



HOPE'S®

THE WORLD'S FINEST WINDOWS AND DOORS SINCE 1912

Hope's® Windows, Inc. is the nation's leading and most experienced manufacturer of custom designed, solid hot-rolled steel and solid bronze window and door systems, specializing in historic preservation, cultural, institutional, commercial and luxury residential applications. Hope's windows and doors are custom designed and handcrafted to help architects achieve even the most technically challenging design visions – with unlimited shapes, sizes, finishes and profiles.

Hope's solid steel windows are strong enough to afford minimized frame size and maximized glass area, offering the best views. Hope's advanced finishing system ensures that all Hope's steel windows and doors last longer than any other available, even under the most extreme environmental conditions.

For more information, call 716-665-5124 and visit our website at www.hopeswindows.com.



Tom Arban Photography, Inc.



HOPE'S®

THE WORLD'S FINEST WINDOWS AND DOORS SINCE 1912

	SECTION	PDF
Jamestown175™ Series Steel Windows & Doors	1-36	5-40
Fixed, Projected & Casement Steel Windows	1	5
Top Hung & Pivoted Steel Windows	11	15
Single Hung Steel Windows.....	21	25
Swing Steel Doors	27	31
Landmark175™ Series Steel Windows & Doors	1-20	41-60
Fixed, Projected & Casement Steel Windows	1	41
Swing Steel Doors	11	51
University Series™ Steel Windows & Doors	1-20	61-80
Fixed, Projected & Casement Steel Windows	1	61
Swing Steel Doors	11	71
One55™ Series Steel Windows & Doors	1-16	81-96
Fixed, Projected, Casement & Horizontally Pivoted Steel Windows	1	81
Swing Steel Doors	7	87
5000 Series™ Steel Doors & Windows	1-36	97-132
Swing Steel Doors	1	97
Lift & Slide Steel Doors	13	109
Steel Windows	23	119
Lift & Slide Steel Windows.....	29	125
Hopkins Series™ Slide & Fold Steel Doors	1-8	133-140
Empire Bronze™ Windows & Doors	1-16	141-156
Fixed, Projected & Casement Bronze Windows.....	1	141
Swing Bronze Doors	7	147
Thermal Evolution™ Technology	1-38	157-194
Landmark175™ Series Thermal Steel Windows.....	1	157
Landmark175™ Series Thermal Swing Steel Doors	11	167
One55™ Series Thermal Steel Windows.....	19	175
One55™ Series Thermal Swing Steel Doors	31	187
Impact Approved Steel & Bronze Windows & Doors	1-26	195-220
Jamestown175™ Series Steel Windows	1	195
Jamestown175™ Series Swing Steel Doors	7	201
Hopkins Series™ Slide & Fold Steel Doors	15	209
5000 Series™ Lift & Slide Steel Doors	23	217
Empire Bronze™ Windows & Doors	25	219

Specifications are available
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Jamestown175 Series, Landmark175
Series, University Series, One55
Series, 5000 Series, Hopkins Series,
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Technology are trademarks of Hope's
Windows, Inc.

U.S. Patent No. 8484902 for
Landmark175 Series operable steel
windows & steel doors with Thermal
Evolution Technology.

	SECTION	PDF
Fire Rated Steel Windows & Doors	1-42	..221-262
Jamestown175™ Series Steel Windows	1	..... 221
5000 Series™ Steel Windows	13	..... 233
Jamestown175™ Series Swing Steel Doors	19	..... 239
5000 Series™ Swing Steel Doors	31	..... 251
Hardware	1-120	..263-401
<i>Hope's Signature Residential Hardware with</i>		
<i>Water Street Collections</i>	<i>Insert</i>	<i>..... 263</i>
Residential Window & Door Hardware	1	..... 281
Impact Approved Window & Door Hardware	37	..... 317
Empire Bronze™ Window & Door Hardware	49	..... 329
<i>Commercial Hardware Finishes</i>	<i>Insert</i>	<i>..... 351</i>
Commercial Window & Door Hardware	71	..... 352
Fire Rated Window & Door Hardware	99	..... 380
Muntins, Mullions, Stacks & Deflection Channels.....	1-14	..402-415
Insect Screens.....	1-20	..416-435
Stainless Steel & Bronze Insect Screens.....	1	..... 416
Jamestown175™ Series Screen Doors	7 422
Hopkins Series™ Screen Doors	13 428

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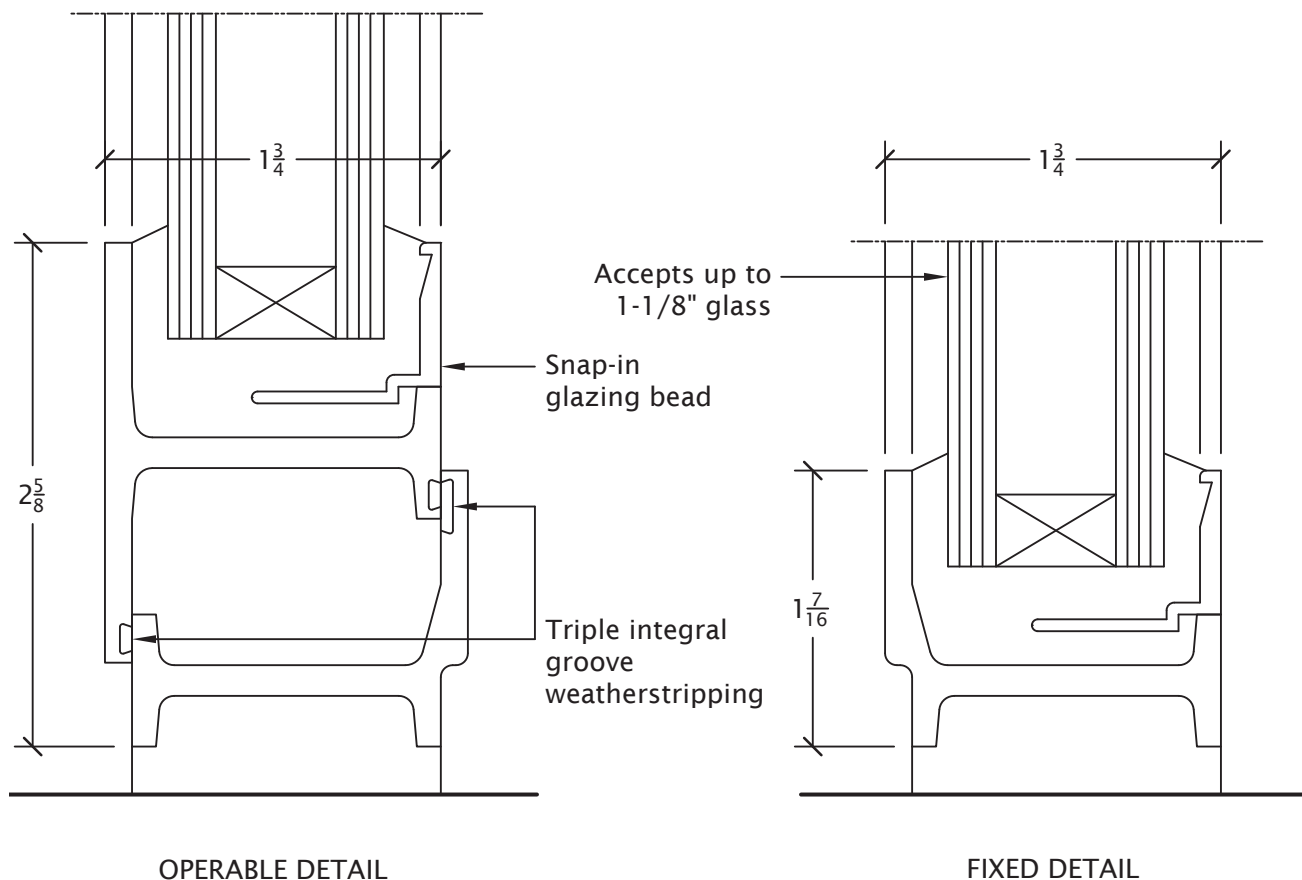
Jamestown175 Series, Landmark175
Series, University Series, One55
Series, 5000 Series, Hopkins Series,
Empire Bronze and Thermal Evolution
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Windows, Inc.

