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**YES 45 FS STOREFRONT SYSTEM FOR 1/4" GLAZING
1-3/4" x 4-1/2"**

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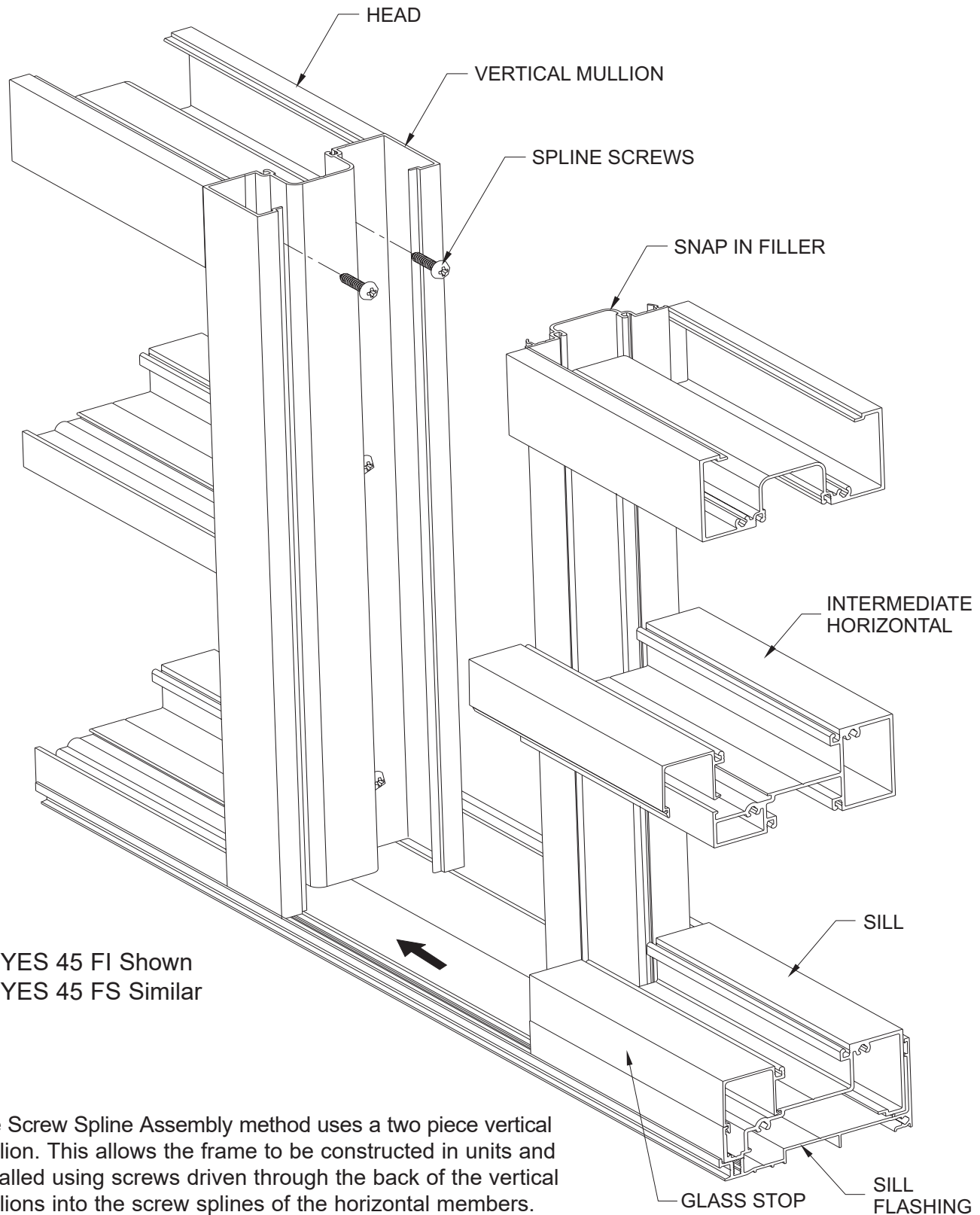
**YES 45 FI STOREFRONT SYSTEM FOR 1" GLAZING
2" x 4-1/2"**

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

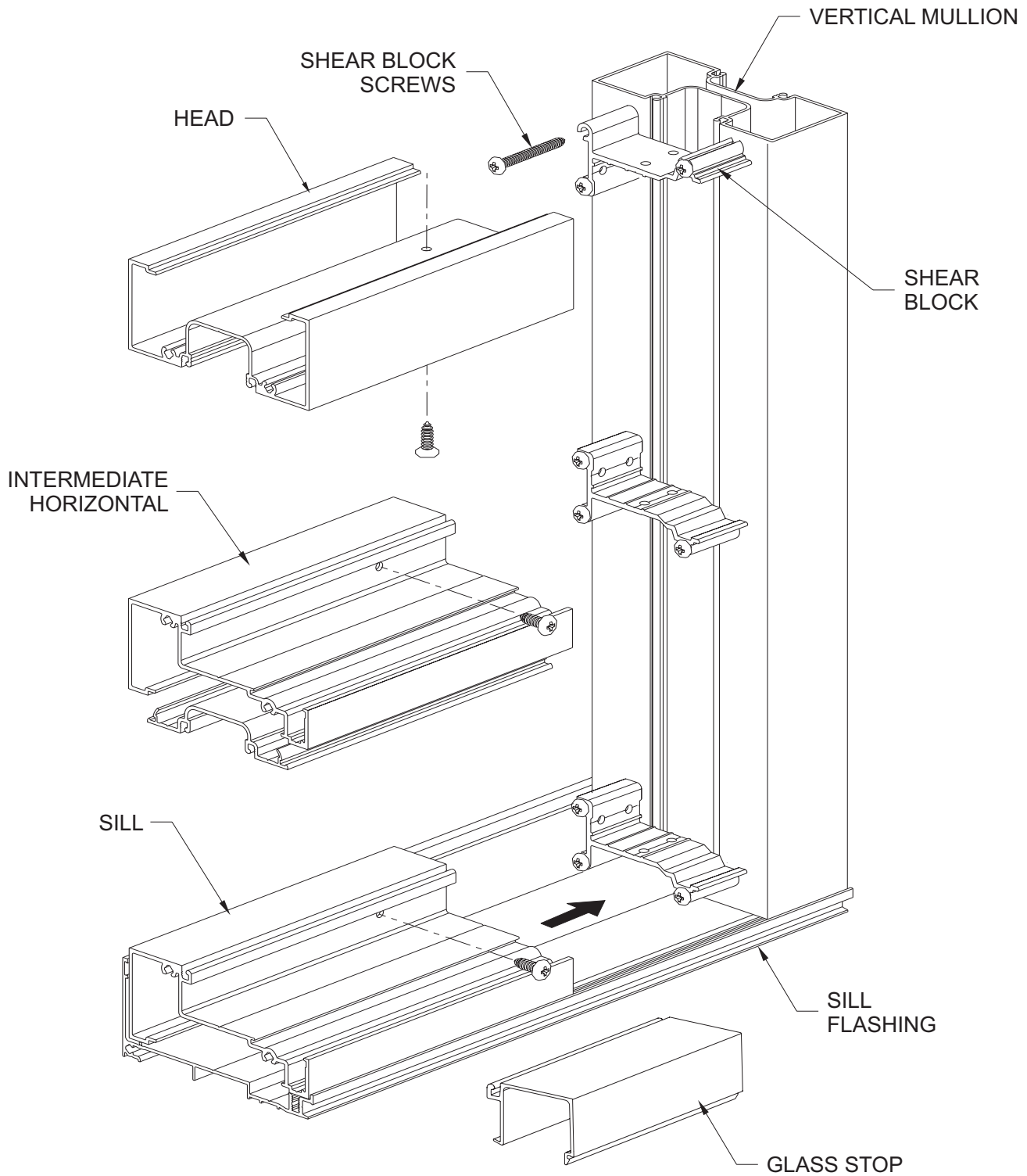
SCREW SPLINE ASSEMBLY



YES 45 FI Shown
YES 45 FS Similar

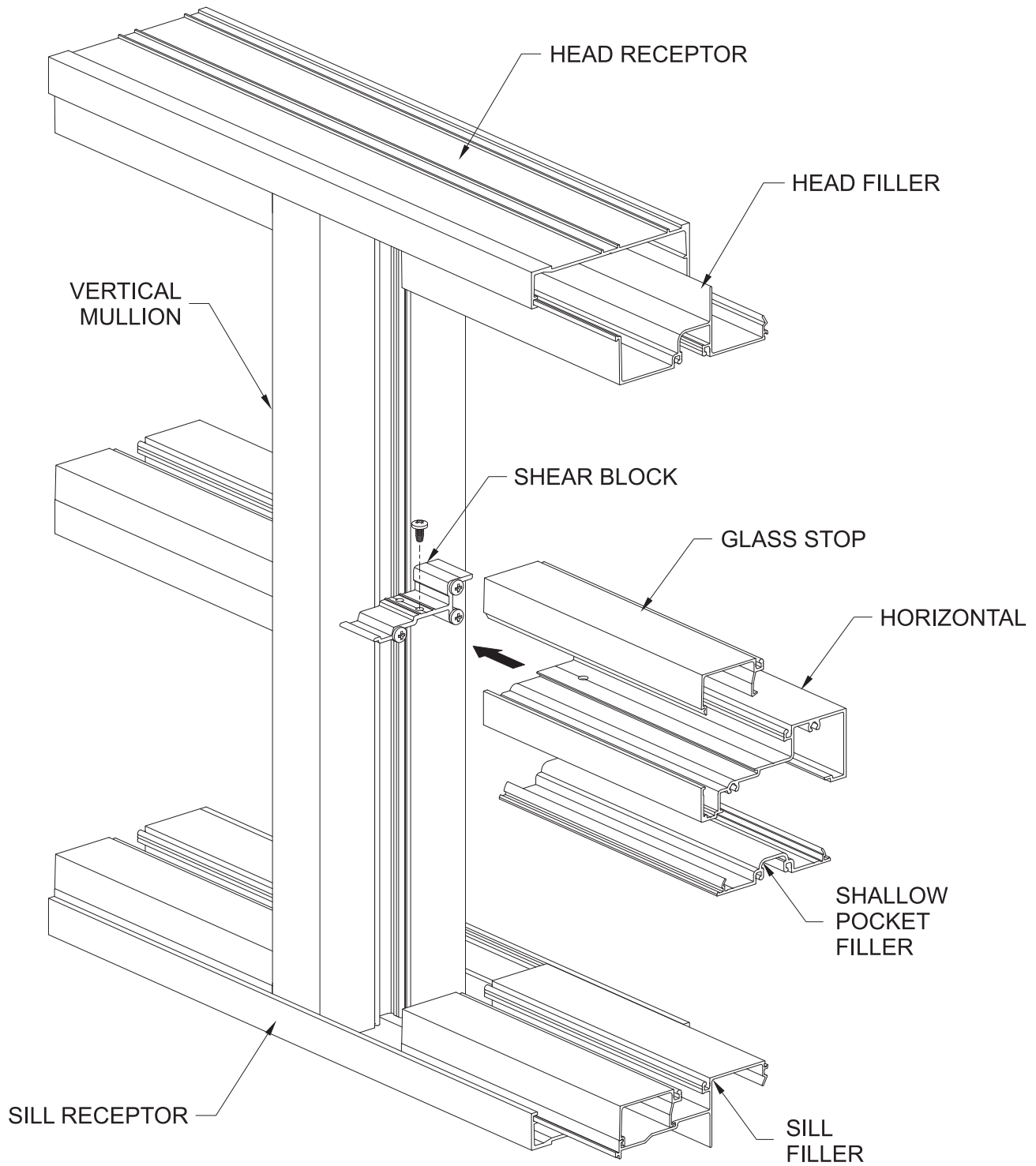
The Screw Spline Assembly method uses a two piece vertical mullion. This allows the frame to be constructed in units and installed using screws driven through the back of the vertical mullions into the screw splines of the horizontal members. The units are then snapped together at the vertical to complete the fabrication.

