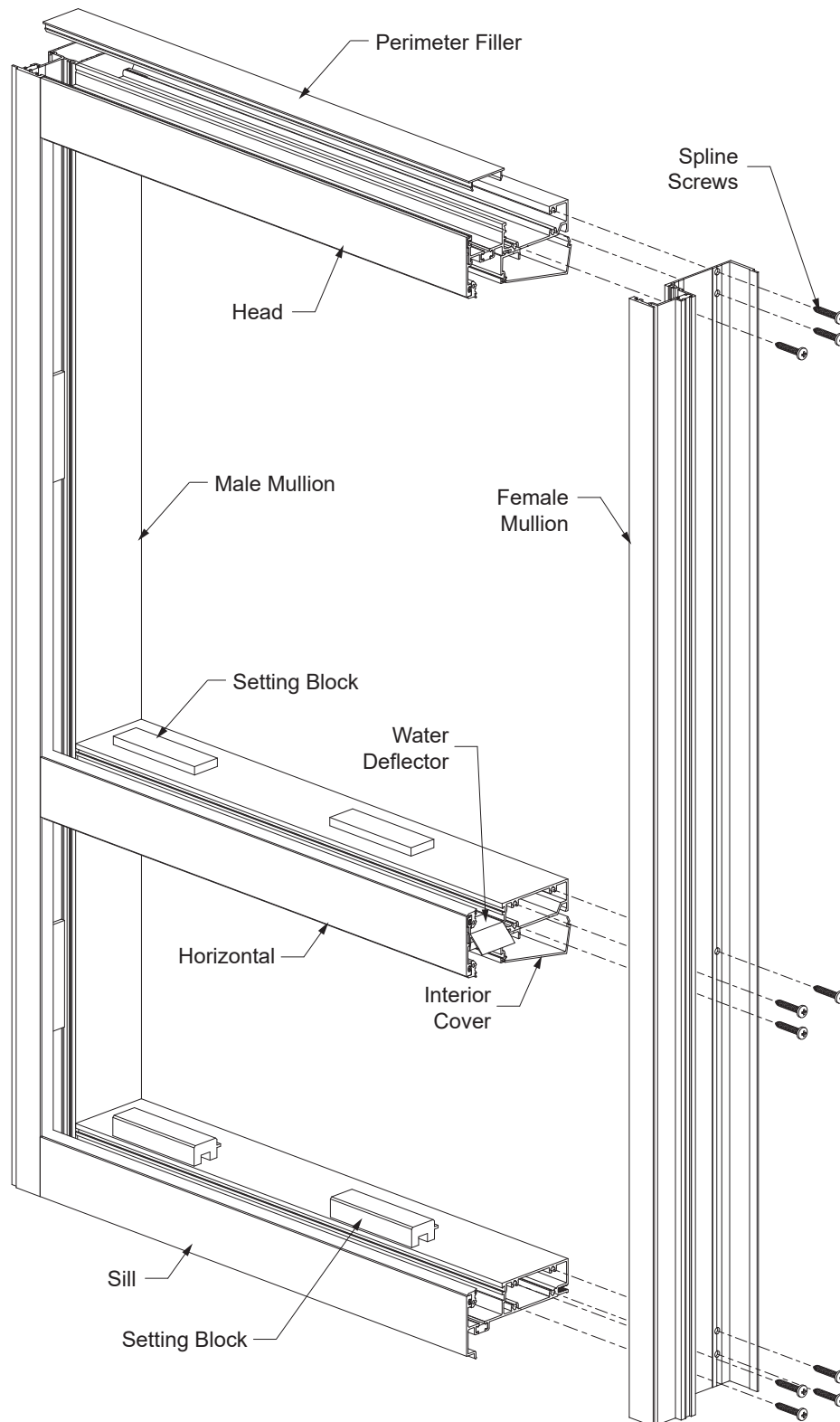
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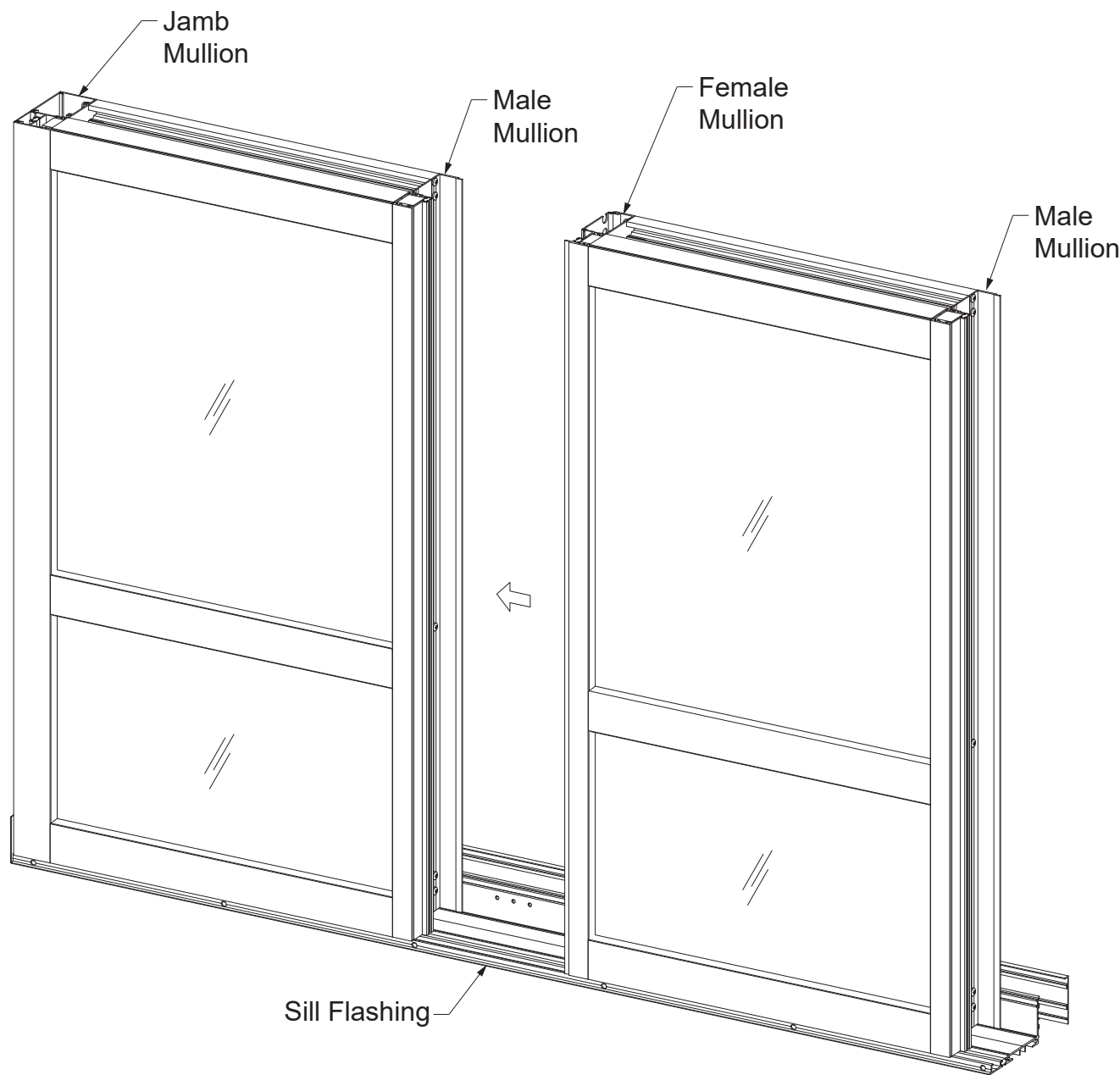
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*The latest installation instructions for this product are available at www.ykkap.com.

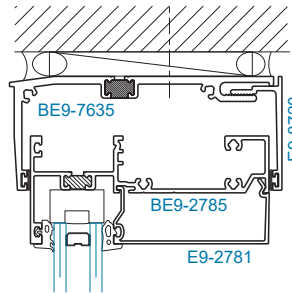
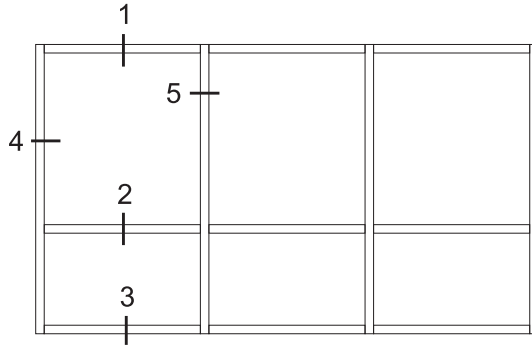
UNIT ASSEMBLY PICTORIAL



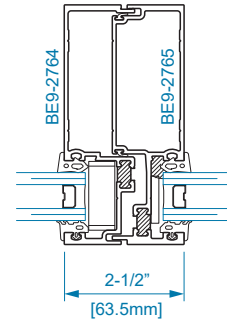
UNIT INSTALLATION PICTORIAL



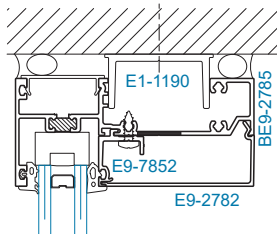
INSIDE GLAZING FRAMING MEMBERS



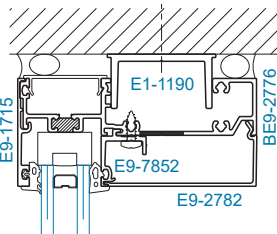
SECTION 1B
I.G. HEAD
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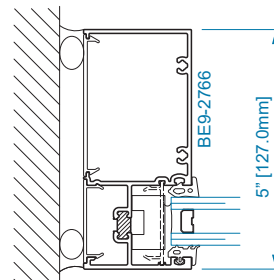
SECTION 5
I.G. CAPTURED
MULLION



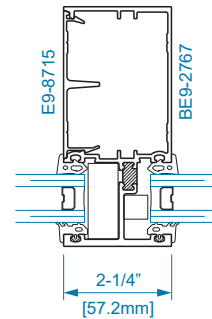
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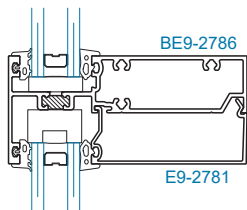
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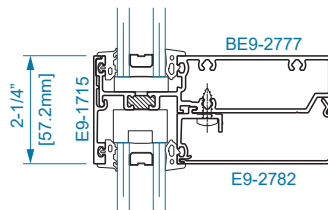
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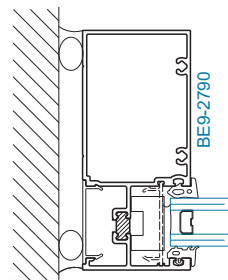
SECTION 5A
FIELD GLAZED
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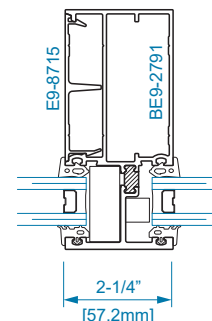
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I.G. HORIZONTAL



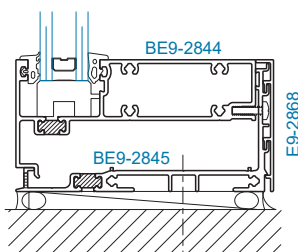
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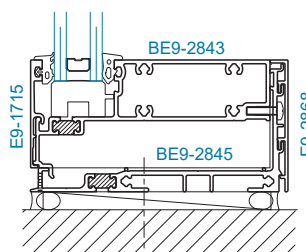
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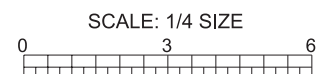
SECTION 5B
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TUBULAR MULLION



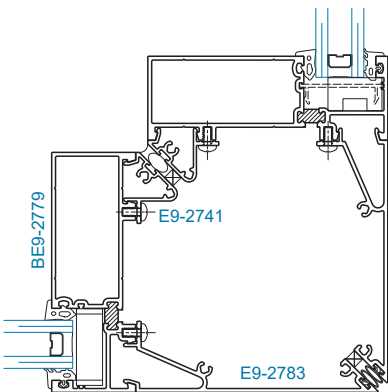
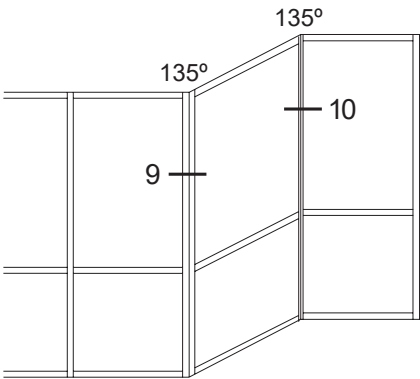
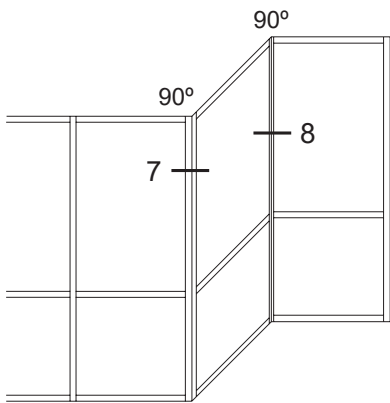
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I.G. SILL



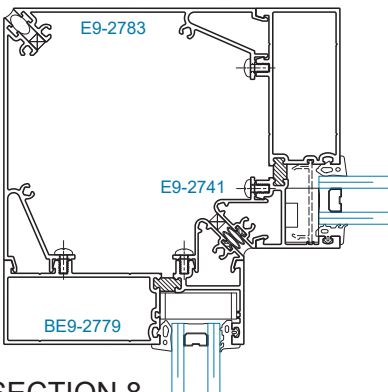
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I.G. SILL



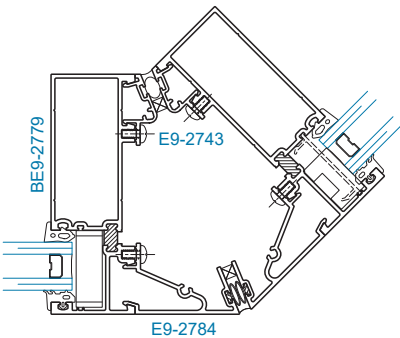
YWW 50 TU I.G. CORNER FRAMING MEMBERS



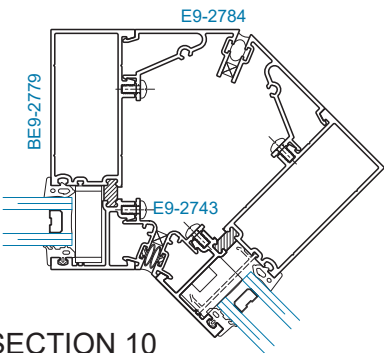
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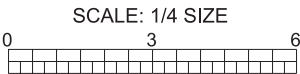
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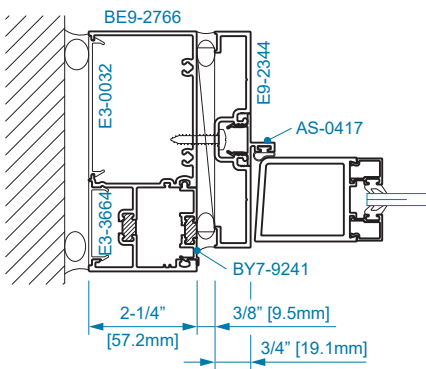
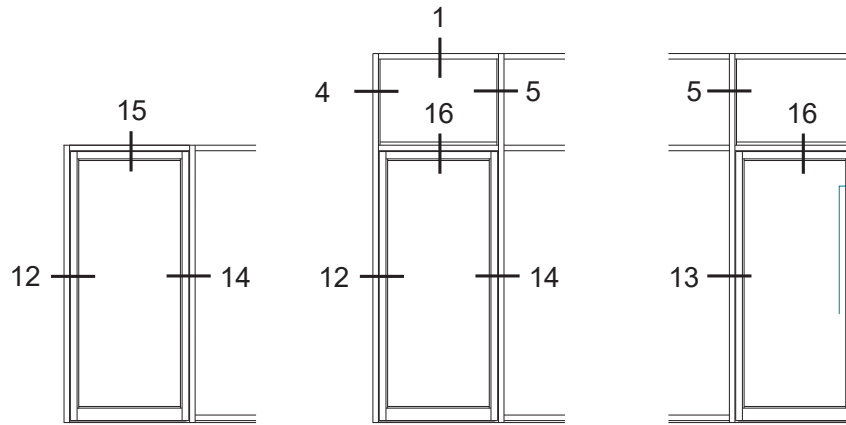
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OUTSIDE CORNER



