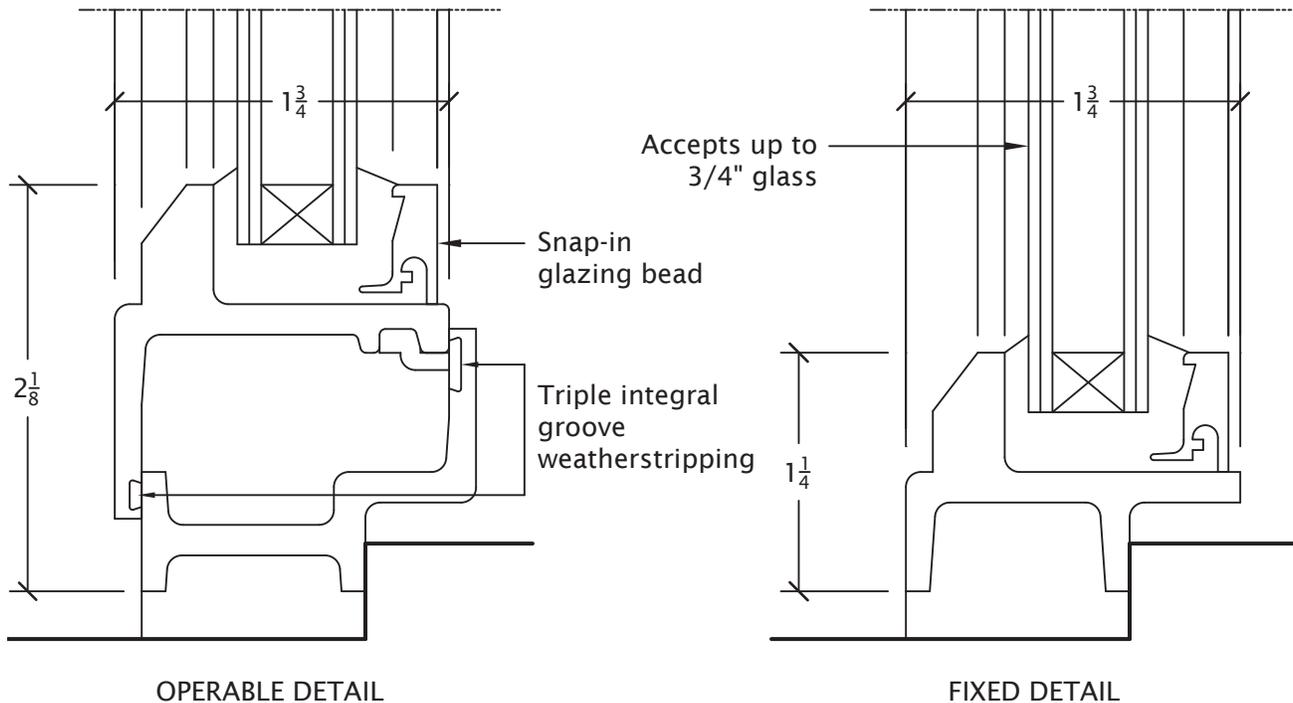


Hope's University Series steel window profiles were designed for projects requiring historic replication of exterior putty glazed steel windows. The fixed and operable configurations are interior glazed and will accommodate up to 3/4" glass. The unique window profiles and very narrow sightlines are ideal for new buildings as well as window replacement projects.

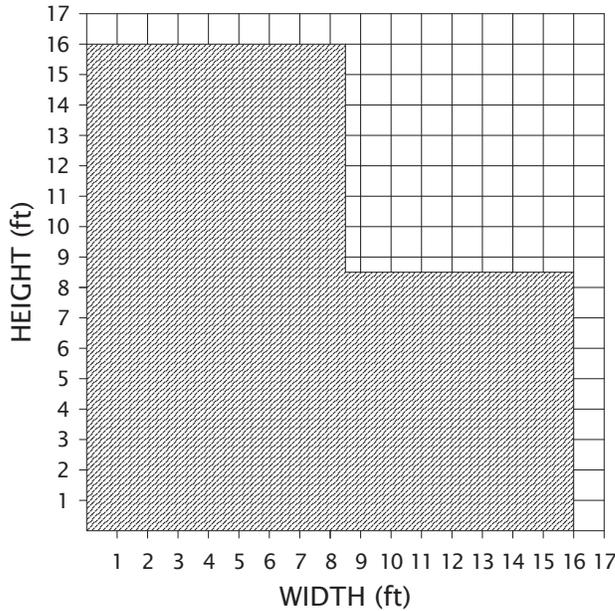
PRODUCT FEATURES

- Narrow sightlines
- Window profile depth of 1-3/4" increases the moment of inertia (I-value) and presents the opportunity to accommodate larger window sizes without extra reinforcing or mullions
- Accepts up to 3/4" thick insulating glass
- Triple integral groove weatherstripping
- Solid brass or bronze hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat.

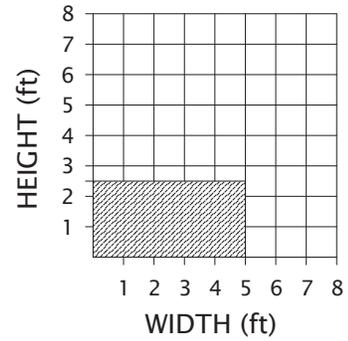


Details are full scale.

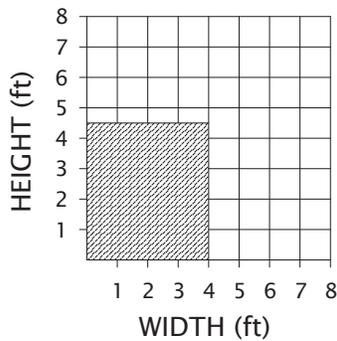
FIXED WINDOWS



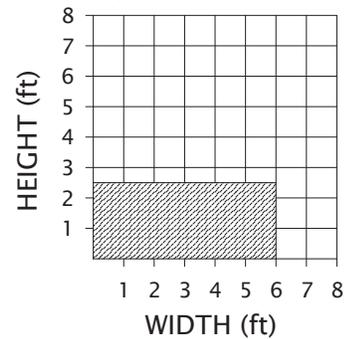
PROJECT-IN VENTILATORS



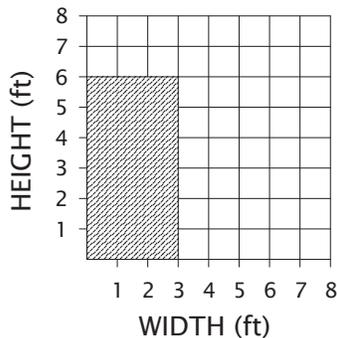
PROJECT-OUT VENTILATORS



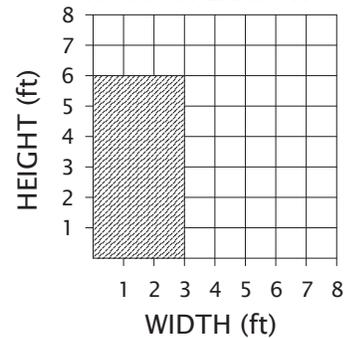
MOTORIZED OPERATOR



CASEMENT VENTILATORS

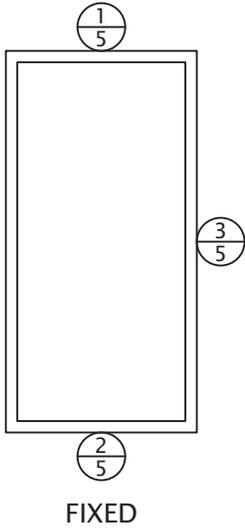


ROTO OPERATOR

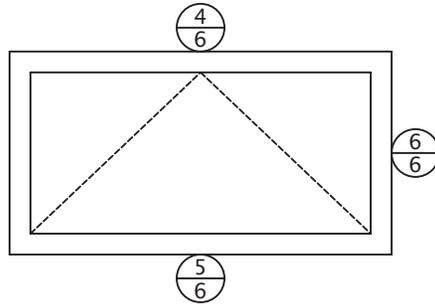


NOTE: Casements over 60" tall limited to 20° opening

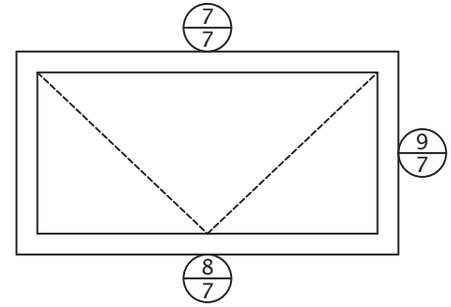
Size based on 3/4" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