SHEAR BLOCK ASSEMBLY



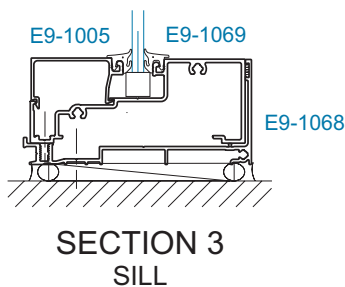
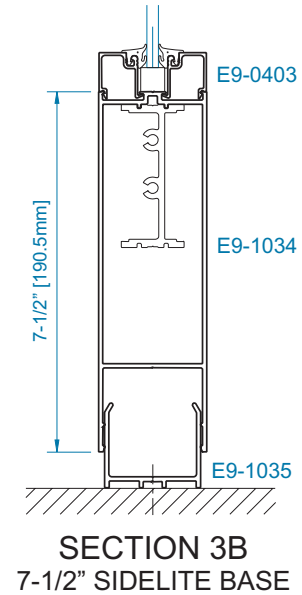
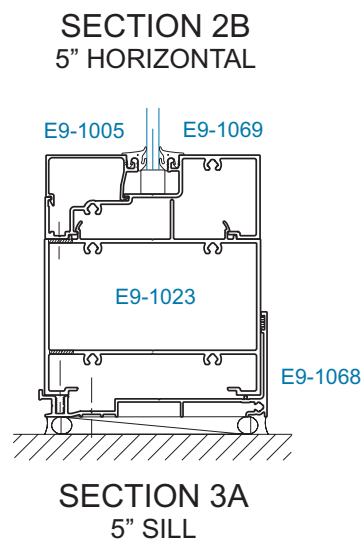
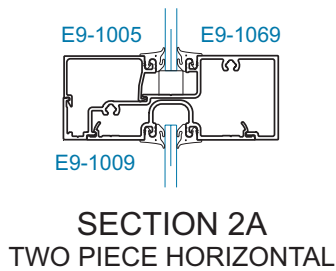
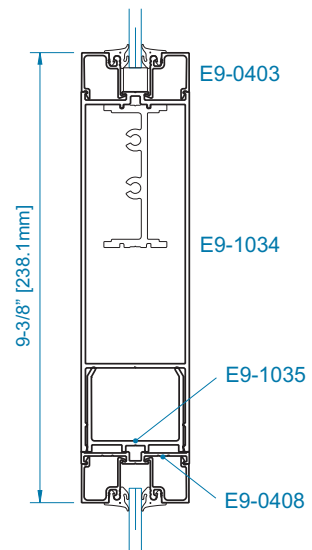
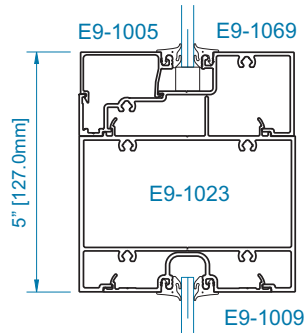
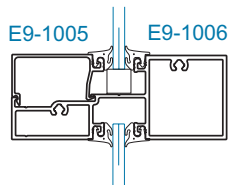
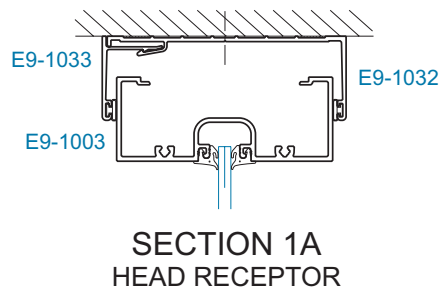
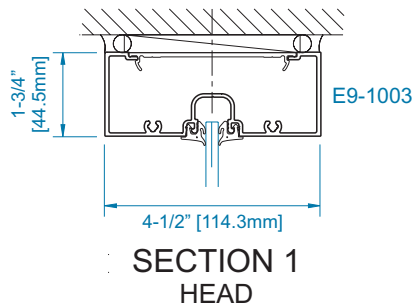
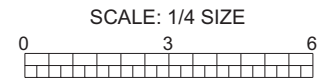
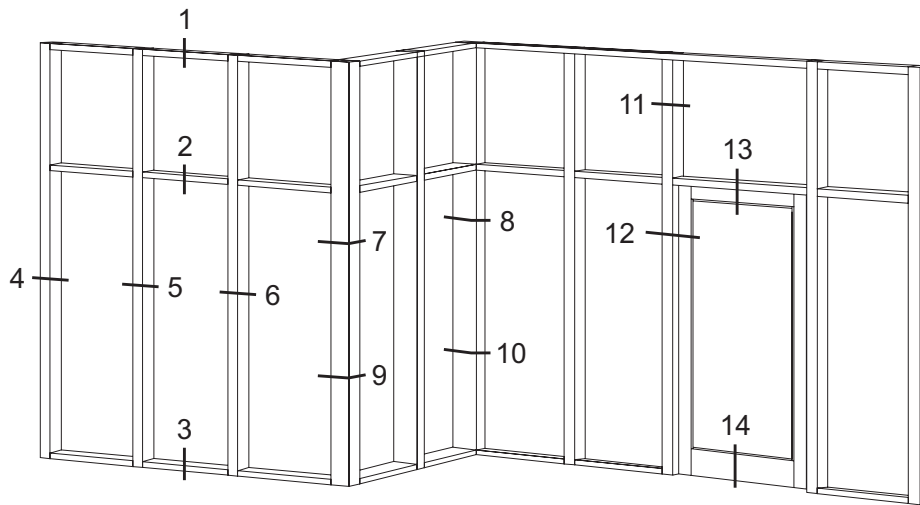
The Shear Block Assembly method uses shear blocks to attach horizontal members to tubular vertical mullions. This allows for a stronger joint connection.

STOREFRONT CAN ASSEMBLY

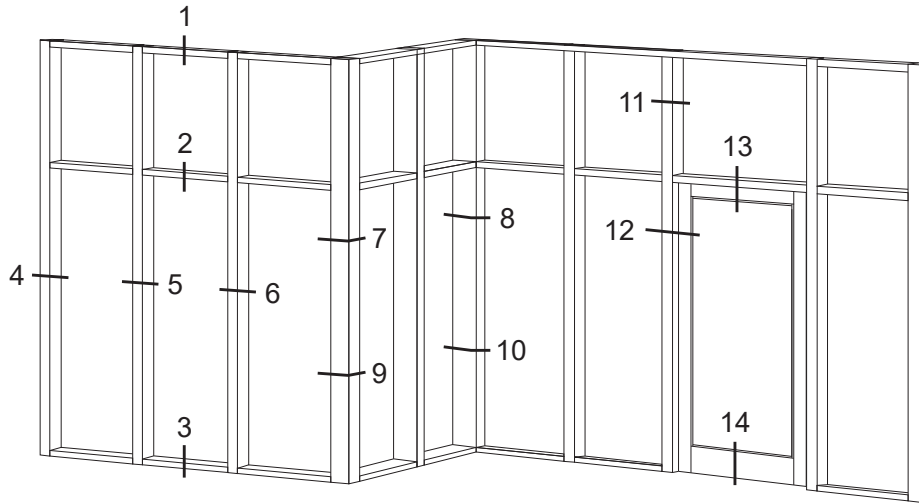


Note: YES 45 FS Shown, YES 45 FI Similar.