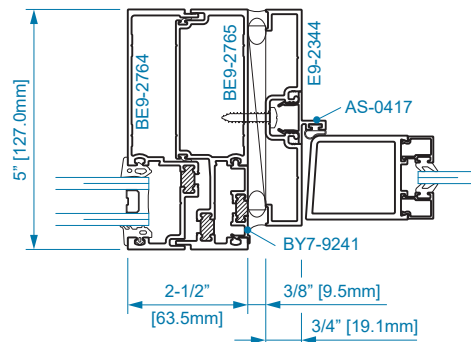
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I.G. 135°
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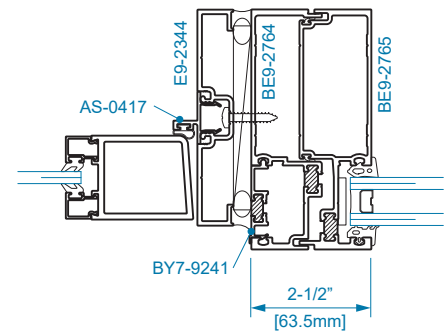
YWW 50 TU I.G. DOOR FRAMING MEMBERS



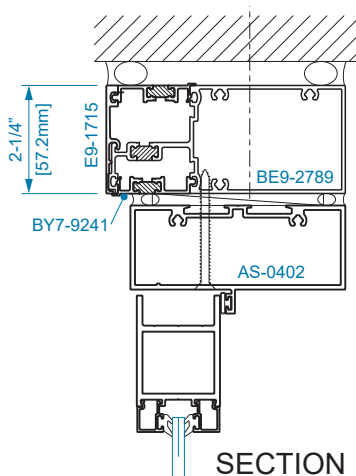
SECTION 12
DOOR JAMB
w/o SIDELITE



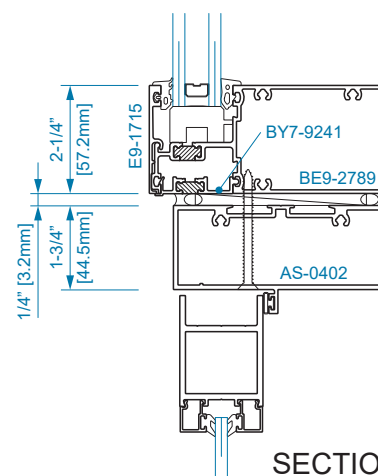
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DOOR JAMB
w/ SIDELITE



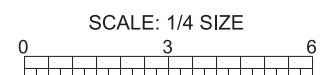
SECTION 14
DOOR JAMB
w/ SIDELITE



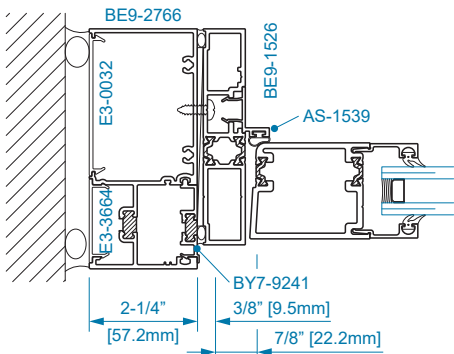
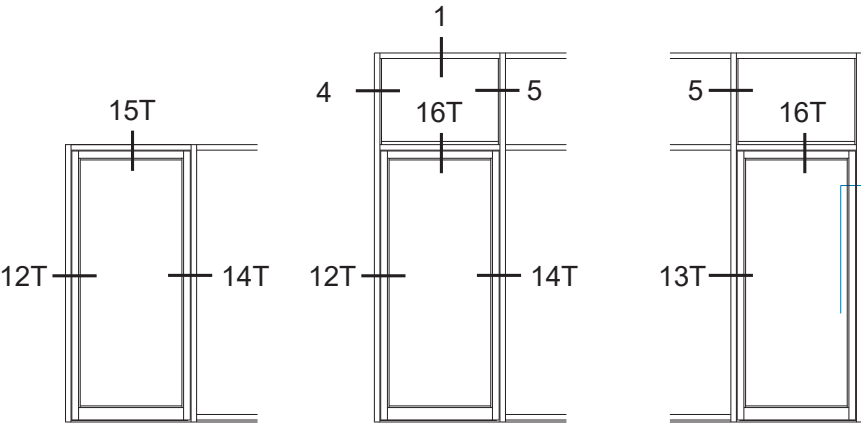
SECTION 15
DOOR HEAD
w/o TRANSOM



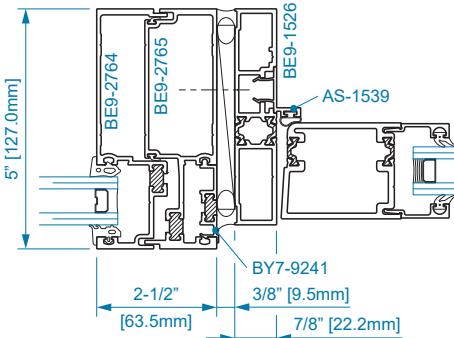
SECTION 16
DOOR HEAD
w/ TRANSOM



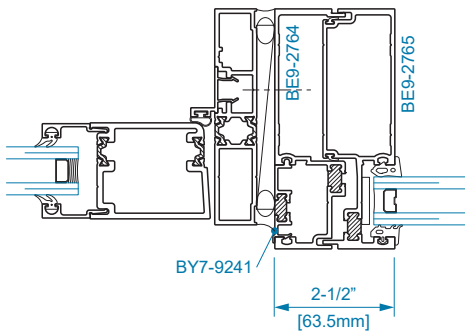
YWW 50 TU I.G. THERMAL DOOR FRAMING MEMBERS



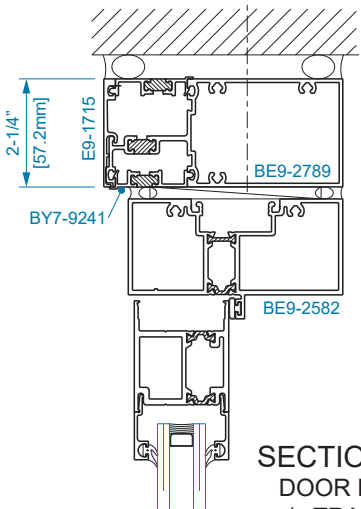
SECTION 12T
DOOR JAMB
w/o SIDELITE



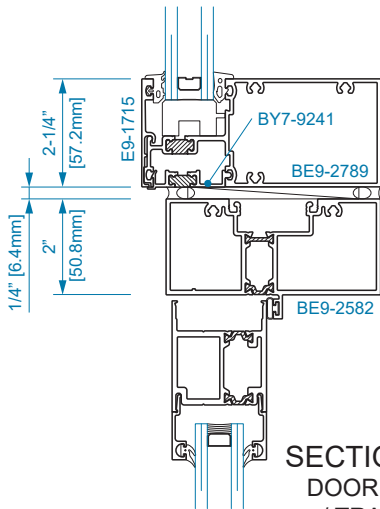
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DOOR JAMB
w/ SIDELITE



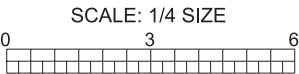
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DOOR JAMB
w/ TRANSOM



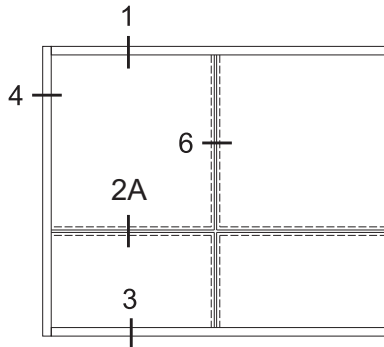
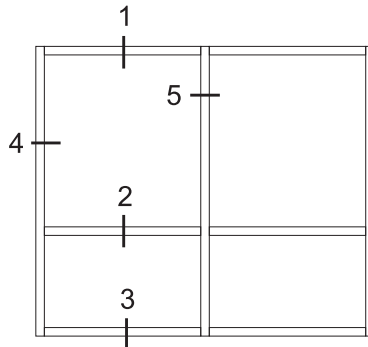
SECTION 15T
DOOR HEAD
w/o TRANSOM



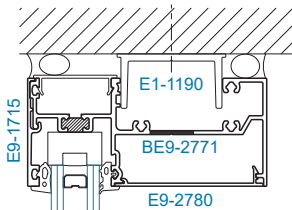
SECTION 16T
DOOR HEAD
w/ TRANSOM



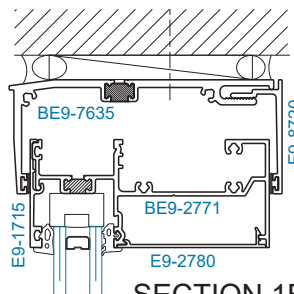
YWW 50 TU O.G. / SSG FRAMING MEMBERS



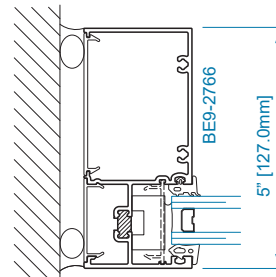
Note: 3-sided and 4-sided SSG units require painted finish.



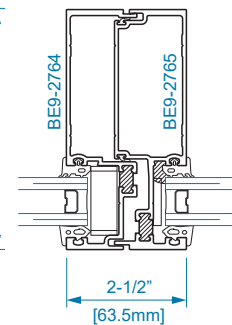
SECTION 1
O.G. HEAD



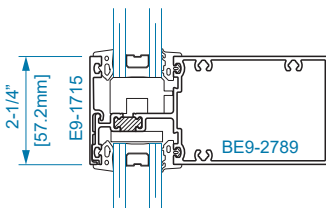
SECTION 1B
O.G. HEAD
W/ RECEPTOR



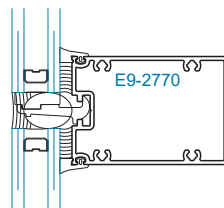
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O.G. JAMB



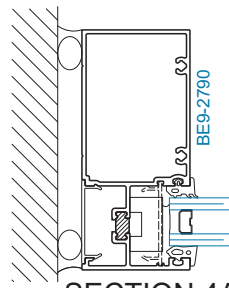
SECTION 5
O.G. CAPTURED
MULLION



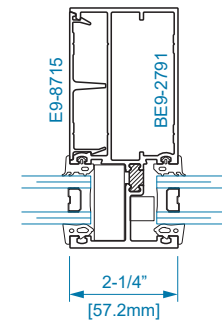
SECTION 2
O.G. HORIZONTAL



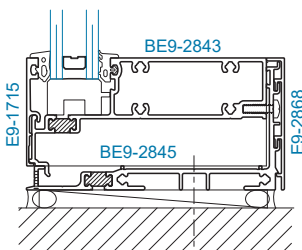
SECTION 2A
SSG HORIZONTAL



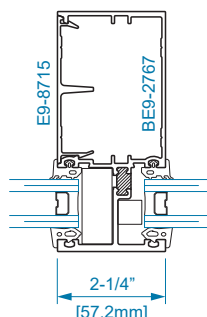
SECTION 4A
TUBULAR
O.G. JAMB



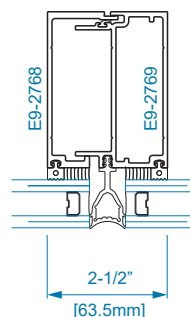
SECTION 5B
FIELD GLAZED
O.G. CAPTURED
TUBULAR MULLION



SECTION 3
O.G. SILL

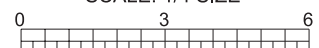


SECTION 5A
FIELD GLAZED
O.G. CAPTURED
MULLION

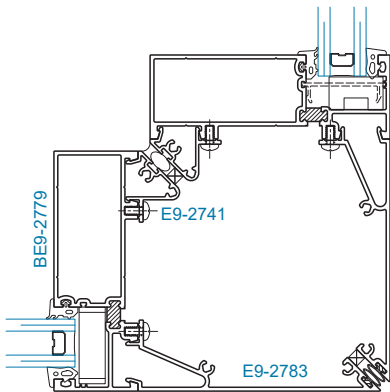
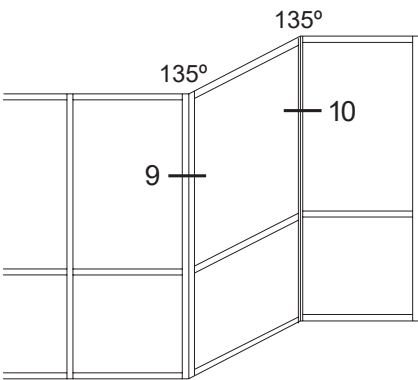
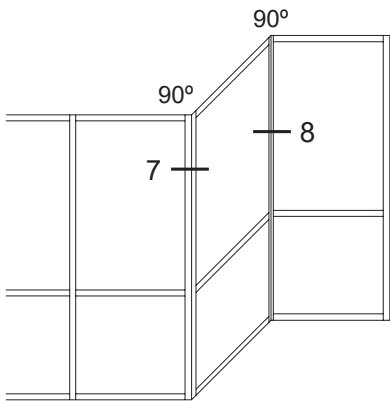