U.S. Patent No. 8484902 for
Landmark175 Series operable steel
windows & steel doors with Thermal
Evolution Technology.

Hope's Jamestown175 Series steel windows are manufactured from heavy custom hot-rolled steel profiles. All frames, ventilators and muntin bars are 1-3/4" in depth.

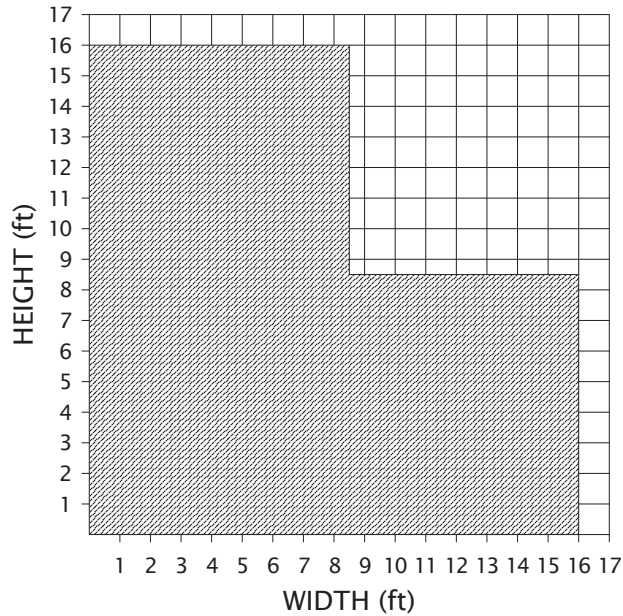
PRODUCT FEATURES

- A 20 percent increase in window profile depth, when compared to Hope's Landmark175™ Series, doubles the moment of inertia (I-value). Improved structural integrity results in larger window sizes without extra reinforcing or mullions.
- Accepts up to 1-1/8" thick glass with flush snap-in glazing beads
- 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.

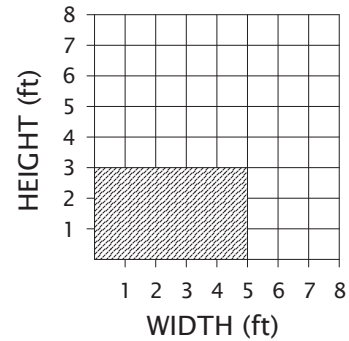


Details are full scale.

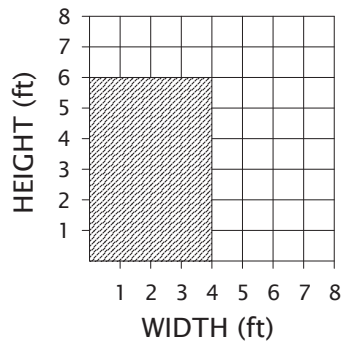
FIXED WINDOWS



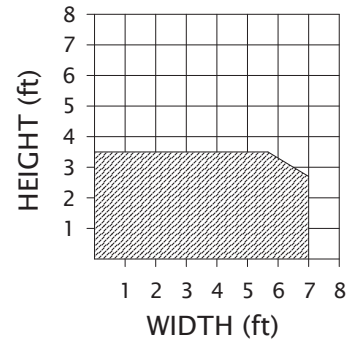
PROJECT-IN VENTILATORS



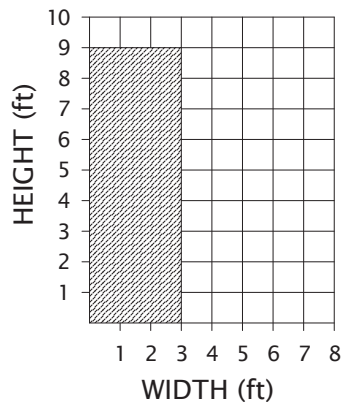
PROJECT-OUT VENTILATORS



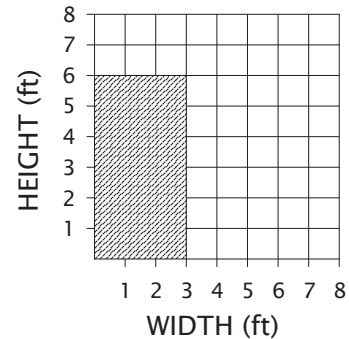
MOTORIZED OPERATOR



CASEMENT VENTILATORS

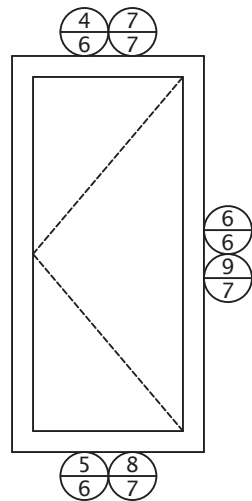
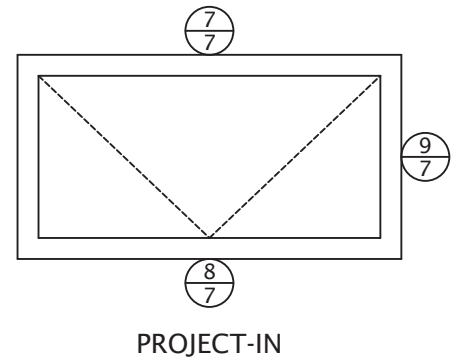
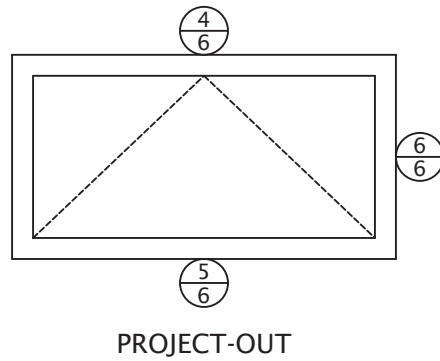
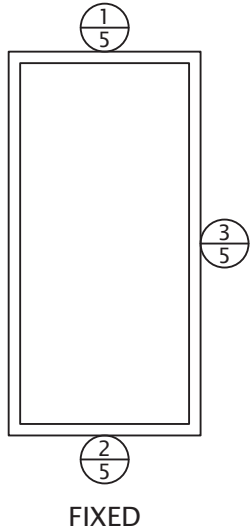


ROTO OPERATOR

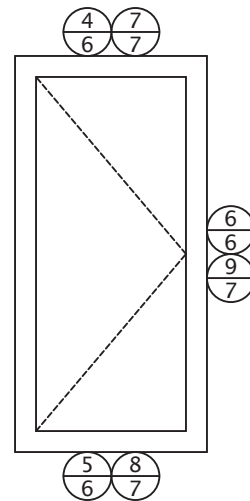


NOTE: Casements over 60" tall
limited to 20° opening

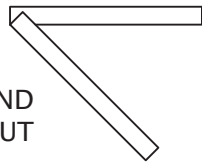
Size based on 1" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



