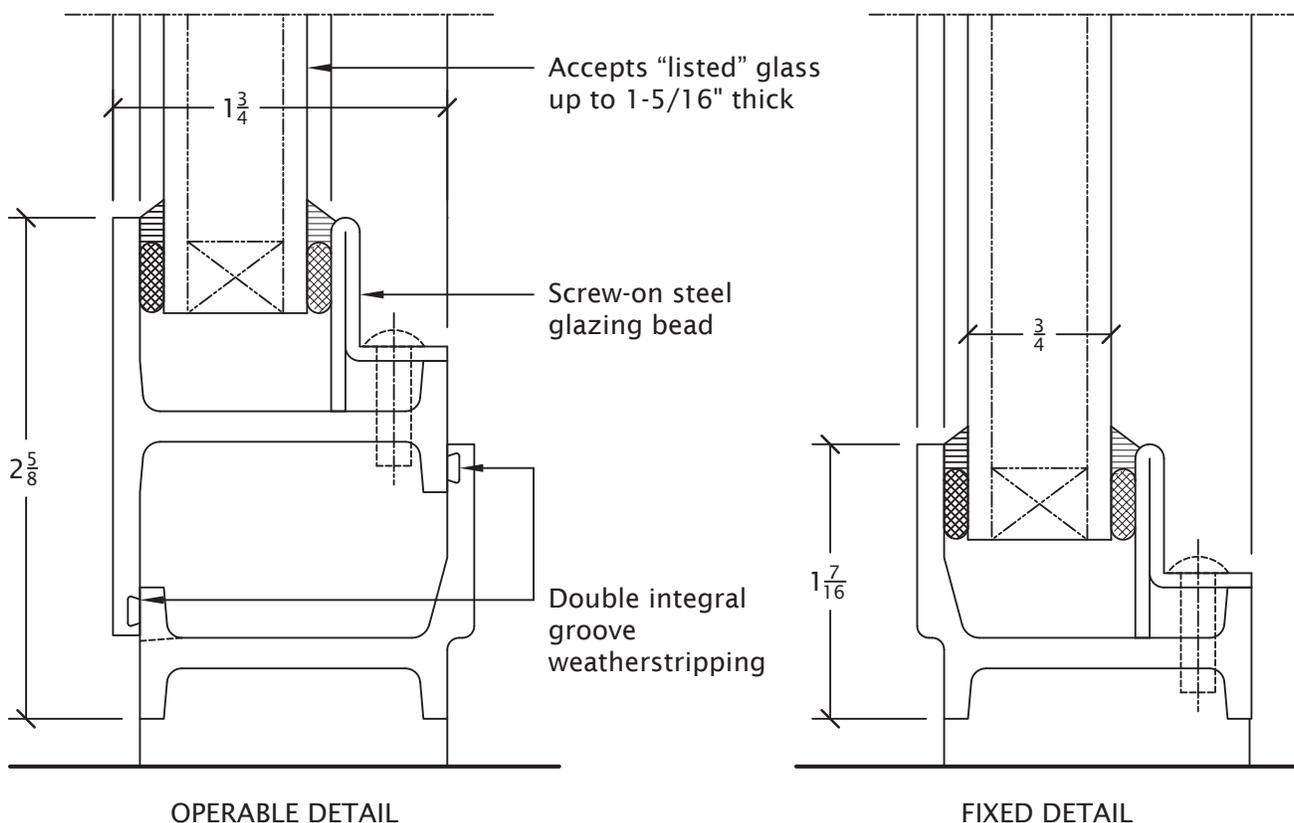


PRODUCT FEATURES

- Fire tested for 45 minutes with hose stream for positive pressure
- Tested in accordance with the following standards: UBC 7-2 (1997), UL10C and NFPA 252
- Underwritten by Warnock Hersey
- Solidly fusion welded corners for superior strength and water tightness
- Accepts "listed" glass up to 1-5/16" thick
- Double integral groove weatherstripping
- Solid bronze, self-closing and latching hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



Details are full scale.

OPENING SIZE

- Maximum Opening Area: 149 sq. ft.
- Maximum Dimension (HT): 10.96 ft. (131-1/2")
- Maximum Dimension (WD): 13.63 ft. (163-1/2")

The NFPA 80 standard indicates the maximum opening shall not exceed 84 sq. ft., however Hope's tested greater than 84 sq. ft., and therefore is listed to provide products as shown above.

The above opening specifications DO NOT require a fire-protected mullion. Exceeding the above opening specifications will require a fire-protected mullion.

SASH SIZE

- Maximum Sash Area: 55 sq. ft.
- Maximum Dimension (HT): 10.92 ft. (131")
- Maximum Dimension (WD): 8.27 ft. (99-1/4")

VENTILATOR SIZE

- Maximum Side Hung Casement: 38-1/8" (WD) x 72-3/8" (HT)
- Maximum Top Hung Casement: 58-3/8" (WD) x 60-1/8" (HT)

GLASS SIZE

The following maximum dimensions are Hope's window limitations for glass, based on actual fire testing using Pilkington Pyrostop® 3/4" glass. The final glass size must be determined between the glass manufacturer's size limitations and Hope's window limitations. The lesser of the two must be followed.

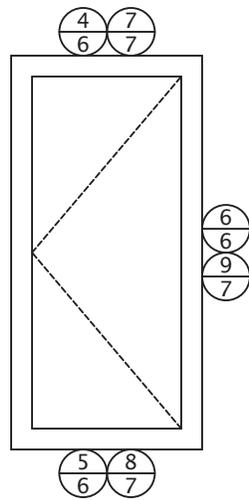
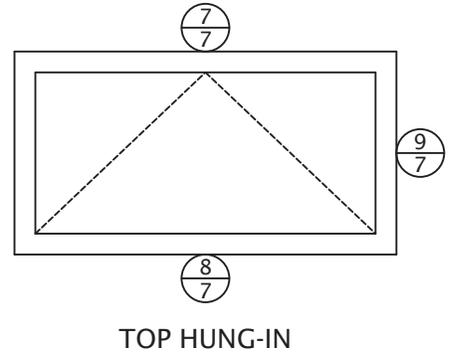
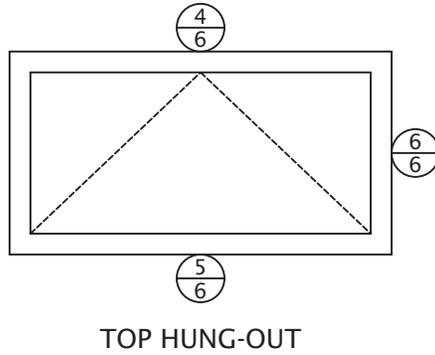
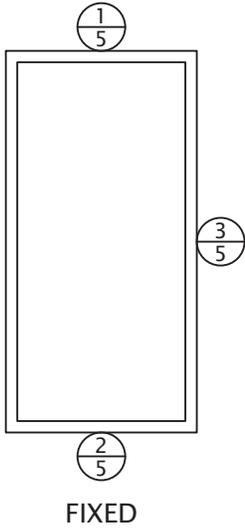
- Maximum Glass Area: 4,164 sq. in.
- Maximum Dimension (HT): 95-3/16"
- Maximum Dimension (WD): 58-5/8"

No combination of width and height dimensions can exceed 4,164 square inches. With 1/4" wire glass, no combination of width and height dimensions can exceed 1,296 square inches.

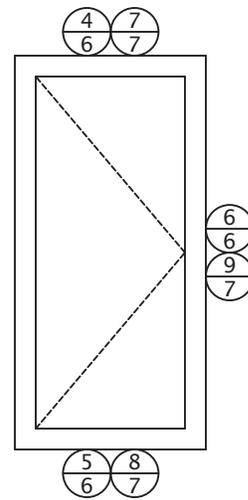
EXAMPLES

- If height is 95-3/16", then maximum width can be no greater than 43-3/4" to equal 4,164 sq. in.
- If width is 58-5/8", then maximum height can be no greater than 71" to equal 4,164 sq. in.

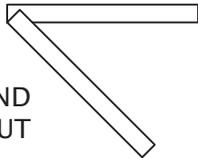
Consult Hope's for assistance in determining between the glass manufacturer's size limitations and Hope's window limitations.



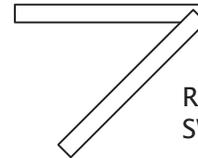
SIDE HUNG-IN
CASEMENT



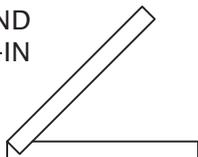
LEFT HAND
SWING-OUT



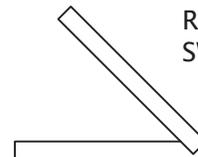
RIGHT HAND
SWING-OUT



LEFT HAND
SWING-IN

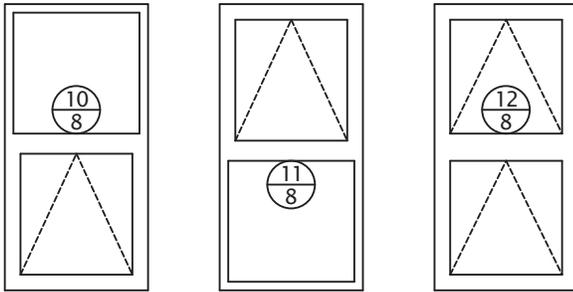


RIGHT HAND
SWING-IN

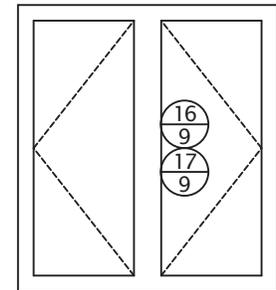
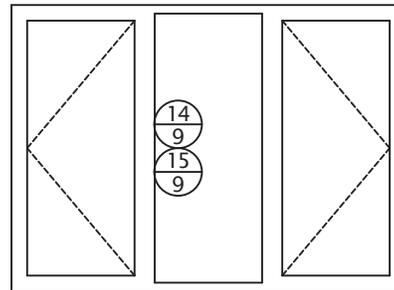
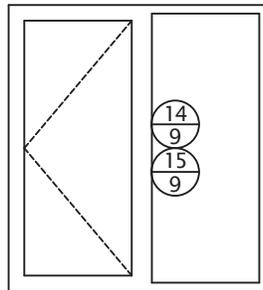
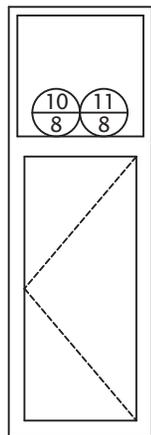
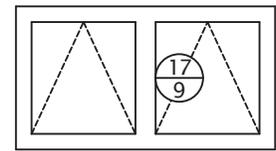
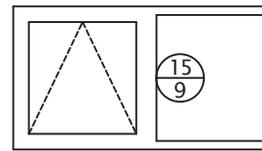
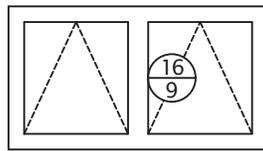
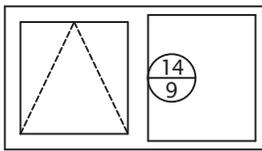
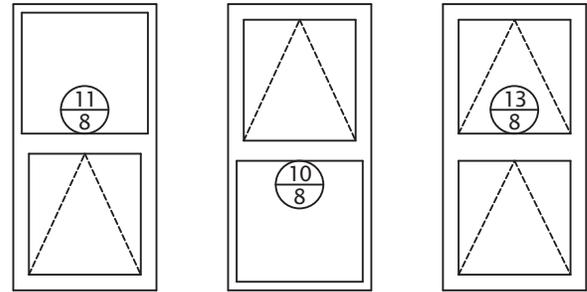


Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

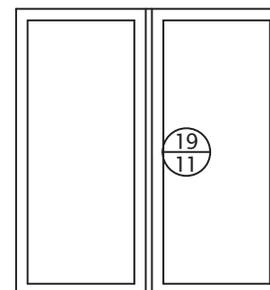
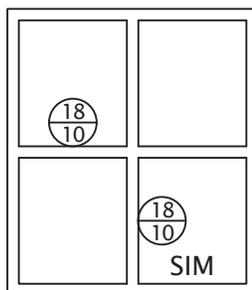
SWING-OUT