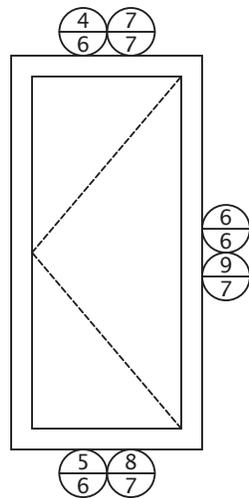
FIXED



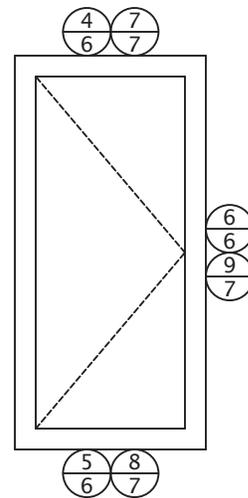
PROJECT-OUT



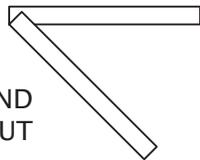
PROJECT-IN



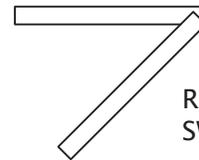
SIDE HUNG-OUT
SIDE HUNG-IN
CASEMENT



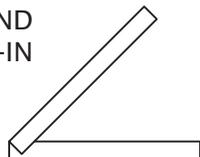
LEFT HAND
SWING-OUT



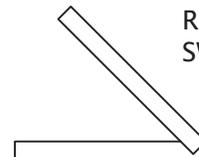
RIGHT HAND
SWING-OUT



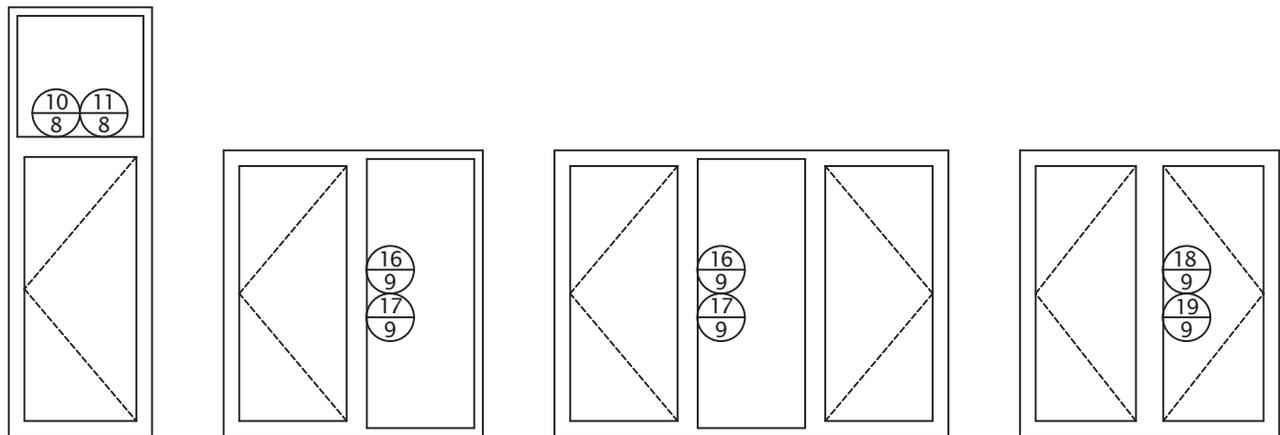
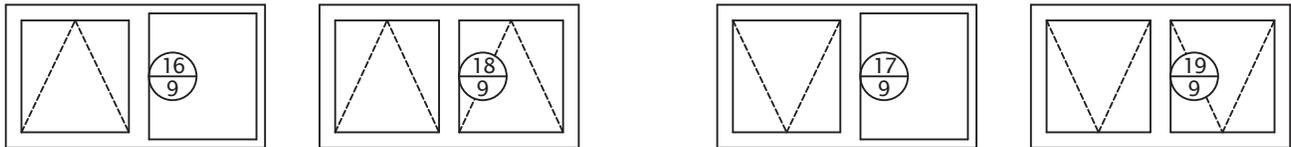
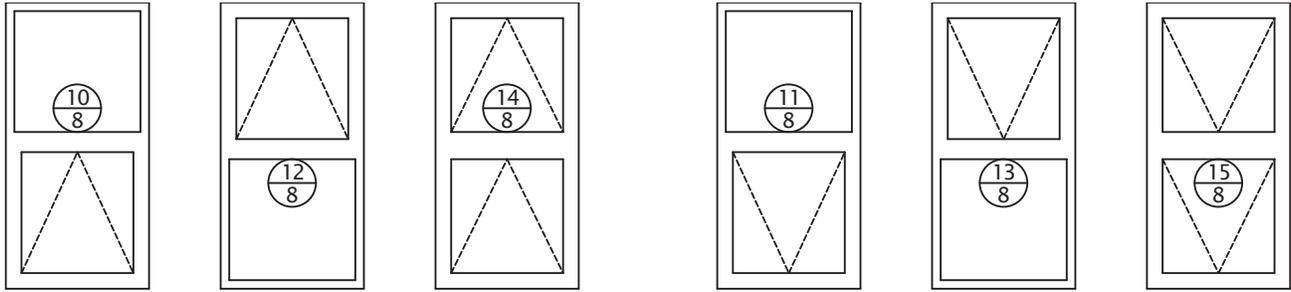
LEFT HAND
SWING-IN



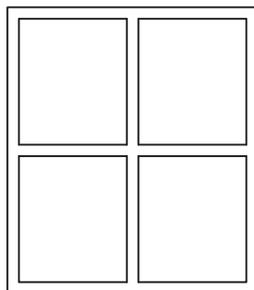
RIGHT HAND
SWING-IN



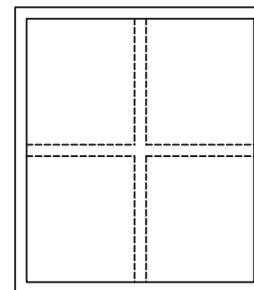
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



TRUE
DIVIDED
LITES (TDL)



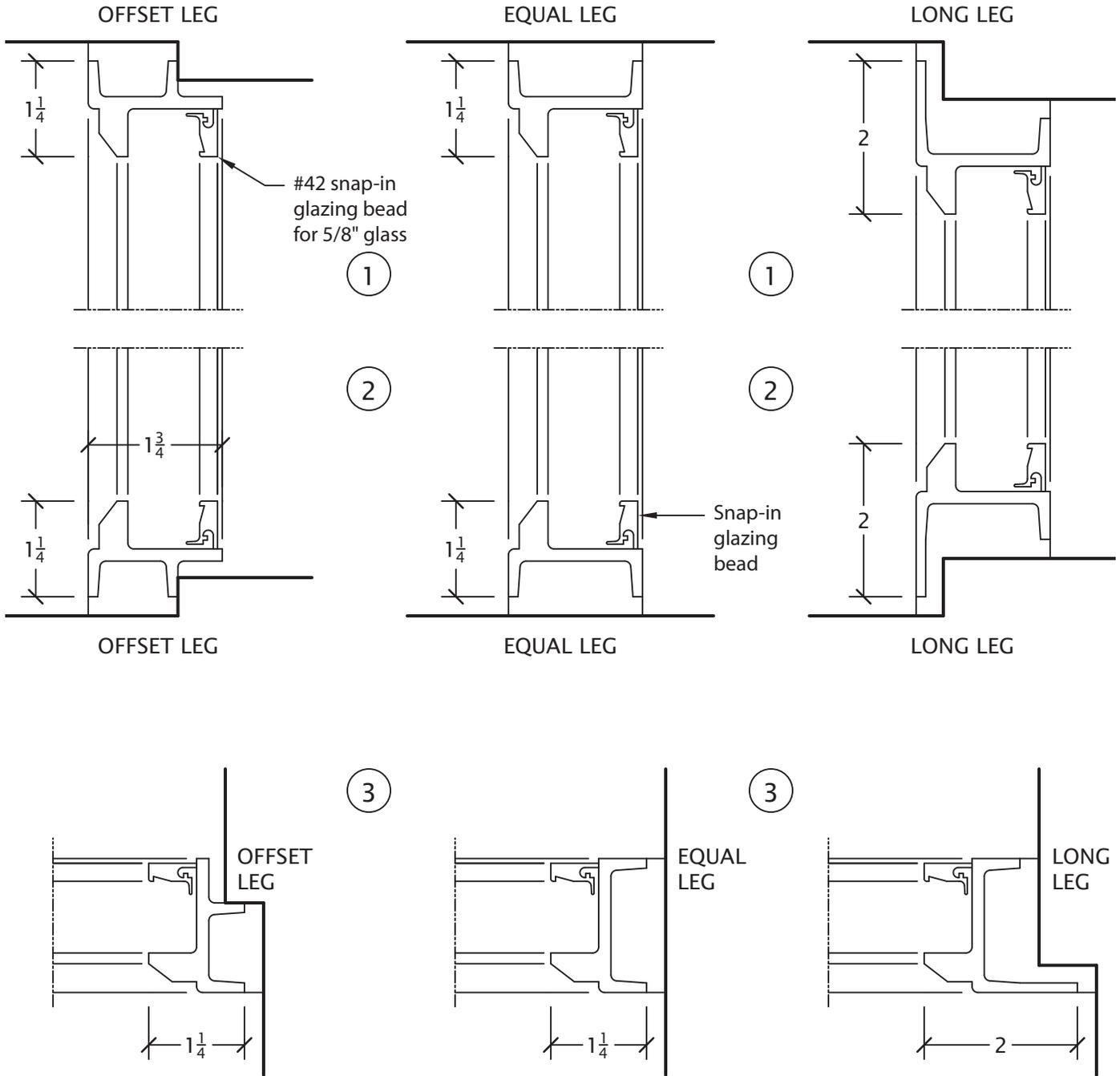
FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION



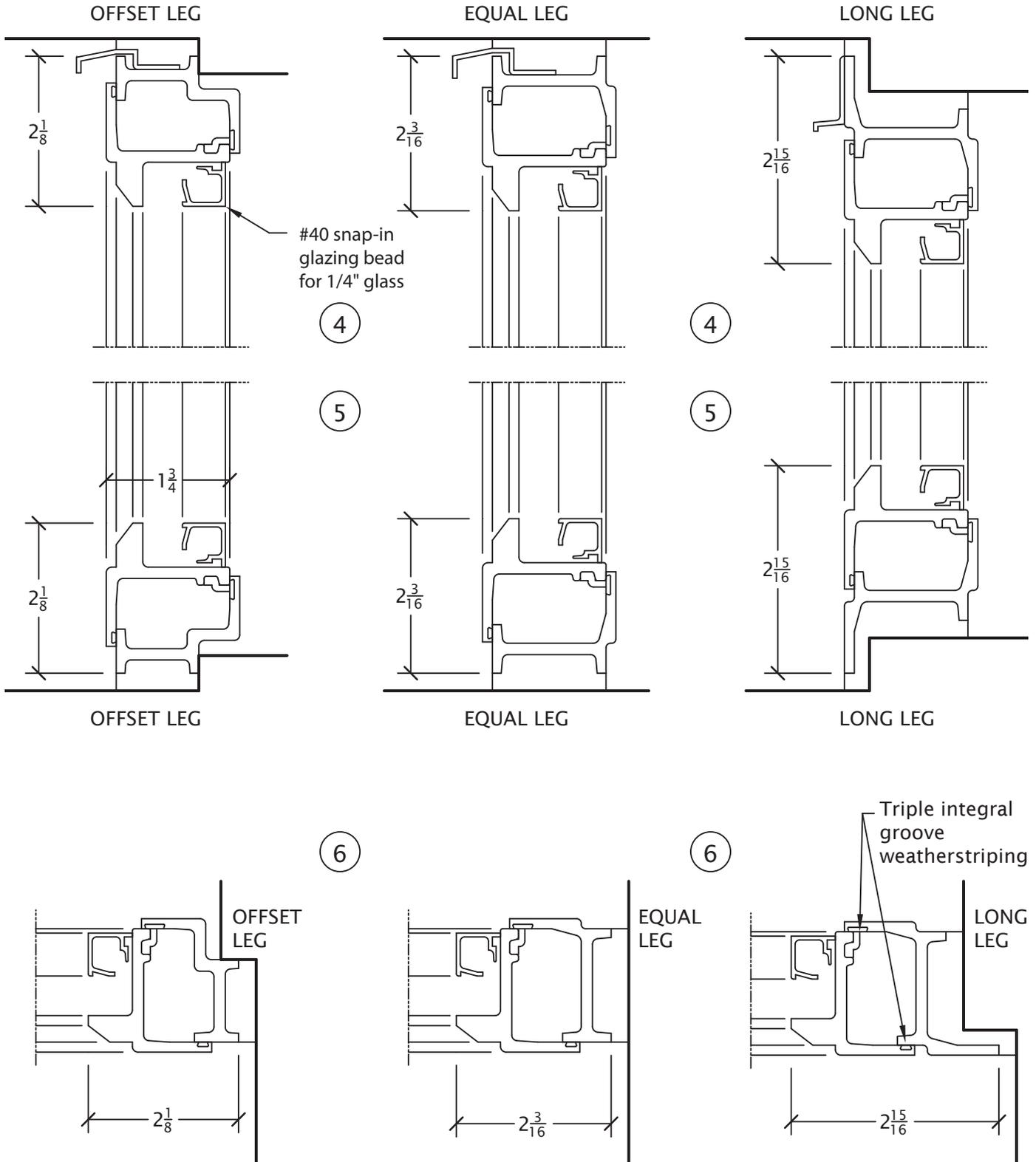
SIMULATED
DIVIDED
LITES (SDL)

(MUNTIN
GRIDS)

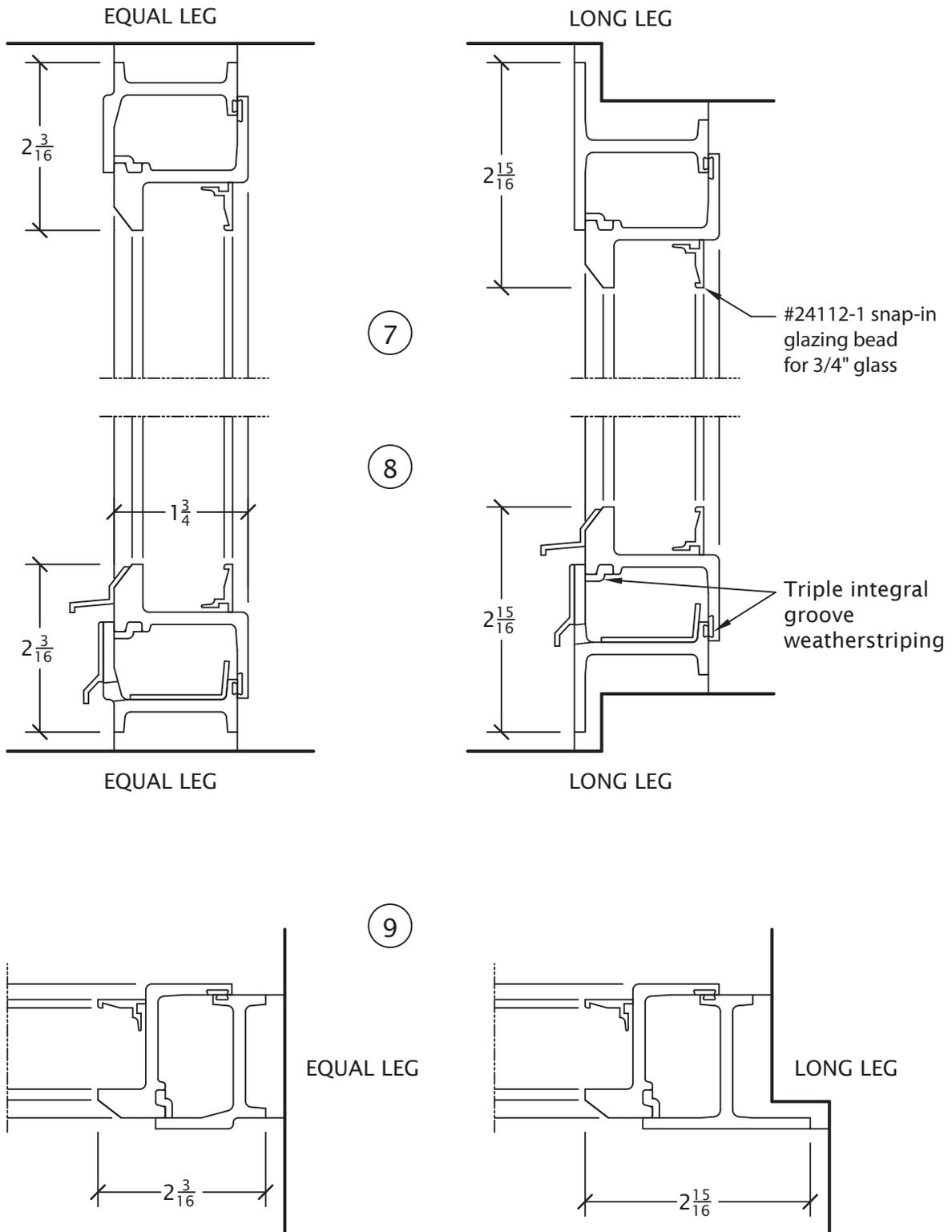
Elevations are for detail reference only. Elevations are not to scale.
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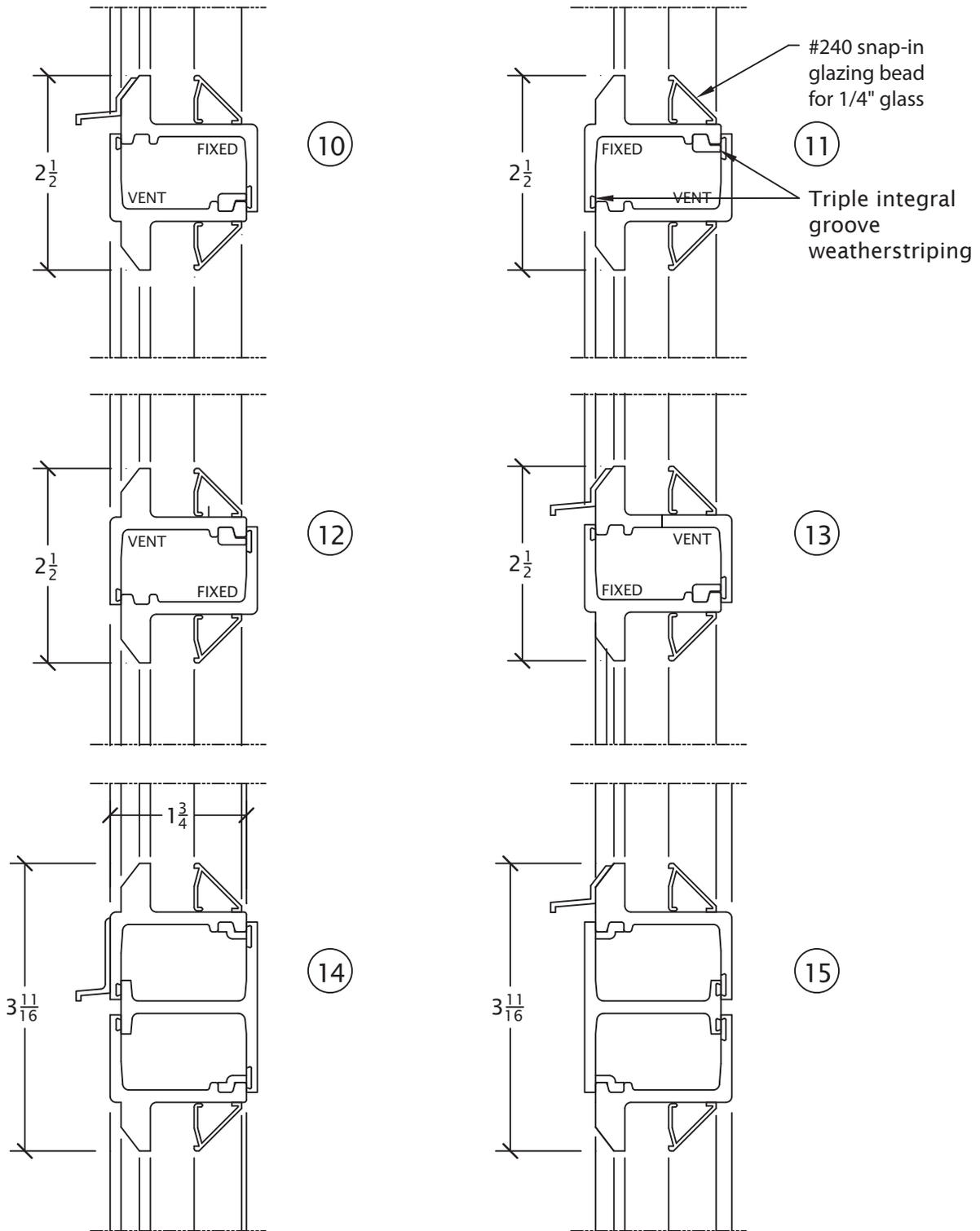
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