SECTION 6
SSG MULLION

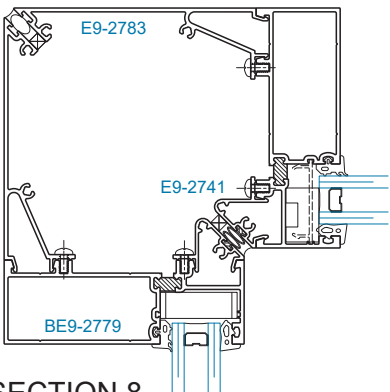
SCALE: 1/4 SIZE



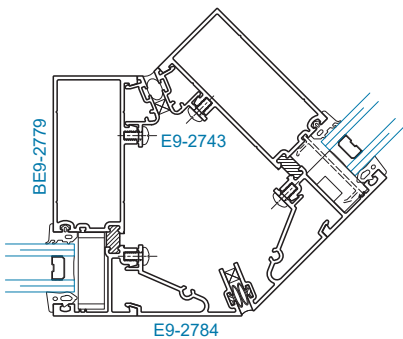
YWW 50 TU O.G. CORNER FRAMING MEMBERS



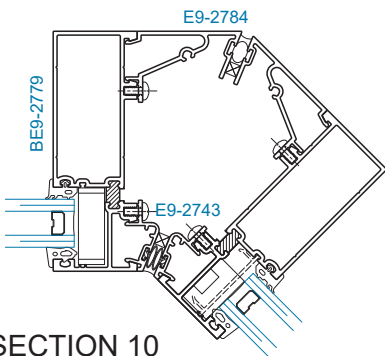
SECTION 7
O.G. 90°
OUTSIDE CORNER



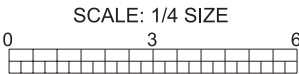
SECTION 8
O.G. 90°
INSIDE CORNER



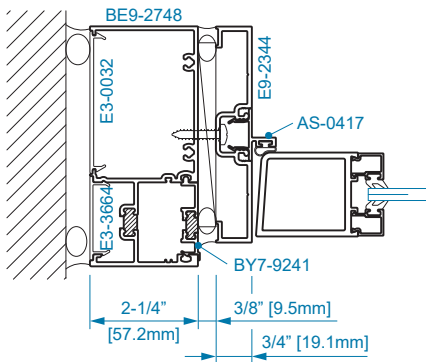
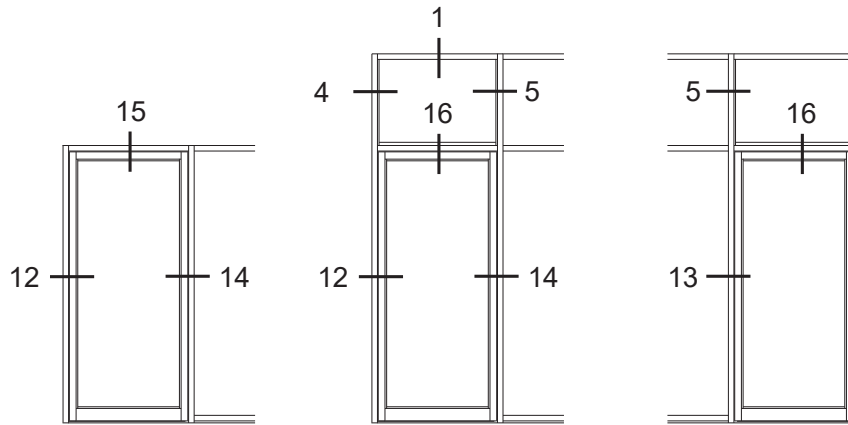
SECTION 9
O.G. 135°
OUTSIDE CORNER



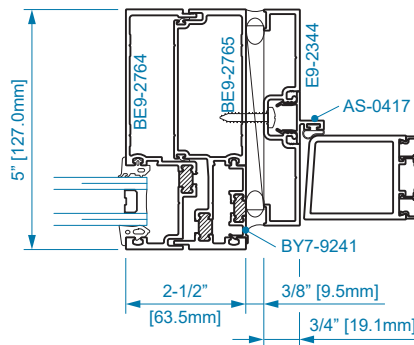
SECTION 10
O.G. 135°
INSIDE CORNER



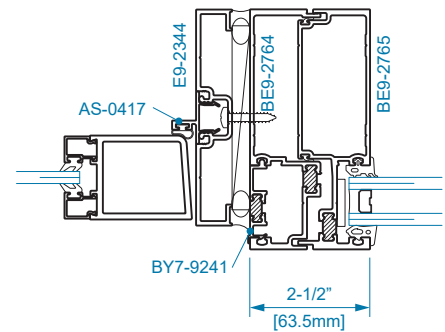
YWW 50 TU O.G. PREGLAZED DOOR FRAMING MEMBERS



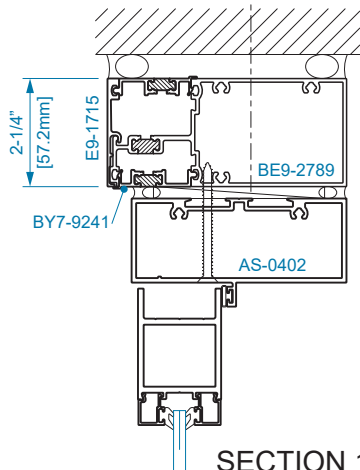
SECTION 12
DOOR JAMB
w/o SIDELITE



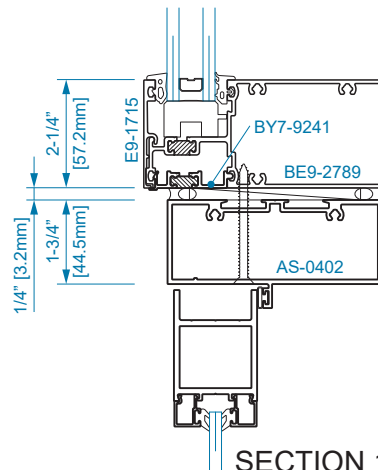
SECTION 13
DOOR JAMB
w/ SIDELITE



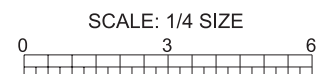
SECTION 14
DOOR JAMB
w/ SIDELITE



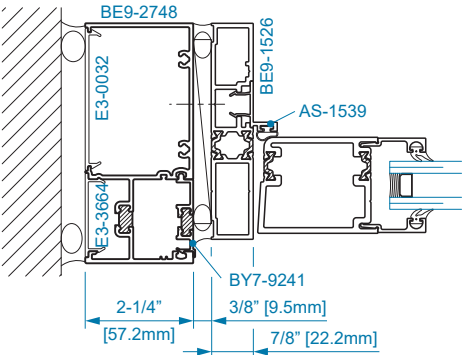
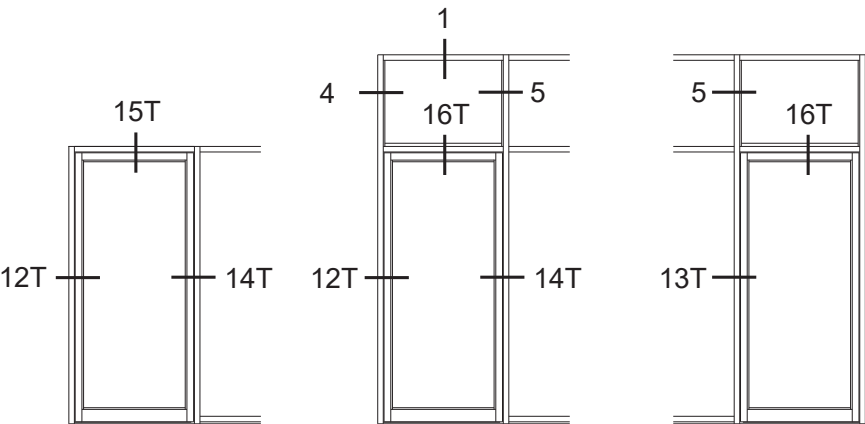
SECTION 15
DOOR HEAD
w/o TRANSOM



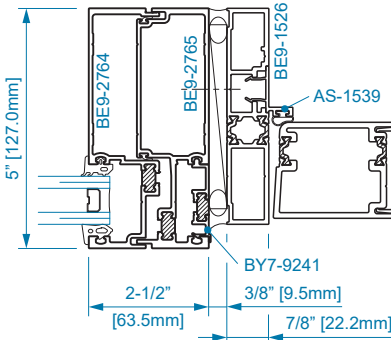
SECTION 16
DOOR HEAD
w/ TRANSOM



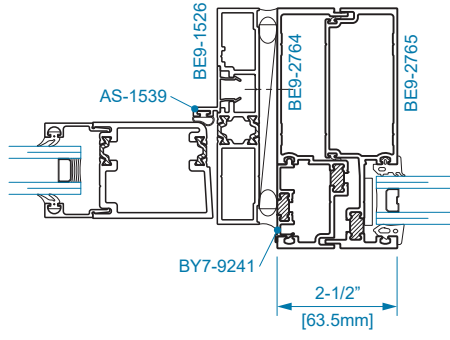
YWW 50 TU O.G. PREGLAZED THERMAL DOOR FRAMING MEMBERS



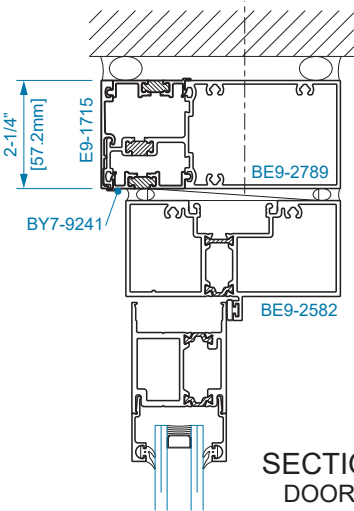
SECTION 12T
DOOR JAMB
w/o SIDELITE



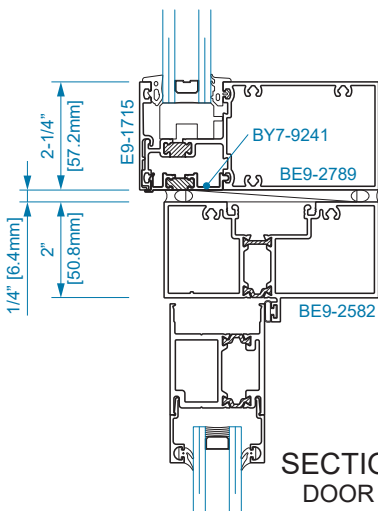
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DOOR JAMB
w/ SIDELITE