SWING-IN

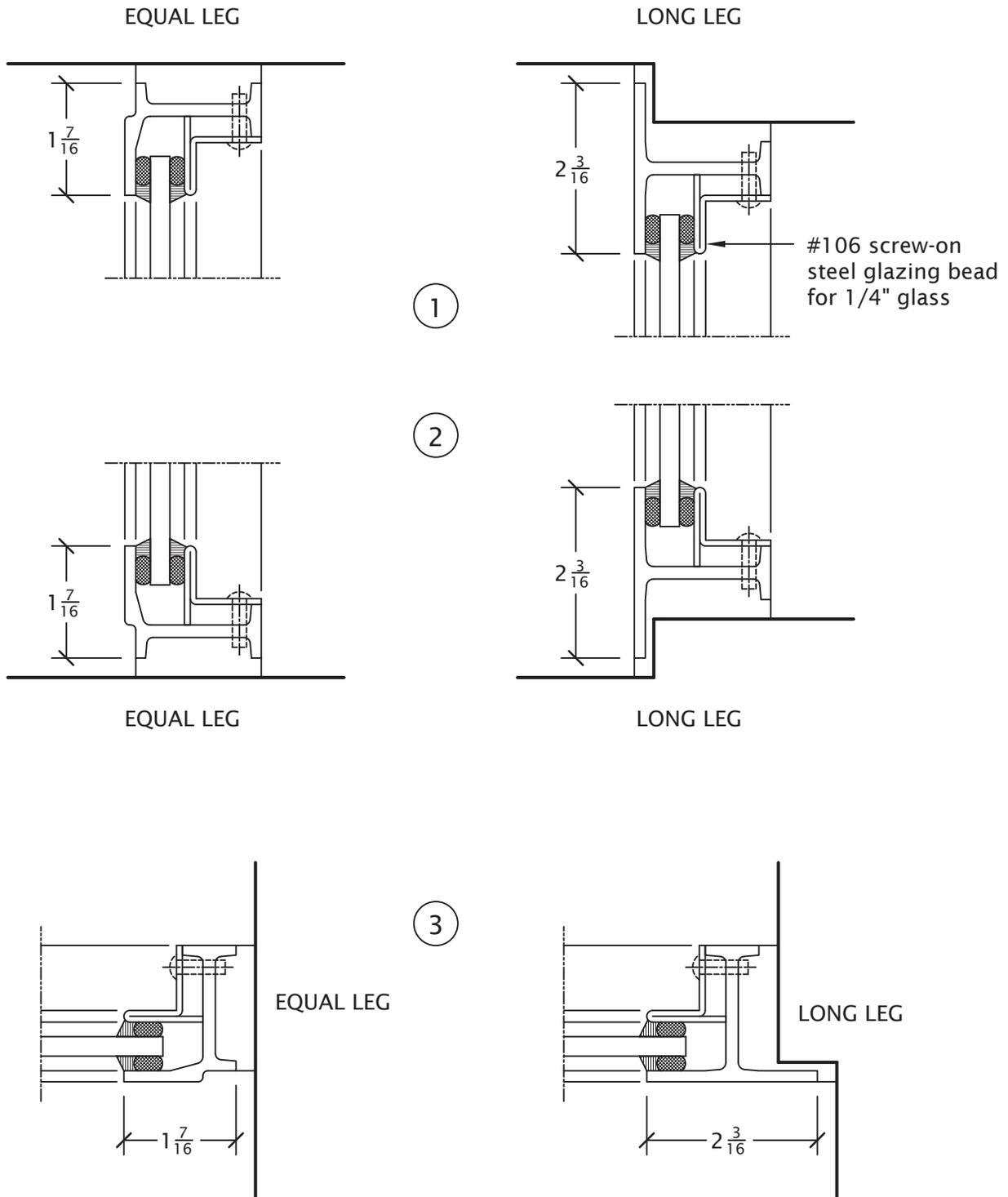


TRUE
DIVIDED
LITES (TDL)

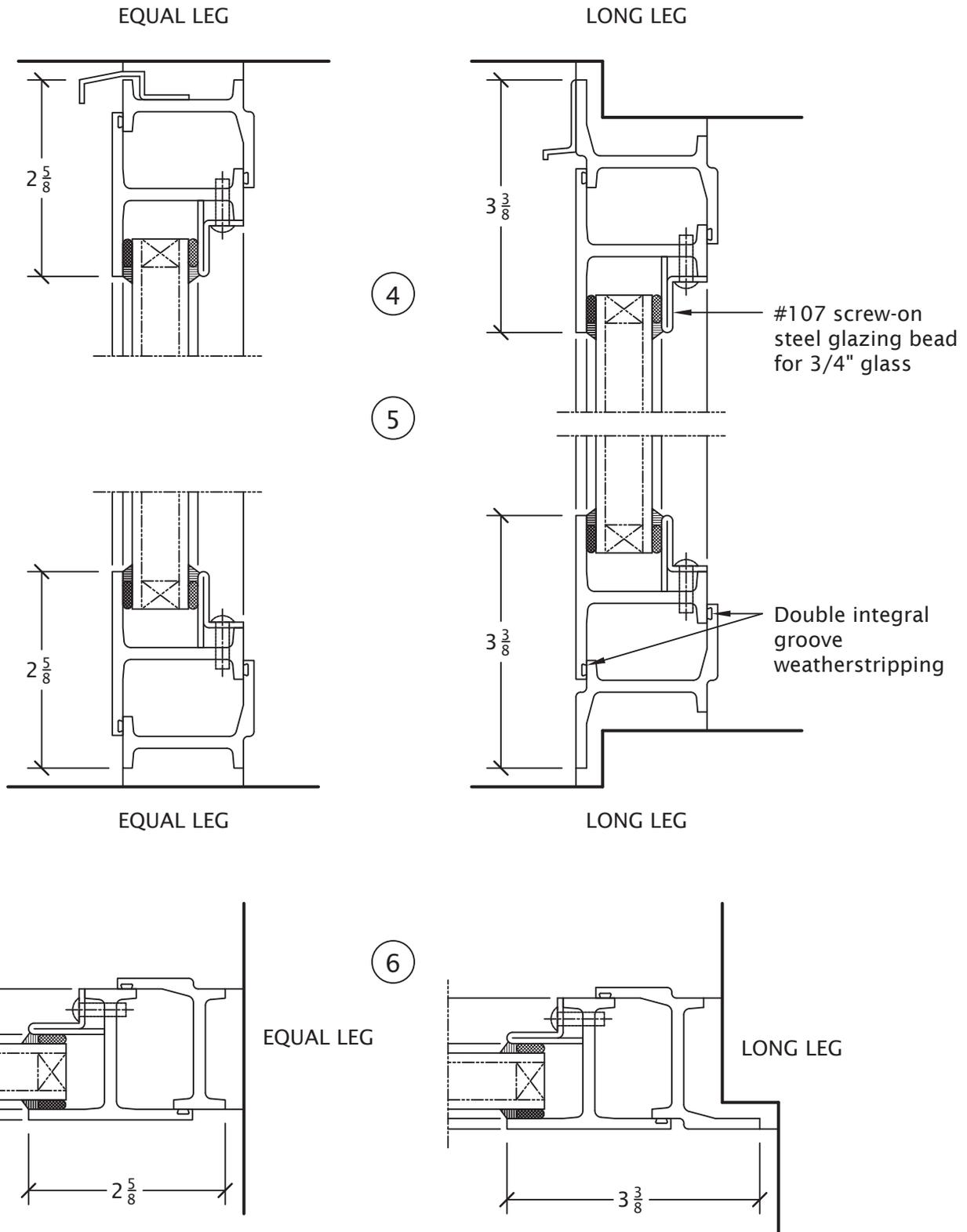


MULLION
DETAILS

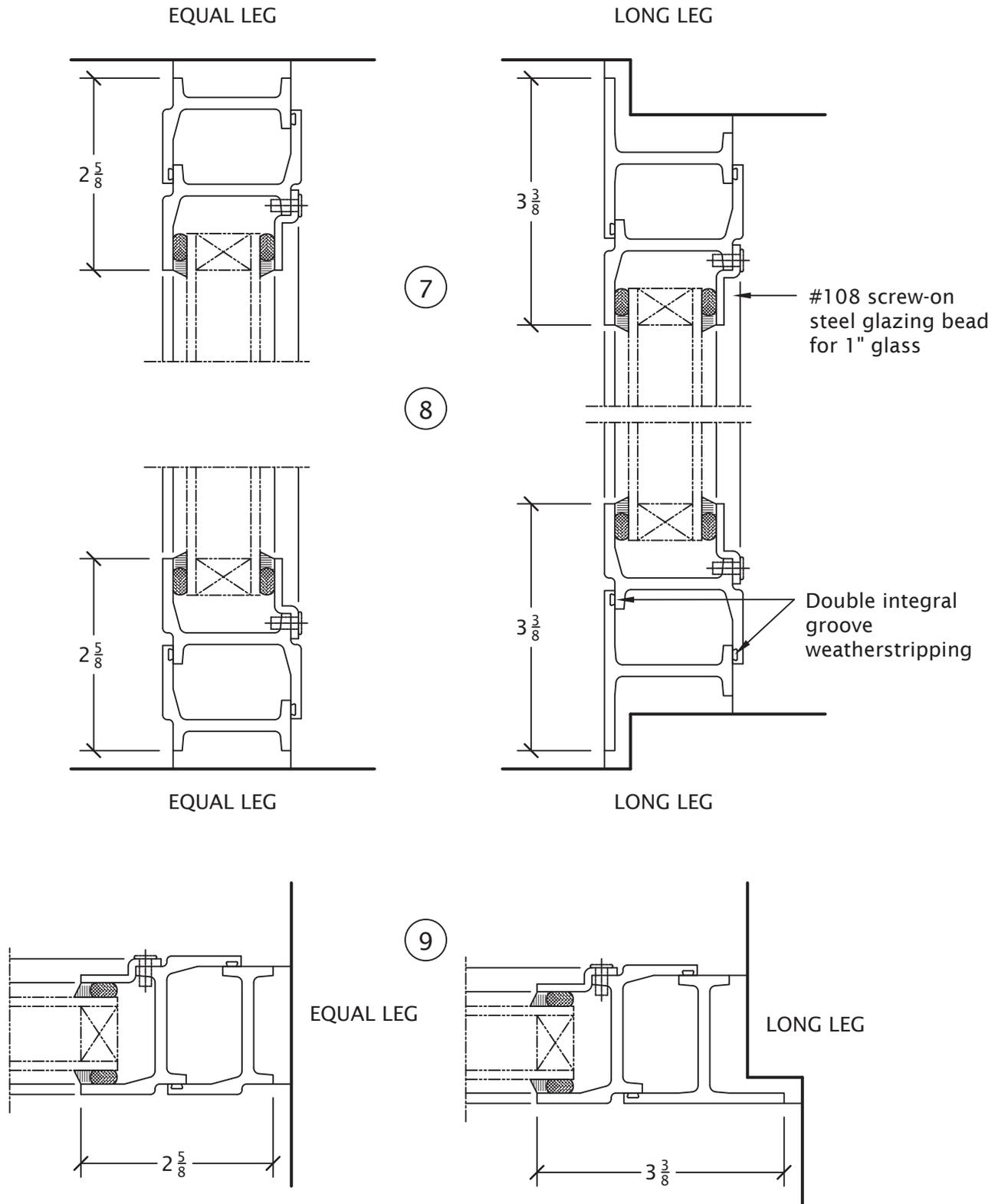
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



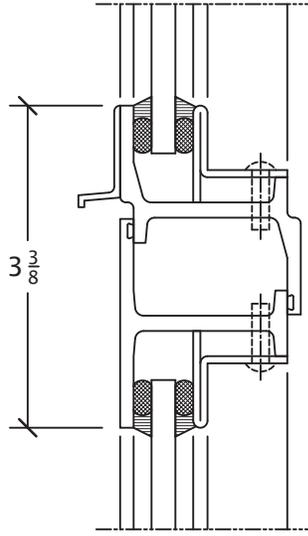
Details are half scale and shown inside glazed with 1/4" glass.
See page 12 for further glazing bead options.



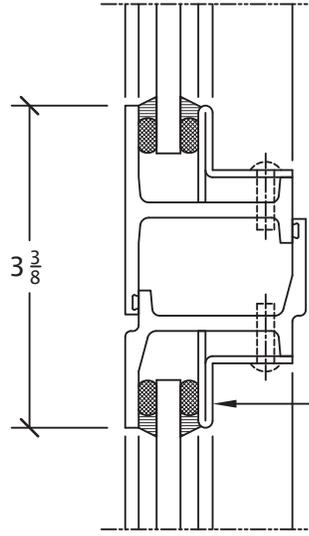
Details are half scale and shown inside glazed with 3/4" glass.
See page 12 for further glazing bead options.



Details are half scale and shown inside glazed with 1" glass.
See page 12 for further glazing bead options.