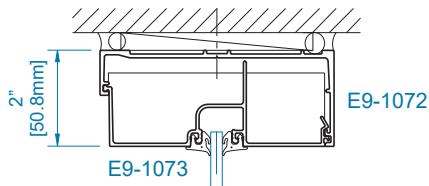
YES 45 FS FRAMING MEMBERS



YES 45 FS CAN/RIBBON FRAMING MEMBERS

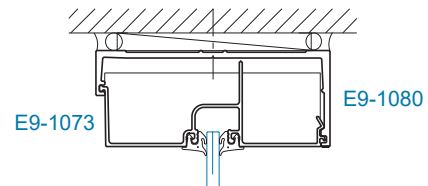


STANDARD

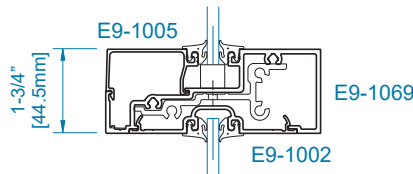


SECTION 1B
O.G. RIBBON HEAD

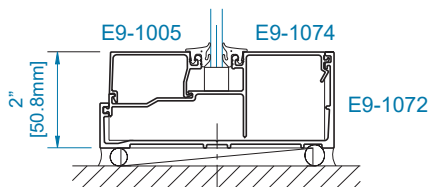
HEAVY DUTY



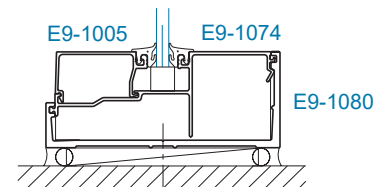
SECTION 1C
O.G. RIBBON HEAD



SECTION 2D
O.G. RIBBON
HORIZONTAL



SECTION 3C
O.G. RIBBON SILL

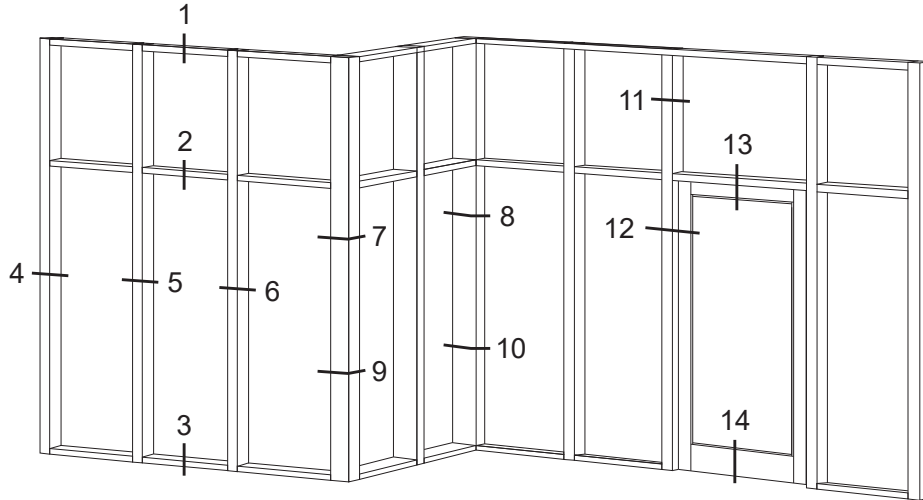


SECTION 3D
O.G. RIBBON SILL

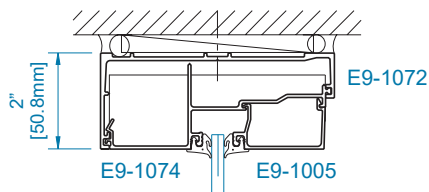
SCALE: 1/4 SIZE



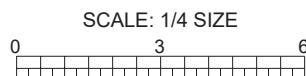
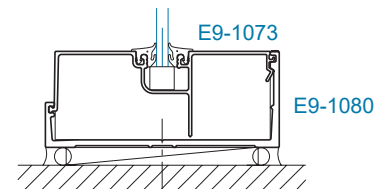
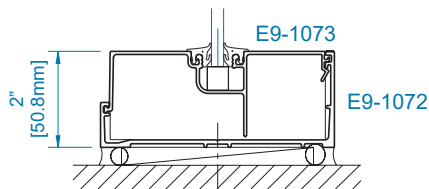
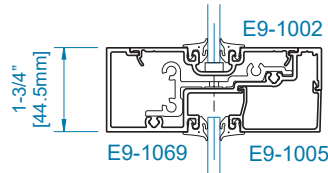
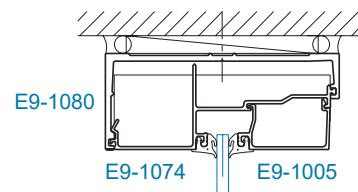
YES 45 FS CAN/RIBBON FRAMING MEMBERS



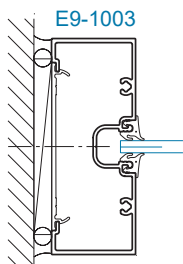
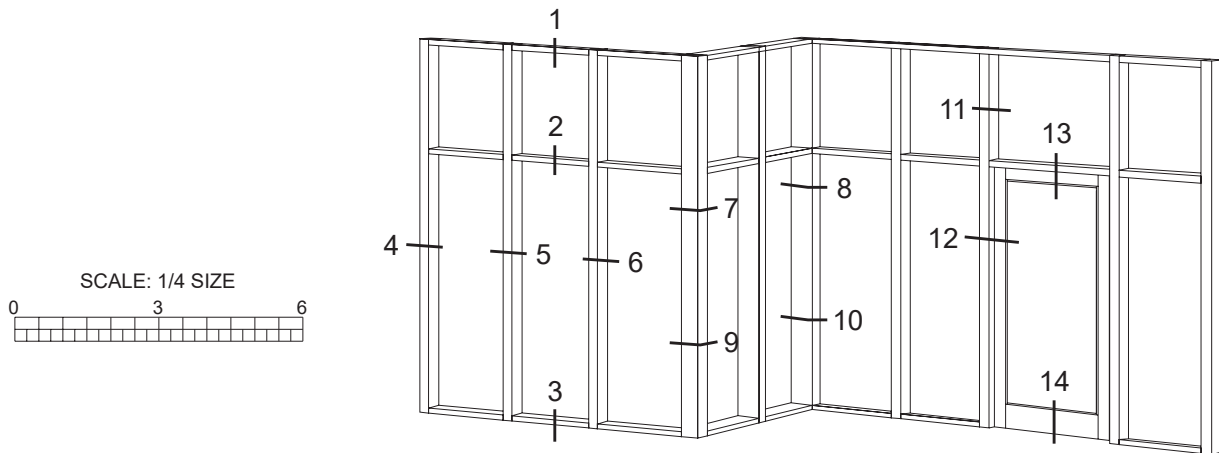
STANDARD



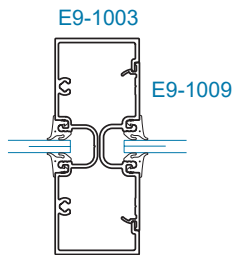
HEAVY DUTY



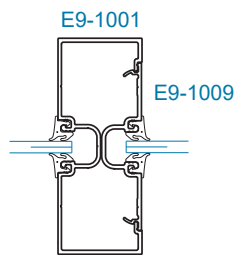
YES 45 FS FRAMING MEMBERS



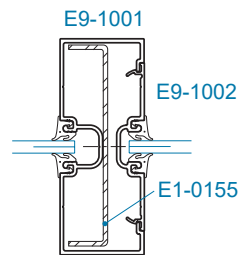
SECTION 4
JAMB



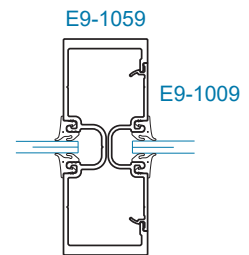
SECTION 5
VERTICAL



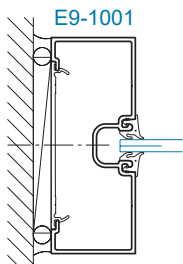
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VERTICAL



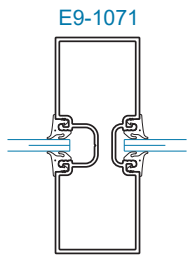
SECTION 5B
VERTICAL W/
STEEL REINFOR.



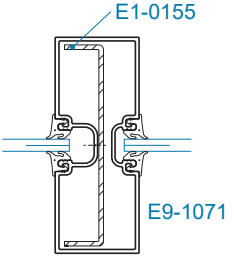
SECTION 5C
HEAVY DUTY
VERTICAL



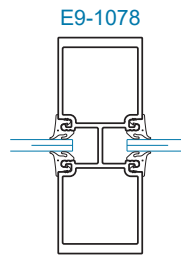
SECTION 4A
JAMB



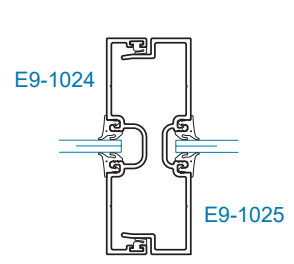
SECTION 5D
TUBULAR
VERTICAL



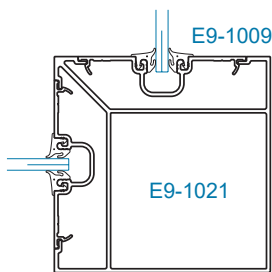
SECTION 5E
VERTICAL W/
STEEL REINFORING



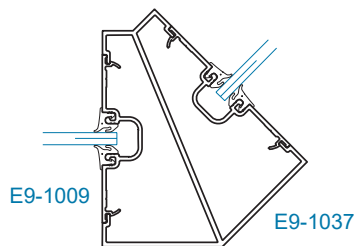
SECTION 5F
HEAVY DUTY
TUBULAR VERTICAL



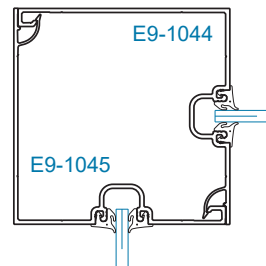
SECTION 6
EXPANSION
MULLION



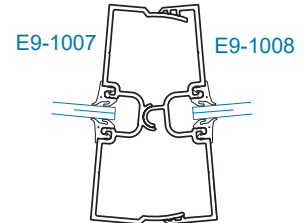
SECTION 7
90° OUTSIDE CORNER



SECTION 7A
135° OUTSIDE CORNER

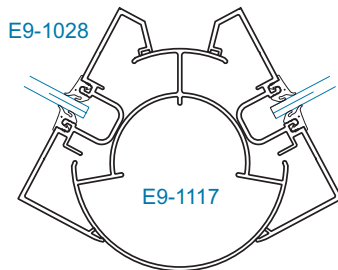
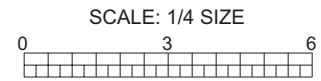
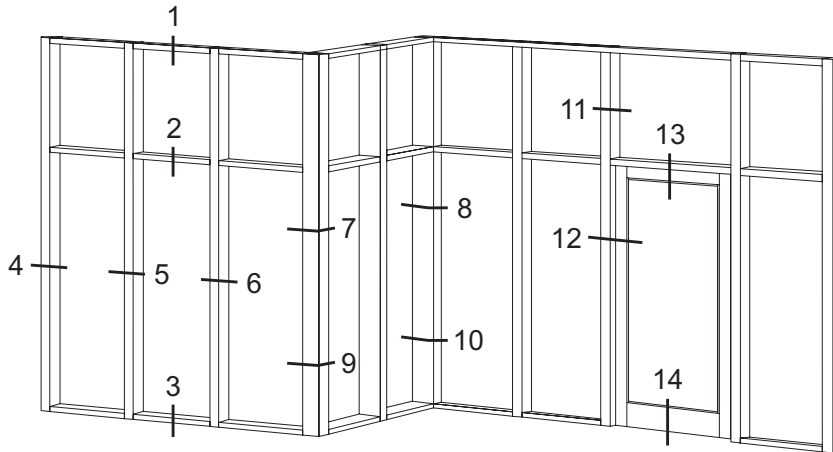