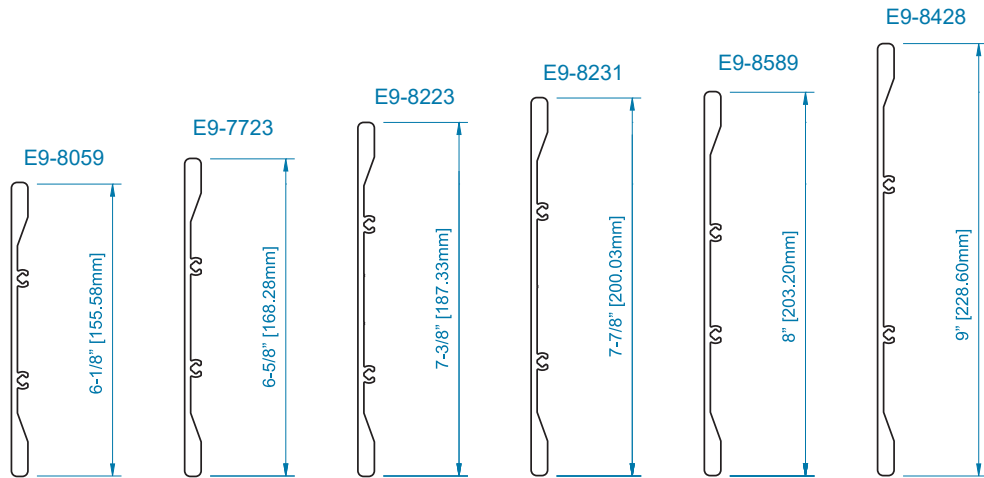
SECTION 14T
DOOR JAMB
w/ SIDELITE



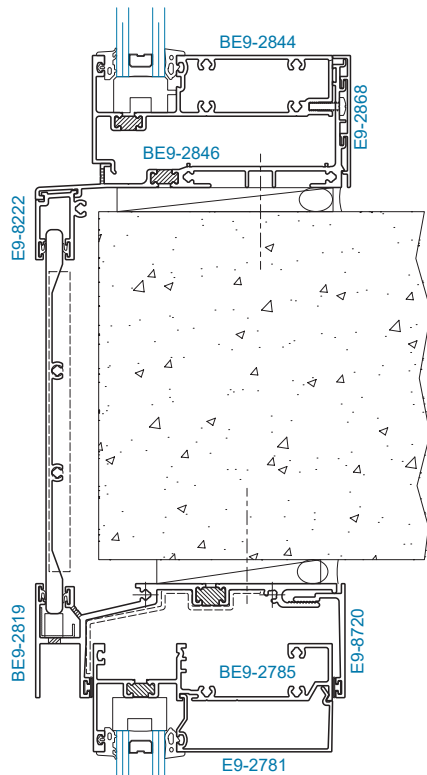
SECTION 15T
DOOR HEAD
w/o TRANSOM



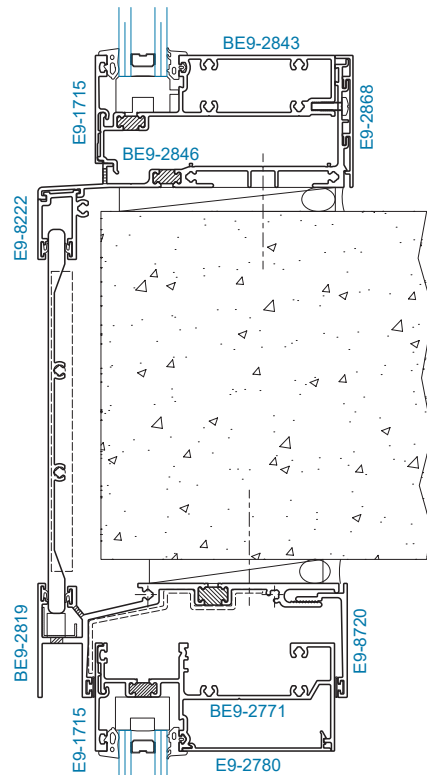
SECTION 16T
DOOR HEAD
w/ TRANSOM



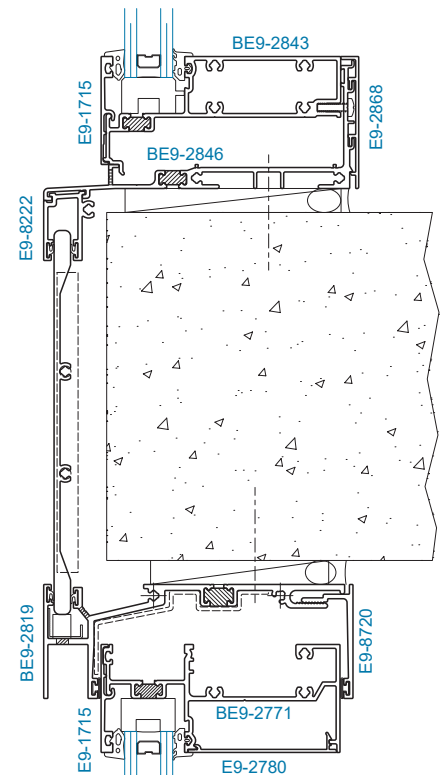
STANDARD SLAB EDGE COVERS



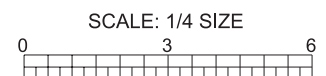
**INSIDE GLAZING
SLAB EDGE**



**OUTSIDE GLAZING
SLAB EDGE**



**SSG
SLAB EDGE**

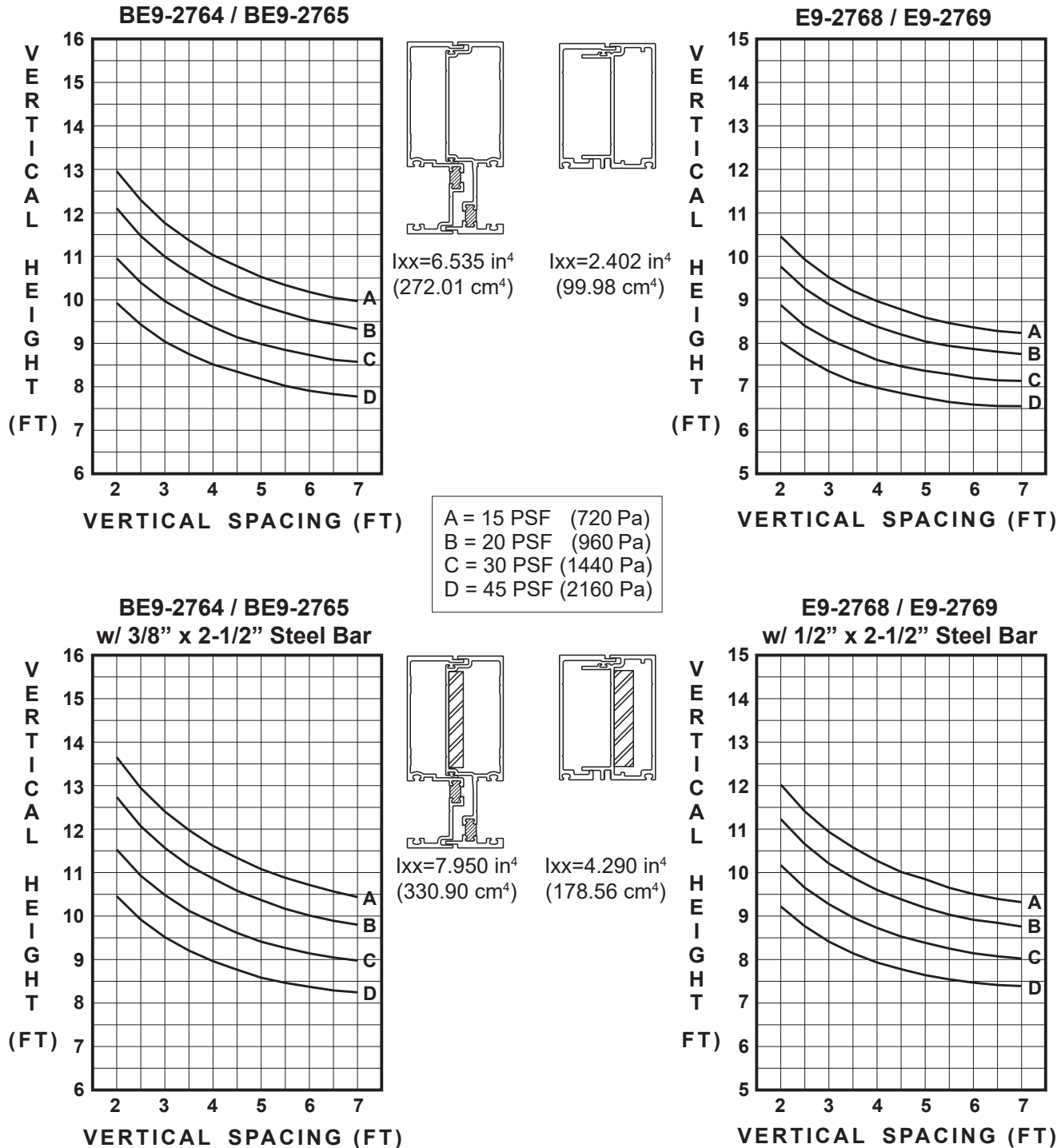


WIND LOAD CHARTS

DEFLECTION CRITERIA: AAMA TIR-A11 - L/175 or
L/240 + 1/4" (6.4mm) - FOR SPANS GREATER THAN 13'-6" (4.1m) BUT LESS THAN 40'-0" (12.2m)
CODES AND SPECIFICATIONS MAY VARY, NO SINGLE LITE OF GLASS SHALL DEFLECT MORE THAN 3/4" (19.1mm)

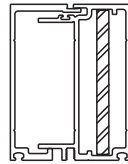
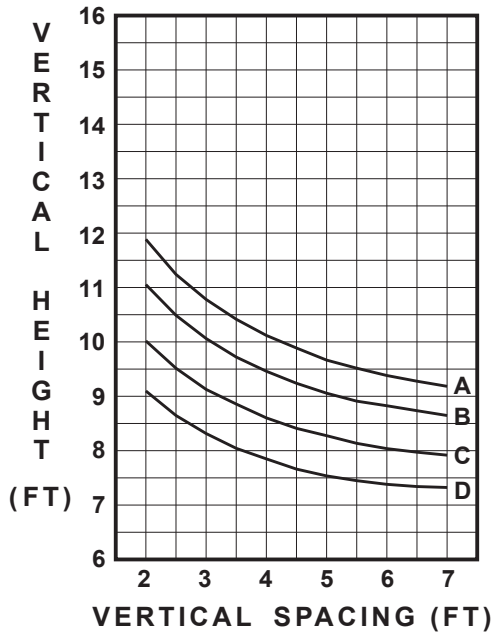
ALLOWABLE WIND LOAD STRESS
YKK AP tested standard. Contact YKK AP for more information.

These charts include unbraced length analysis and are based off at least one horizontal being placed at the midpoint of the span. For other applications, please contact YKK AP engineers at 1-866-955-2732.

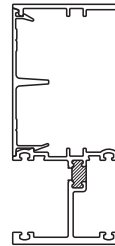


WIND LOAD CHARTS (Continued)

E9-2768 / E9-2769
w/ 1/4" x 3" Steel Bar

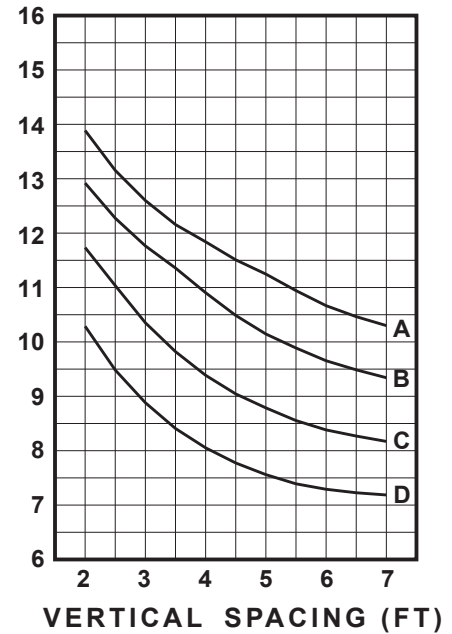


$I_{xx}=4.035 \text{ in}^4$
(167.95 cm^4)



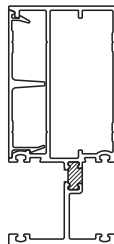
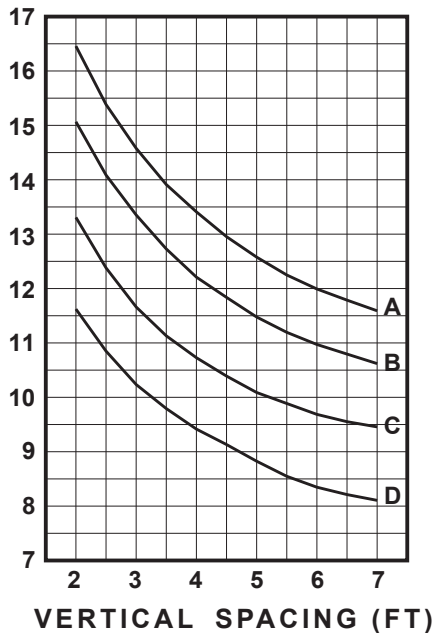
$I_{xx}=4.671 \text{ in}^4$
(194.42 cm^4)

BE9-2767 / E9-8715



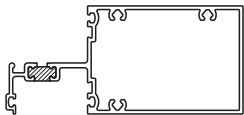
A = 15 PSF (720 Pa)
B = 20 PSF (960 Pa)
C = 30 PSF (1440 Pa)
D = 45 PSF (2160 Pa)

BE9-2791 / E9-8715



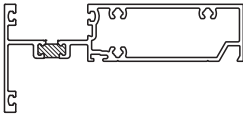
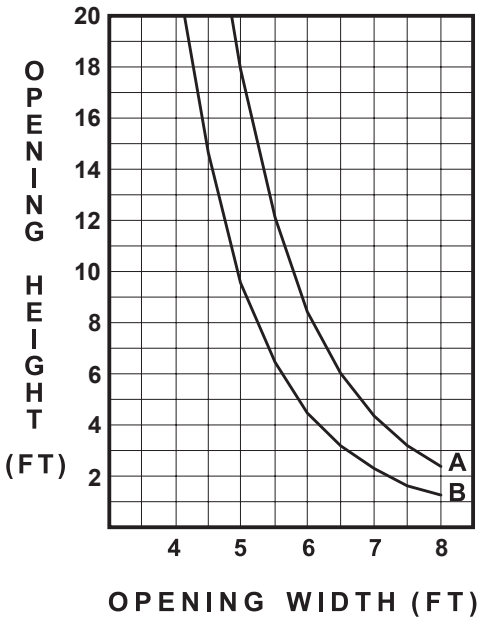
$I_{xx}=5.058 \text{ in}^4$
(210.53 cm^4)

DEAD LOAD CHARTS

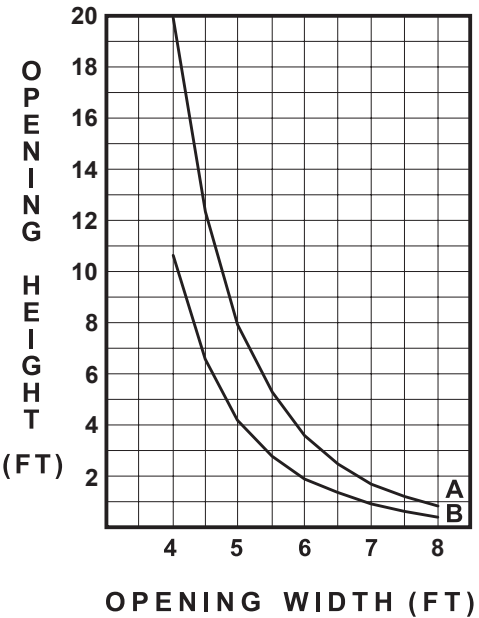


A = SETTING BLOCKS AT
1/8 POINT LOCATIONS
B = SETTING BLOCKS AT
1/4 POINT LOCATIONS

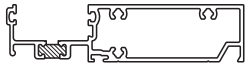
BE9-2789



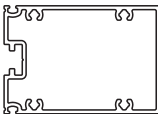
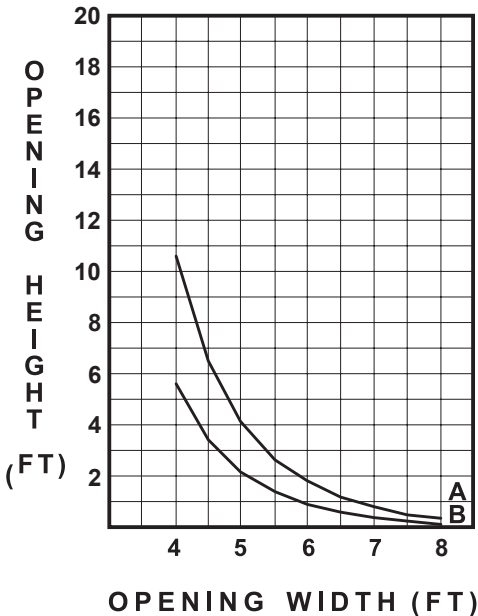
BE9-2786



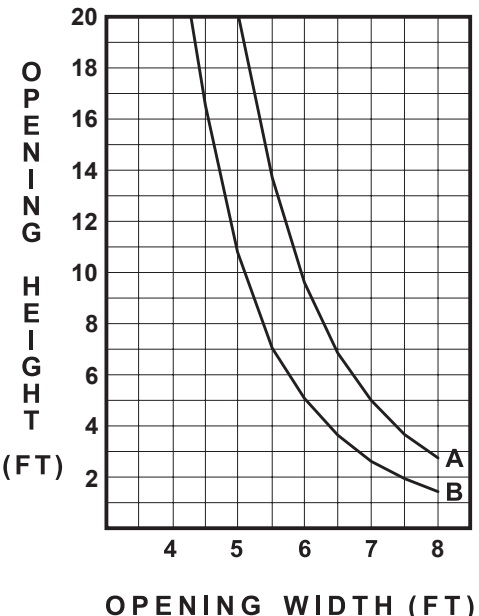
Note: Dead Load requirements are based upon a maximum deflection of 1/8" (3.2mm) at the center of the horizontal.