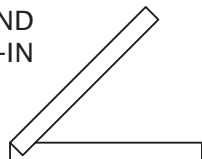
SIDE HUNG-OUT
SIDE HUNG-IN
CASEMENT



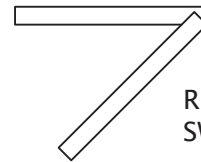
LEFT HAND
SWING-OUT



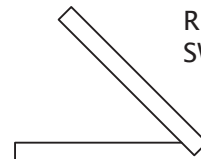
LEFT HAND
SWING-IN



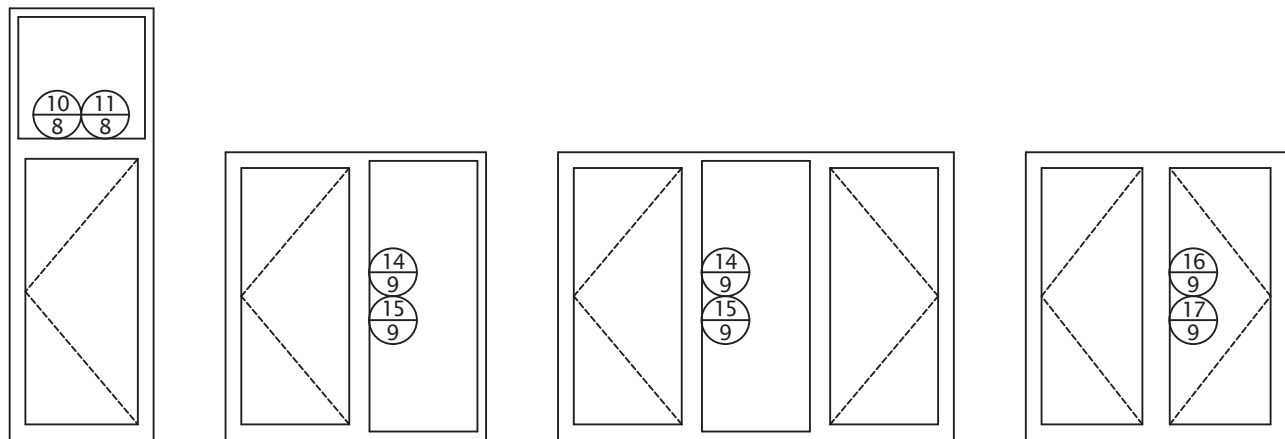
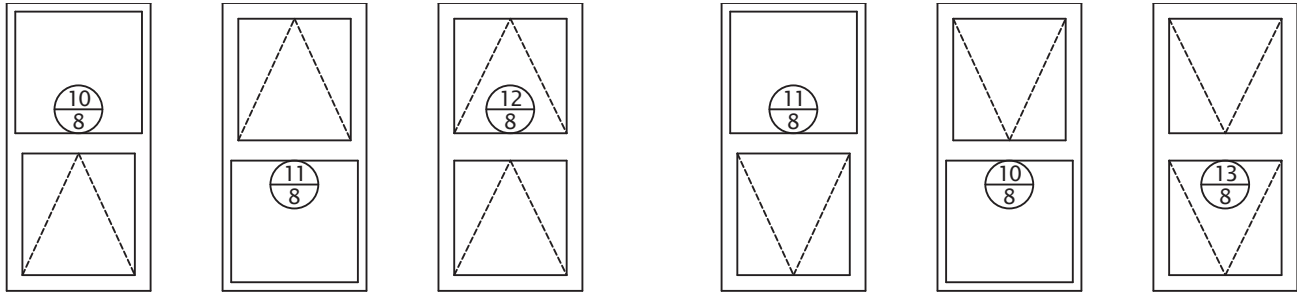
RIGHT HAND
SWING-OUT



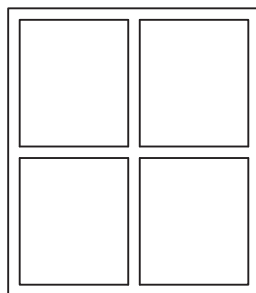
RIGHT HAND
SWING-IN



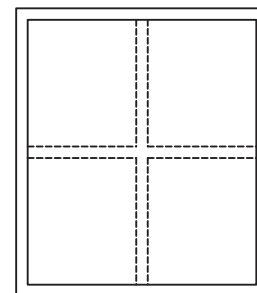
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TRUE
DIVIDED
LITES (TDL)



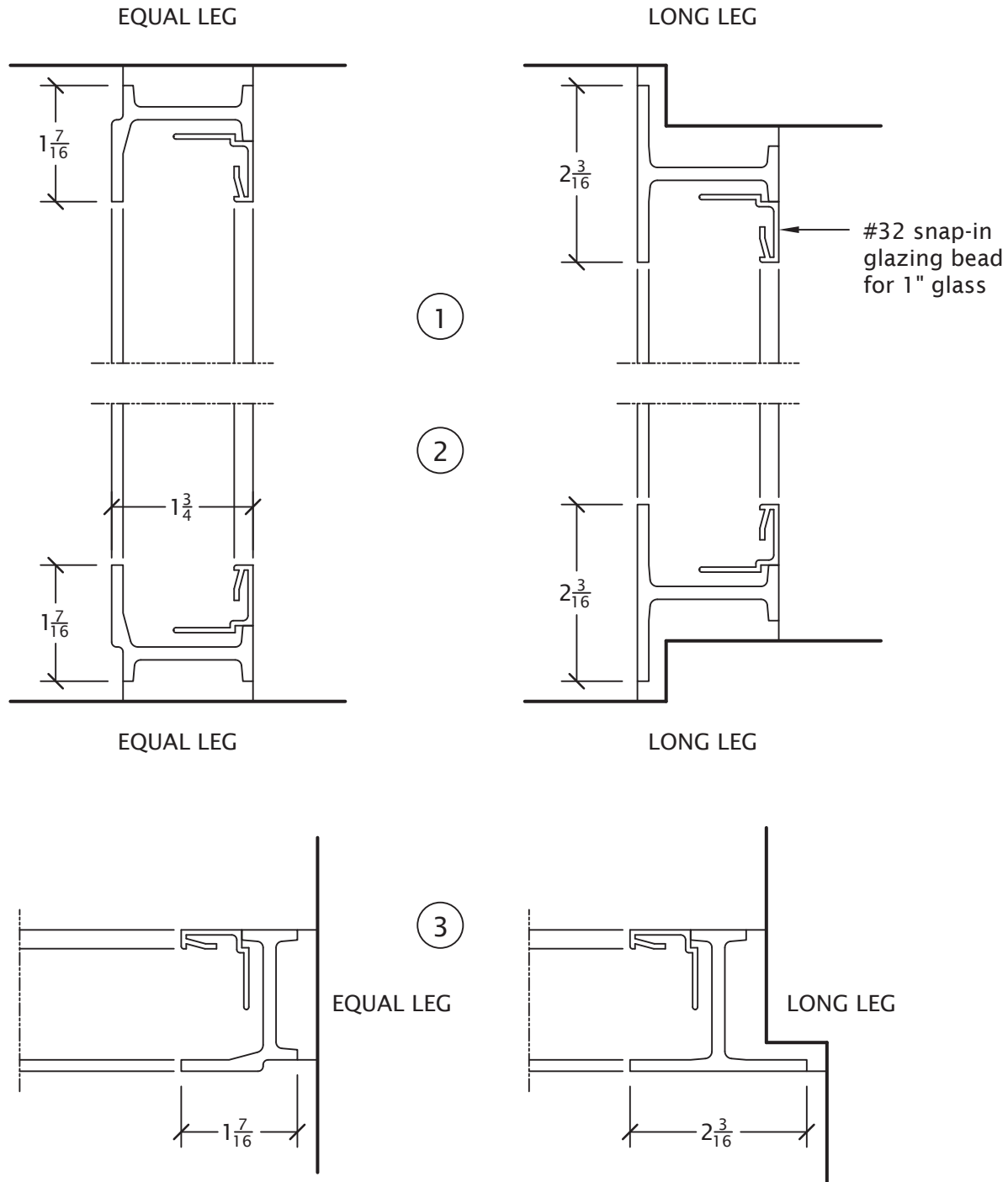
FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION



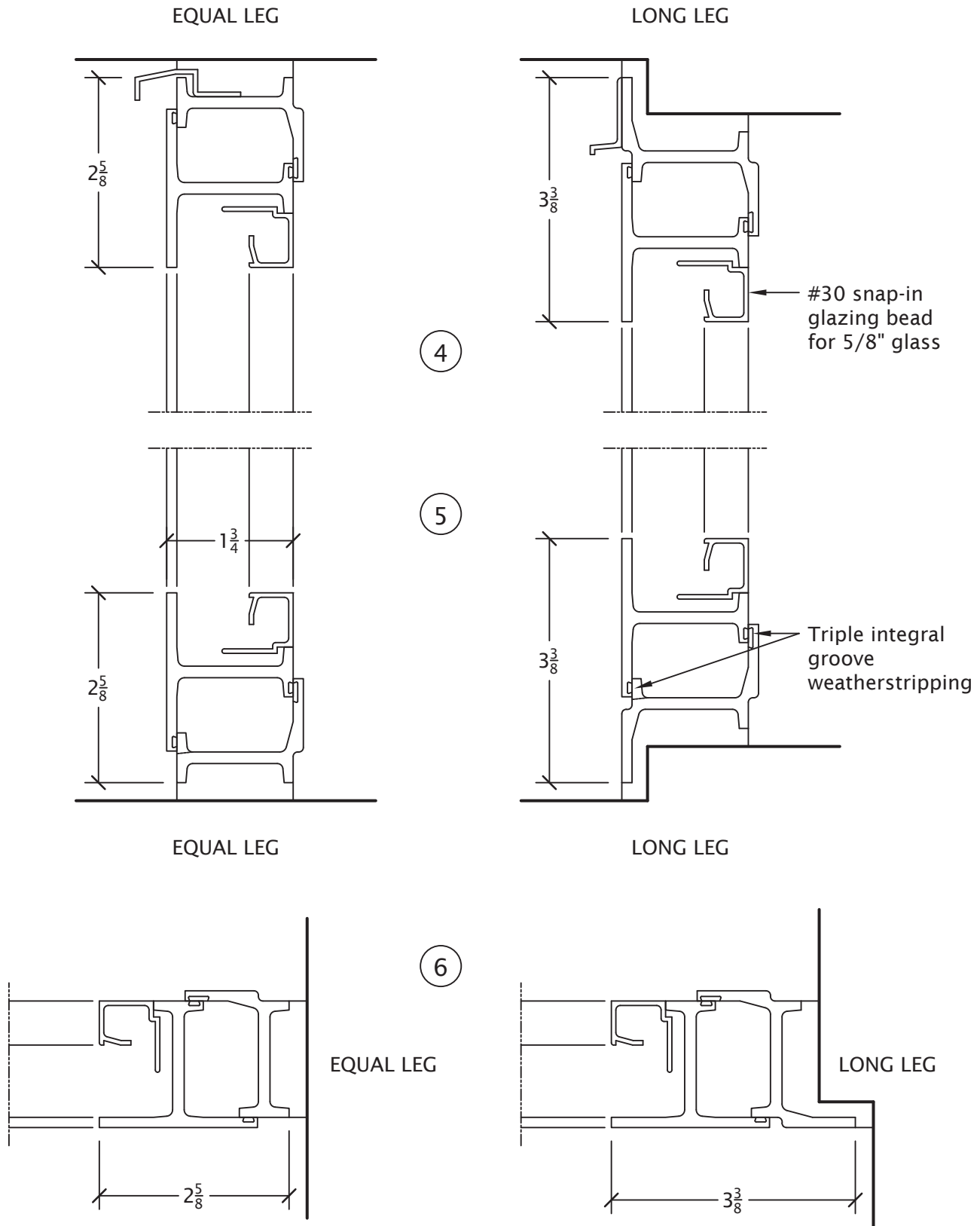
SIMULATED
DIVIDED
LITES (SDL)

(MUNTIN
GRIDS)

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

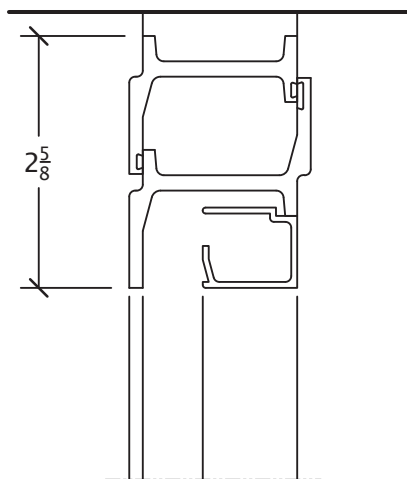


Details are half scale and shown inside glazed with 1" glass.
See page 10 for further glazing bead options.



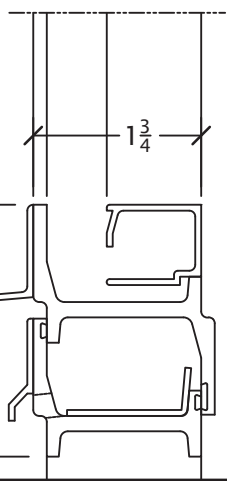
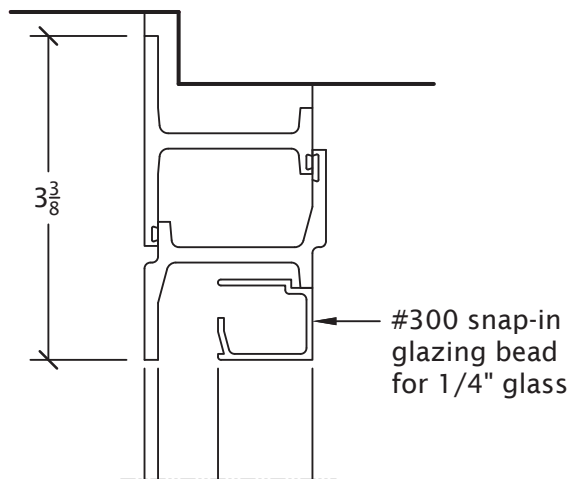
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.

EQUAL LEG

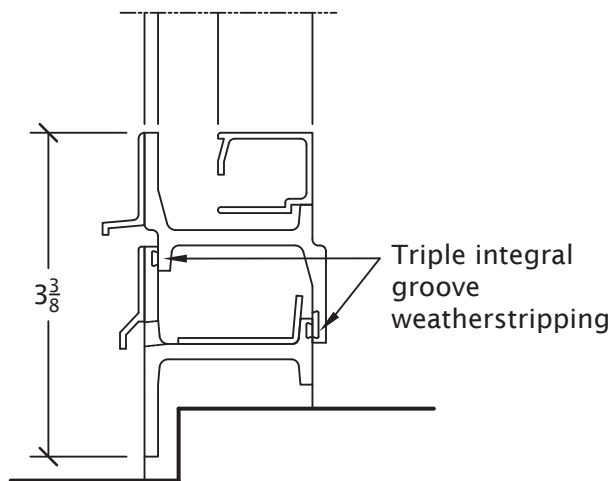


7

LONG LEG

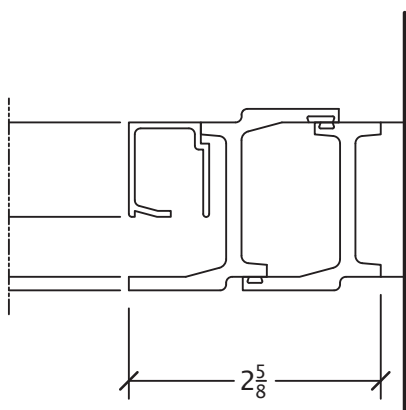


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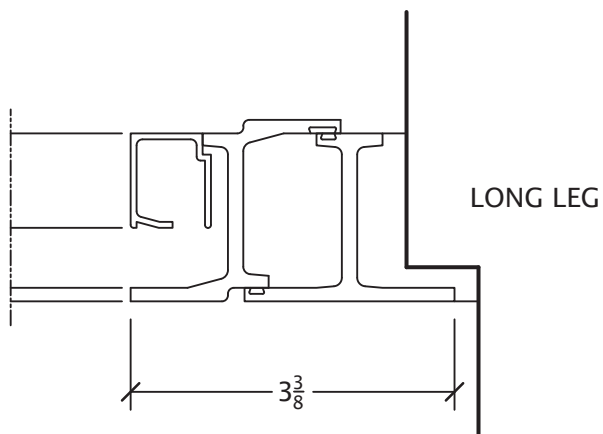
EQUAL LEG