SECTION 8
90° INSIDE CORNER

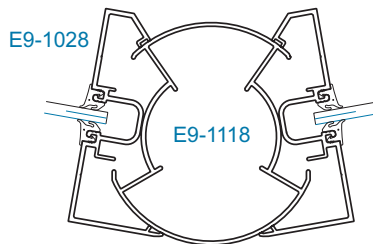


SECTION 9
0° - 15° HINGED
MULLION

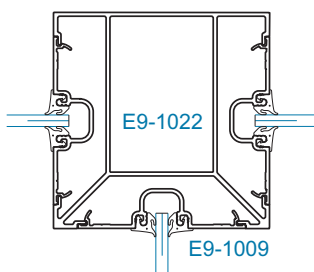
YES 45 FS FRAMING MEMBERS



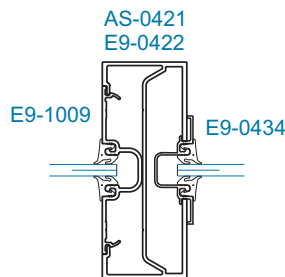
SECTION 9A
90°-133° FLEXIBLE
MULLION



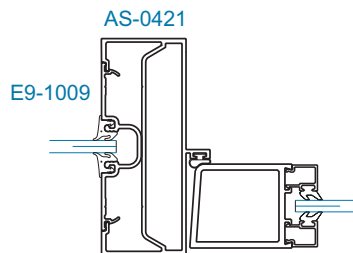
SECTION 9B
134°-170° FLEXIBLE
MULLION



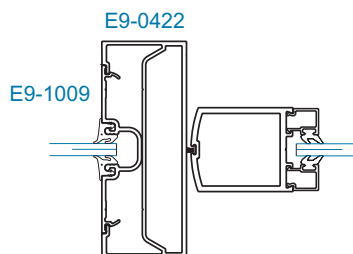
SECTION 10
THREE-WAY
90° CORNER



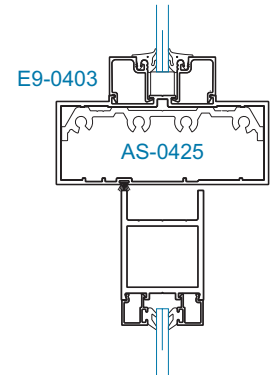
SECTION 11
DOOR JAMB @ TRANSOM



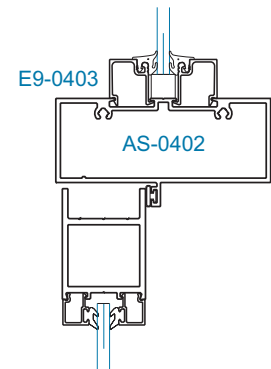
SECTION 12
SINGLE ACTING
DOOR JAMB



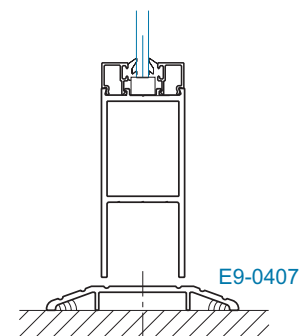
SECTION 12A
DOUBLE ACTING
DOOR JAMB



SECTION 13A
DOUBLE ACTING
TRANSOM BAR



SECTION 13
SINGLE ACTING
TRANSOM BAR



SECTION 14
BOTTOM RAIL

YES 45 FS WIND LOAD CHARTS

DEFLECTION CRITERIA: AAMA TIR-A11 - L/175 or

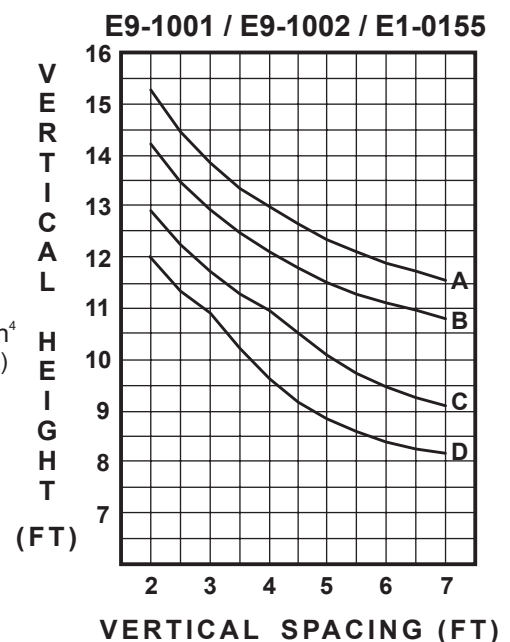
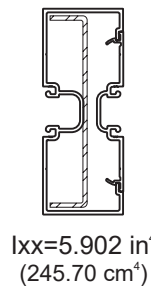
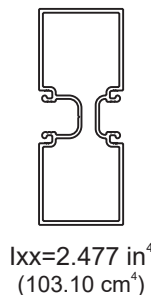
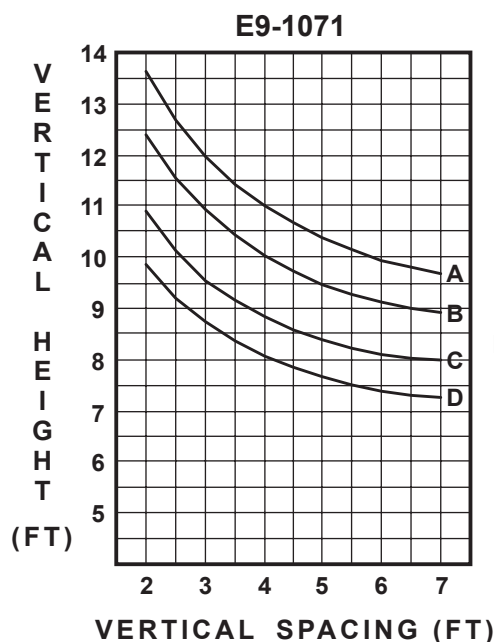
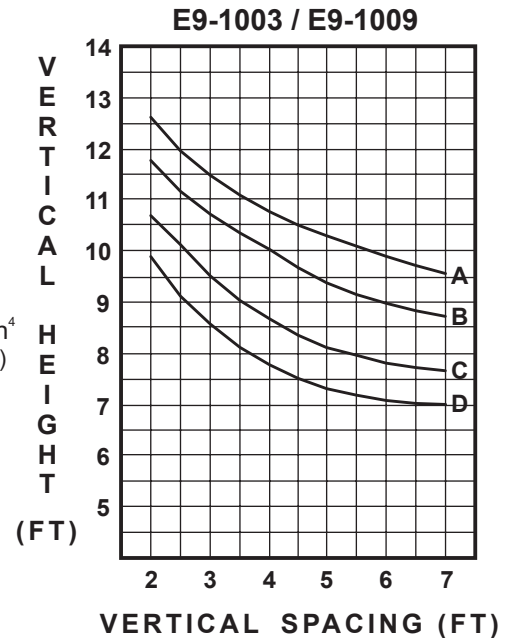
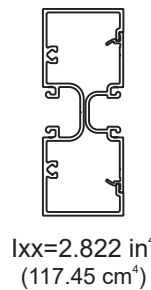
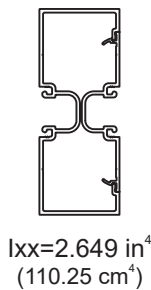
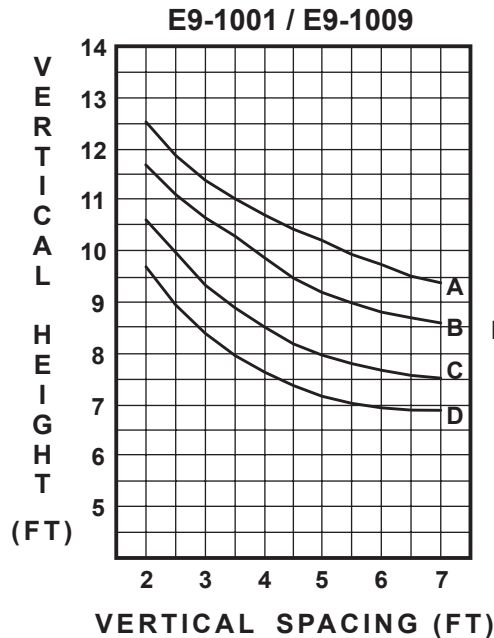
L/240 + 1/4" (6.4mm) - FOR SPANS GREATER THAN 13'-6" (4.1m) BUT LESS THAN 40'-0" (12.2m)

CODES AND SPECIFICATIONS MAY VARY, NO SINGLE LITE OF GLASS SHALL DEFLECT MORE THAN 3/4" (19.1mm)

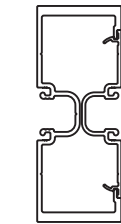
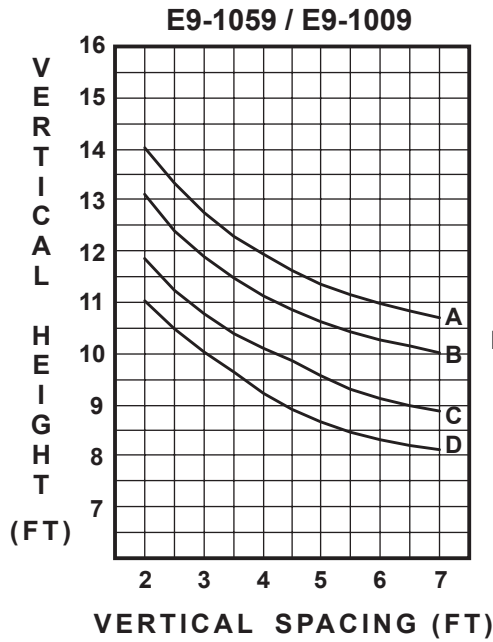
ALLOWABLE WIND LOAD STRESS

YKK AP tested standard. Contact YKK AP for more information.