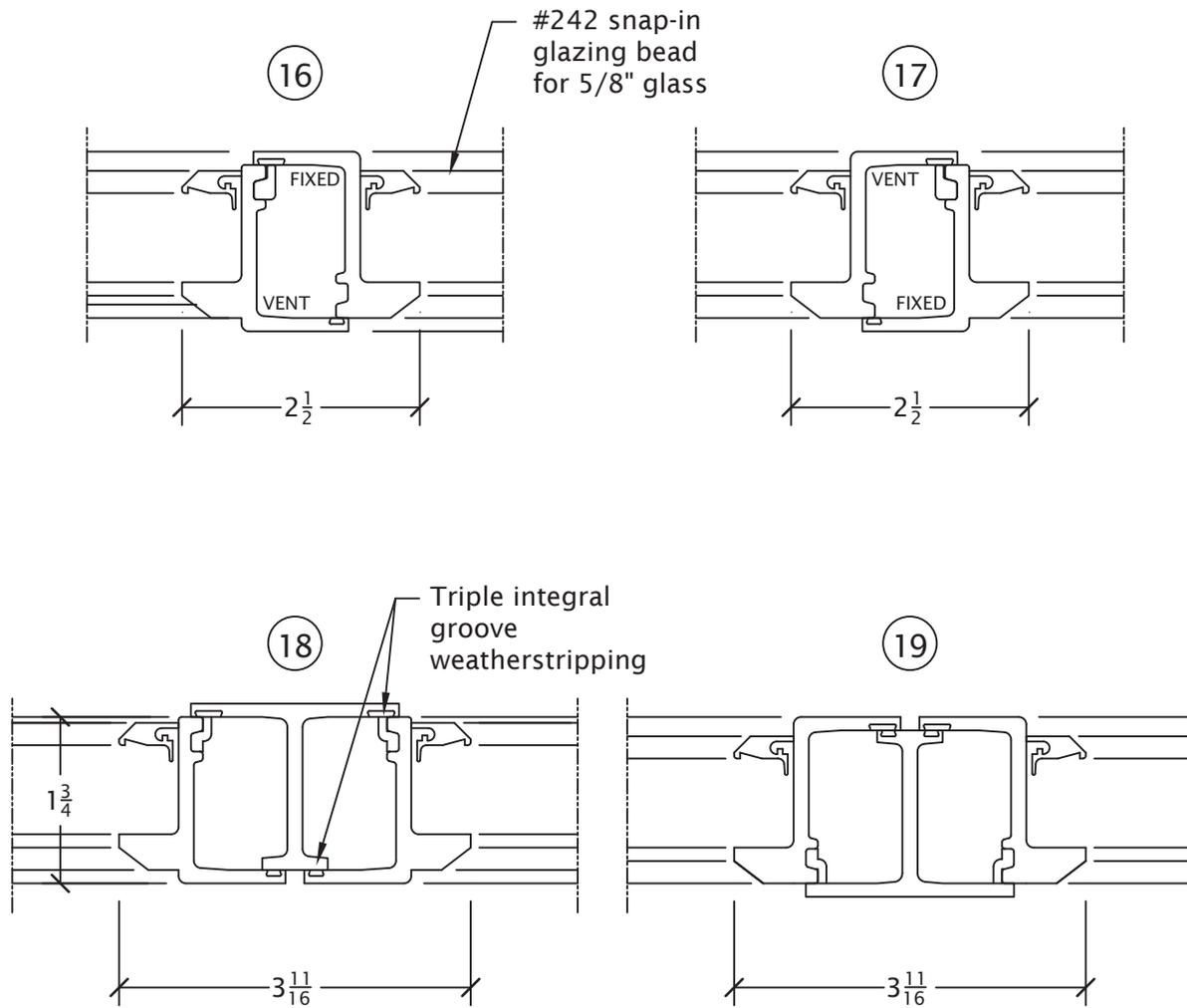
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



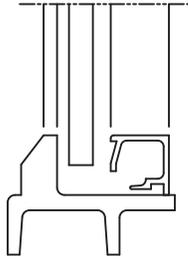
Details are half scale and shown inside glazed with 3/4" glass.
See page 10 for further glazing bead options.



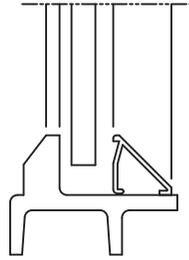
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



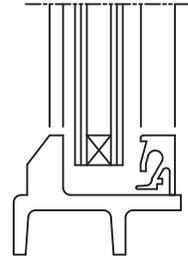
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



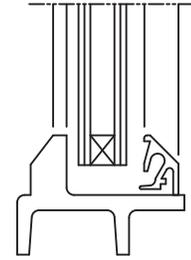
1/4" GLASS
#40 BEAD



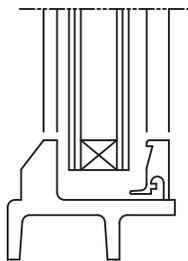
1/4" GLASS
#240 BEAD



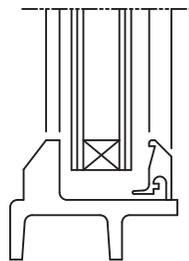
1/2" GLASS
#41 BEAD



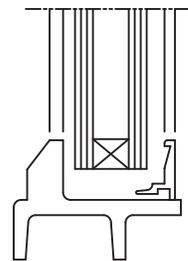
1/2" GLASS
#241 BEAD



5/8" GLASS
#42 BEAD



5/8" GLASS
#242 BEAD



3/4" GLASS
#24112-1 BEAD

GLAZING BEAD NOTES

Hope's offers various types of glazing beads including: snap-in, hook-on and screw-on.

Consult Hope's for other options.