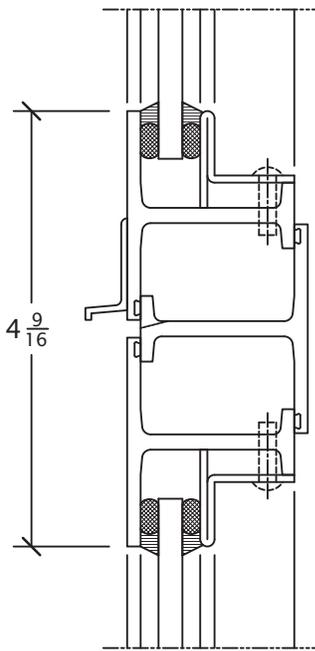


10

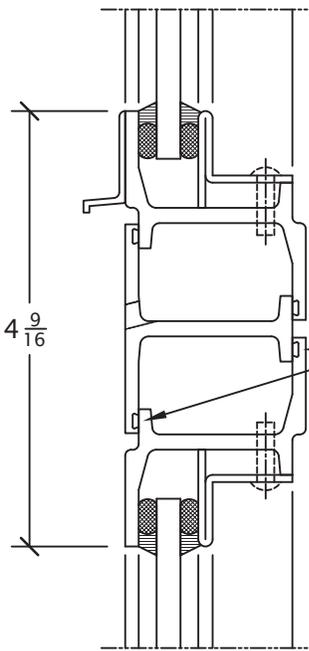


11

#106 screw-on
steel glazing bead
for 1/4" glass



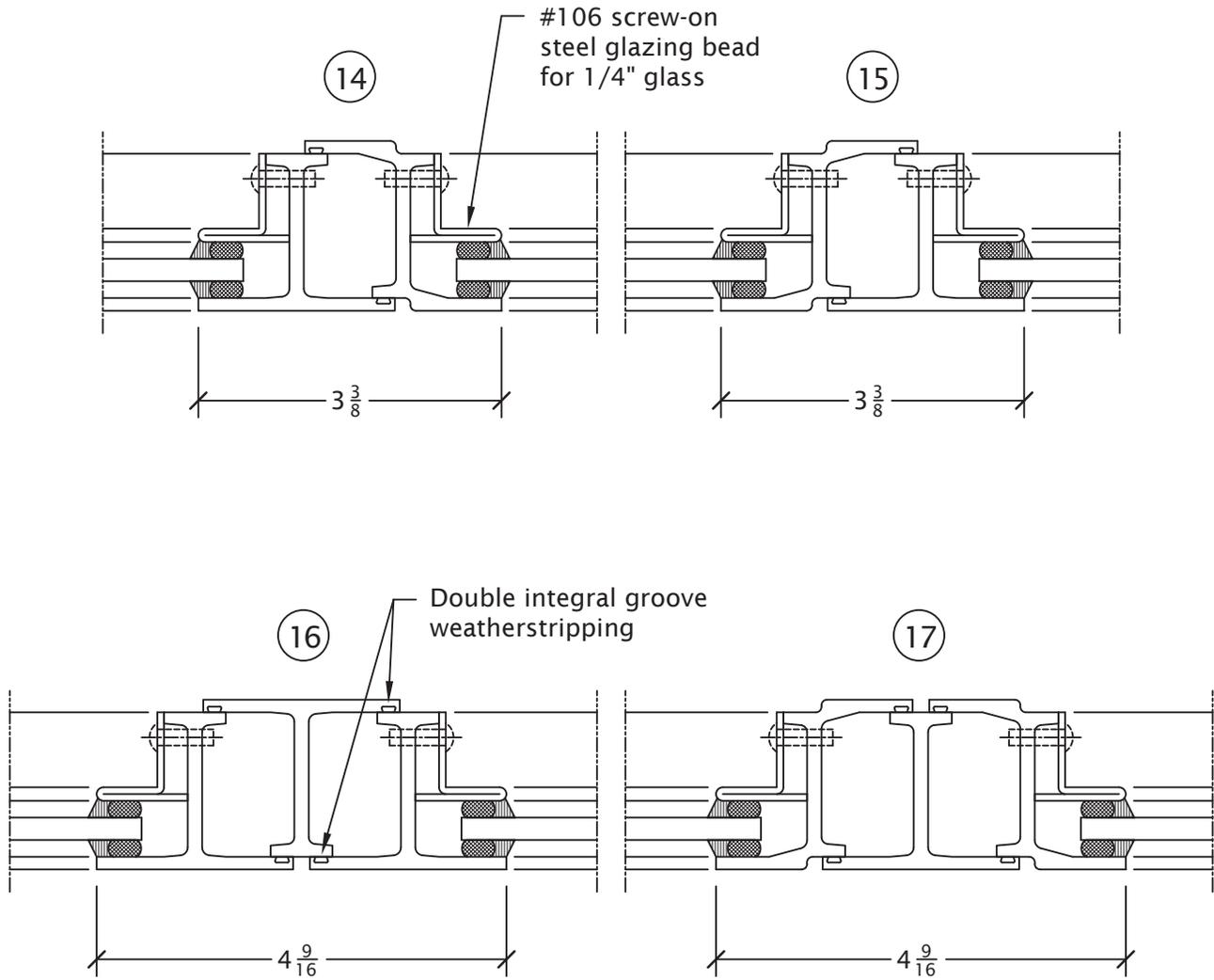
12



13

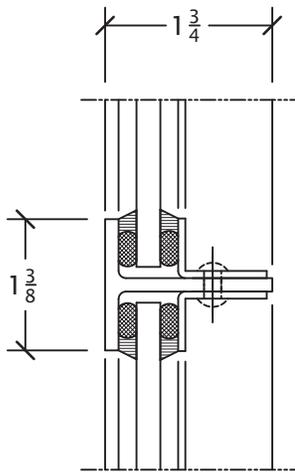
Double integral
groove
weatherstripping

Details are half scale and shown inside glazed with 1/4" glass.
See page 12 for further glazing bead options.

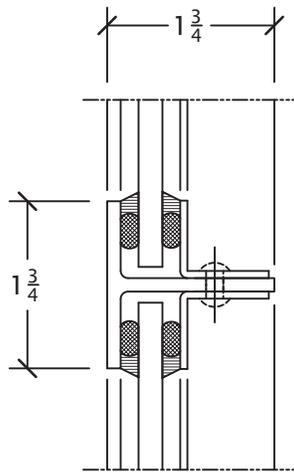


Details are half scale and shown inside glazed.
See page 12 for further glazing bead options.

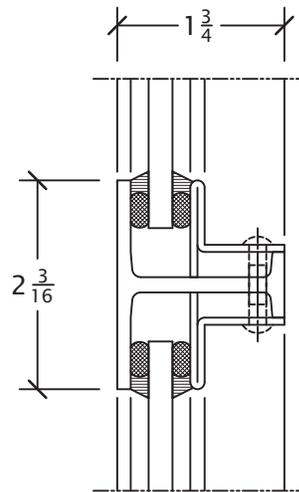
TRUE DIVIDED LITE MUNTINS (INSIDE GLAZED WITH 1/4" GLASS)



#T138L
ACCEPTS UP TO
3/4" GLASS



#T175L
ACCEPTS UP TO
3/4" GLASS

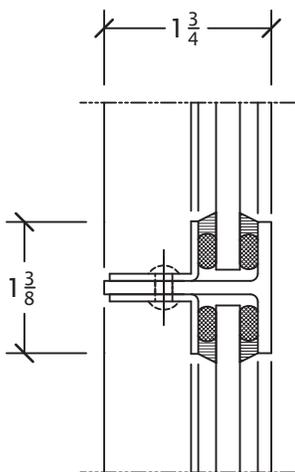


#T175M

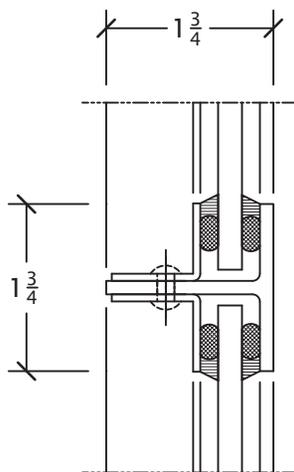
18

ALL DETAILS ON THIS SHEET

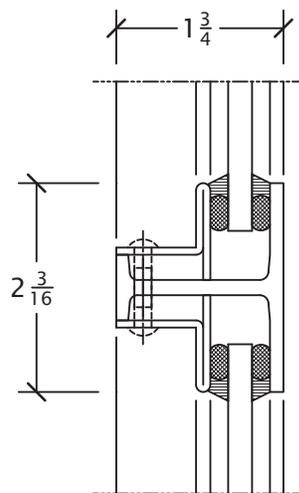
TRUE DIVIDED LITE MUNTINS (OUTSIDE GLAZED WITH 1/4" GLASS)



#T138L
ACCEPTS UP TO
3/4" GLASS

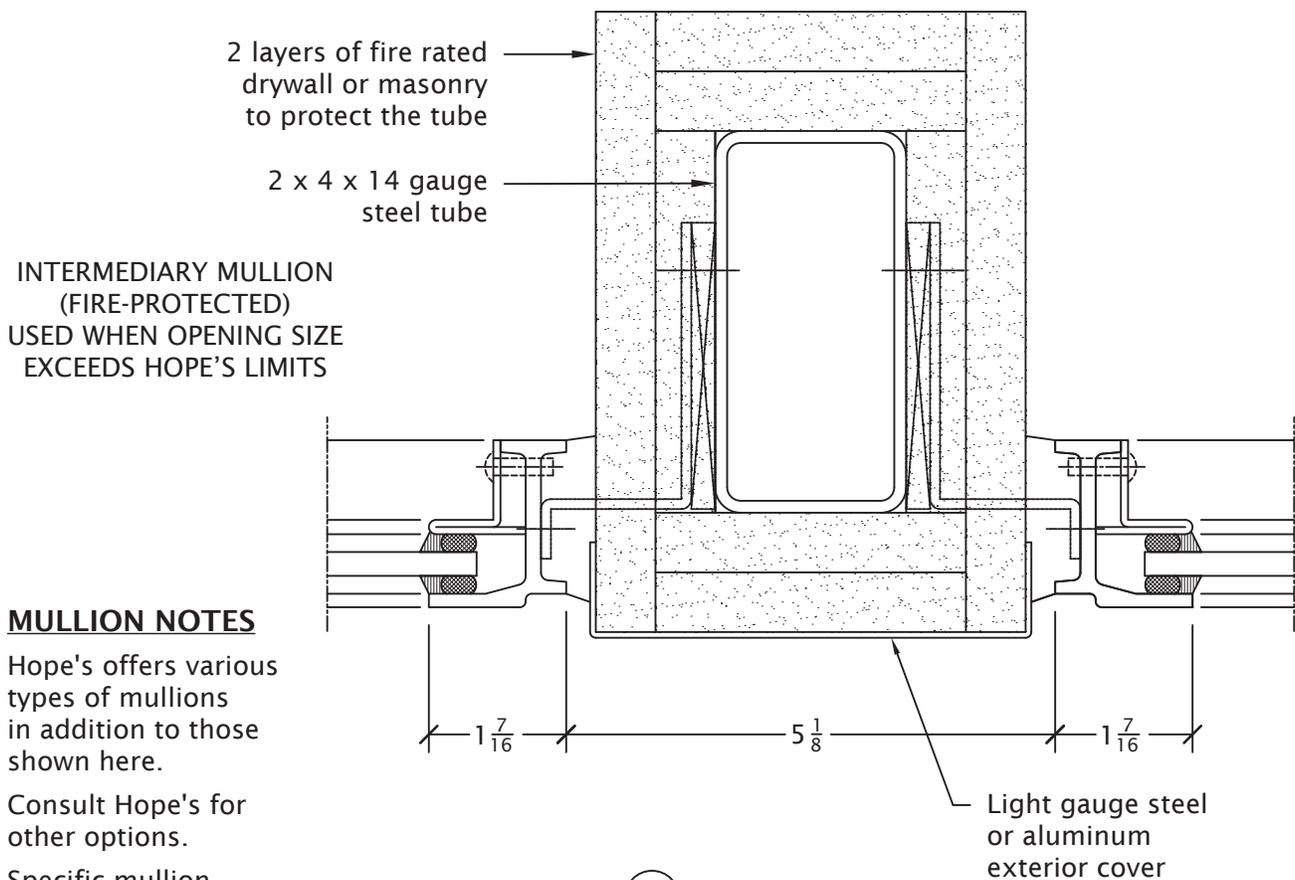
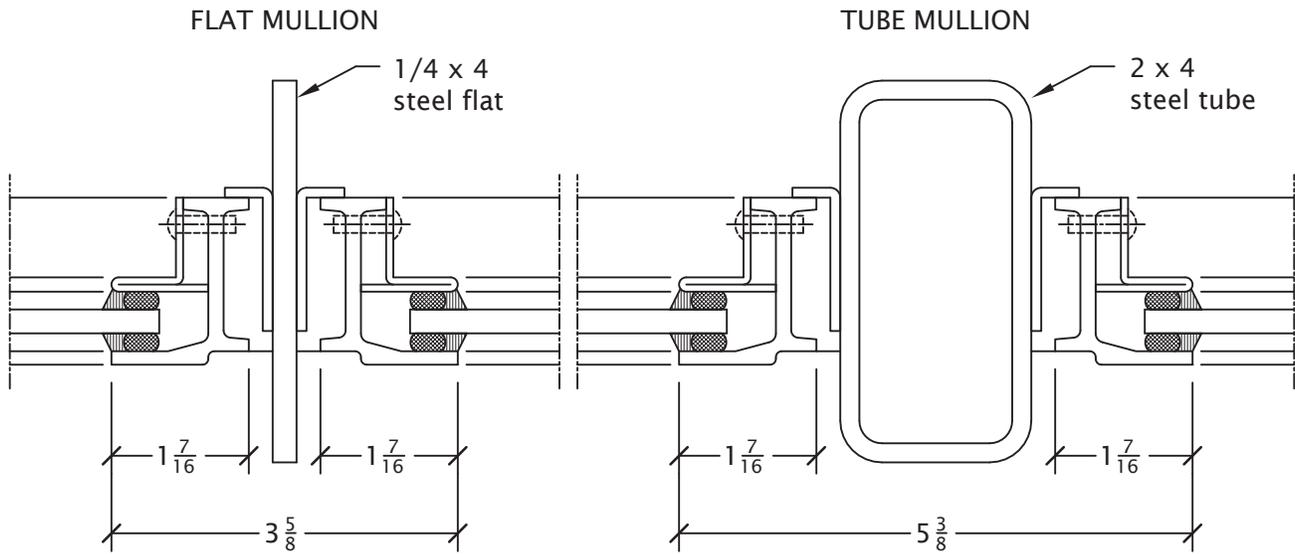


#T175L
ACCEPTS UP TO
3/4" GLASS



#T175M

Details are half scale and shown with 1/4" glass.