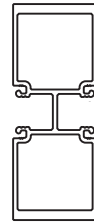
These charts include unbraced length analysis and are based off at least one horizontal being placed at the midpoint of the span. For other applications, please contact YKK AP engineers at 1-866-955-2732.



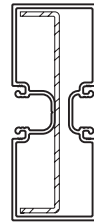
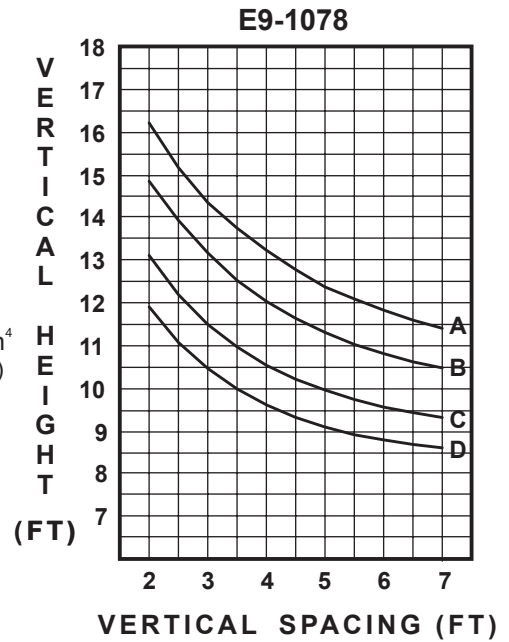
YES 45 FS WIND AND DEAD LOAD CHARTS



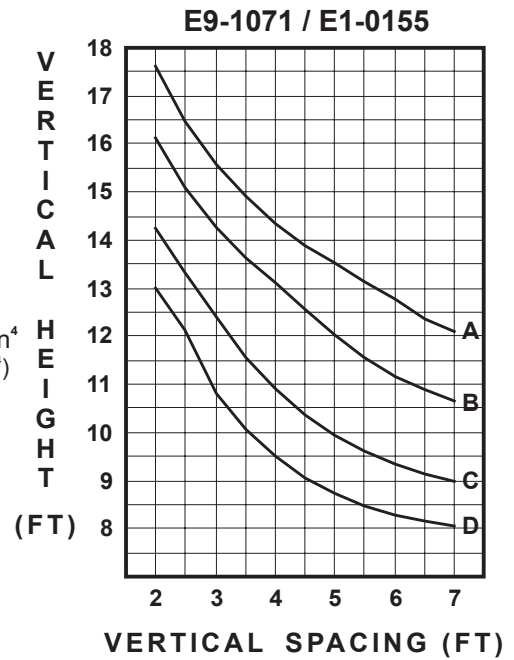
$I_{xx}=4.560 \text{ in}^4$
(189.80 cm^4)



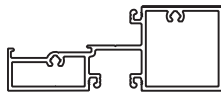
$I_{xx}=4.372 \text{ in}^4$
(181.98 cm^4)



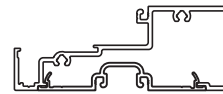
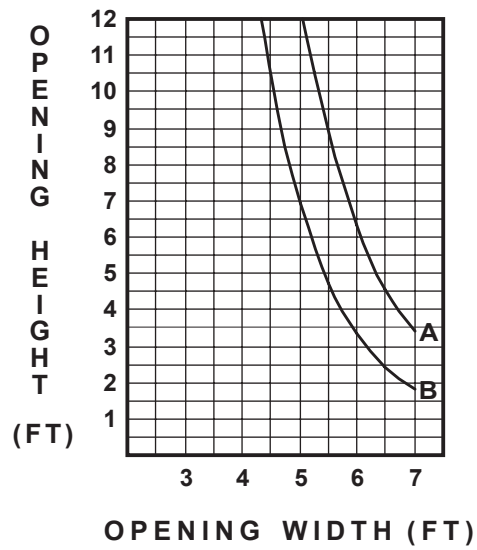
$I_{xx}=5.734 \text{ in}^4$
(238.65 cm^4)



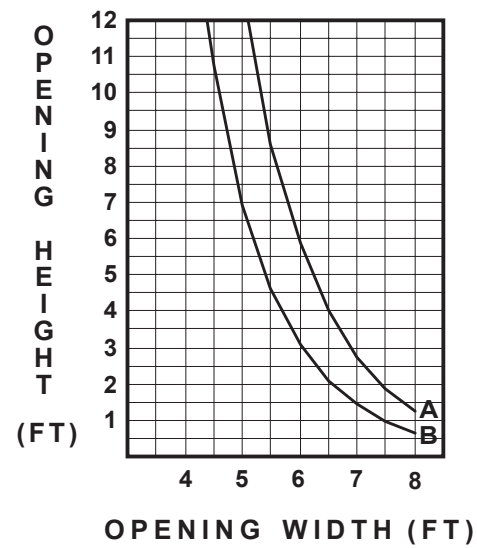
YES 45 FS DEAD LOAD CHARTS



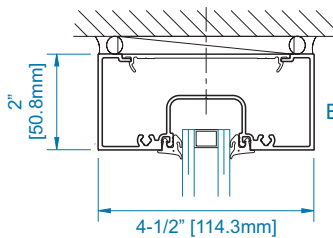
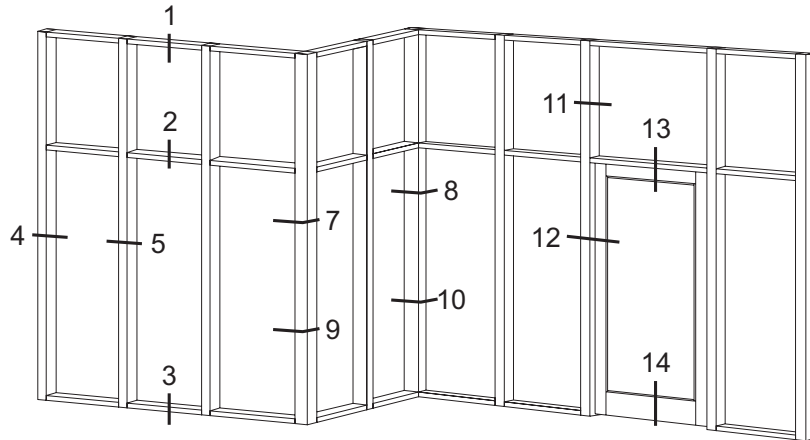
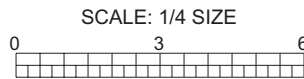
E9-1006



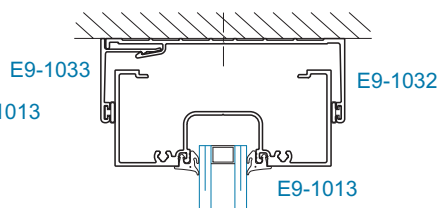
E9-1069 / E9-1002



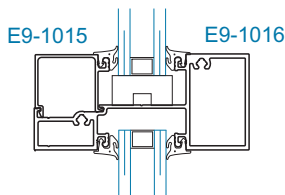
YES 45 FI FRAMING MEMBERS



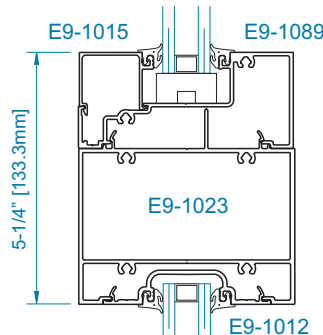
SECTION 1
HEAD



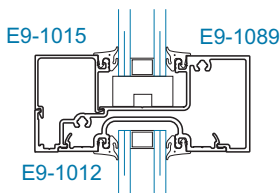
SECTION 1A
HEAD RECEPTOR



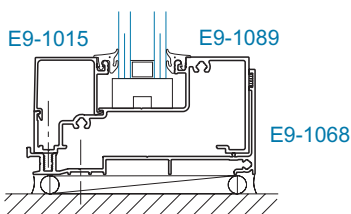
SECTION 2
HORIZONTAL



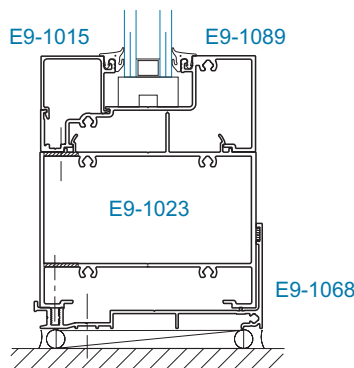
SECTION 2B
5-1/4" HORIZONTAL



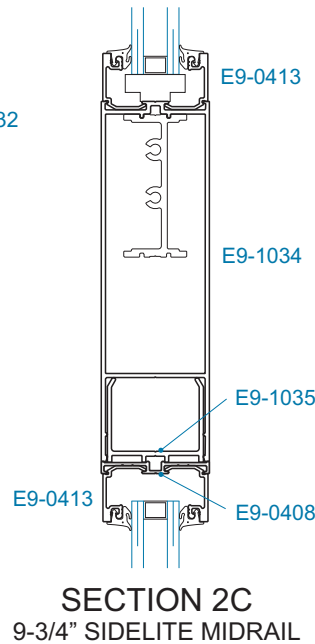
SECTION 2A
TWO PIECE HORIZONTAL



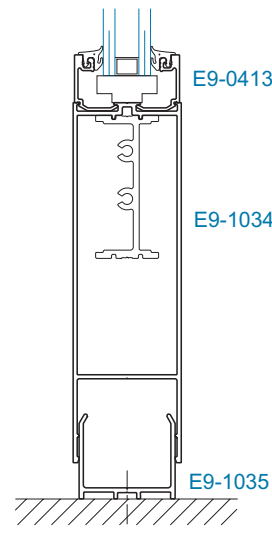
SECTION 3
SILL



SECTION 3A
5-1/4" SILL

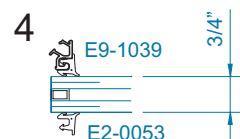
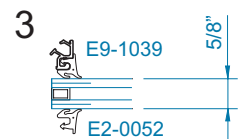
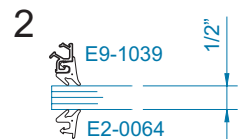
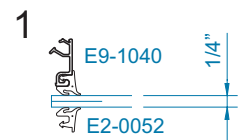