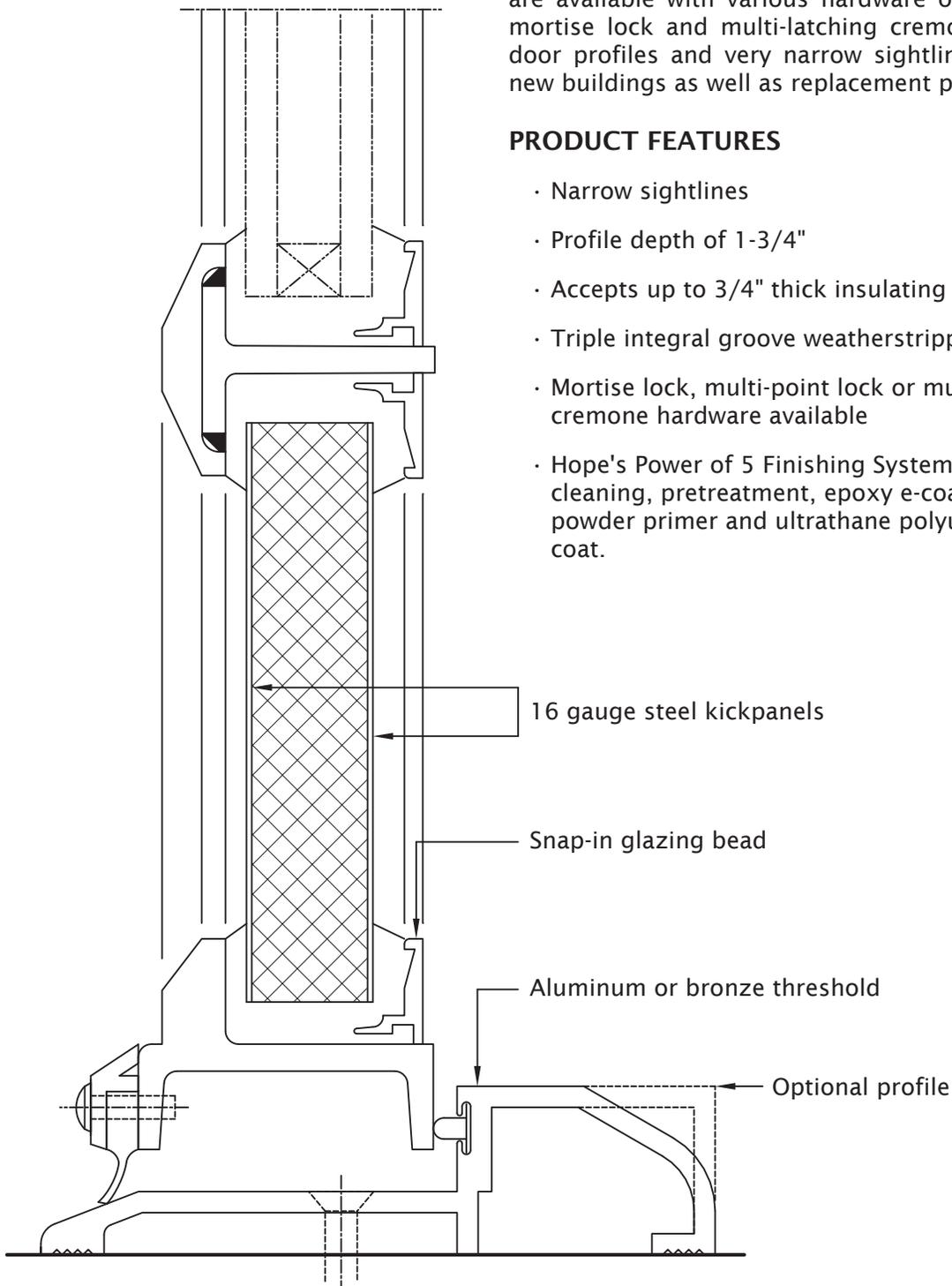
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

Hope's University Series steel door profiles complement the University Series window product line for projects requiring historic replication of exterior putty glazed steel doors. Single and French-style configurations are available with various hardware options including mortise lock and multi-latching cremone. The unique door profiles and very narrow sightlines are ideal for new buildings as well as replacement projects.

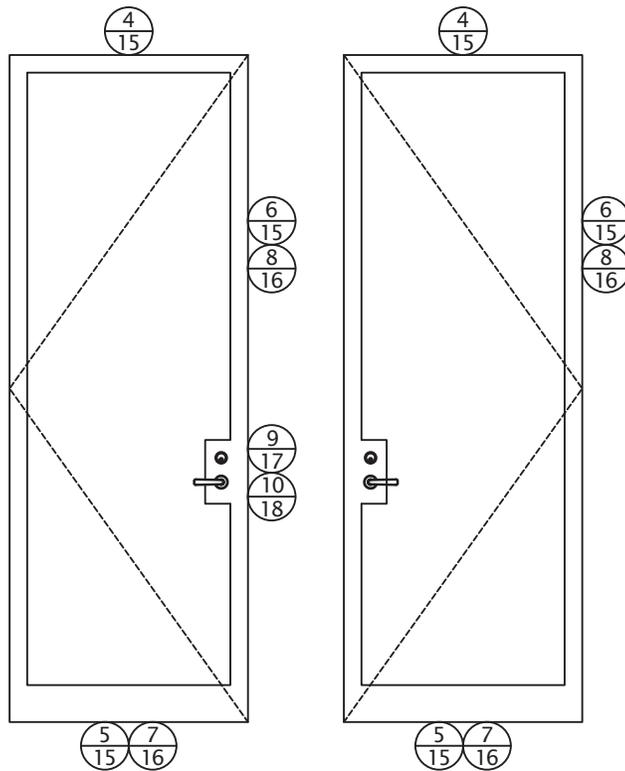
PRODUCT FEATURES

- Narrow sightlines
- Profile depth of 1-3/4"
- Accepts up to 3/4" thick insulating glass
- Triple integral groove weatherstripping
- Mortise lock, multi-point lock or multi-latching cremone hardware available
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat.

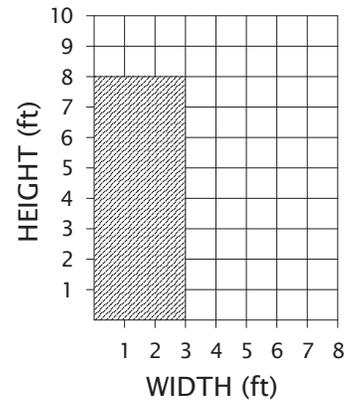


THRESHOLD DETAIL

Details are full scale.

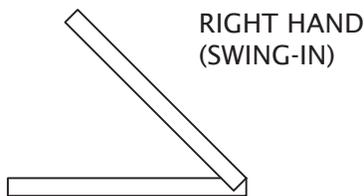
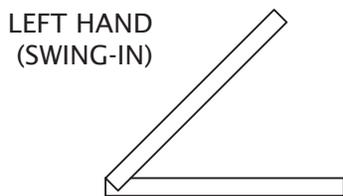
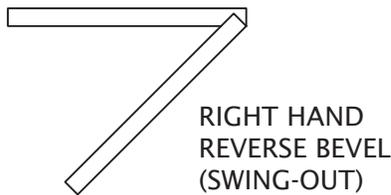
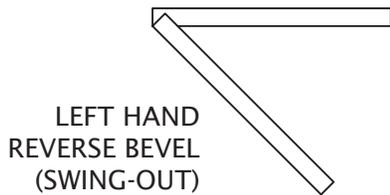


RECOMMENDED SIZES

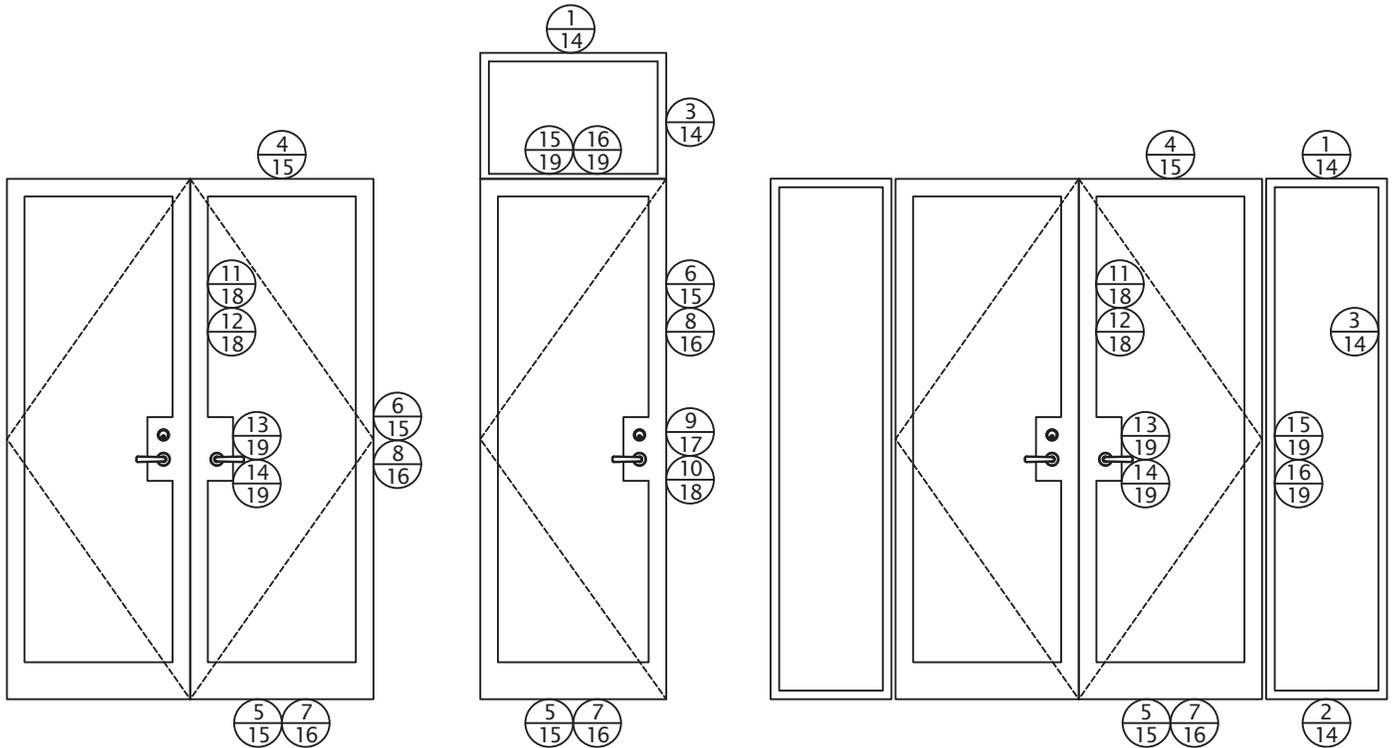


Size based on 3/4" insulating glass with 1/4" panes.