LONG LEG



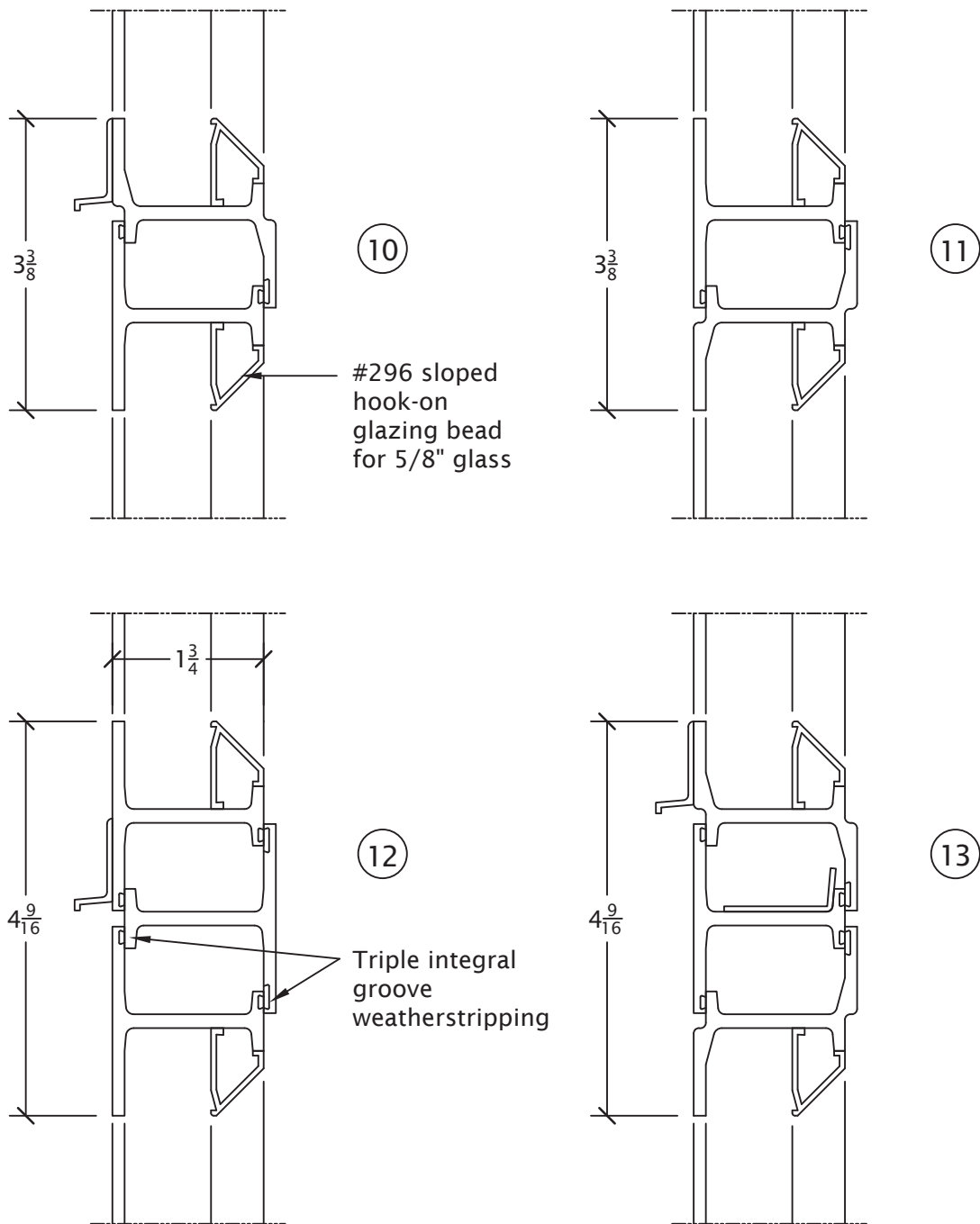
9

EQUAL LEG

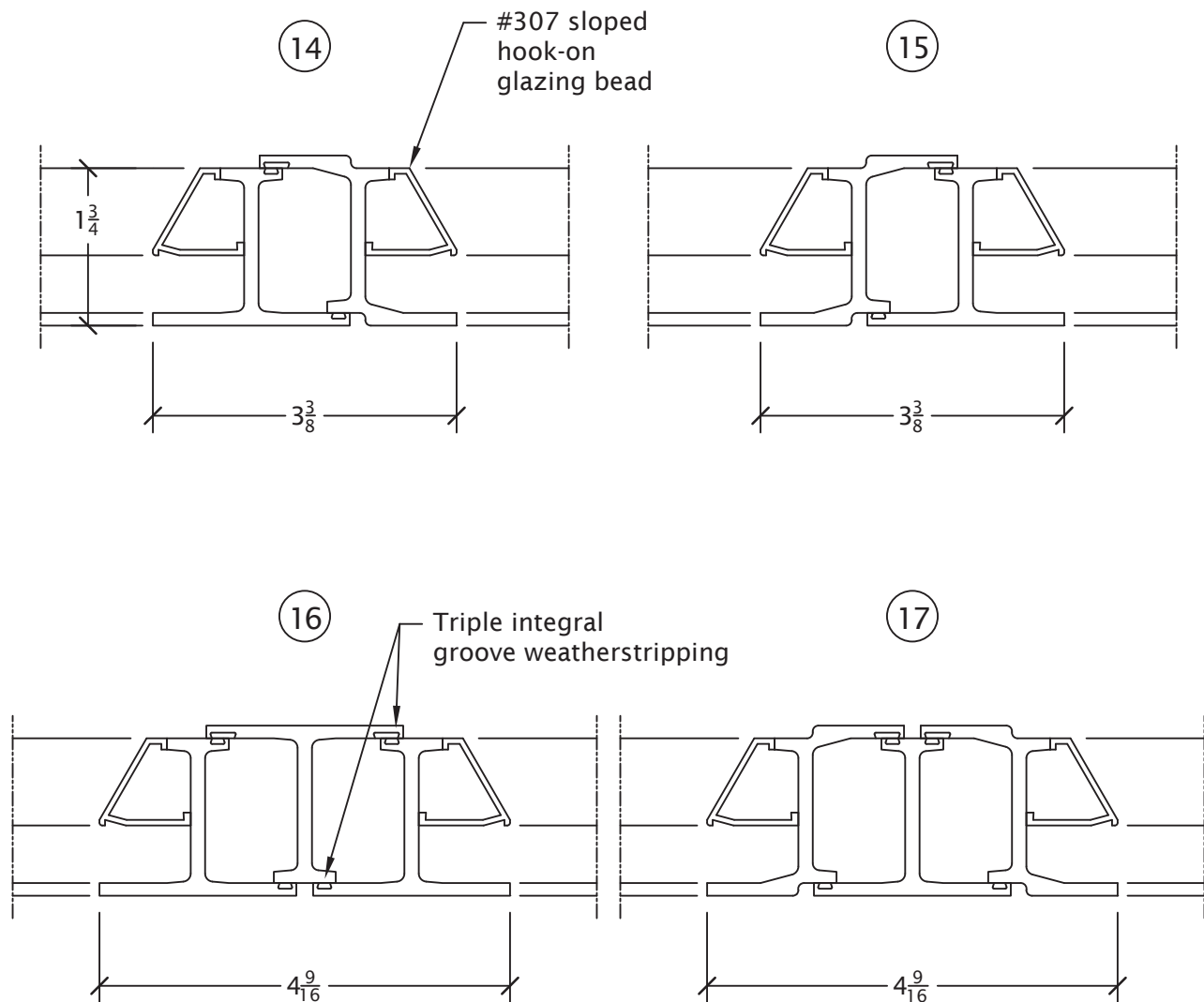


LONG LEG

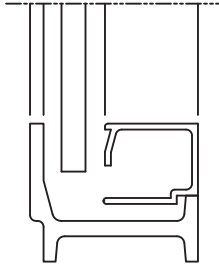
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