SECTION 2C
9-3/4" SIDELITE MIDRAIL

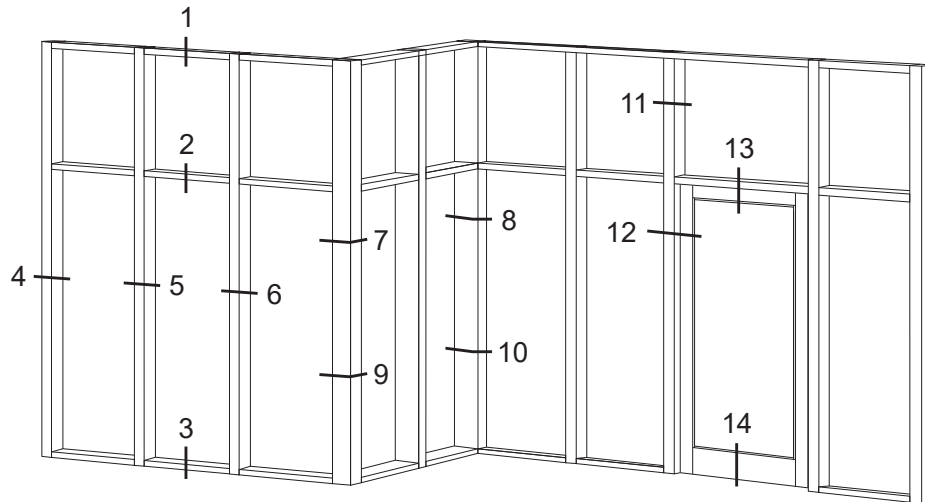


SECTION 3B
7-1/2" SIDELITE BASE

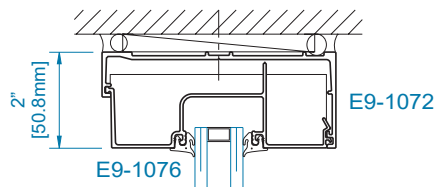
GLAZING OPTIONS



YES 45 FI CAN/RIBBON FRAMING MEMBERS

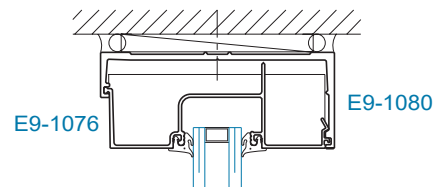


STANDARD

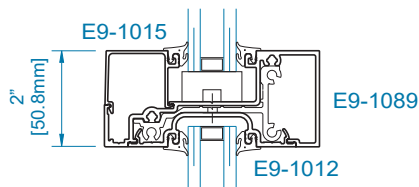


SECTION 1B
O.G. RIBBON HEAD

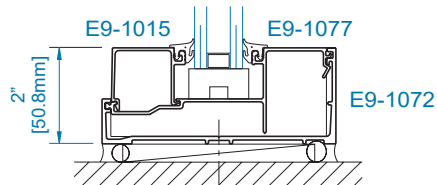
HEAVY DUTY



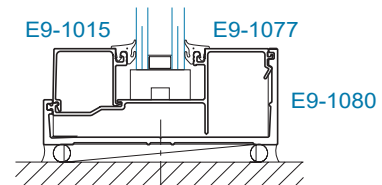
SECTION 1C
O.G. RIBBON HEAD



SECTION 2D
O.G. RIBBON
HORIZONTAL

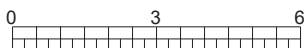


SECTION 3C
O.G. RIBBON SILL

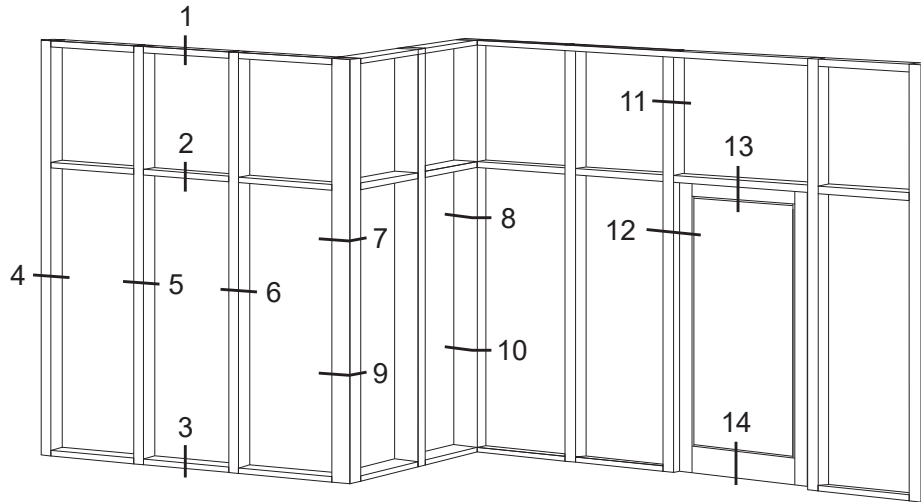


SECTION 3D
O.G. RIBBON SILL

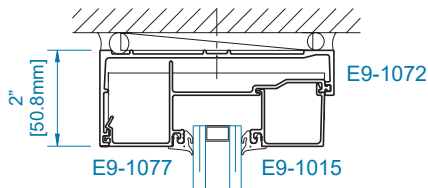
SCALE: 1/4 SIZE



YES 45 FI CAN/RIBBON FRAMING MEMBERS

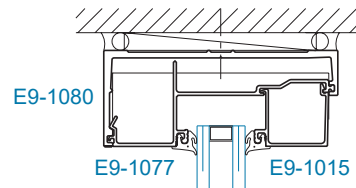


STANDARD

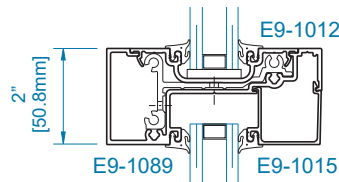


SECTION 1D
I.G. RIBBON HEAD

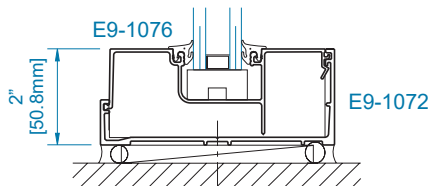
HEAVY DUTY



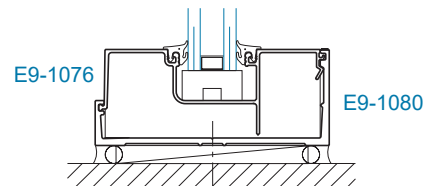
SECTION 1E
I.G. RIBBON HEAD



SECTION 2E
I.G. RIBBON
HORIZONTAL

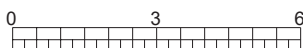


SECTION 3E
I.G. RIBBON SILL

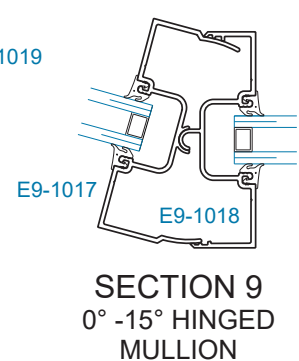
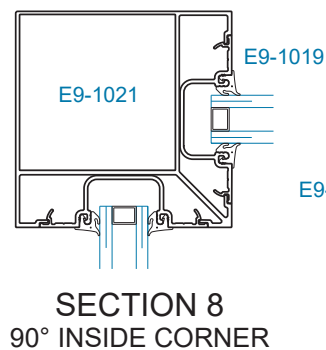
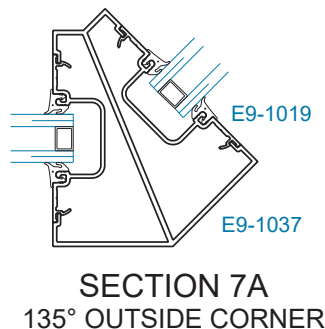
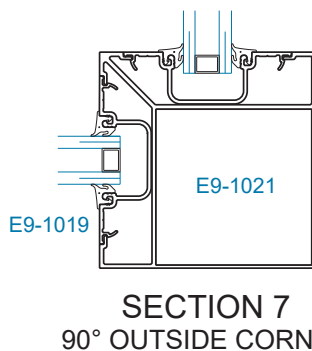
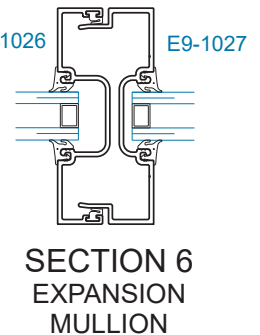
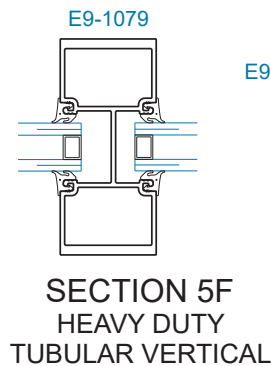
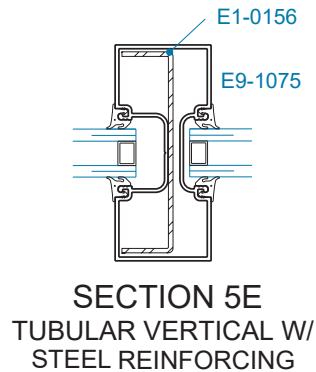
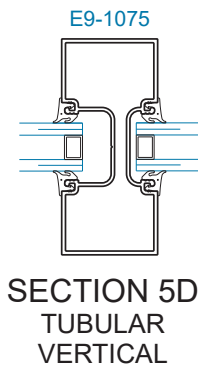
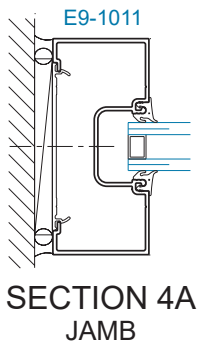
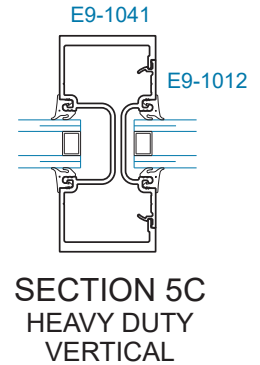
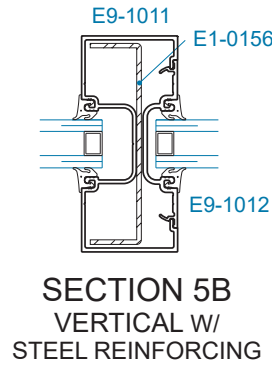
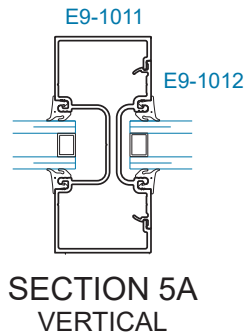
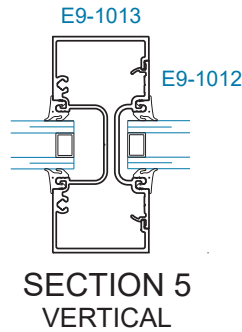
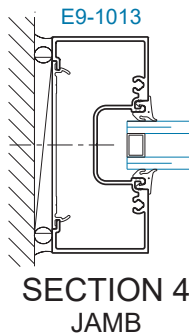
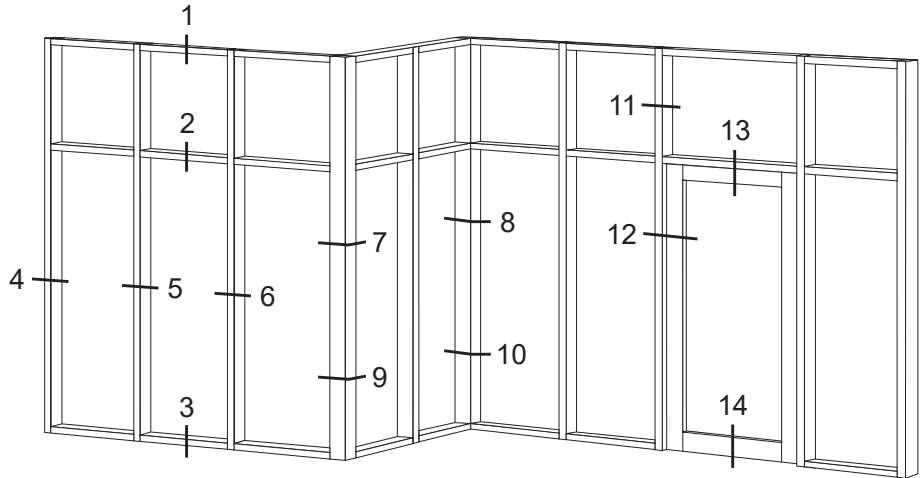
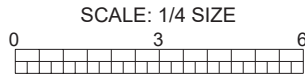