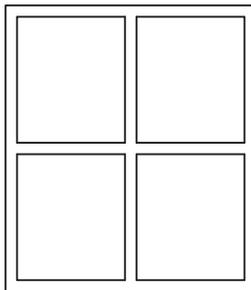
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



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

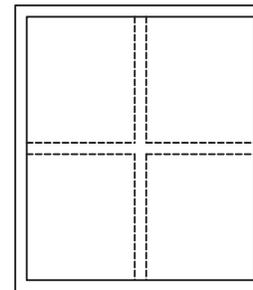


TRUE
DIVIDED
LITES (TDL)

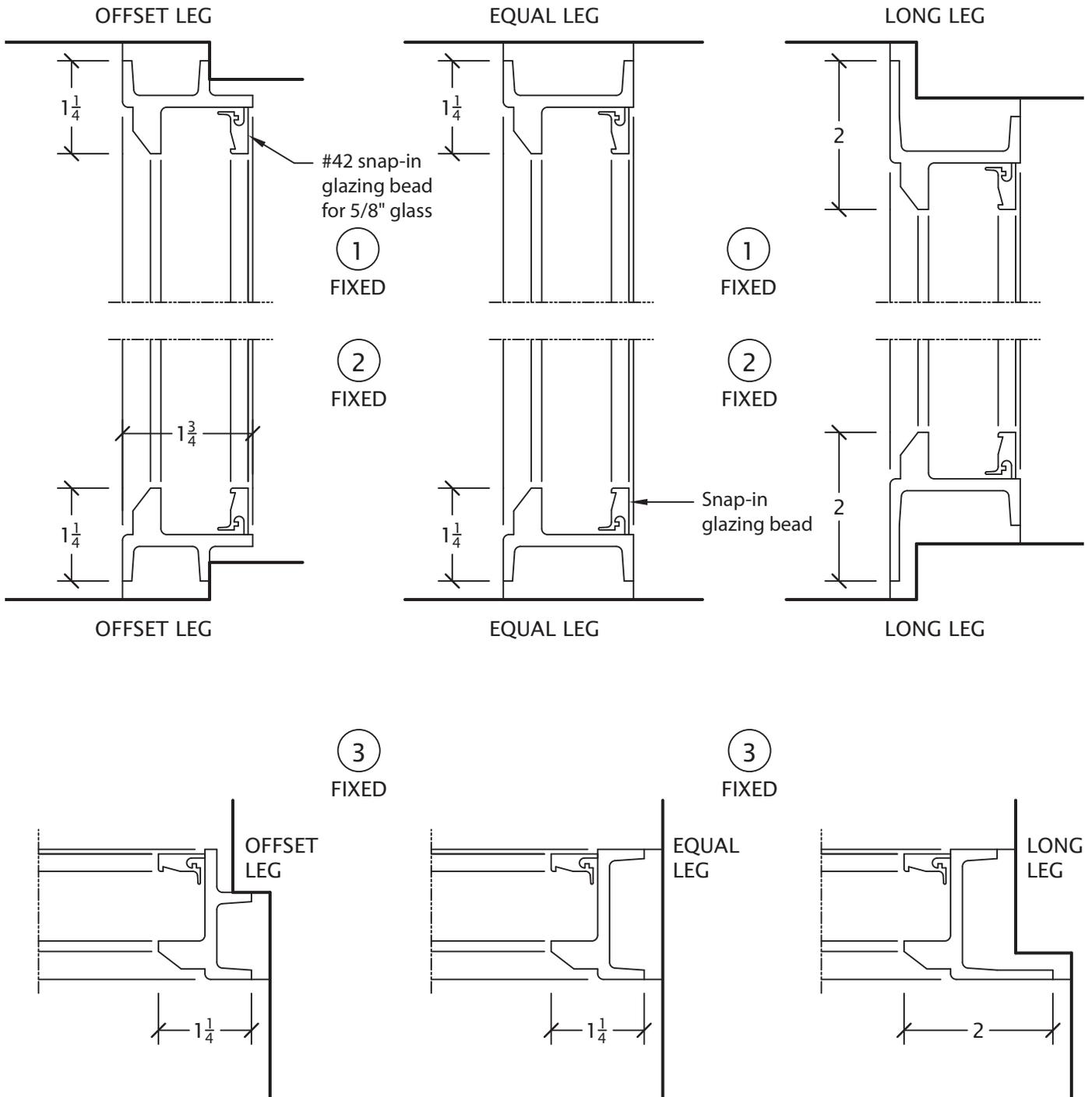


FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION

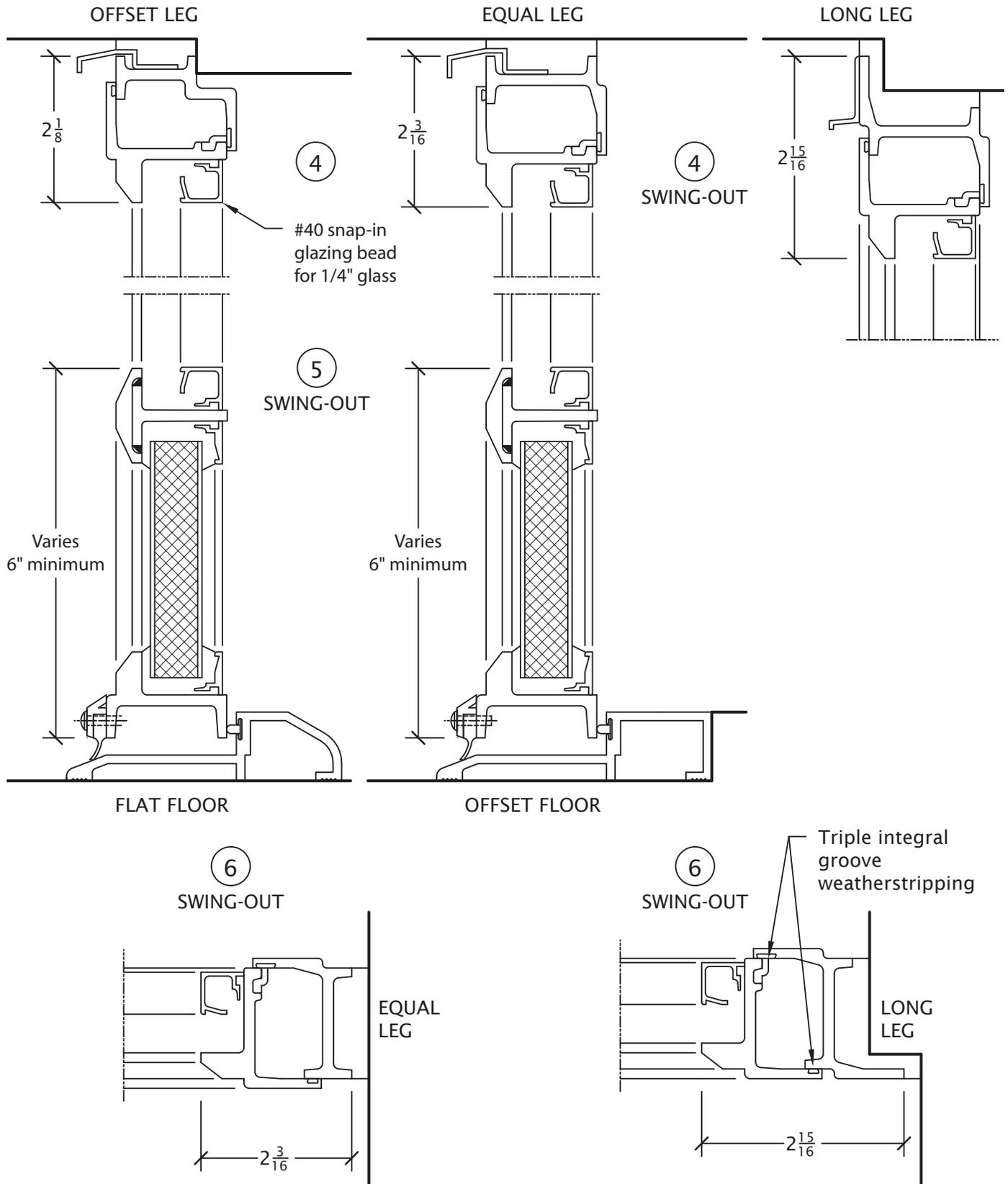
SIMULATED
DIVIDED
LITES (SDL)
(MUNTIN
GRIDS)