MULLION NOTES

Hope's offers various types of mullions in addition to those shown here.

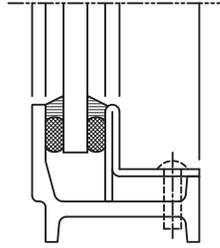
Consult Hope's for other options.

Specific mullion sizes can vary but must meet required windload design.

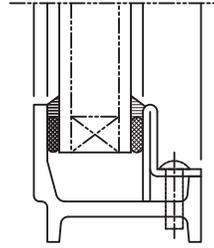
19

ALL DETAILS ON THIS SHEET

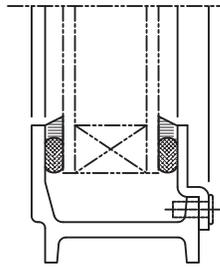
Details are half scale and shown inside glazed with 1/4" glass.
See page 12 for further glazing bead options.



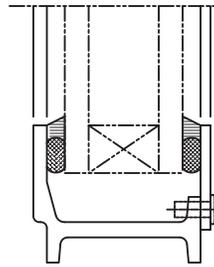
3/16" to 3/8" GLASS
#106 BEAD



1/2" to 3/4" GLASS
#107 BEAD



7/8" to 1-1/8" GLASS
#108 BEAD



1-3/16" to 1-5/16" GLASS
#109 BEAD

GLAZING BEAD NOTES

All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

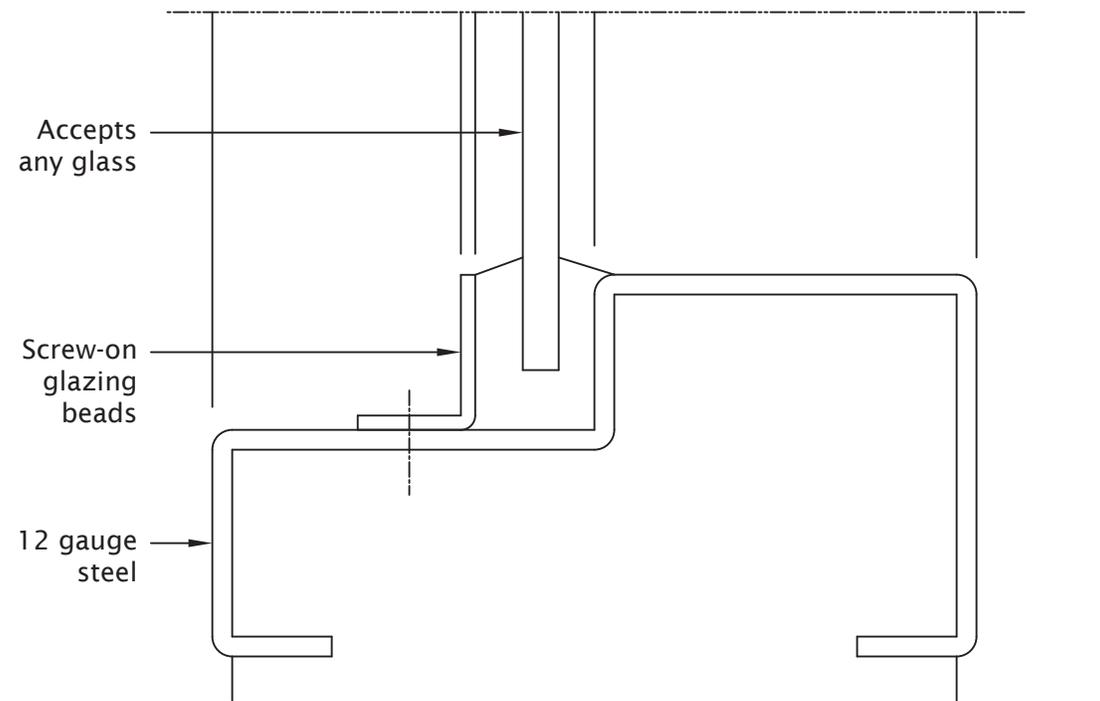
All glazing beads are attached with 8/32 or 10/24 stainless steel or plated steel screws at a maximum spacing of 12" on center.

Details are half scale and shown inside glazed.

Hope's has the unique capability of fabricating specialty fire rated steel products in addition to our traditional hot-rolled fire rated steel window line. The 5000 Series custom formed steel windows complements our 5000 Series door product line as well.

PRODUCT FEATURES

- Fire tested for 45 minutes with hose stream for positive pressure
- Tested in accordance with the following standards: UBC 7-2 (1997), UL10C and NFPA 252
- Underwritten by Warnock Hersey
- Typically manufactured from durable 12 gauge steel
- Solidly face welded and ground smooth joints for a uniform appearance, superior strength and water tightness
- Accepts any glass thickness from 3/16"
- Solid bronze, self-closing and latching hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



Details are full scale.

OPENING SIZE

- Maximum Opening Area: 149 sq. ft.
- Maximum Dimension (HT): 10.96 ft. (131-1/2")
- Maximum Dimension (WD): 13.63 ft. (163-1/2")

The NFPA 80 standard indicates the maximum opening shall not exceed 84 sq. ft., however Hope's tested greater than 84 sq. ft., and therefore is listed to provide products as shown above.

The above opening specifications DO NOT require a fire-protected mullion. Exceeding the above opening specifications will require a fire-protected mullion.

SASH SIZE

- Maximum Sash Area: 55 sq. ft.
- Maximum Dimension (HT): 10.92 ft. (131")
- Maximum Dimension (WD): 8.27 ft. (99-1/4")

VENTILATOR SIZE

- Maximum Side Hung Casement: 38-1/8" (WD) x 72-3/8" (HT)
- Maximum Top Hung Casement: 58-3/8" (WD) x 60-1/8" (HT)

GLASS SIZE

The following maximum dimensions are Hope's window limitations for glass, based on actual fire testing using Pilkington Pyrostop® 3/4" glass. The final glass size must be determined between the glass manufacturer's size limitations and Hope's window limitations. The lesser of the two must be followed.

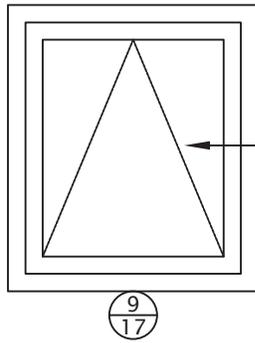
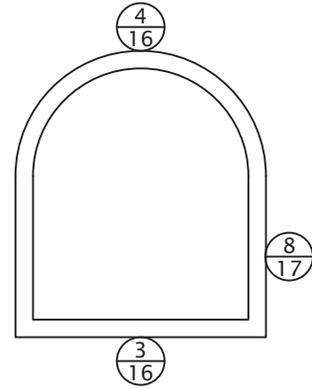
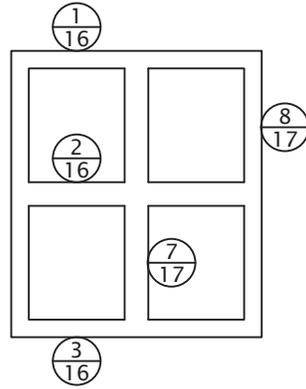
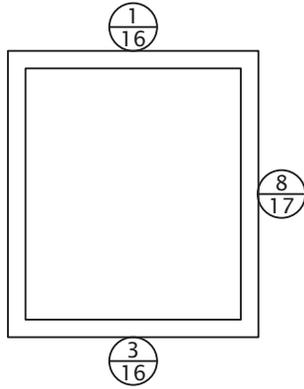
- Maximum Glass Area: 4,164 sq. in.
- Maximum Dimension (HT): 95-3/16"
- Maximum Dimension (WD): 58-5/8"

No combination of width and height dimensions can exceed 4,164 sq. in. 1/4" wire glass width and height dimensions cannot exceed 1,296 sq. in.

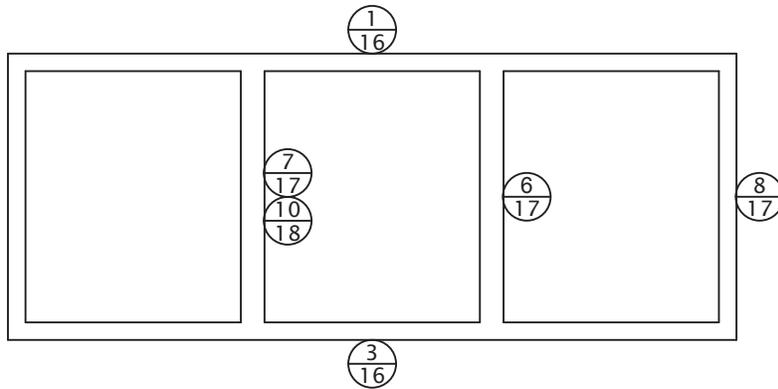
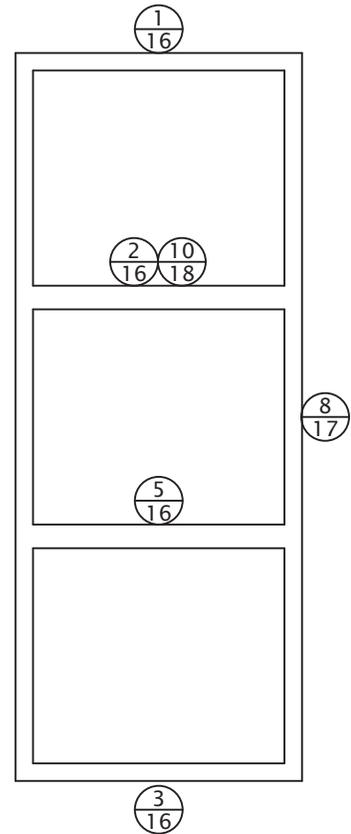
EXAMPLES

- If height is 95-3/16", then maximum width can be no greater than 43-3/4" to equal 4,164 sq. in.
- If width is 58-5/8", then maximum height can be no greater than 71" to equal 4,164 sq. in.

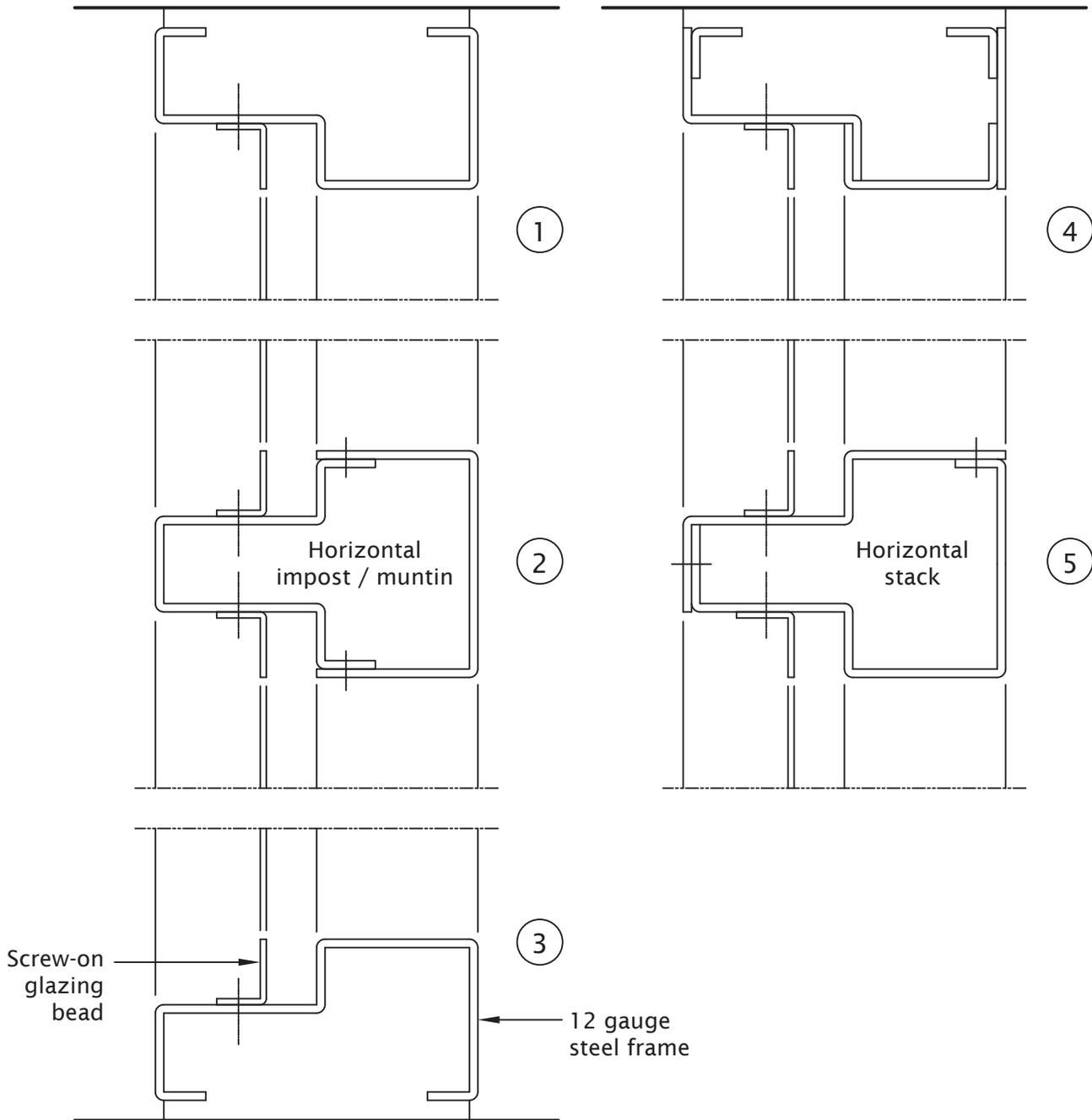
Consult Hope's for assistance in determining between the glass manufacturer's size limitations and Hope's window limitations.