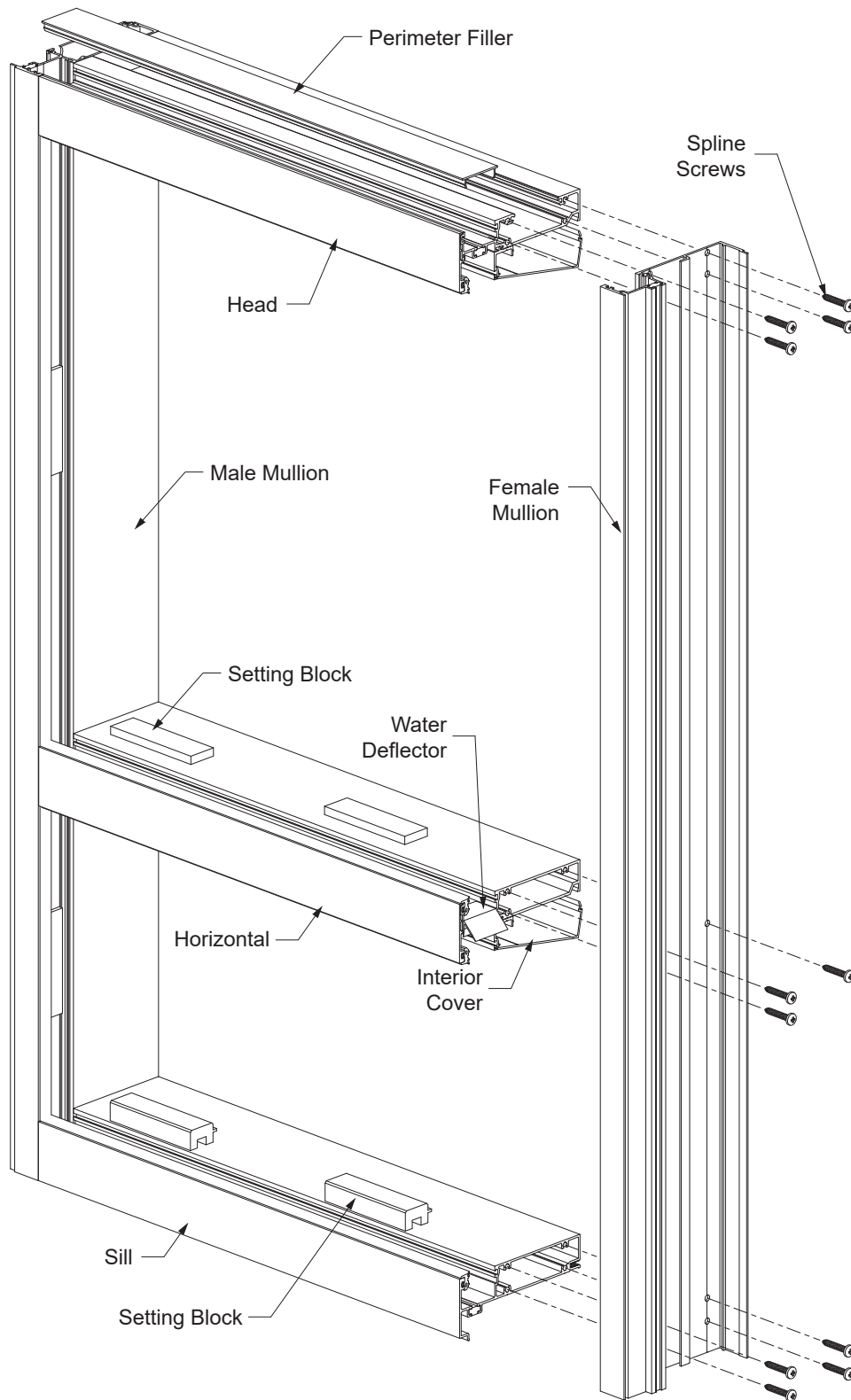
BE9-2777



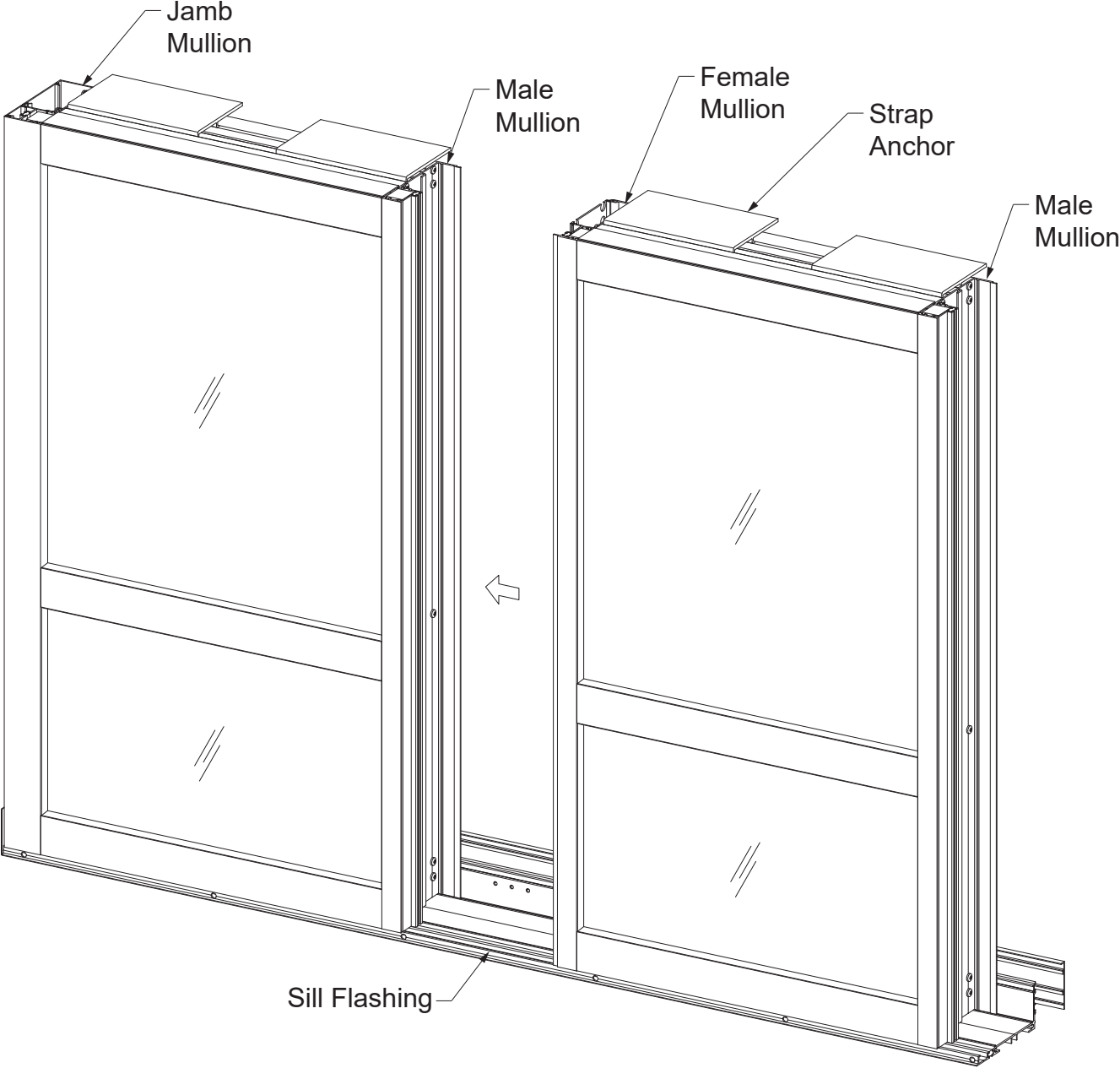
E9-2770



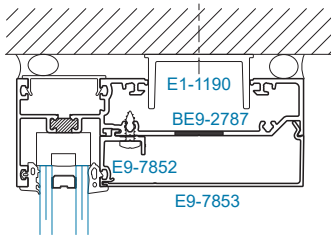
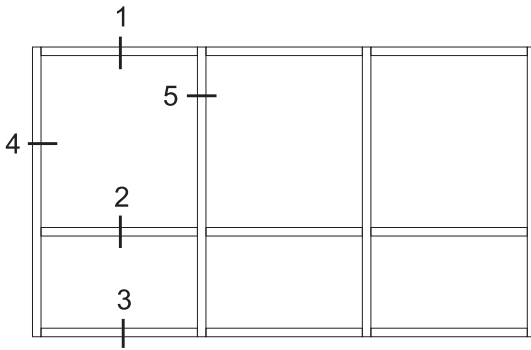
UNIT ASSEMBLY PICTORIAL



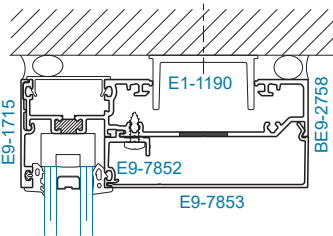
UNIT INSTALLATION PICTORIAL



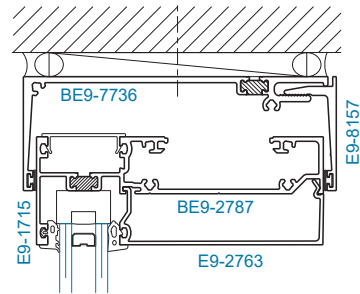
YWW 60 TU I.G. FRAMING MEMBERS



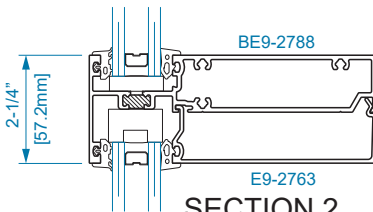
SECTION 1
I.G. HEAD



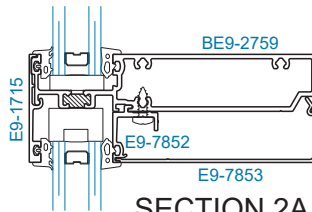
SECTION 1A
OPTIONAL
I.G. HEAD



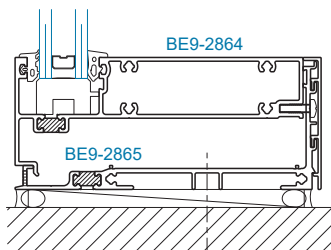
SECTION 1B
I.G. HEAD
W/ RECEPTOR



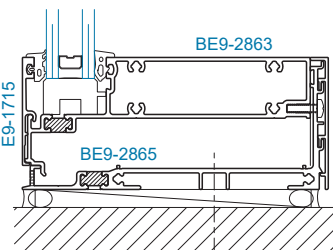
SECTION 2
I.G. HORIZONTAL



SECTION 2A
OPTIONAL
I.G. HORIZONTAL

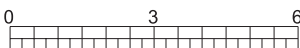


SECTION 3
I.G. SILL

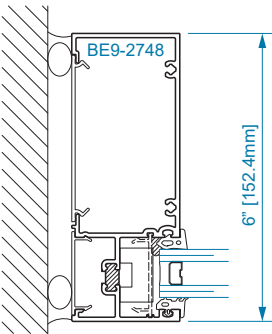
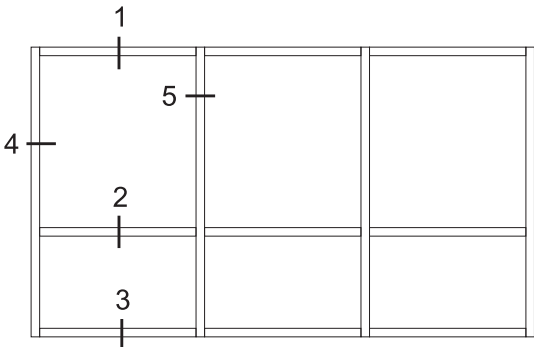


SECTION 3
OPTIONAL
I.G. SILL

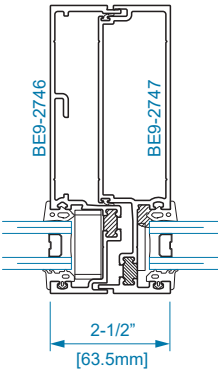
SCALE: 1/4 SIZE



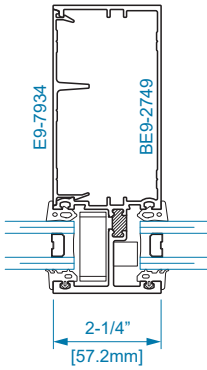
YWW 60 TU I.G. FRAMING MEMBERS



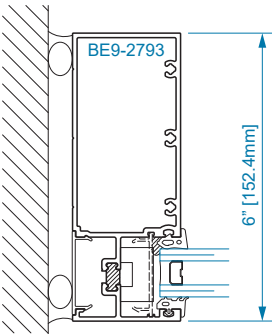
SECTION 4
I.G. JAMB



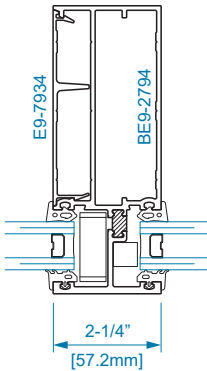
SECTION 5
I.G. CAPTURED
MULLION



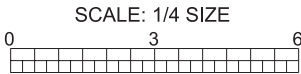
SECTION 5A
FIELD GLAZED
I.G. CAPTURED
MULLION



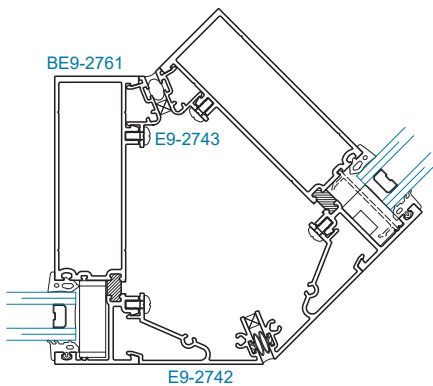
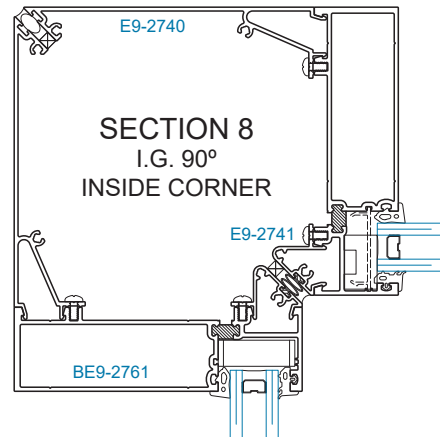
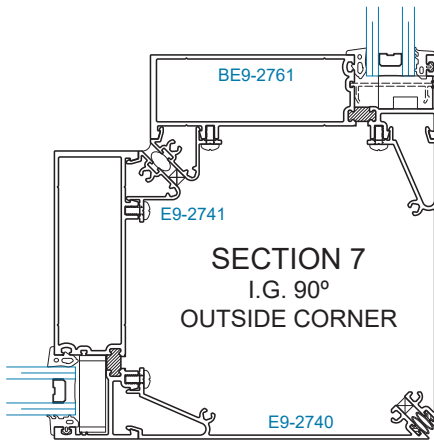
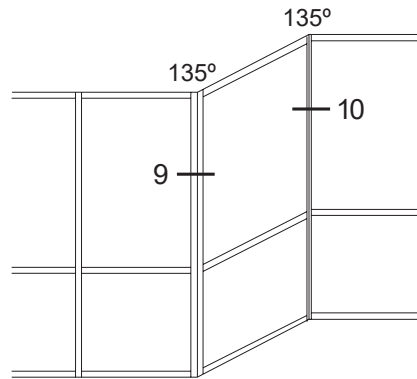
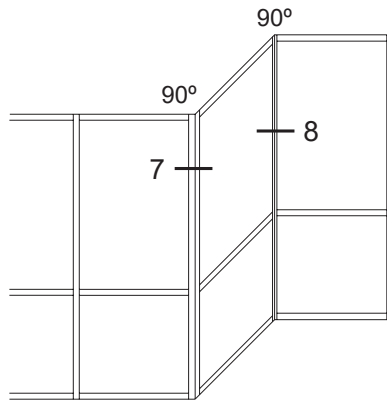
SECTION 4A
TUBULAR
I.G. JAMB



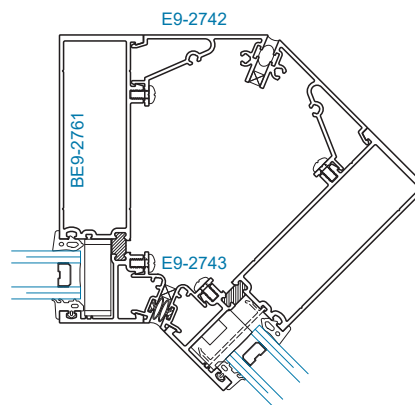
SECTION 5B
FIELD GLAZED
I.G. CAPTURED
TUBULAR MULLION



YWW 60 TU I.G. CORNER FRAMING MEMBERS



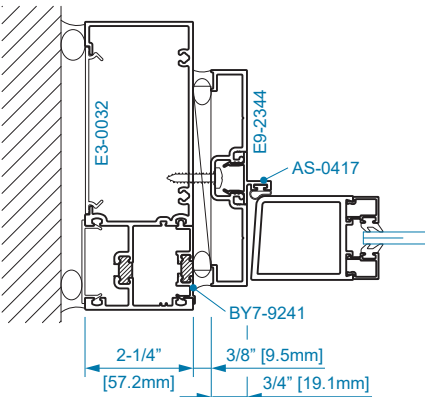
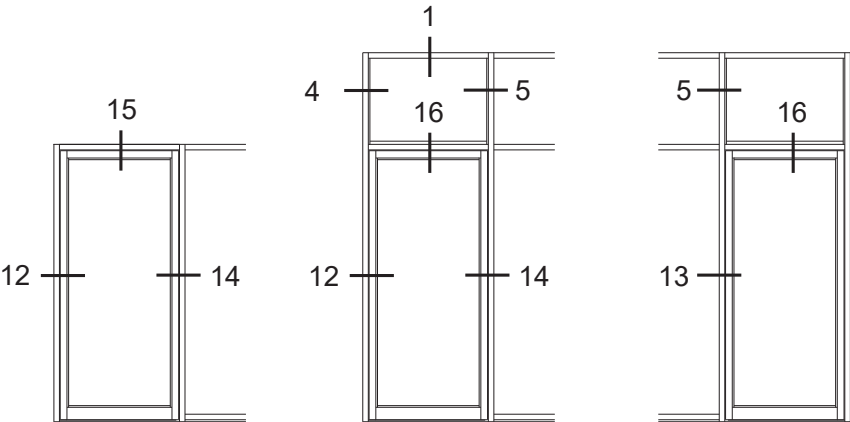
SECTION 9
I.G. 135°
OUTSIDE CORNER