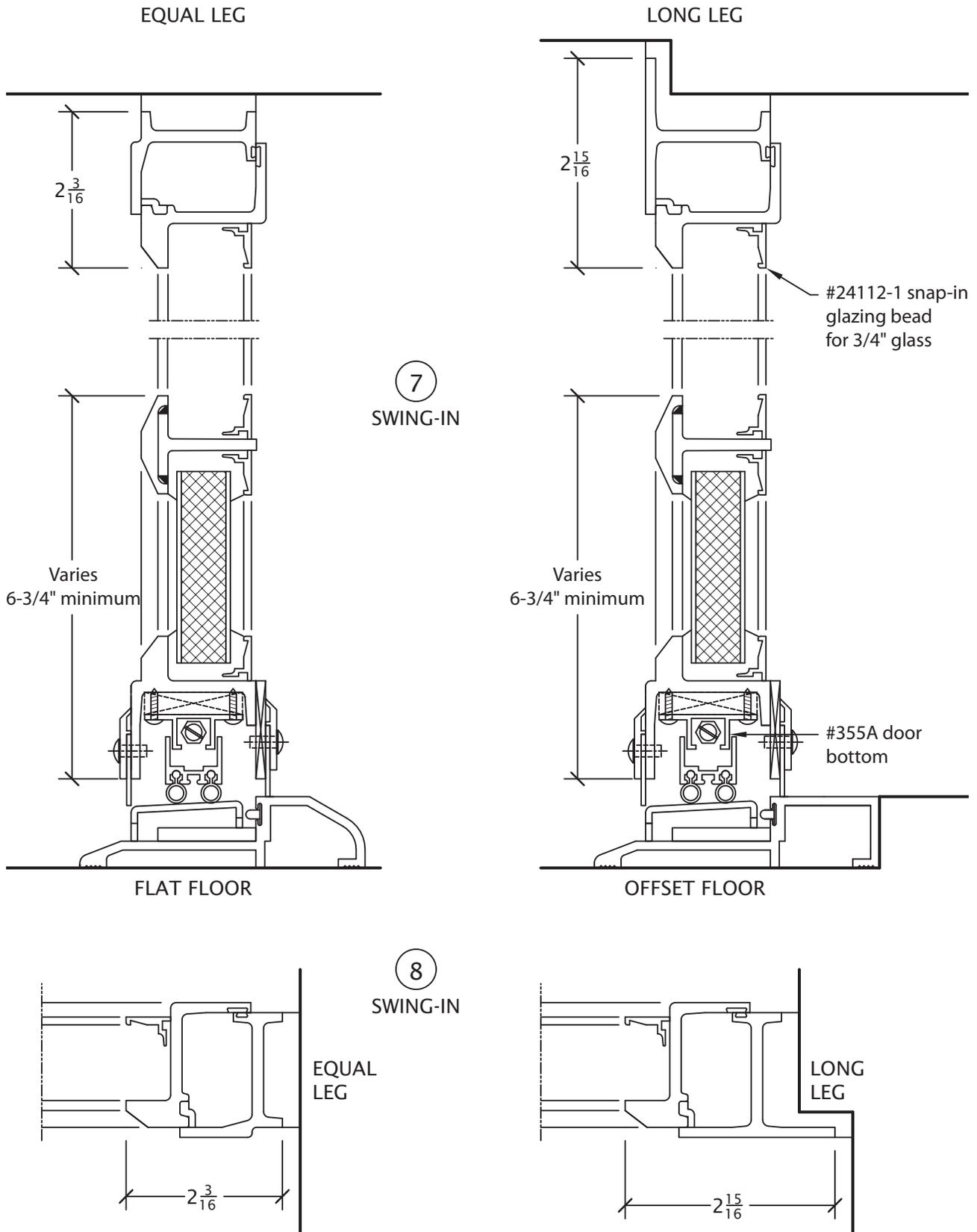
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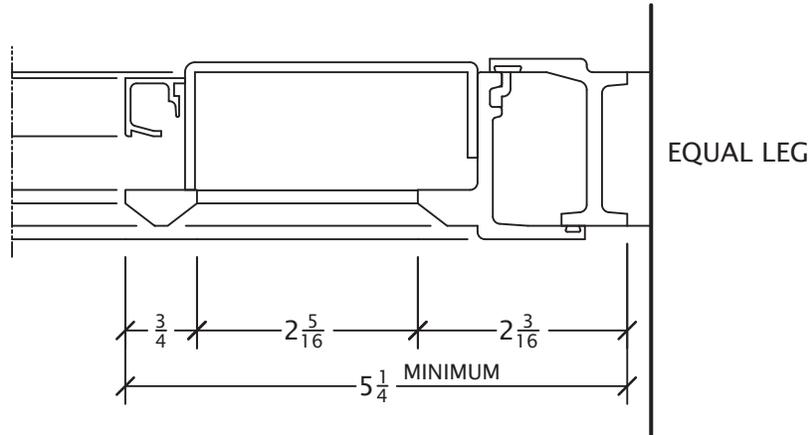
Details are half scale and shown inside glazed with 5/8" glass.
See page 20 for further glazing bead options.



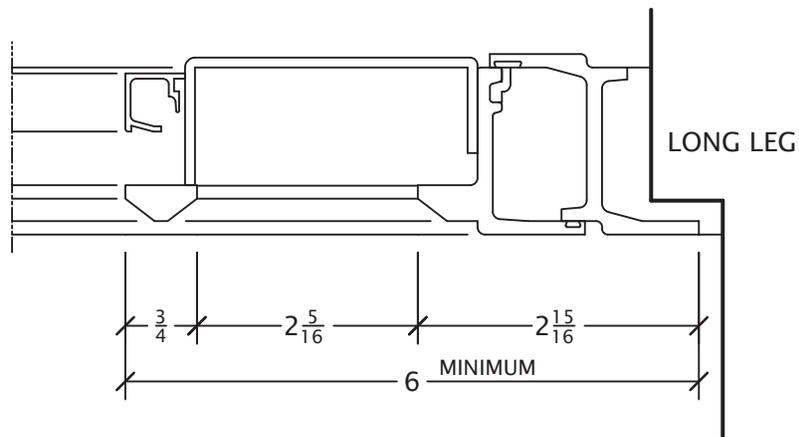
Details are half scale and shown inside glazed with 1/4" glass.
See page 20 for further glazing bead options.



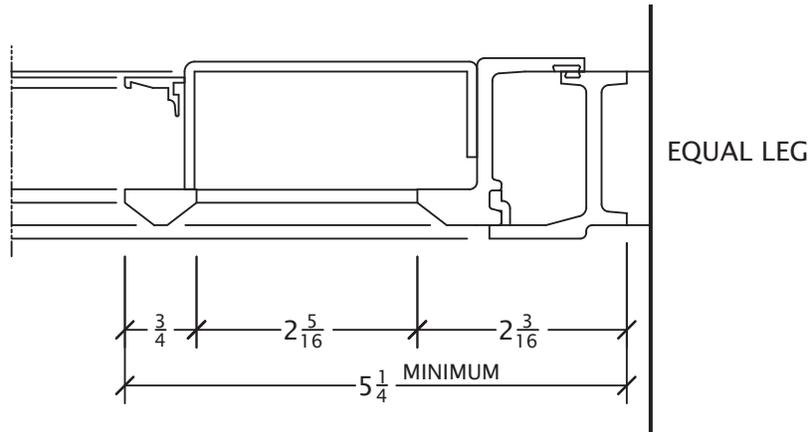
Details are half scale and shown inside glazed with 3/4" glass.
See page 20 for further glazing bead options.