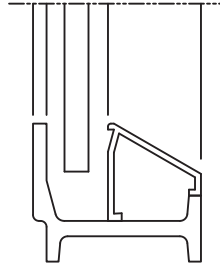
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



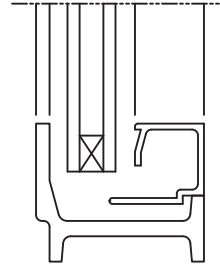
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



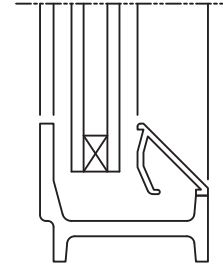
1/4" GLASS
#300 BEAD



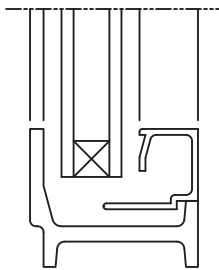
1/4" GLASS
#307 BEAD



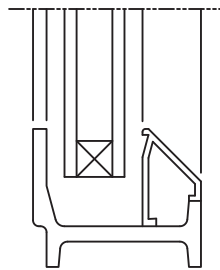
1/2" GLASS
#302 BEAD



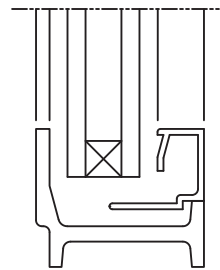
1/2" GLASS
#303 BEAD



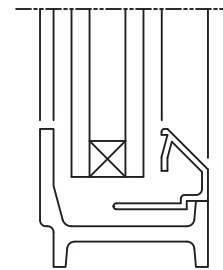
5/8" GLASS
#30 BEAD



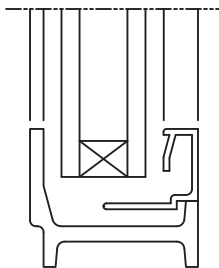
5/8" GLASS
#296 BEAD



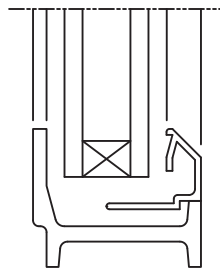
3/4" GLASS
#304 BEAD



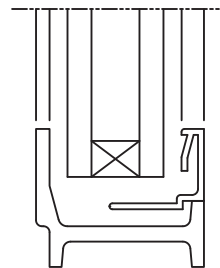
3/4" GLASS
#305 BEAD



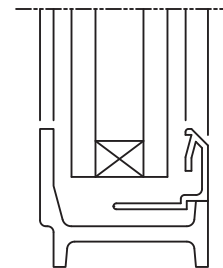
7/8" GLASS
#31 BEAD



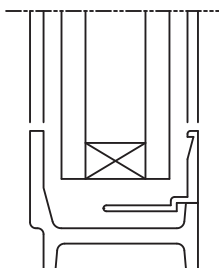
7/8" GLASS
#231 BEAD



1" GLASS
#32 BEAD



1" GLASS
#232 BEAD



1-1/8" GLASS
#33 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.

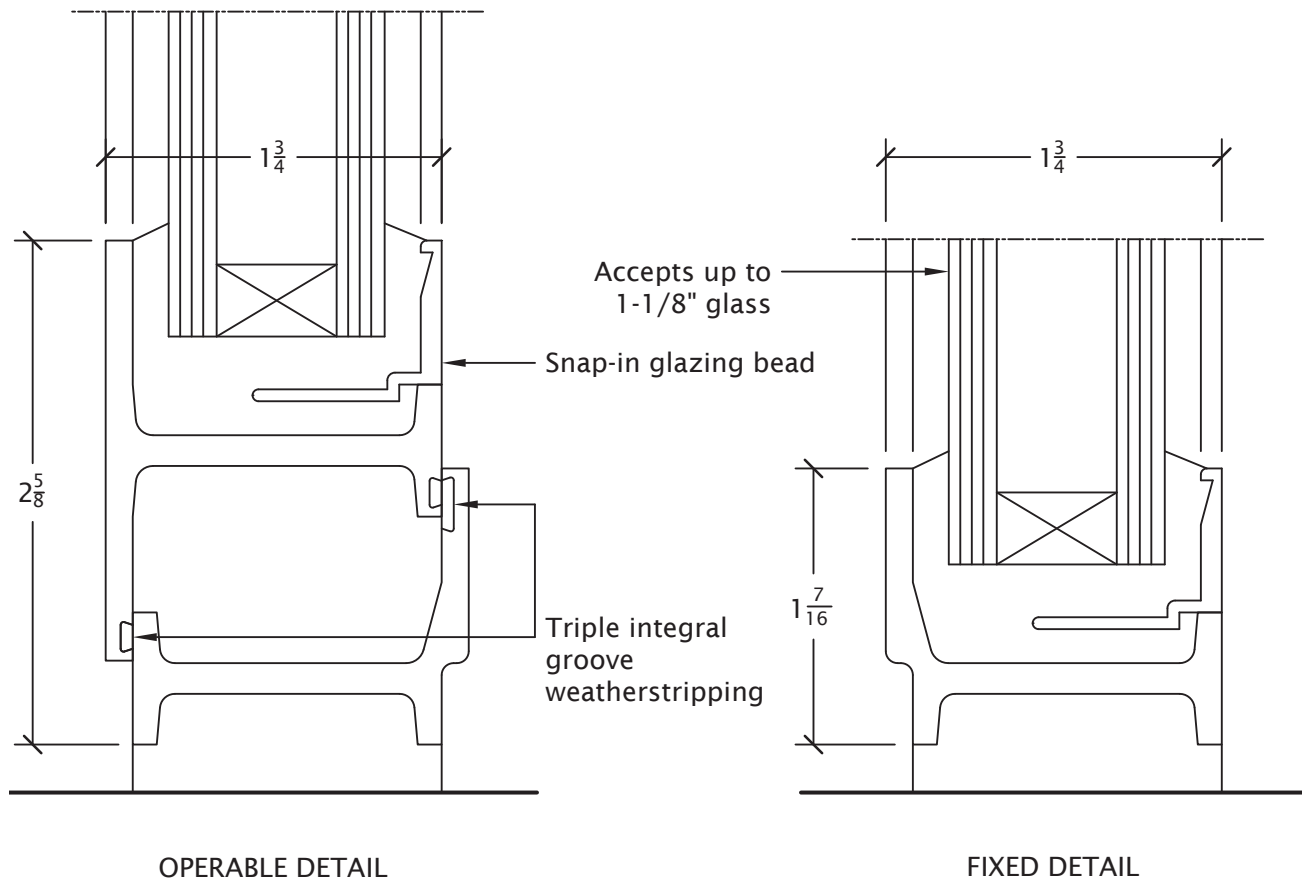
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

The classic heavy custom steel window, manufactured with hot-rolled steel profiles, is available in these specialty configurations. Top hung-out ventilators are designed to accommodate larger ventilators than the typical project-out. Horizontally pivoted windows are commonly used in industrial applications where pole or chain access from the floor is required. Vertically pivoted windows are commonly used in configurations where cleaning adjacent fixed windows is required in a long run of windows.