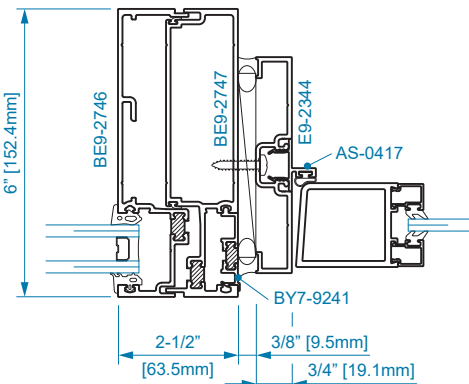
SECTION 10
I.G. 135°
INSIDE CORNER

SCALE: 1/4 SIZE
0 3 6

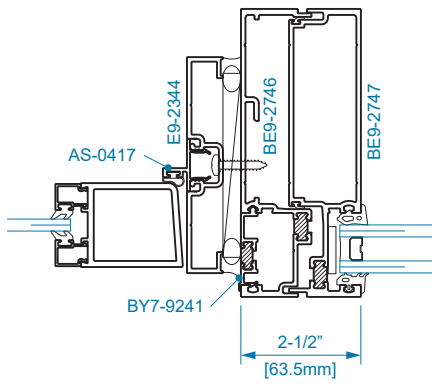
YWW 60 TU I.G. PREGLAZED DOOR FRAMING MEMBERS



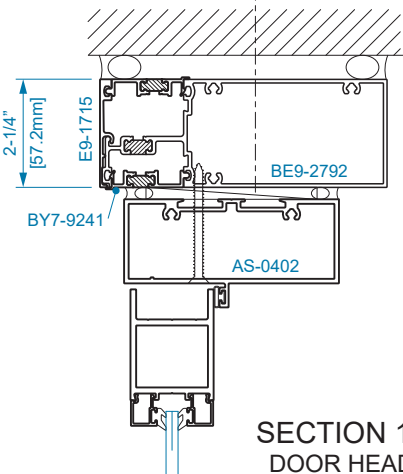
SECTION 12
DOOR JAMB
w/o SIDELITE



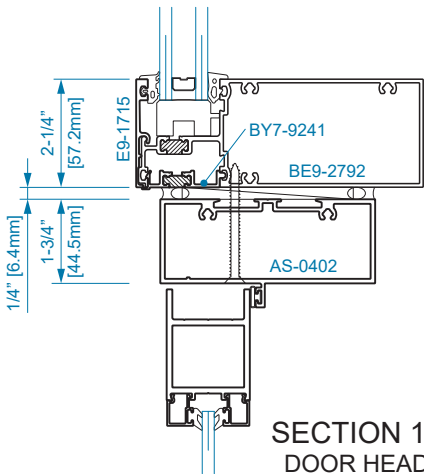
SECTION 13
DOOR JAMB
w/ SIDELITE



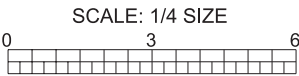
SECTION 14
DOOR JAMB
w/ SIDELITE



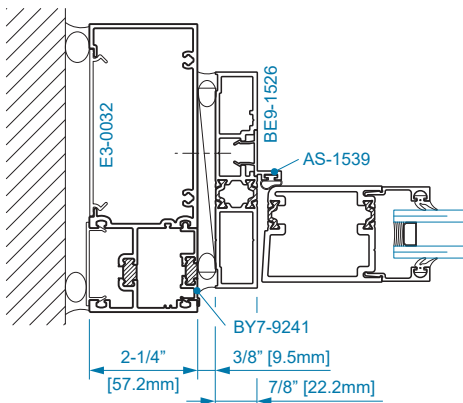
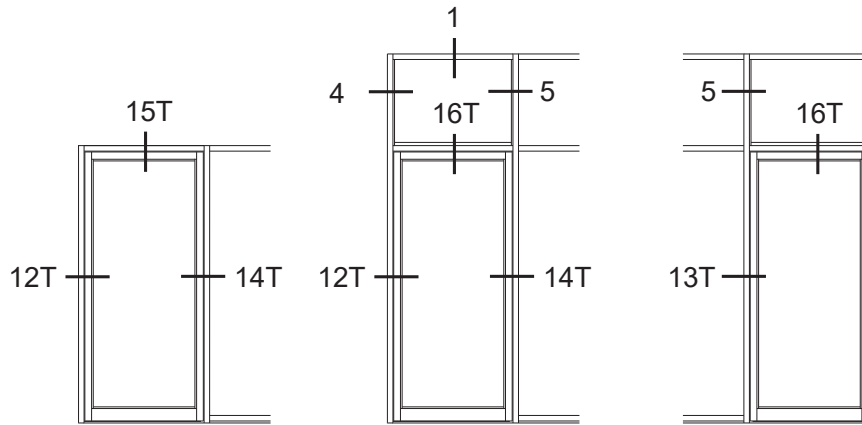
SECTION 15
DOOR HEAD
w/o TRANSOM



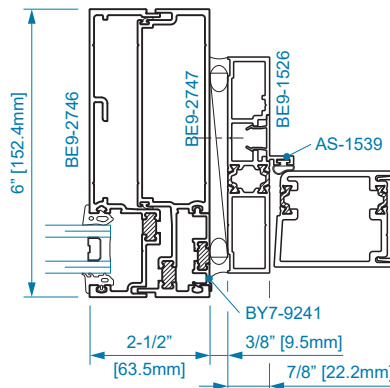
SECTION 16
DOOR HEAD
w/ TRANSOM



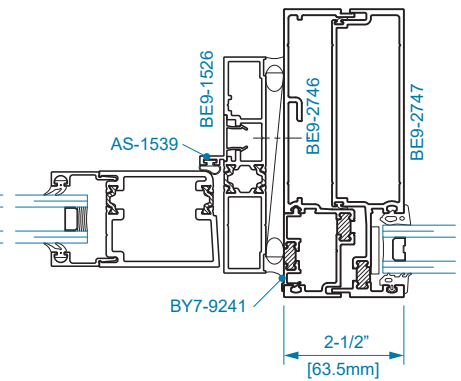
YWW 60 TU I.G. PREGLAZED THERMAL DOOR FRAMING MEMBERS



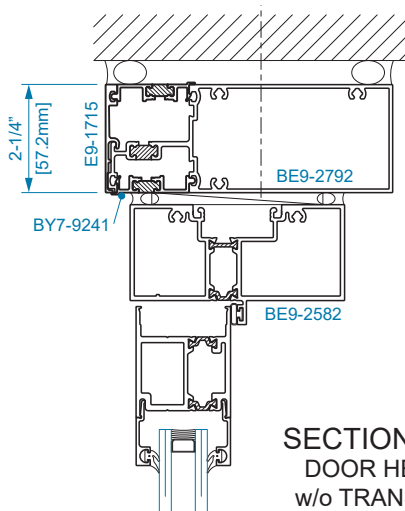
SECTION 12T
DOOR JAMB
w/o SIDELITE



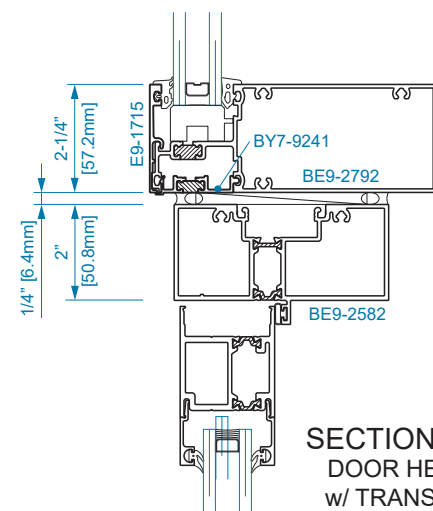
SECTION 13T
DOOR JAMB
w/ SIDELITE



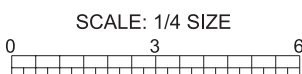
SECTION 14T
DOOR JAMB
w/ SIDELITE



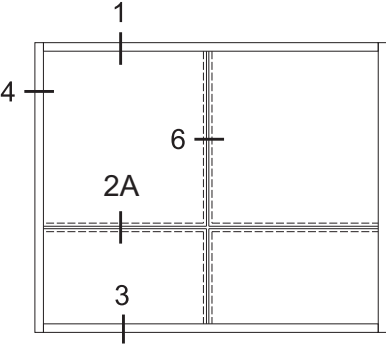
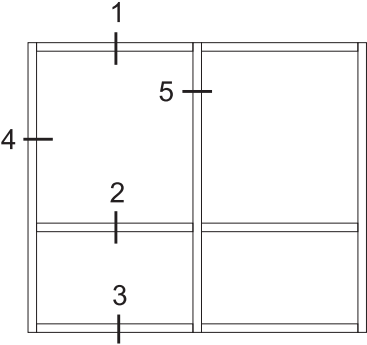
SECTION 15T
DOOR HEAD
w/o TRANSOM



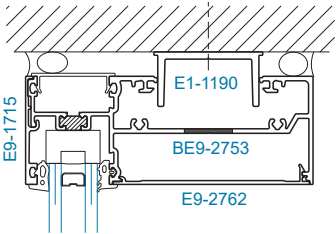
SECTION 16T
DOOR HEAD
w/ TRANSOM



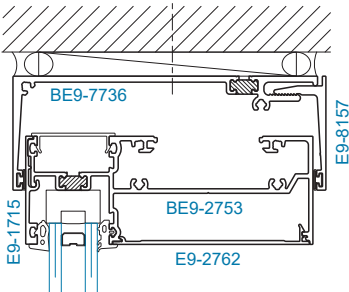
YWW 60 TU O.G. / SSG FRAMING MEMBERS



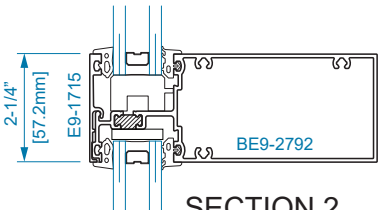
Note: 3-sided and 4-sided SSG units require painted finish.



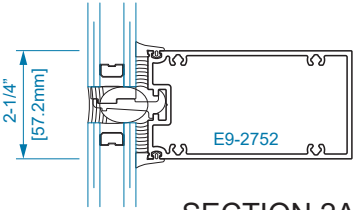
SECTION 1
O.G. HEAD



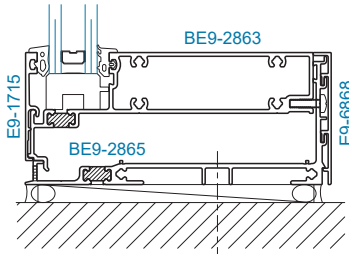
SECTION 1A
O.G. HEAD
W/ RECEPTOR



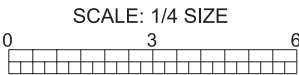
SECTION 2
O.G. HORIZONTAL



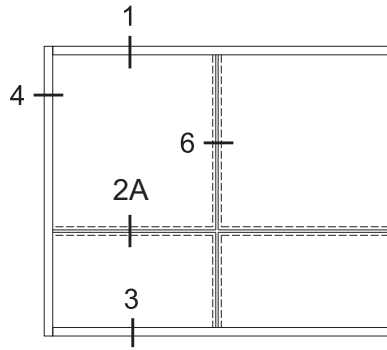
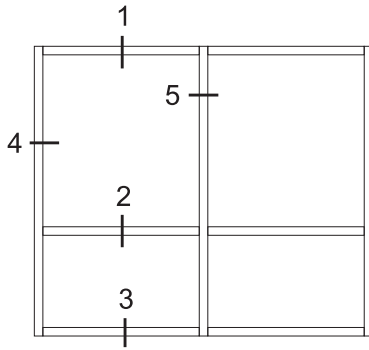
SECTION 2A
SSG HORIZONTAL



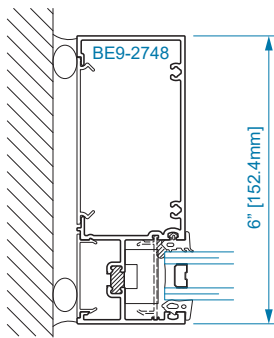
SECTION 3
O.G. SILL



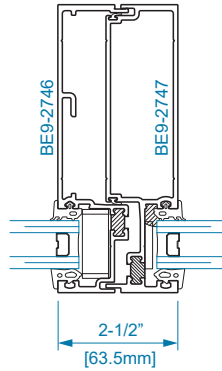
YWW 60 TU O.G. / SSG FRAMING MEMBERS



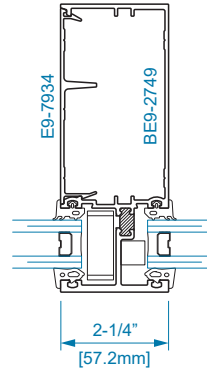
Note: 3-sided and 4-sided SSG units require painted finish.