Jamestown175™ Series
45 minute fire rated
vent insert

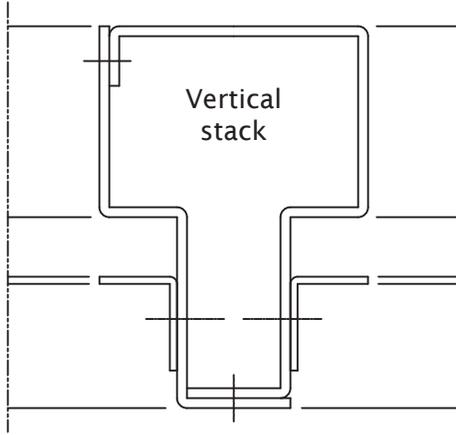


Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

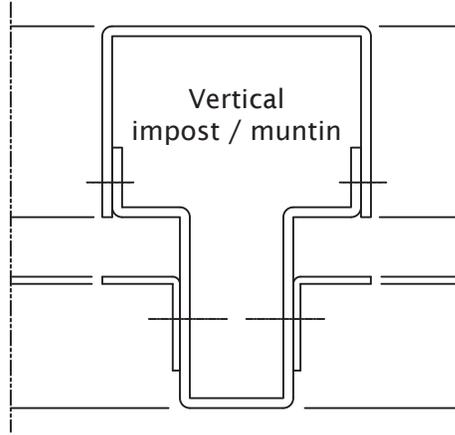


Details are half scale and shown outside glazed with 1" glass.
See page 18 for further glazing bead options.

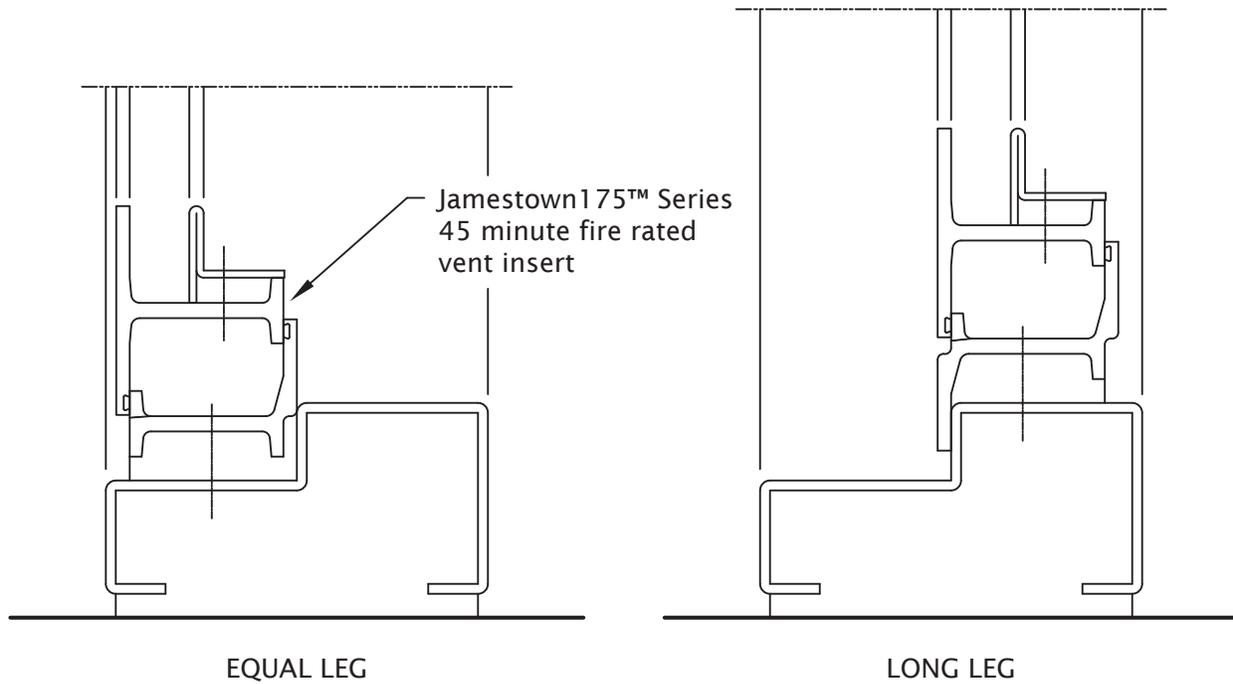
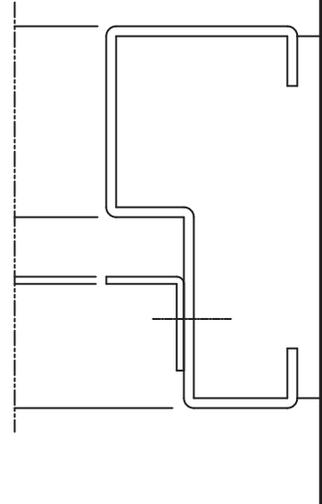
6



7



8

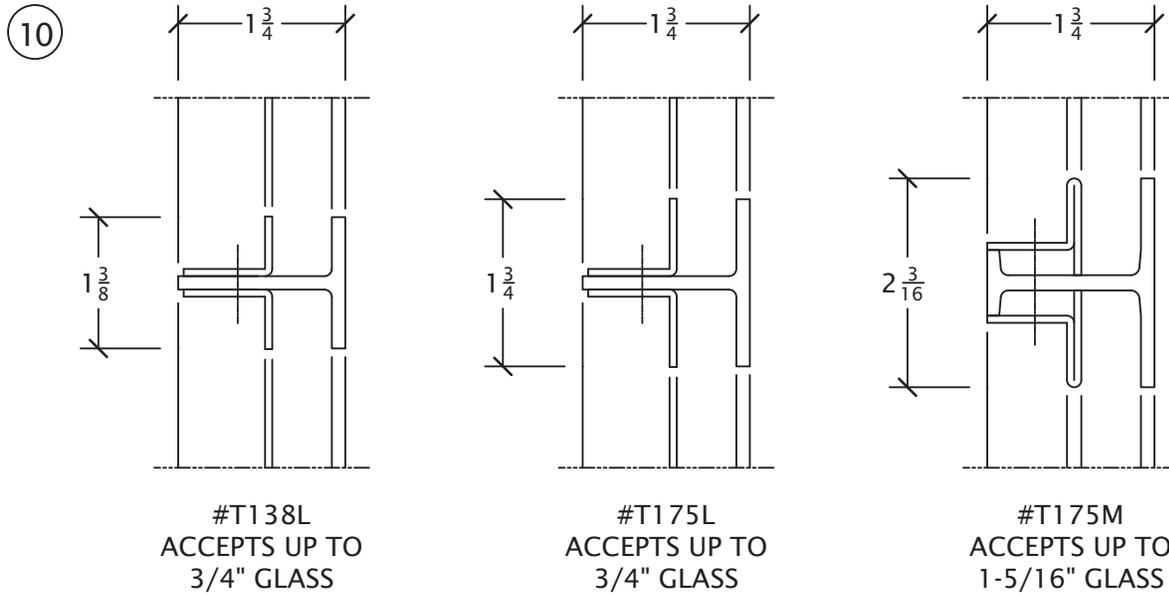


9

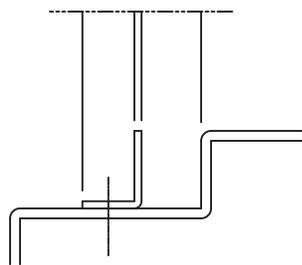
TYPICAL HEAD,
JAMB AND SILL

Details are half scale and shown outside glazed with 1" glass.
See page 18 for further glazing bead options.

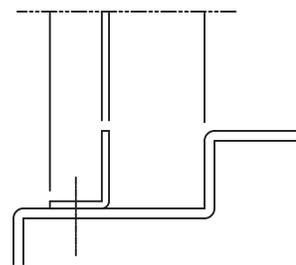
TRUE DIVIDED LITE MUNTINS (OUTSIDE GLAZED WITH 1/4" GLASS)



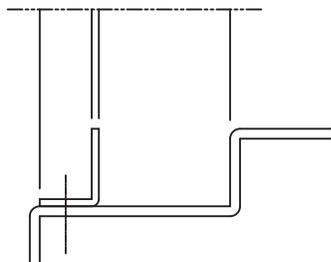
GLAZING BEADS



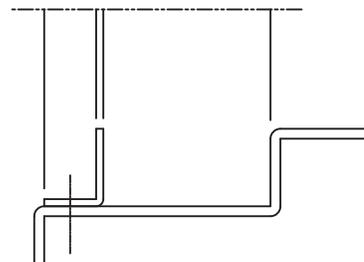
3/16" to 3/8" GLASS
#111 BEAD



1/2" to 3/4" GLASS
#111 BEAD



7/8" to 1-1/8" GLASS
#111 BEAD



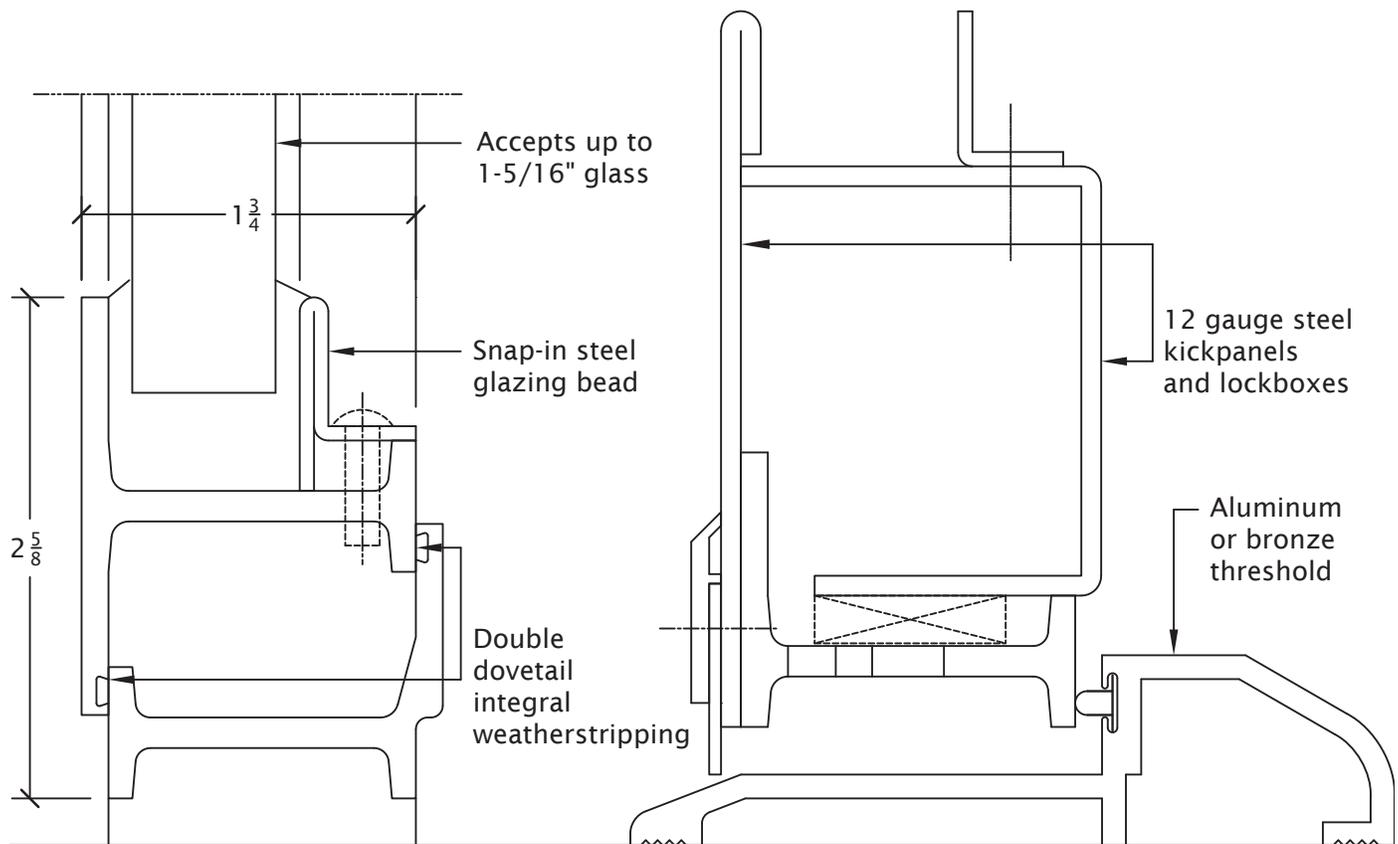
1-3/16" to 1-5/16" GLASS
#111 BEAD

Details are half scale and shown outside glazed.