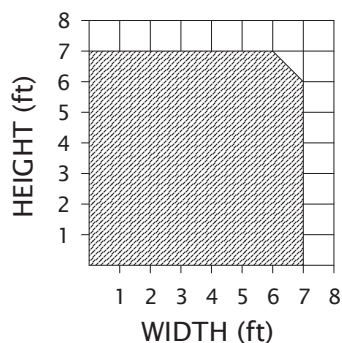
PRODUCT FEATURES

- 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
- This strength allows for larger ventilator sizes without compromising performance
- Accepts up to 1-1/8" thick insulating glass with flush glazing beads
- 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.

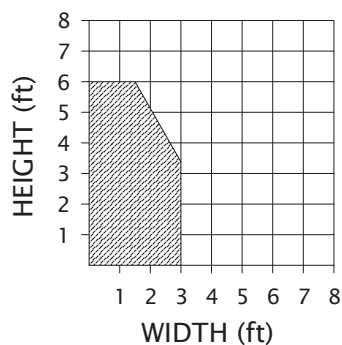


Details are full scale.

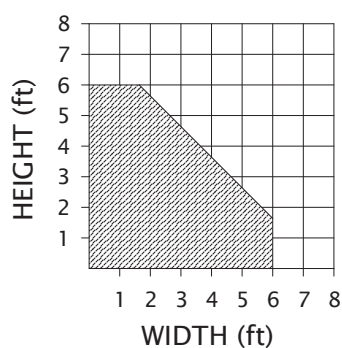
TOP HUNG-OUT VENTILATORS



VERTICALLY PIVOTED VENTILATORS

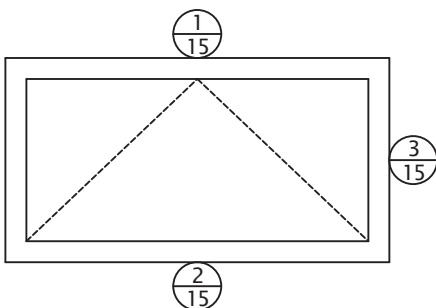


HORIZONTALLY PIVOTED VENTILATORS

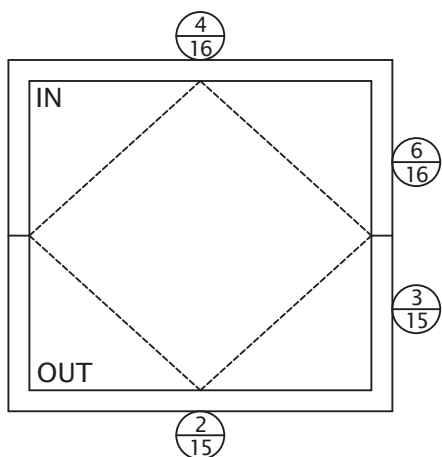


Size based on 1" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.

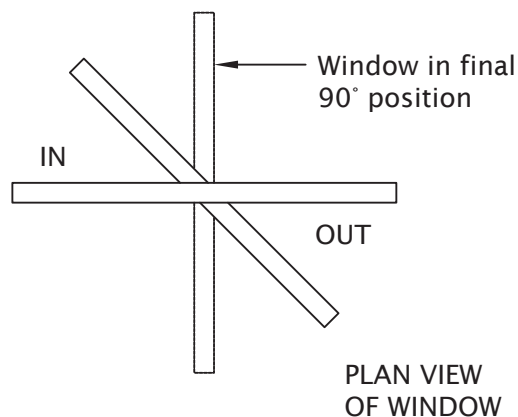
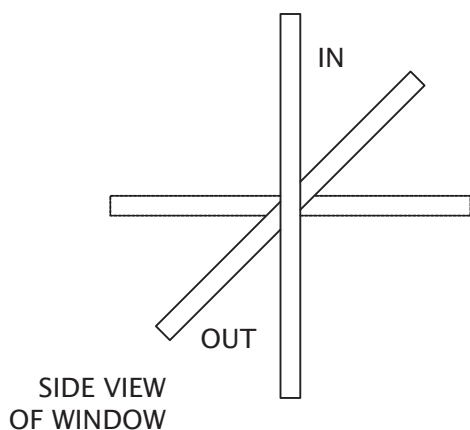
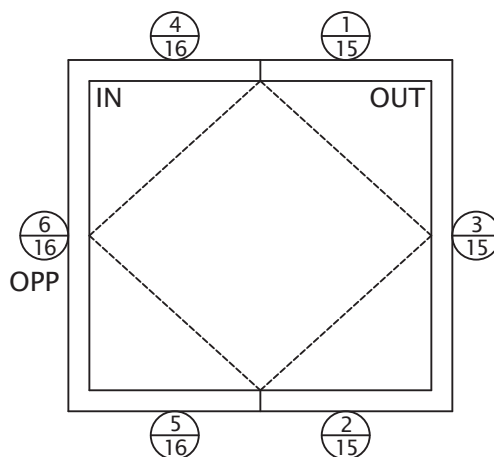
TOP HUNG-OUT



HORIZONTALLY PIVOTED

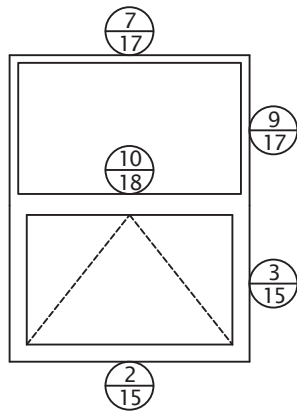


VERTICALLY PIVOTED

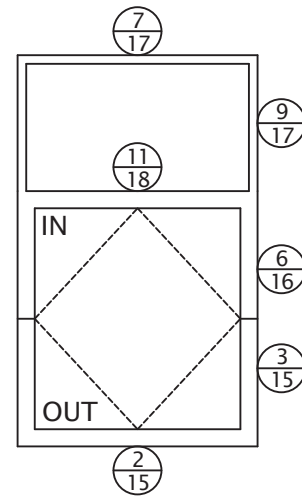


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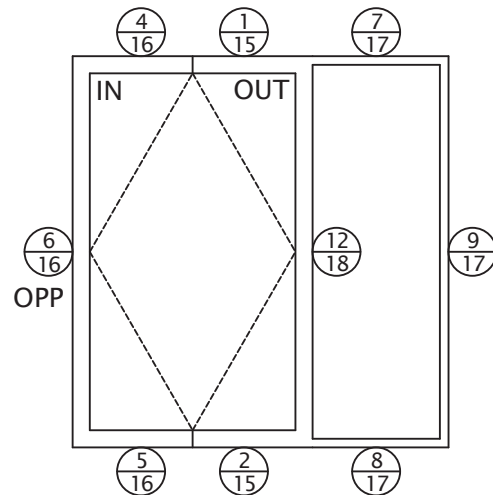
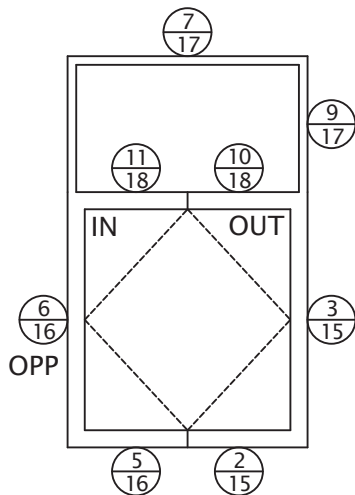
TOP HUNG-OUT



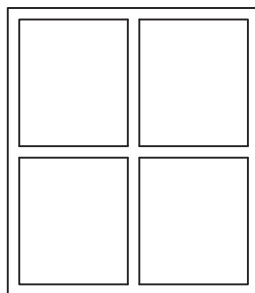
HORIZONTALLY PIVOTED



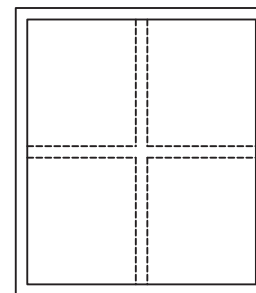
VERTICALLY PIVOTED



TRUE
DIVIDED
LITES (TDL)