SECTION 3F
I.G. RIBBON SILL

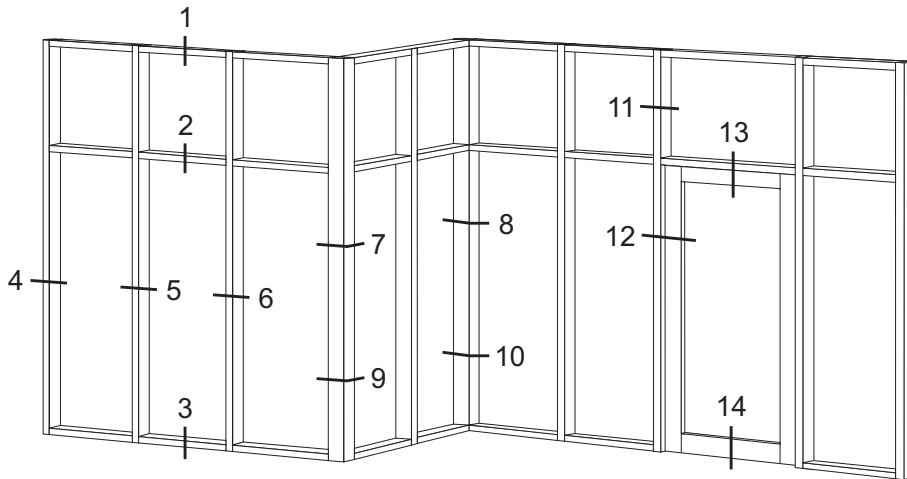
SCALE: 1/4 SIZE



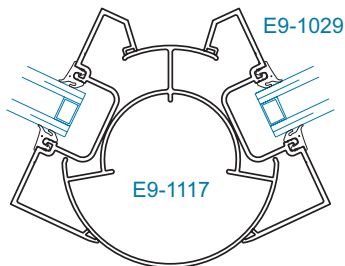
YES 45 FI FRAMING MEMBERS



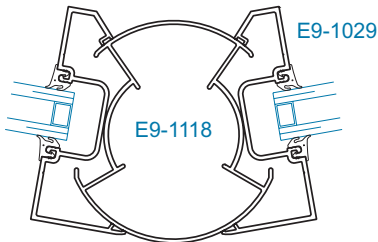
YES 45 FI FRAMING MEMBERS



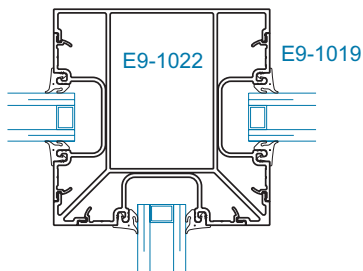
SCALE: 1/4 SIZE
0 3 6



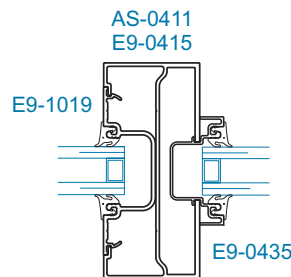
SECTION 9A
93°-133° FLEXIBLE MULLION



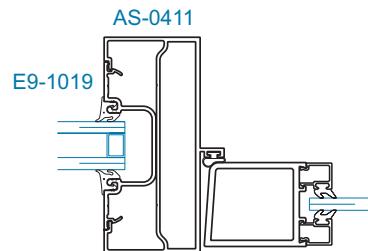
SECTION 9B
134°-170° FLEXIBLE MULLION



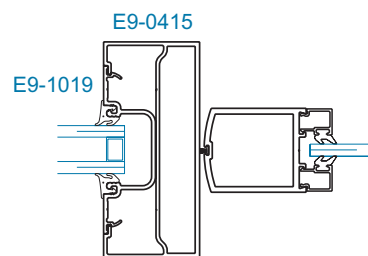
SECTION 10
THREE WAY
90° CORNER



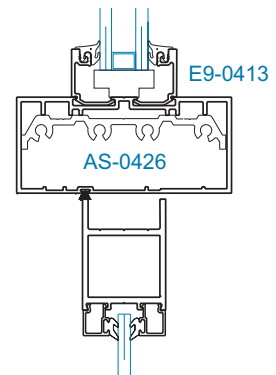
SECTION 11
DOOR JAMB @ TRANSOM



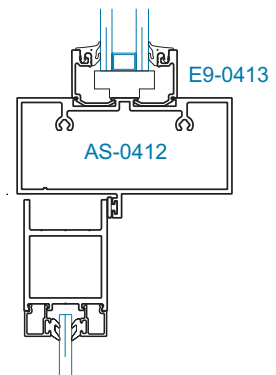
SECTION 12
SINGLE ACTING
DOOR JAMB



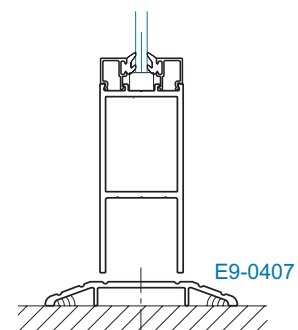
SECTION 12A
DOUBLE ACTING
DOOR JAMB



SECTION 13A
DOUBLE ACTING
TRANSOM BAR



SECTION 13
SINGLE ACTING
TRANSOM BAR



SECTION 14
BOTTOM RAIL

YES 45 FI WIND LOAD CHARTS

DEFLECTION CRITERIA: AAMA TIR-A11 - L/175 or

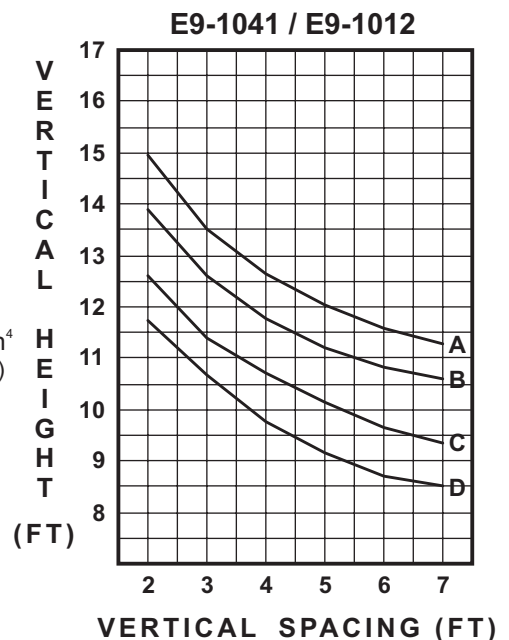
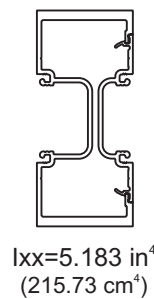
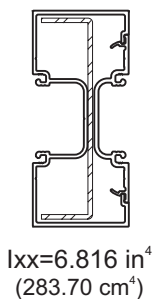
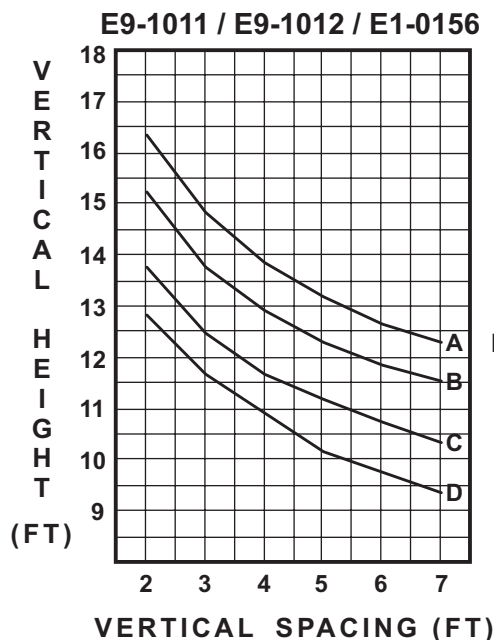
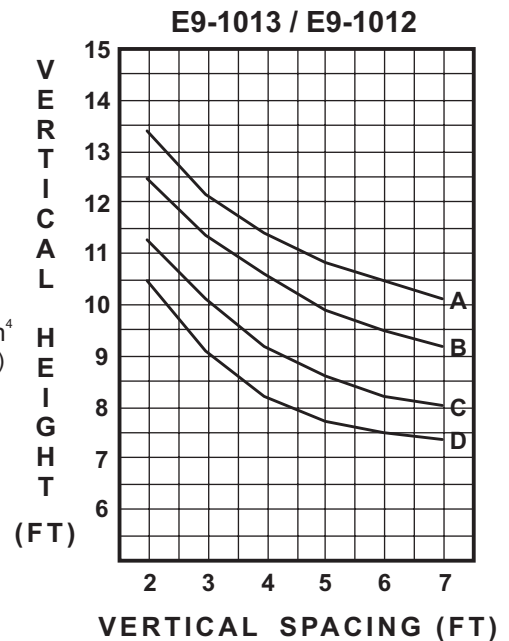