Hope's Jamestown175 Series fire rated steel doors are manufactured from heavy, custom hot-rolled steel profiles. Single and French-style configurations are available with mortise lock hardware and surface mounted closers. The steel door profiles are the same profiles as used in the Jamestown175 Series steel windows. The Jamestown175 Series has a depth of 1-3/4".

PRODUCT FEATURES

- Fire tested for 45 minutes with hose stream for positive pressure
- Tested in accordance with the following standards: UBC 7-2 (1997), UL10C and NFPA 332
- Underwritten by Warnock Hersey
- Accepts "listed" glass up to 1-5/16" thick with screw-on steel glazing beads
- Double integral groove weatherstripping
- Solid bronze hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



HEAD AND JAMB
DETAILS

THRESHOLD DETAIL

Details are full scale.

OPENING SIZE

- Maximum Opening Area: 149 sq. ft.
- Maximum Dimension (HT): 10.96 ft. (131-1/2")
- Maximum Dimension (WD): 13.63 ft. (163-1/2")

The NFPA 80 standard indicates the maximum opening shall not exceed 84 sq. ft., however Hope's tested greater than 84 sq. ft., and therefore is listed to provide products as shown above.

The above opening specifications DO NOT require a fire-protected mullion. Exceeding the above opening specifications will require a fire-protected mullion.

DOOR FRAME SIZE

- Maximum Door Frame Area: 55.79 sq. ft. (double) / 29 sq. ft. (single)
- Maximum Dimension (HT): 8 ft. (96")
- Maximum Dimension (WD): 7 ft. (84") (double) / 3.69 ft. (44-5/16") (single)

Combined door frame with overhead transom:

- Maximum Dimension (HT): 131"
- Maximum Dimension (WD): 84"

GLASS SIZE

The following maximum dimensions are Hope's door limitations for glass, based on actual fire testing using Pilkington Pyrostop® 3/4" glass. The final glass size must be determined between the glass manufacturer's size limitations and Hope's door limitations. The lesser of the two must be followed.

- Maximum Glass Area: 1,755 sq. in.
- Maximum Dimension (HT): 47-11/16"
- Maximum Dimension (WD): 36-13/16"

No combination of width and height dimensions can exceed 1,755 square inches. With 1/4" wire glass, no combination of width and height dimensions can exceed 1,296 square inches.

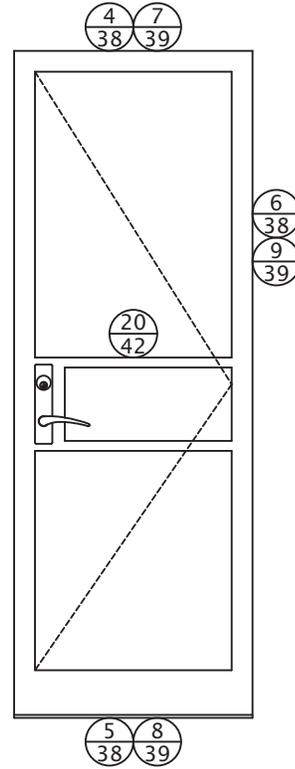
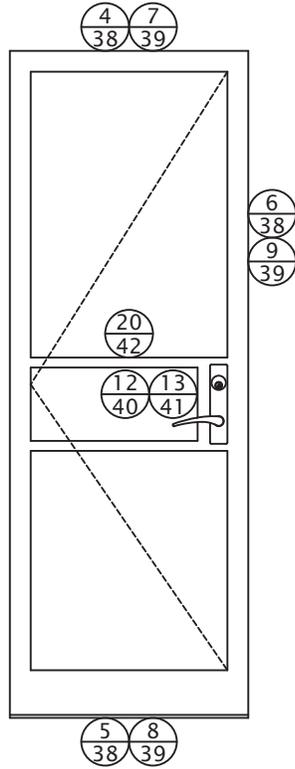
EXAMPLES

- If height is 42", then maximum width can be no greater than 30-5/8" to equal 1,286 sq. in.
- If width is 36", then maximum height can be no greater than 36" to equal 1,296 sq. in.

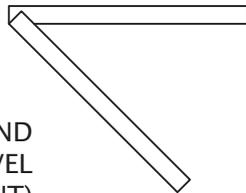
Consult Hope's for assistance in determining between the glass manufacturer's size limitations and Hope's door limitations.

For sidelights, transoms and windows, see the following sections:

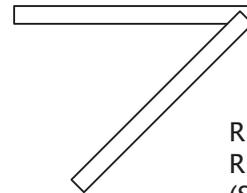
- Jamestown175™ Series 45 Minute Fire Rated Steel Windows
- 5000 Series™ 45 Minute Fire Rated Steel Windows



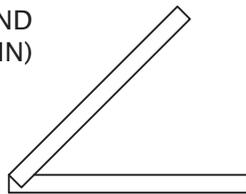
LEFT HAND
REVERSE BEVEL
(SWING-OUT)



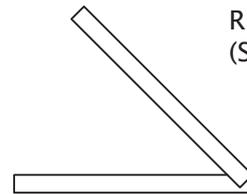
RIGHT HAND
REVERSE BEVEL
(SWING-OUT)



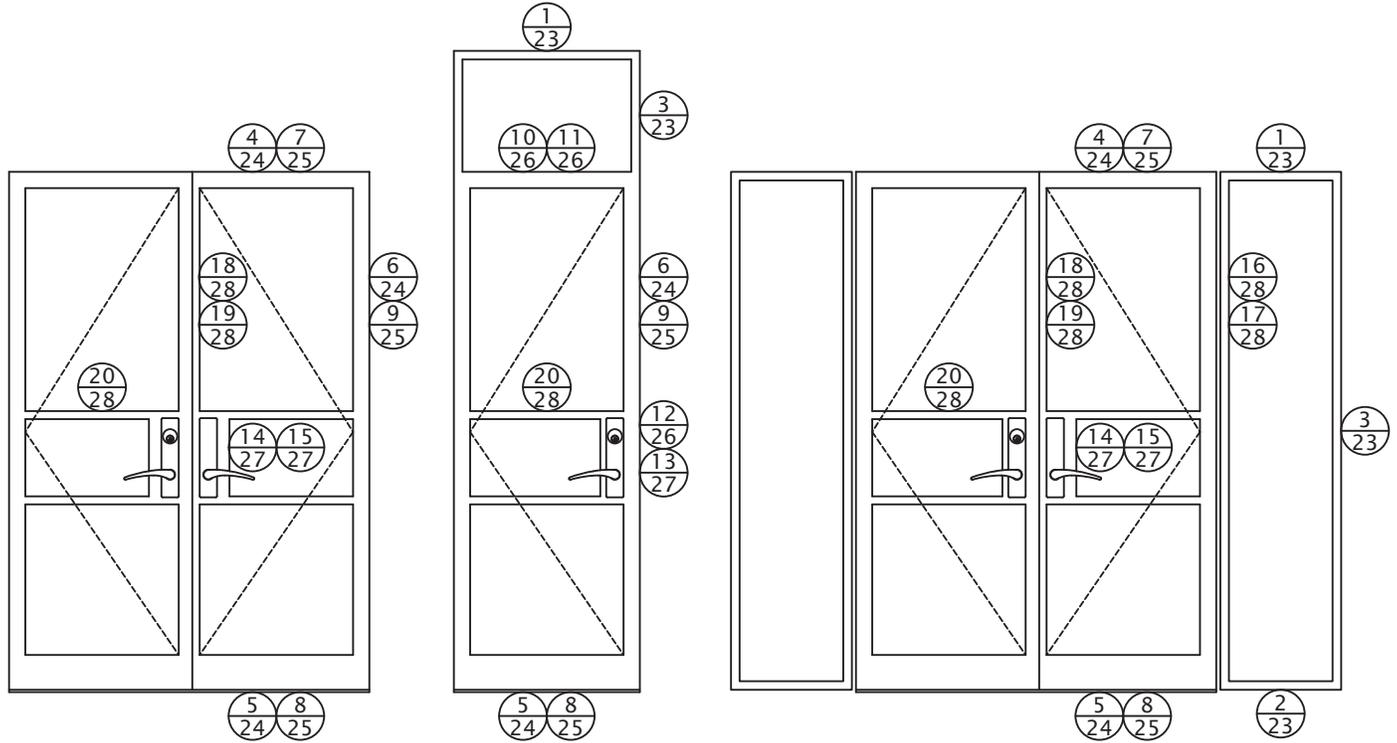
LEFT HAND
(SWING-IN)



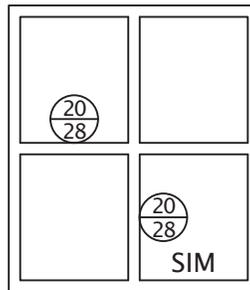
RIGHT HAND
(SWING-IN)



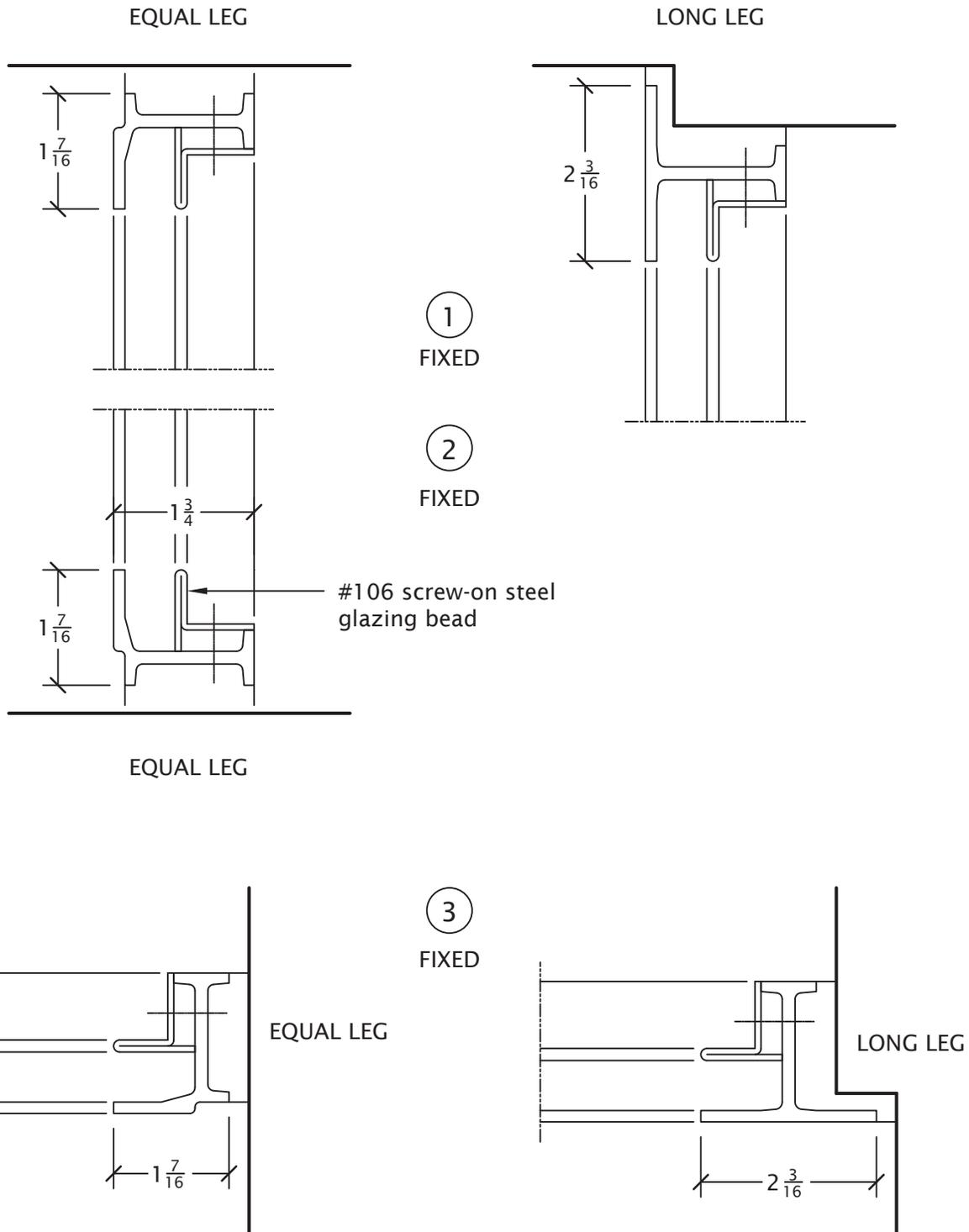
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