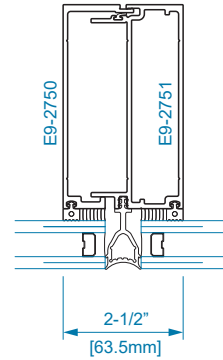
SECTION 4
O.G. JAMB



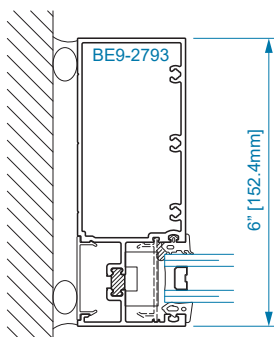
SECTION 5
O.G. CAPTURED
MULLION



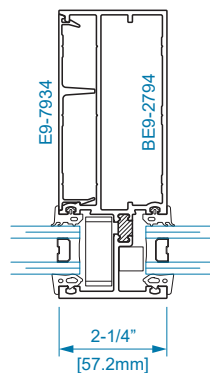
SECTION 5A
FIELD GLAZED
O.G. CAPTURED
MULLION



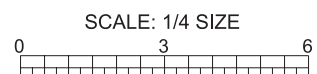
SECTION 6
SSG MULLION



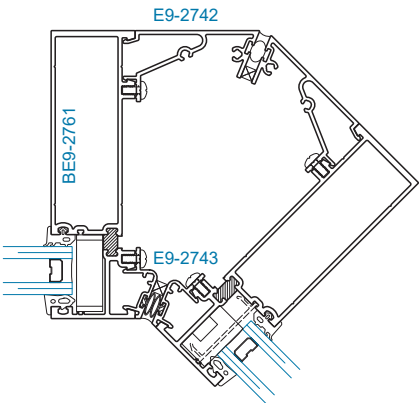
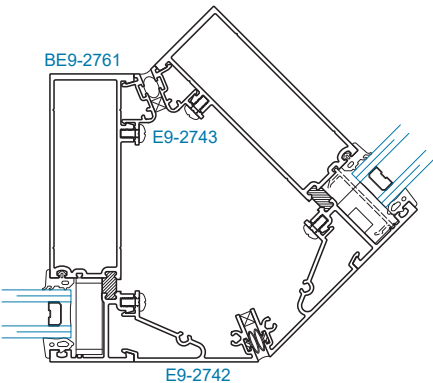
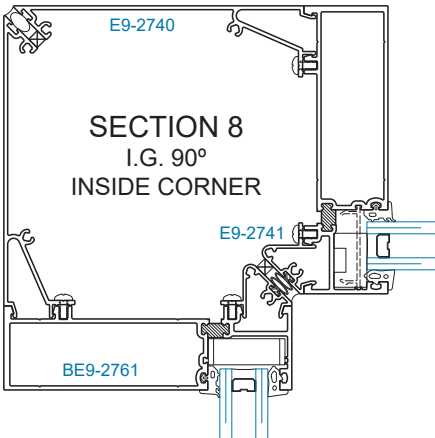
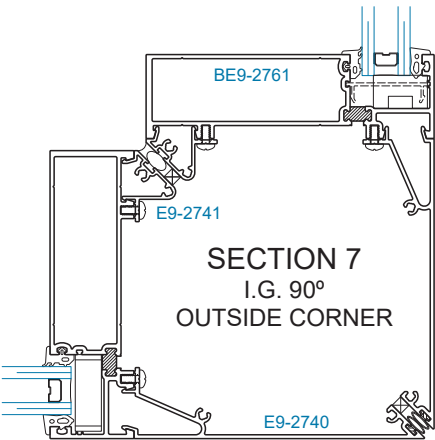
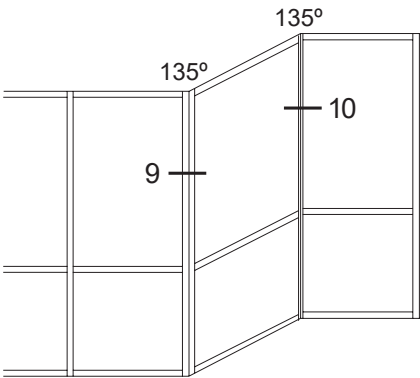
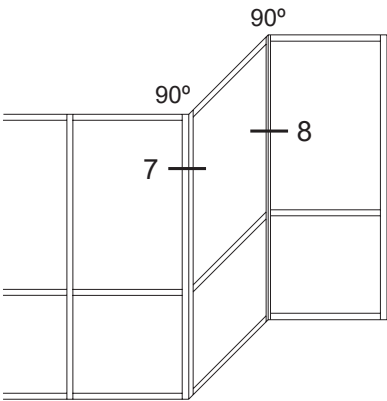
SECTION 4A
TUBULAR
O.G. JAMB



SECTION 5B
FIELD GLAZED
O.G. CAPTURED
TUBULAR MULLION

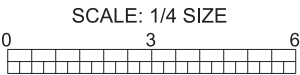


YWW 60 TU O.G. CORNER FRAMING MEMBERS

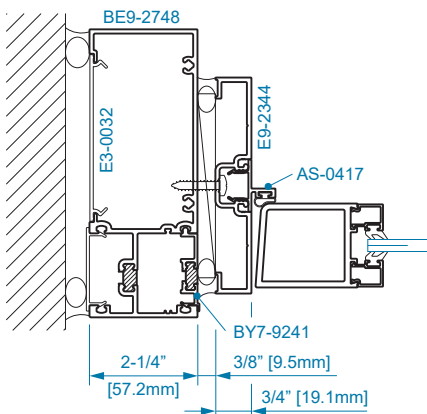
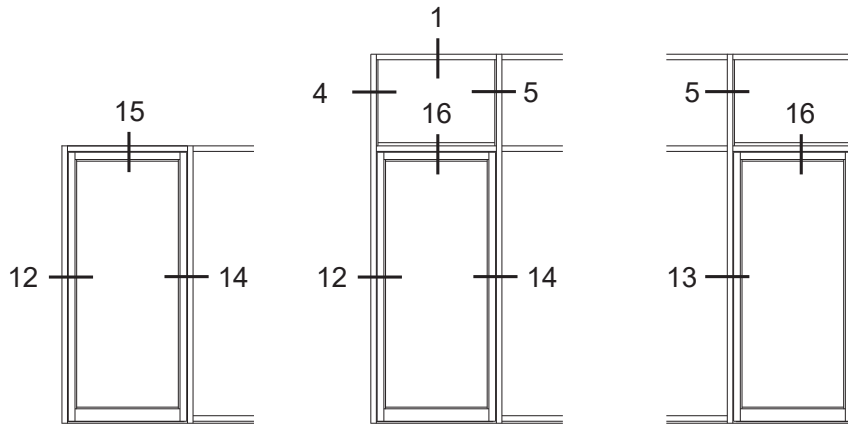


SECTION 9
I.G. 135°
OUTSIDE CORNER

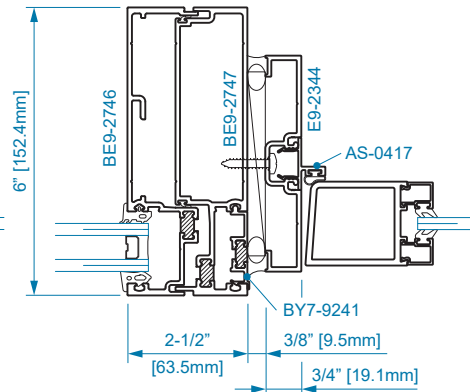
SECTION 10
I.G. 135°
INSIDE CORNER



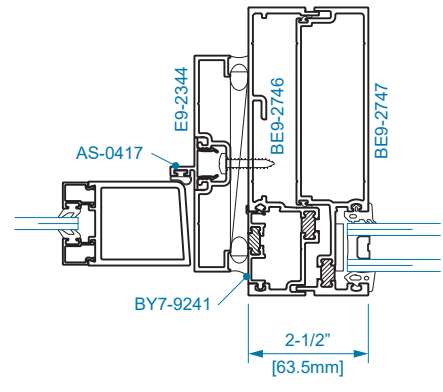
YWW 60 TU O.G. PREGLAZED DOOR FRAMING MEMBERS



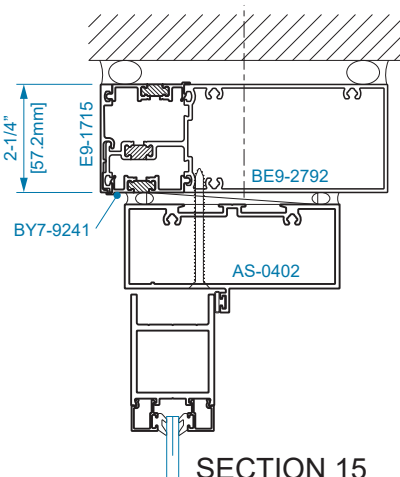
SECTION 12
DOOR JAMB
w/o SIDELITE



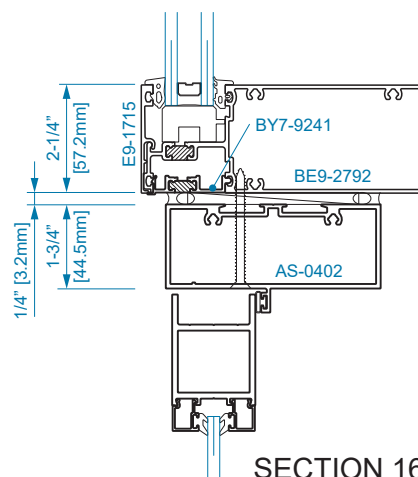
SECTION 13
DOOR JAMB
w/ SIDELITE



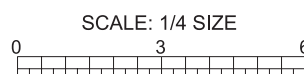
SECTION 14
DOOR JAMB
w/ SIDELITE



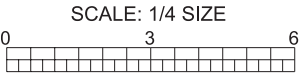
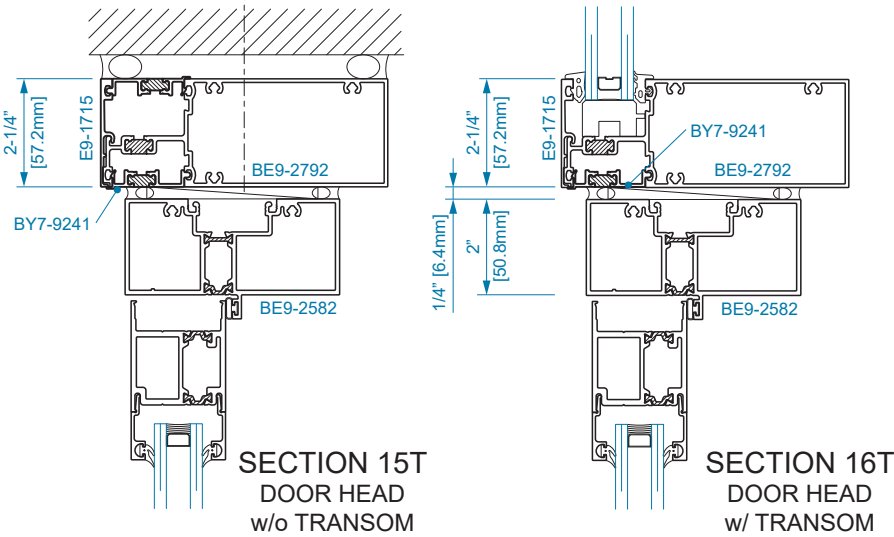
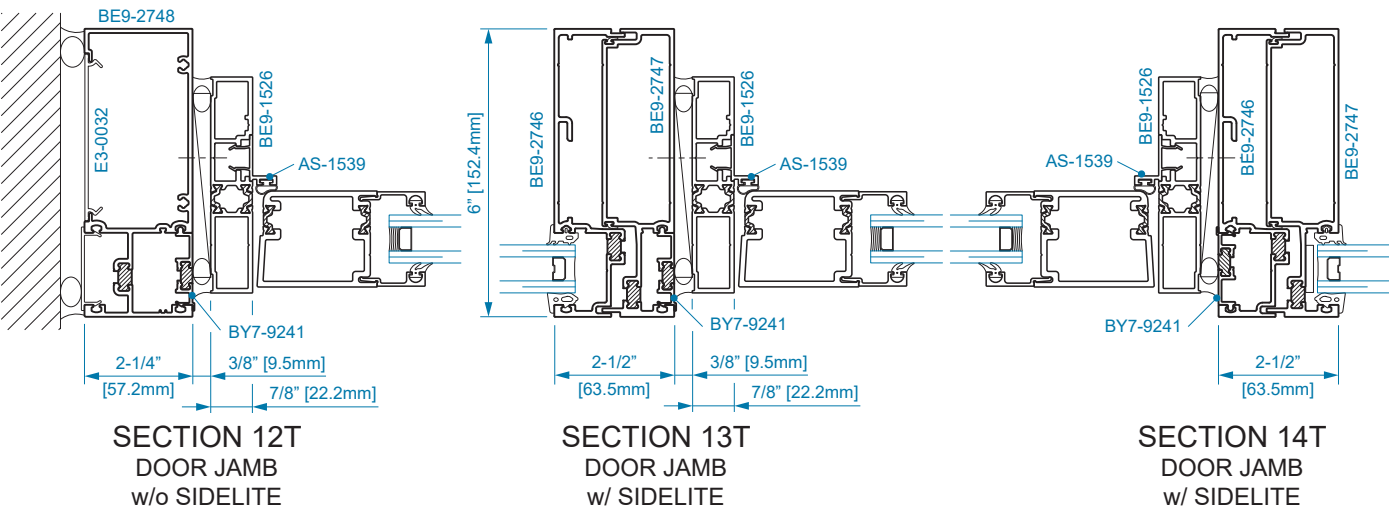
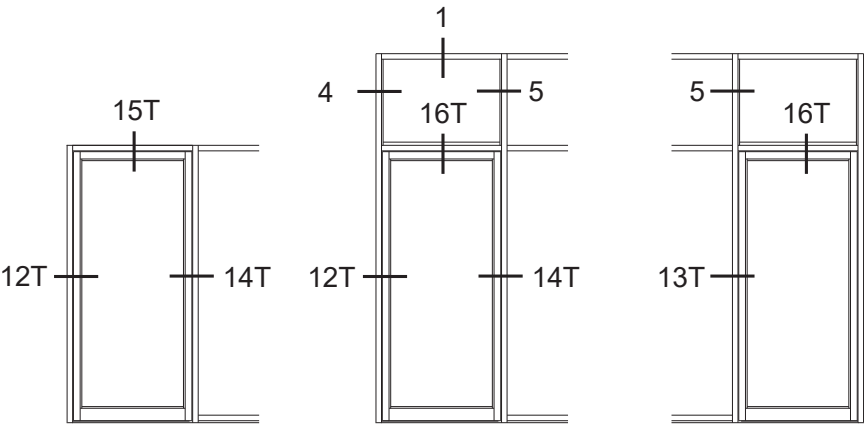
SECTION 15
DOOR HEAD
w/o TRANSOM