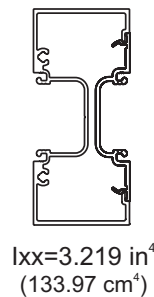
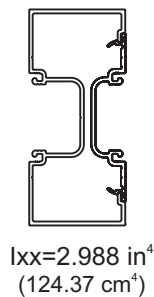
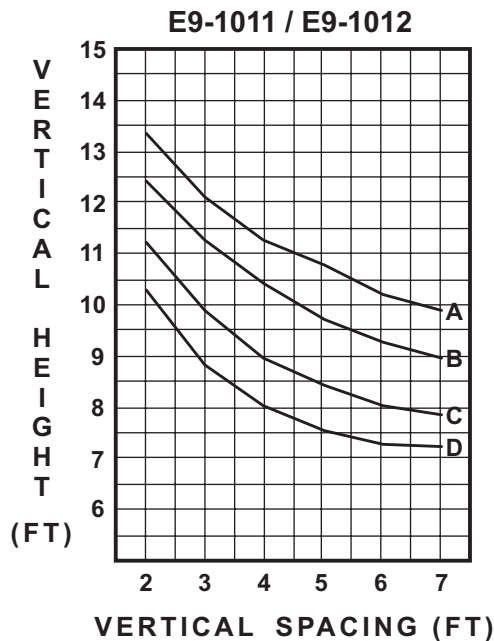
L/240 + 1/4" (6.4mm) - FOR SPANS GREATER THAN 13'-6" (4.1m) BUT LESS THAN 40'-0" (12.2m)

CODES AND SPECIFICATIONS MAY VARY, NO SINGLE LITE OF GLASS SHALL DEFLECT MORE THAN 3/4" (19.1mm)

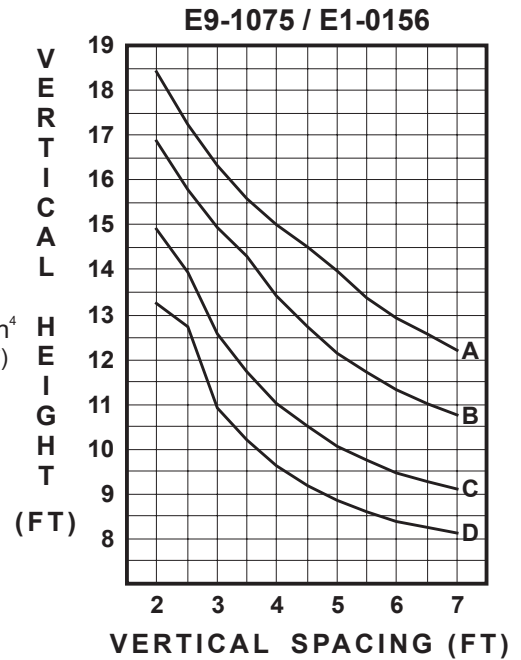
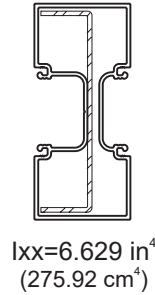
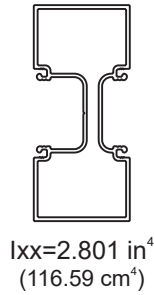
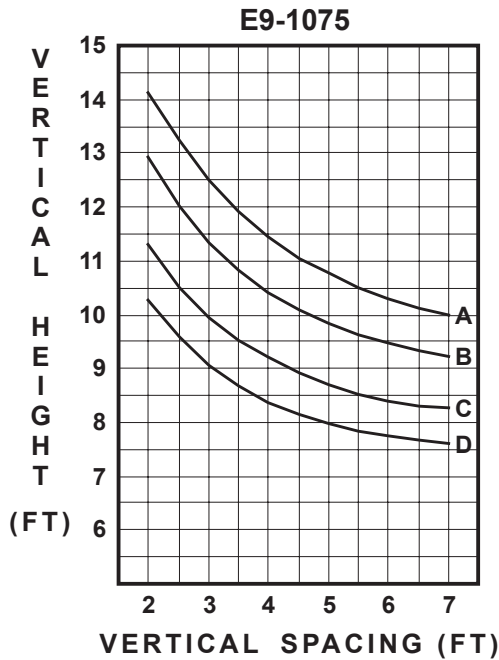
ALLOWABLE WIND LOAD STRESS

YKK AP tested standard. Contact YKK AP for more information.

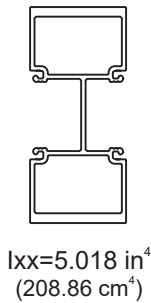
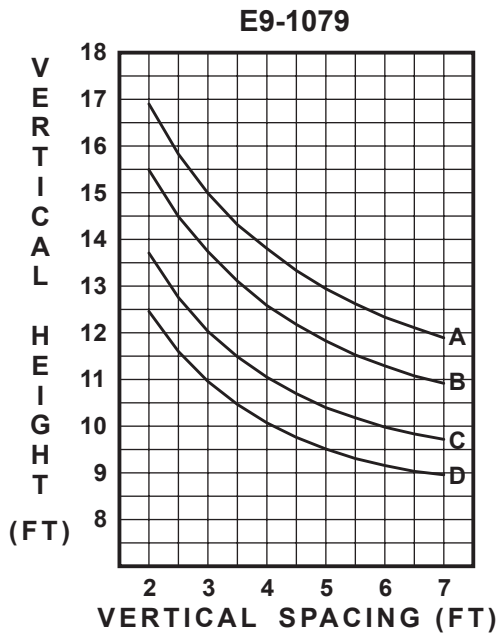
These charts include unbraced length analysis and are based off at least one horizontal being placed at the midpoint of the span. For other applications, please contact YKK AP engineers at 1-866-955-2732.



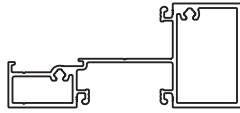
YES 45 FI WIND LOAD CHARTS



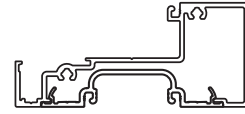
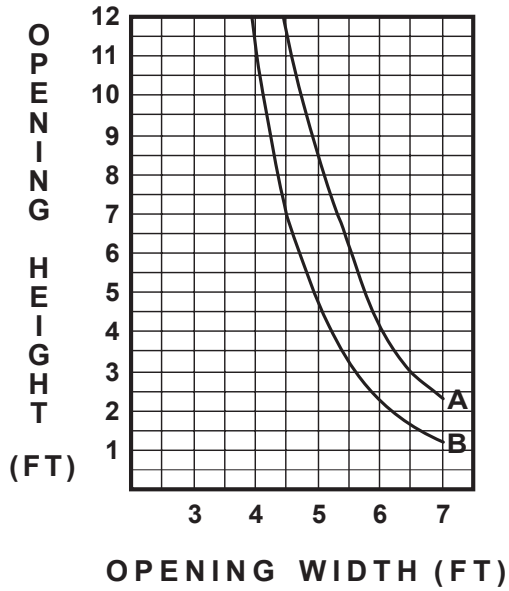
A=15 PSF (720 Pa)
B=20 PSF (960 Pa)
C=30 PSF (1440 Pa)
D=40 PSF (1920 Pa)



YES 45 FI DEAD LOAD CHARTS



E9-1016



E9-1089 / E9-1012