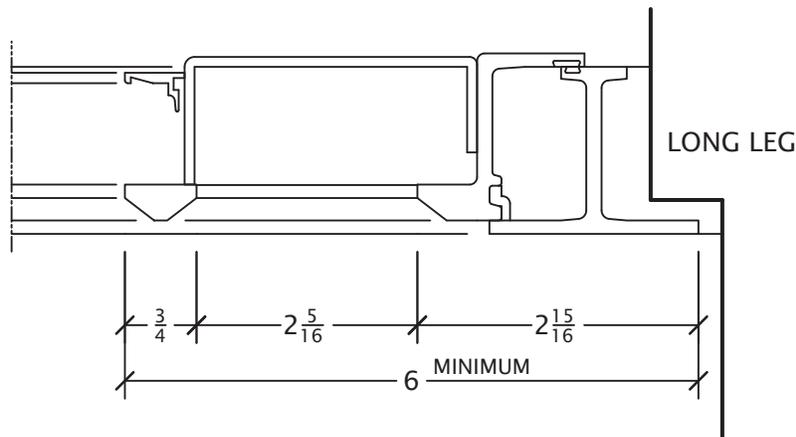
9
SWING-OUT



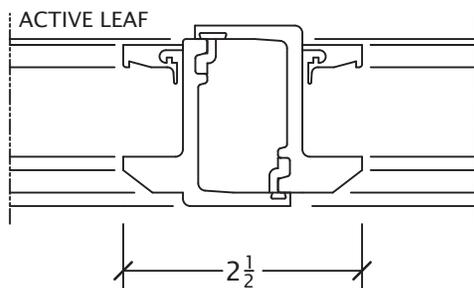
Details are half scale and shown inside glazed with 1/4" glass.
See page 20 for further glazing bead options.



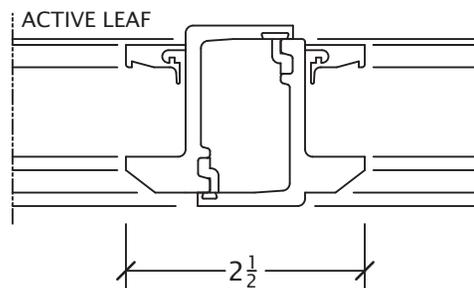
⑩
SWING-IN



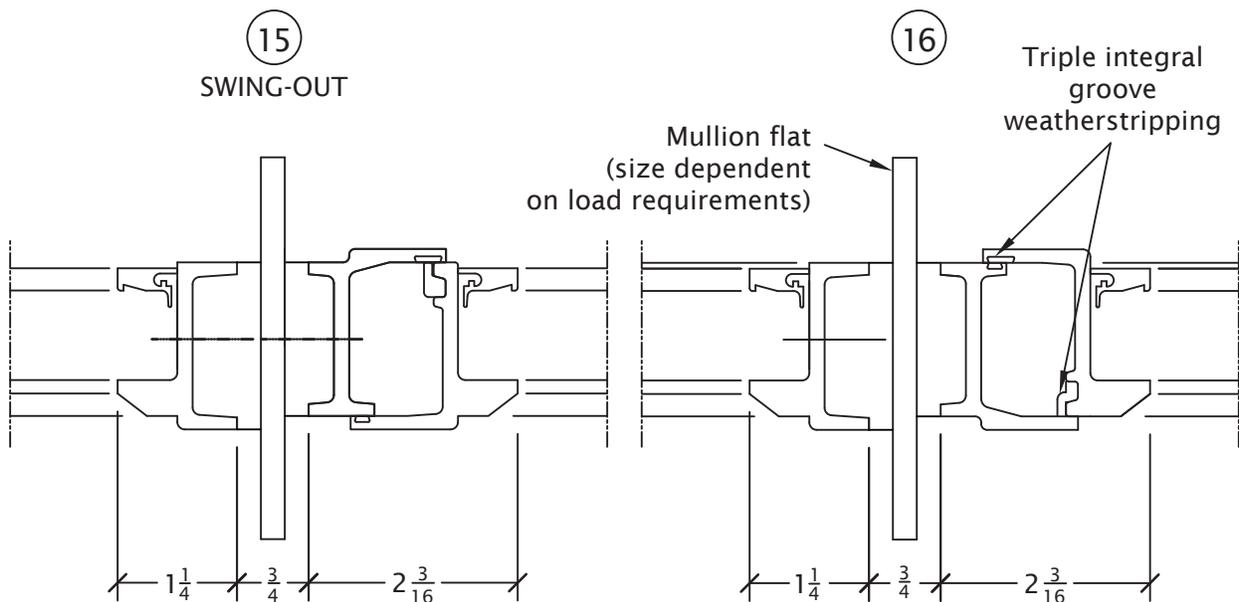
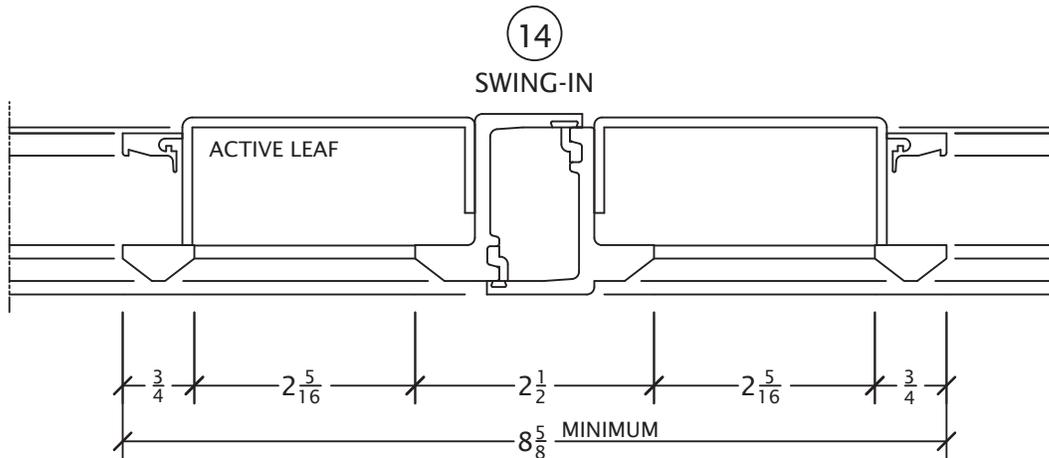
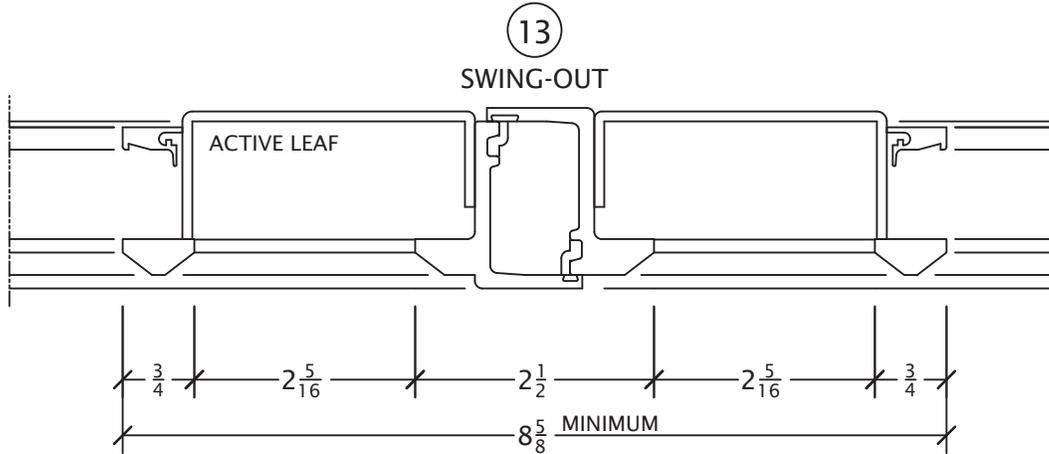
⑪
SWING-OUT



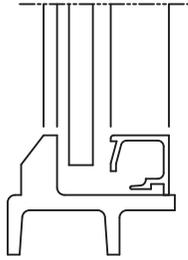
⑫
SWING-IN



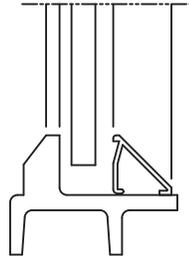
Details are half scale and shown inside glazed with 3/4" glass.
See page 20 for further glazing bead options.



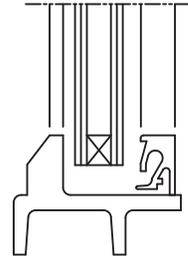
Details are half scale and shown inside glazed with 5/8" glass.
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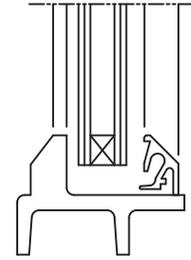
1/4" GLASS
#40 BEAD



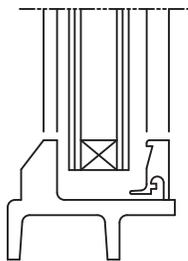
1/4" GLASS
#240 BEAD



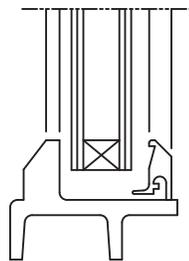
1/2" GLASS
#41 BEAD



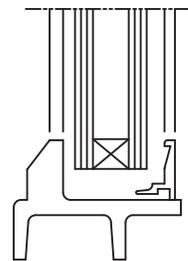
1/2" GLASS
#241 BEAD



5/8" GLASS
#42 BEAD



5/8" GLASS
#242 BEAD



3/4" GLASS
#24112-1 BEAD

GLAZING BEAD NOTES

Hope's offers various types of glazing beads including: snap-in, hook-on and screw-on.

Consult Hope's for other options.

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

Details are half scale and shown inside glazed.