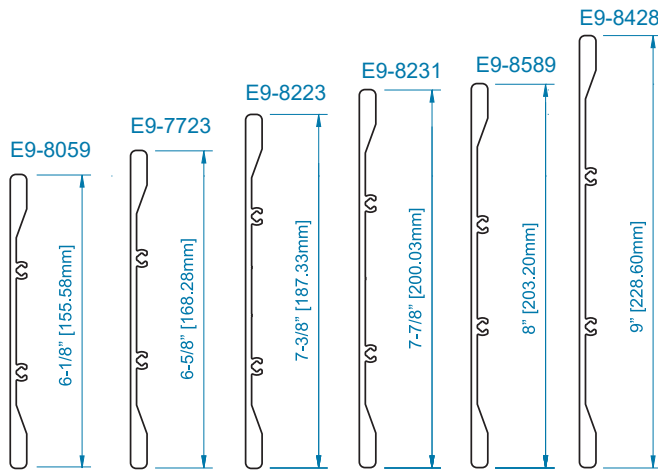
SECTION 16
DOOR HEAD
w/ TRANSOM



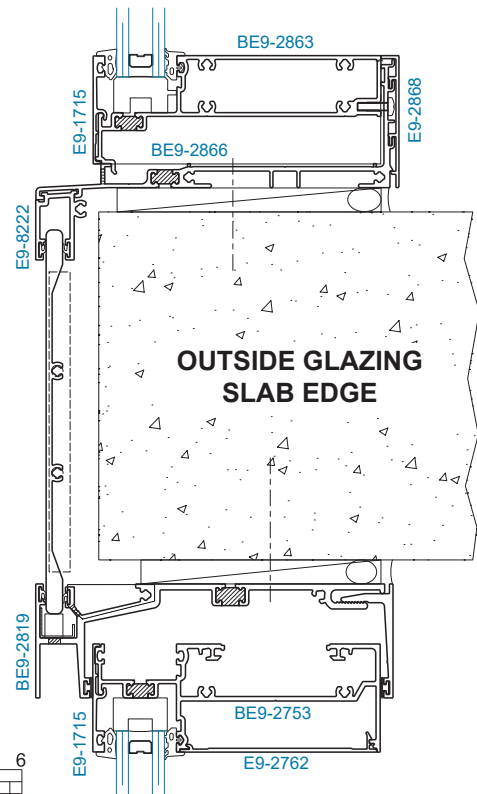
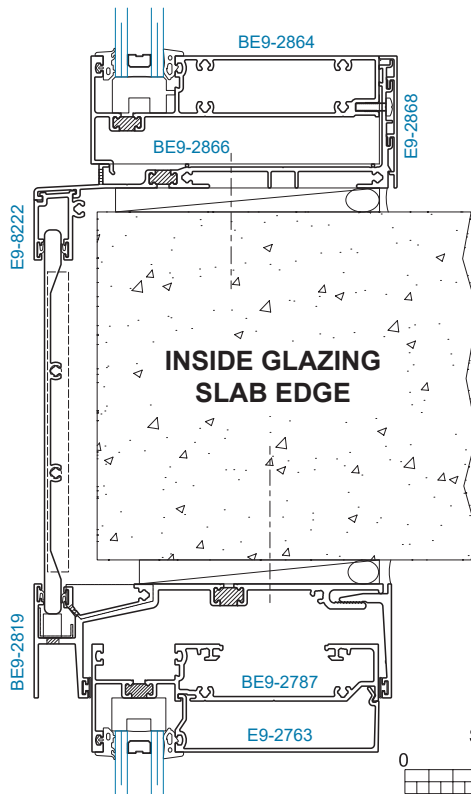
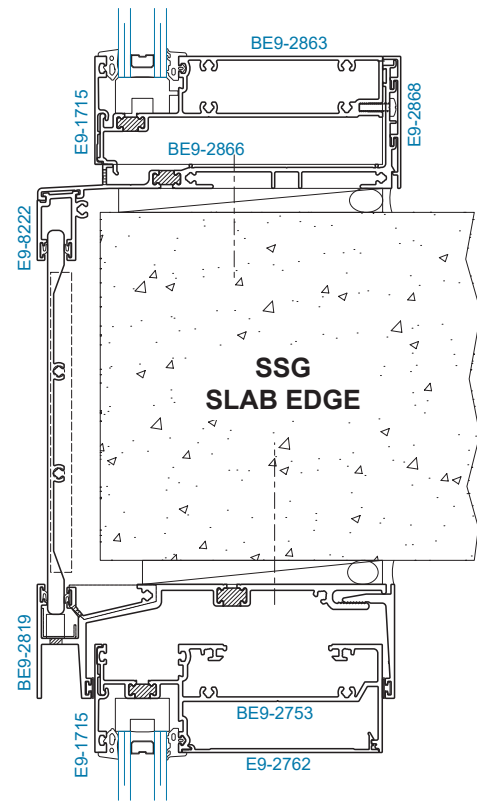
YWW 60 TU O.G. PREGLAZED THERMAL DOOR FRAMING MEMBERS



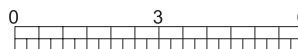
YWW 60 TU SLAB EDGE COVER DETAILS



STANDARD SLAB EDGE COVERS



SCALE: 1/4 SIZE

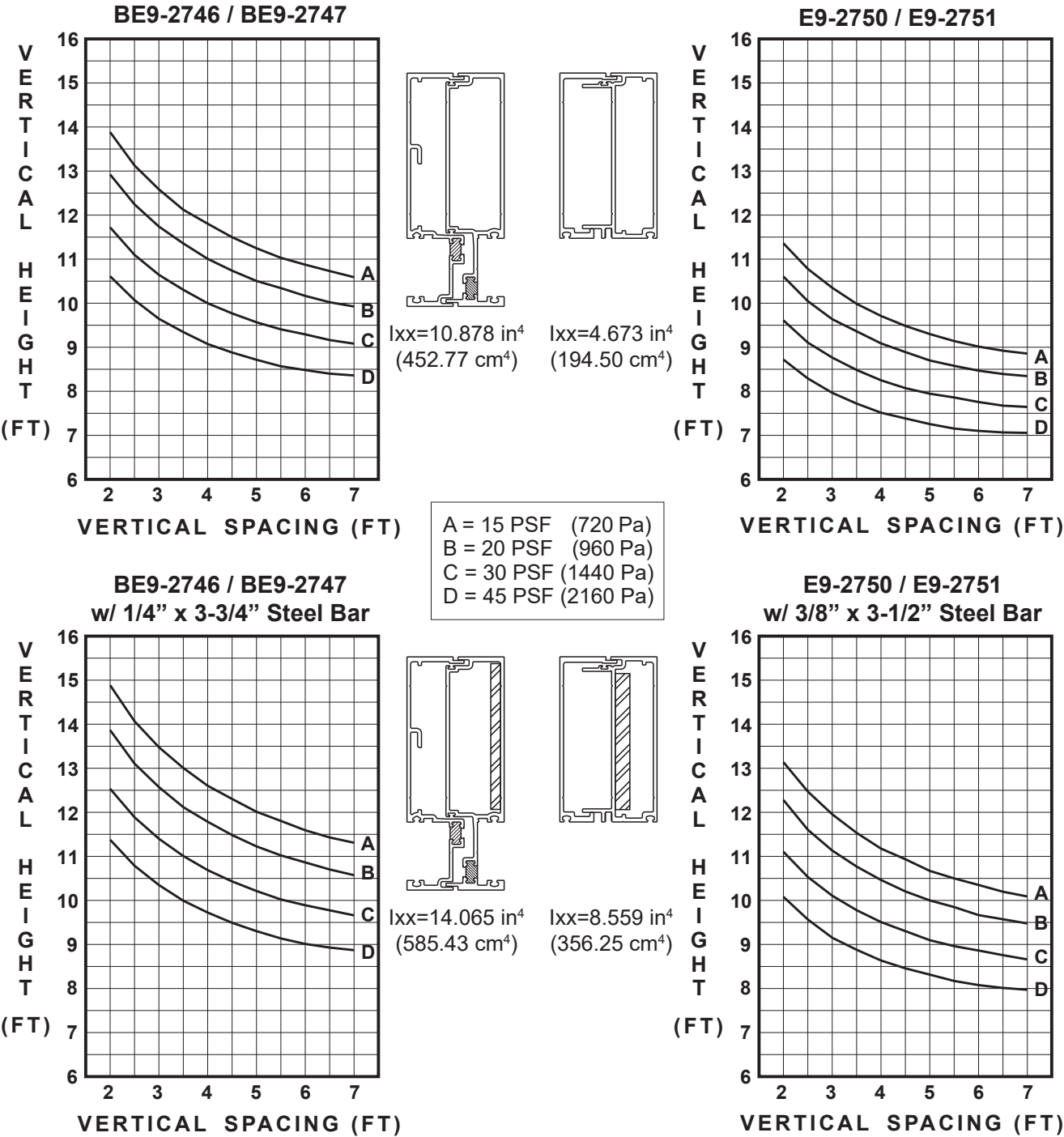


WIND LOAD CHARTS

DEFLECTION CRITERIA: AAMA TIR-A11 - L/175 or
L/240 + 1/4" (6.4mm) - FOR SPANS GREATER THAN 13'-6" (4.1m) BUT LESS THAN 40'-0" (12.2m)
CODES AND SPECIFICATIONS MAY VARY, NO SINGLE LITE OF GLASS SHALL DEFLECT MORE THAN 3/4" (19.1mm)

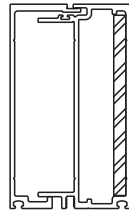
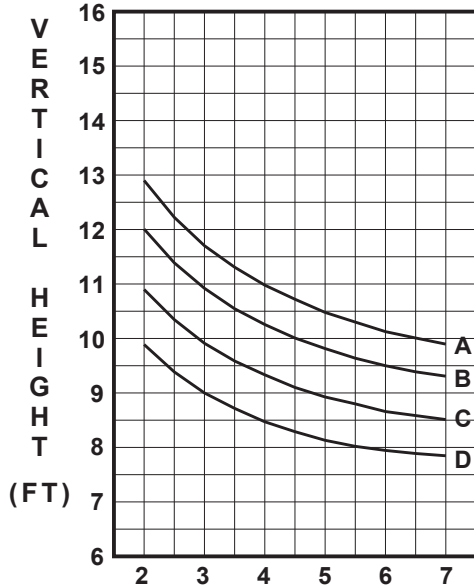
ALLOWABLE WIND LOAD STRESS
YKK AP tested standard. Contact YKK AP for more information.

These charts include unbraced length analysis and are based off at least one horizontal being placed at the midpoint of the span. For other applications, please contact YKK AP engineers at 1-866-955-2732.

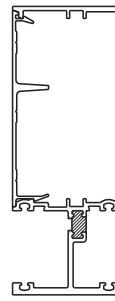


WIND LOAD CHARTS

E9-2750 / E9-2751
w/ 1/4" x 3-3/4" Steel Bar

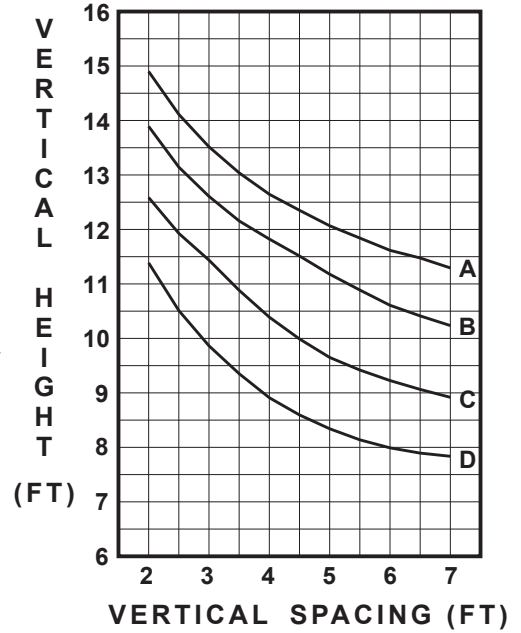


$I_{xx}=7.860 \text{ in}^4$
(327.16 cm^4)

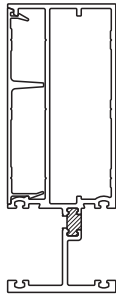
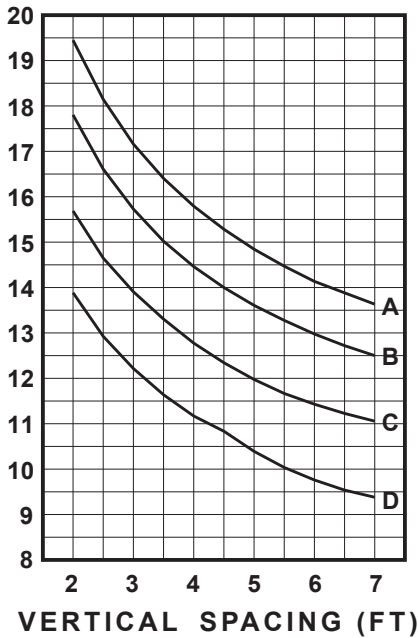


$I_{xx}=7.373 \text{ in}^4$
(306.89 cm^4)

A = 15 PSF (720 Pa)
B = 20 PSF (960 Pa)
C = 30 PSF (1440 Pa)
D = 45 PSF (2160 Pa)

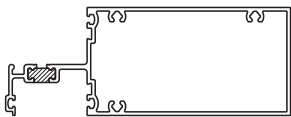


BE9-2794 / E9-7934

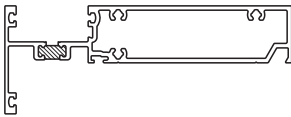
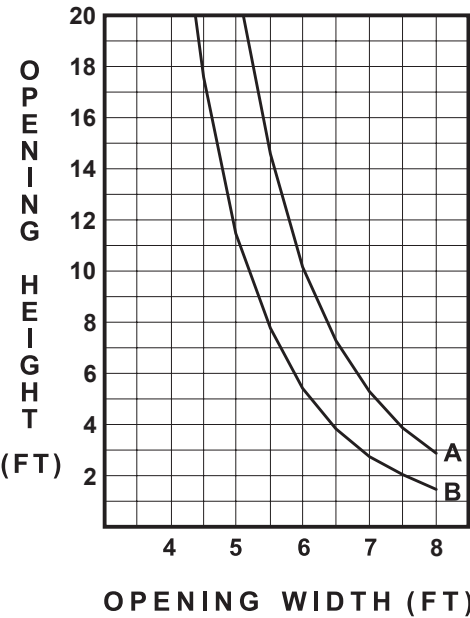


$I_{xx}=8.661 \text{ in}^4$
(360.50 cm^4)

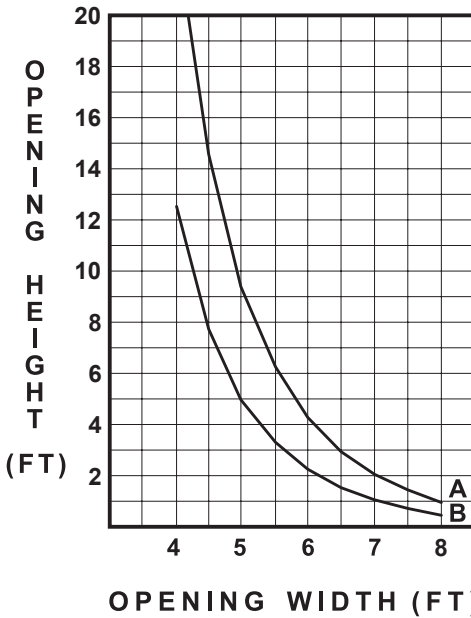
DEAD LOAD CHARTS



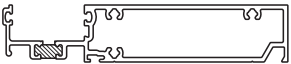
BE9-2792



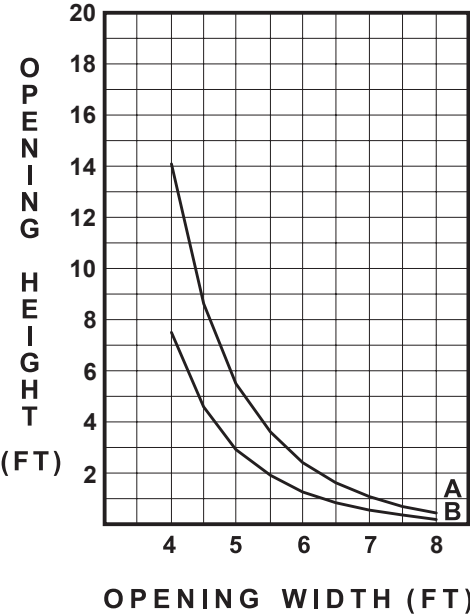
BE9-2788



Note: Dead Load requirements are based upon a maximum deflection of 1/8" (3.2mm) at the center of the horizontal.



BE9-2759



E9-2752