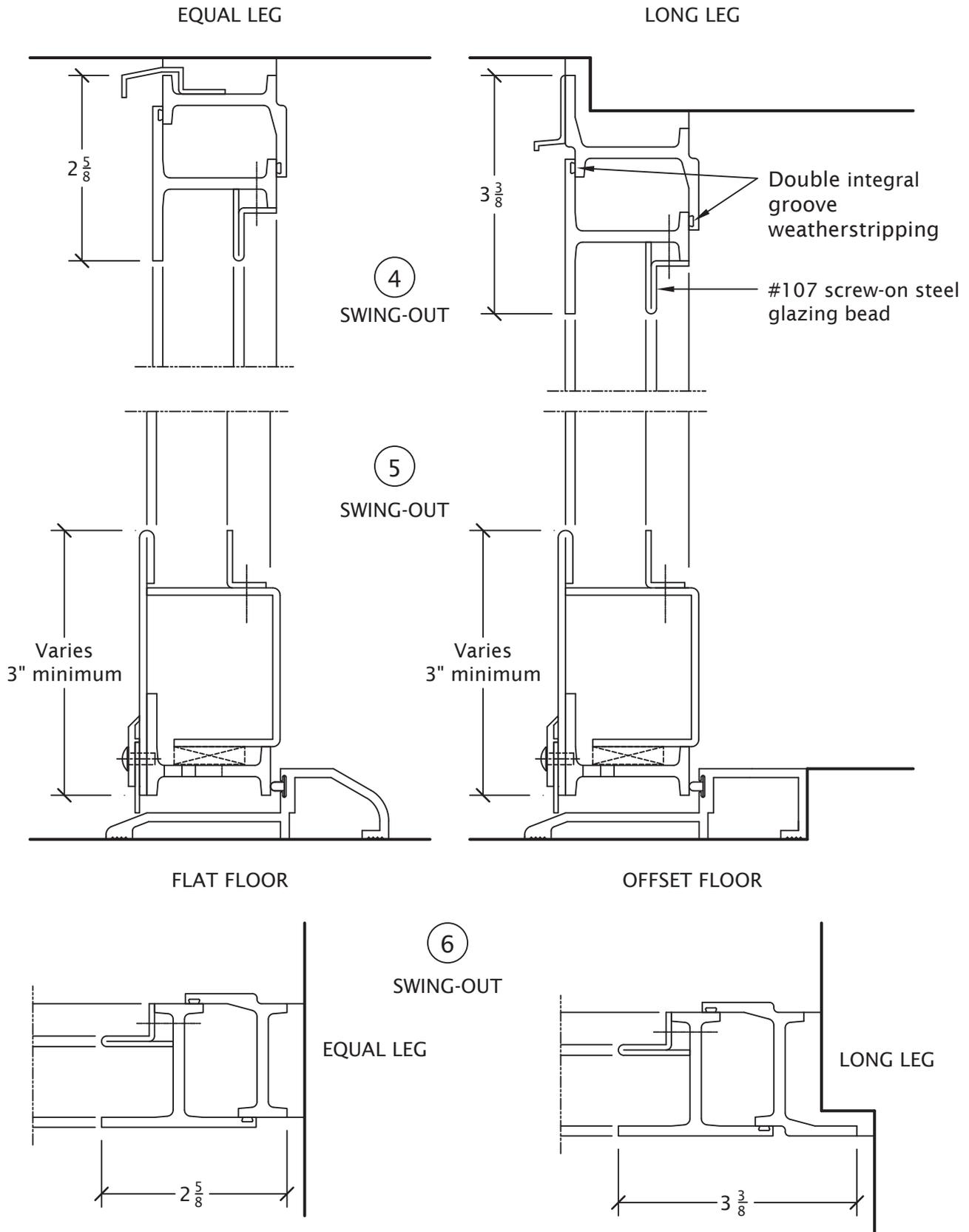
TRUE
DIVIDED
LITES (TDL)



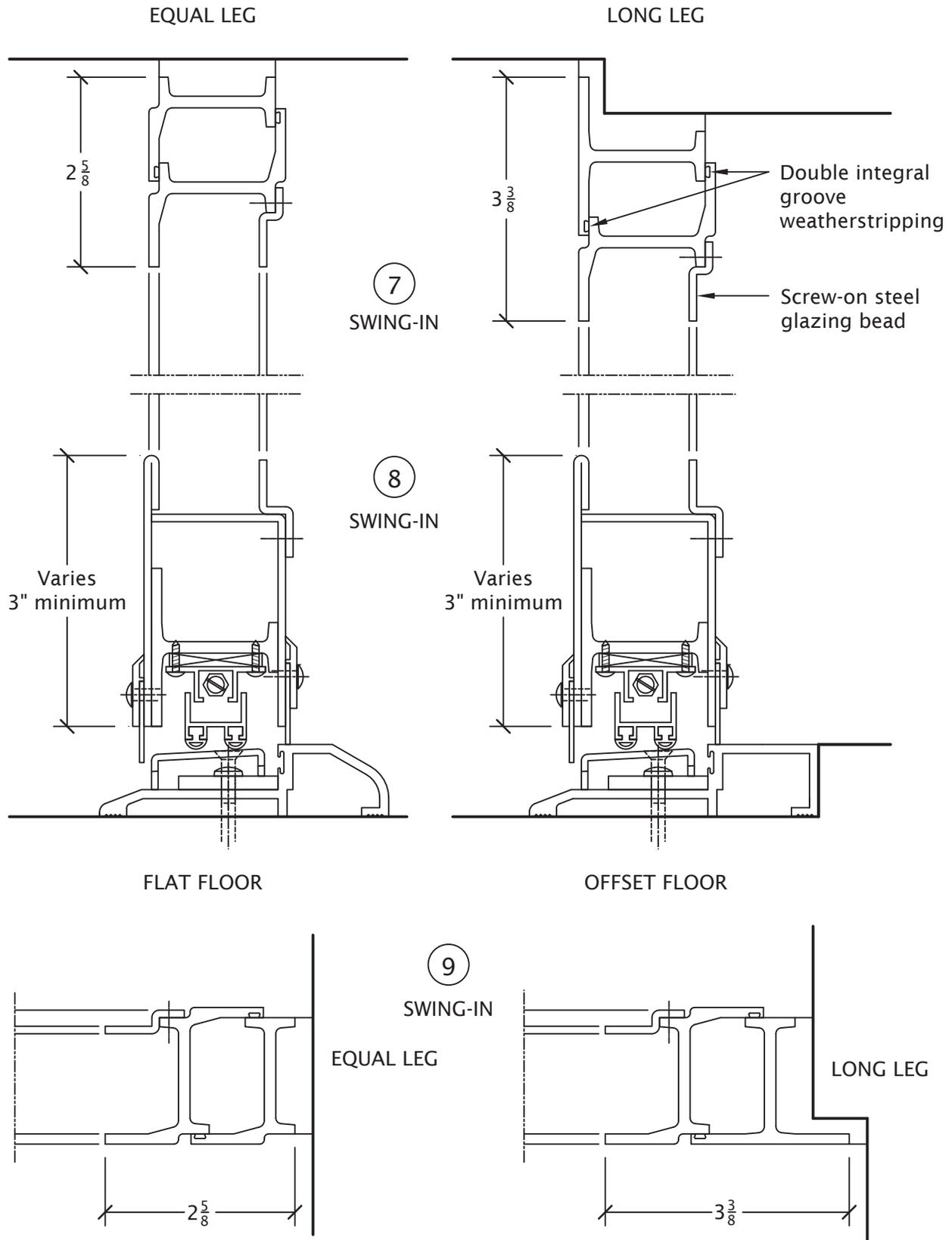
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



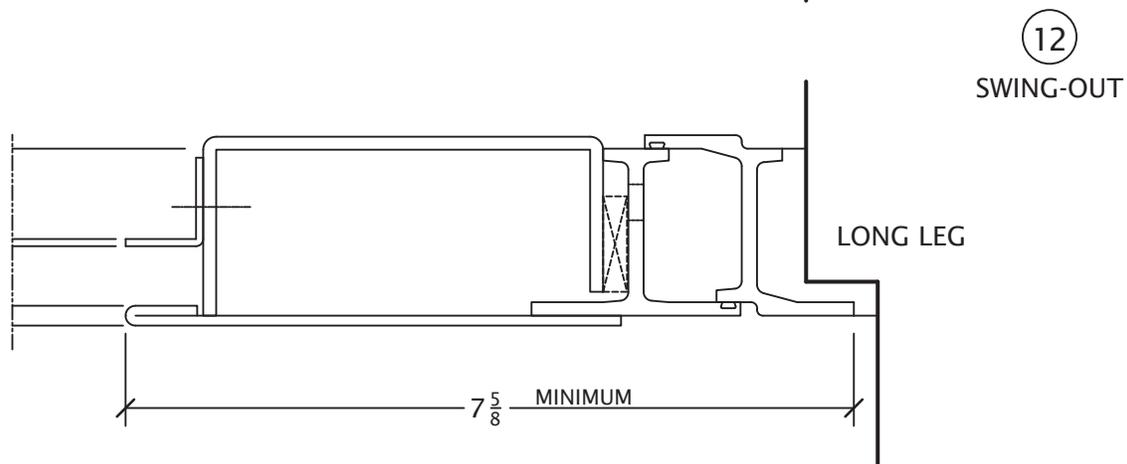
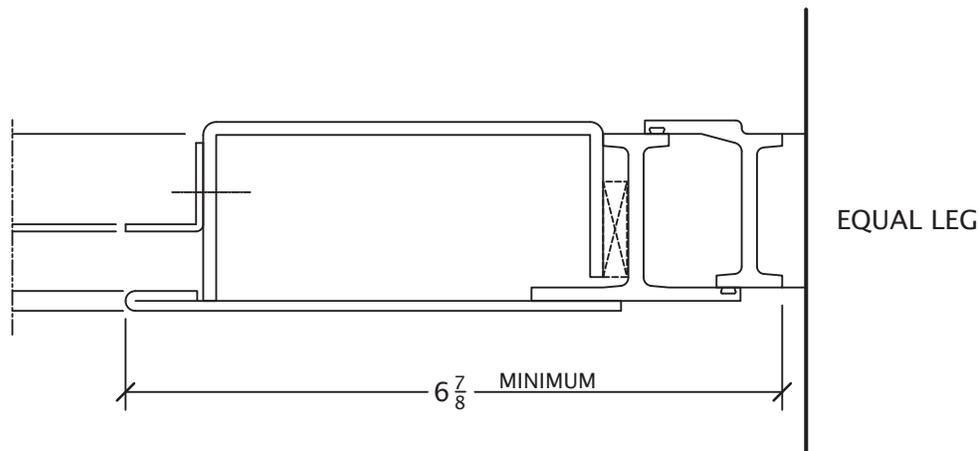
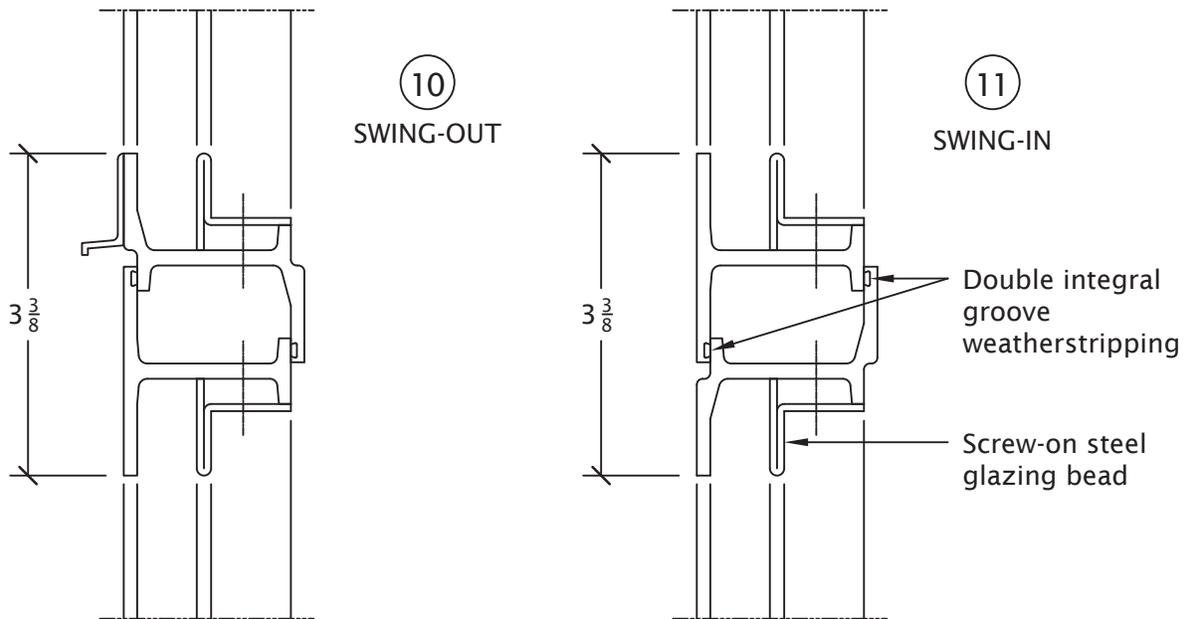
Details are half scale and shown inside glazed with 1/4" glass.
See page 29 for further glazing bead options.



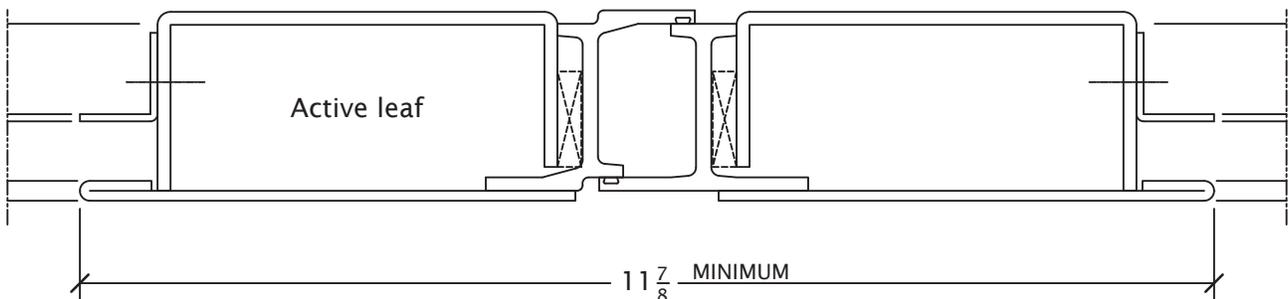
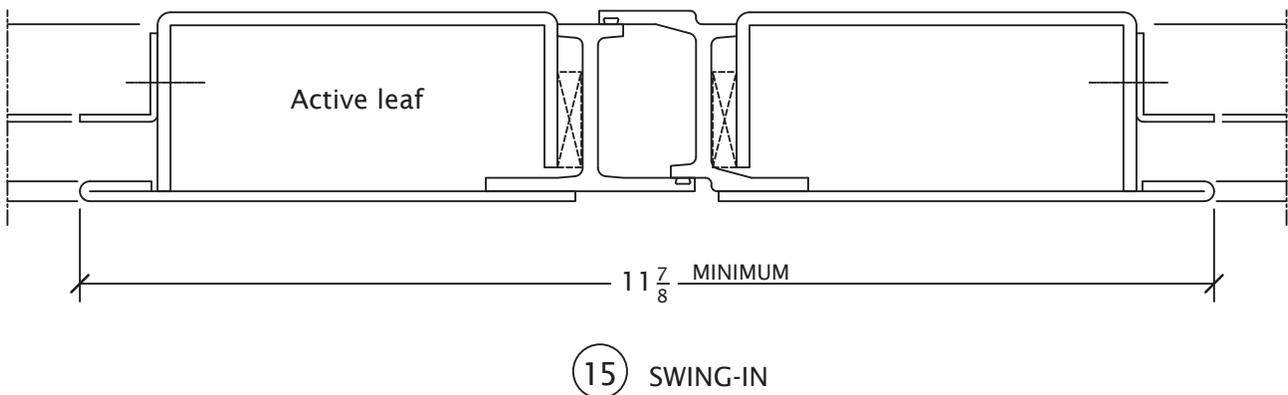
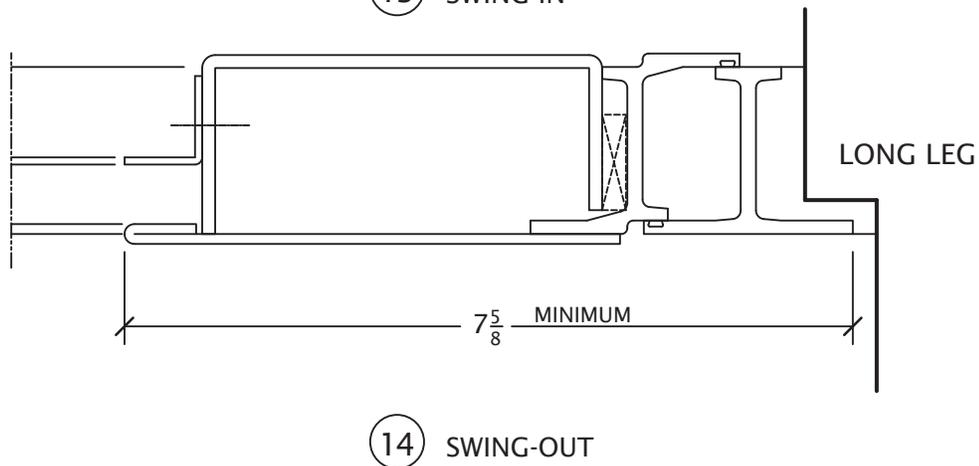
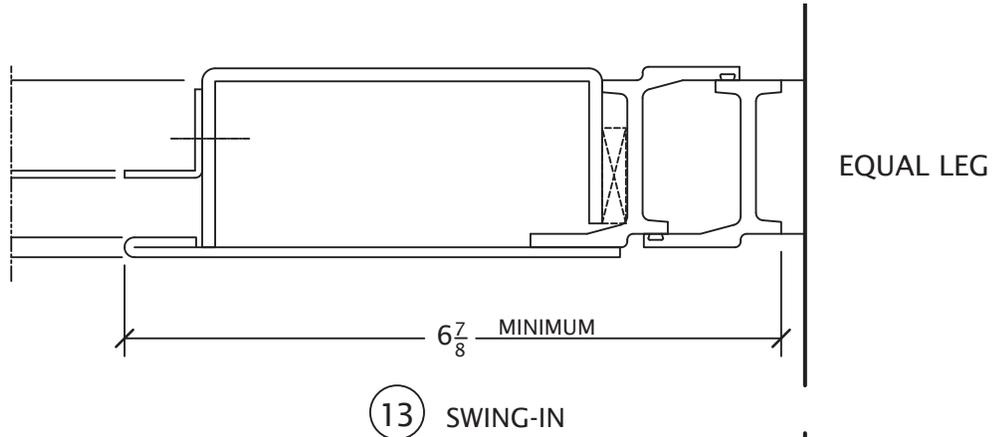
Details are half scale and shown inside glazed with 3/4" glass.
See page 29 for further glazing bead options.



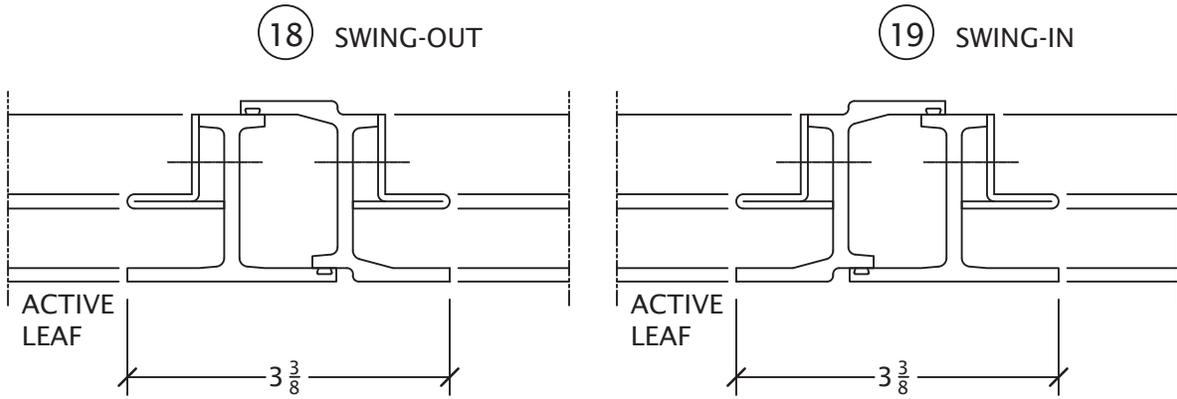
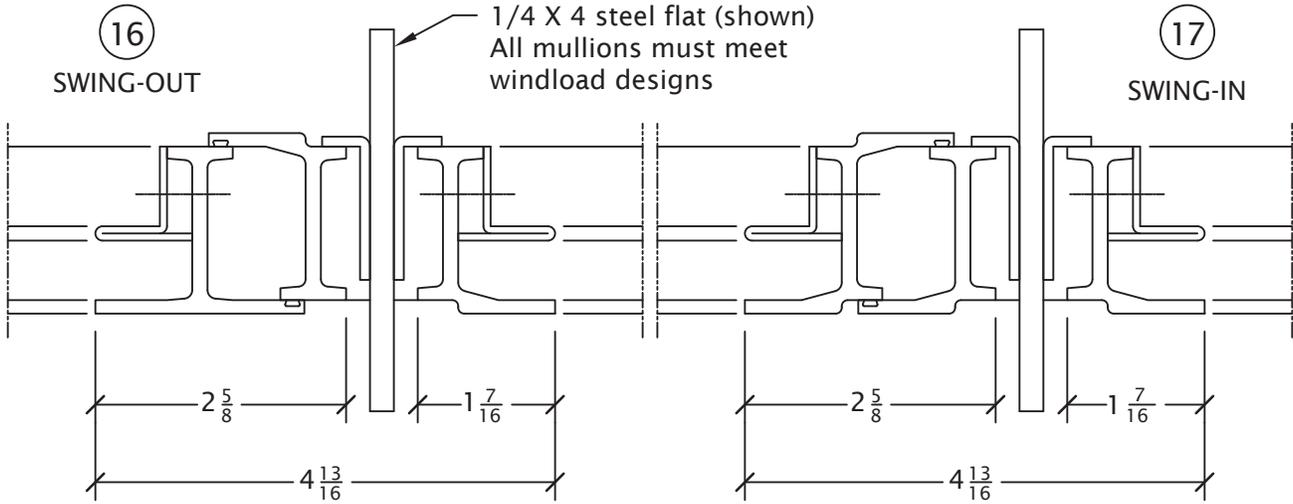
Details are half scale and shown inside glazed with 1" glass.
See page 29 for further glazing bead options.



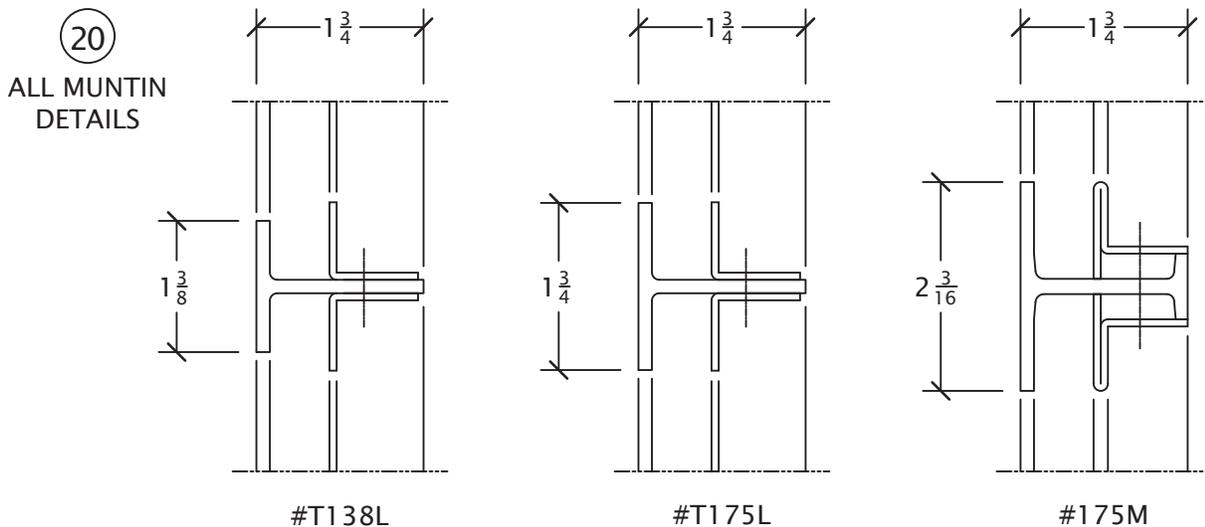
Details are half scale and shown inside glazed with 1/4" glass.
See page 29 for further glazing bead options.



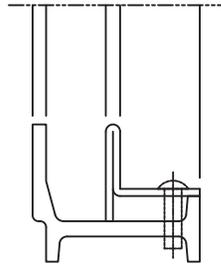
Details are half scale and shown inside glazed with 1/4" glass.
See page 29 for further glazing bead options.



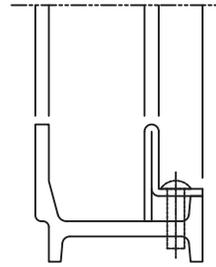
TRUE DIVIDED LITE MUNTINS (INSIDE GLAZED WITH 1/4" GLASS)



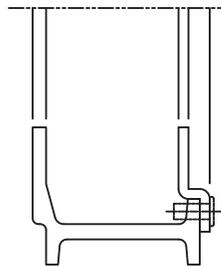
Details are half scale and shown inside glazed with 1/4" glass.



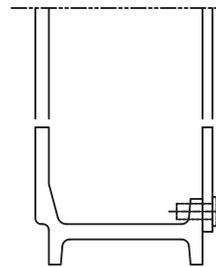
3/16" to 3/8" GLASS
#106 BEAD



1/2" to 3/4" GLASS
#107 BEAD



7/8" to 1-1/8" GLASS
#108 BEAD



1-3/16" to 1-5/16" GLASS
#109 BEAD

GLAZING BEAD NOTES

All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

All glazing beads are attached with 8/32 or 10/32 stainless steel or plated steel screws at a maximum spacing of 12" on center.

Details are half scale and shown inside glazed.