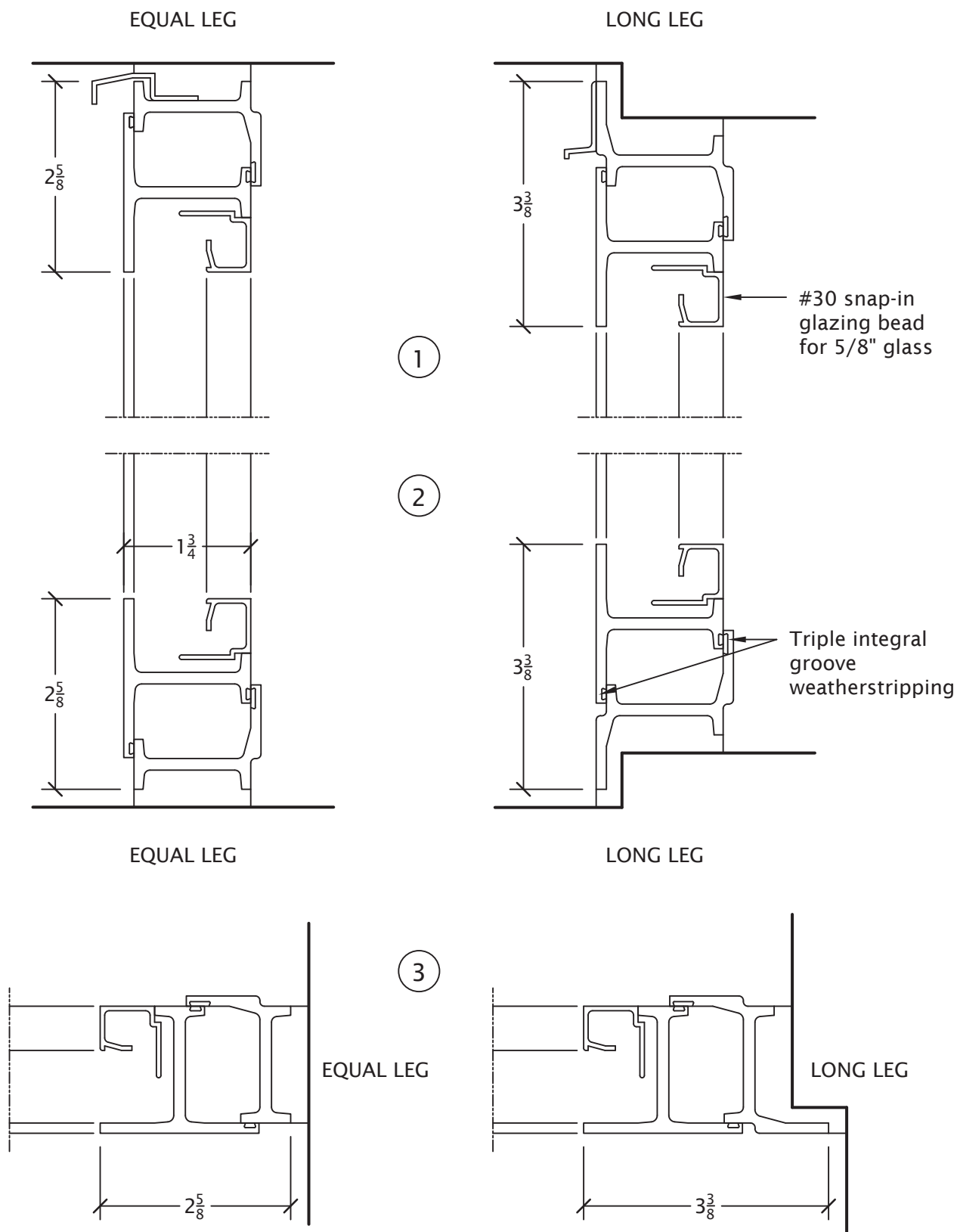


FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION

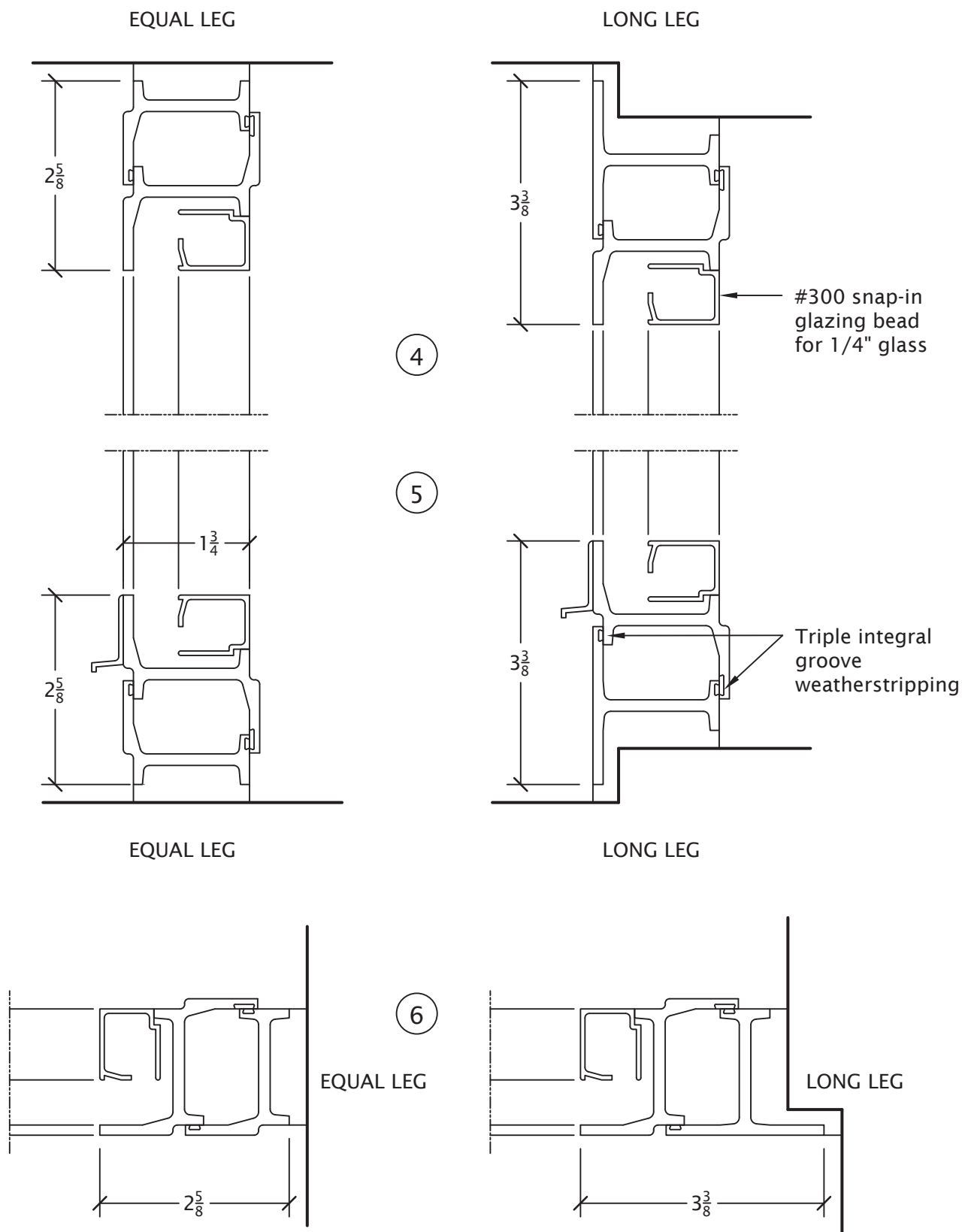


SIMULATED
DIVIDED
LITES (SDL)
(MUNTIN
GRIDS)

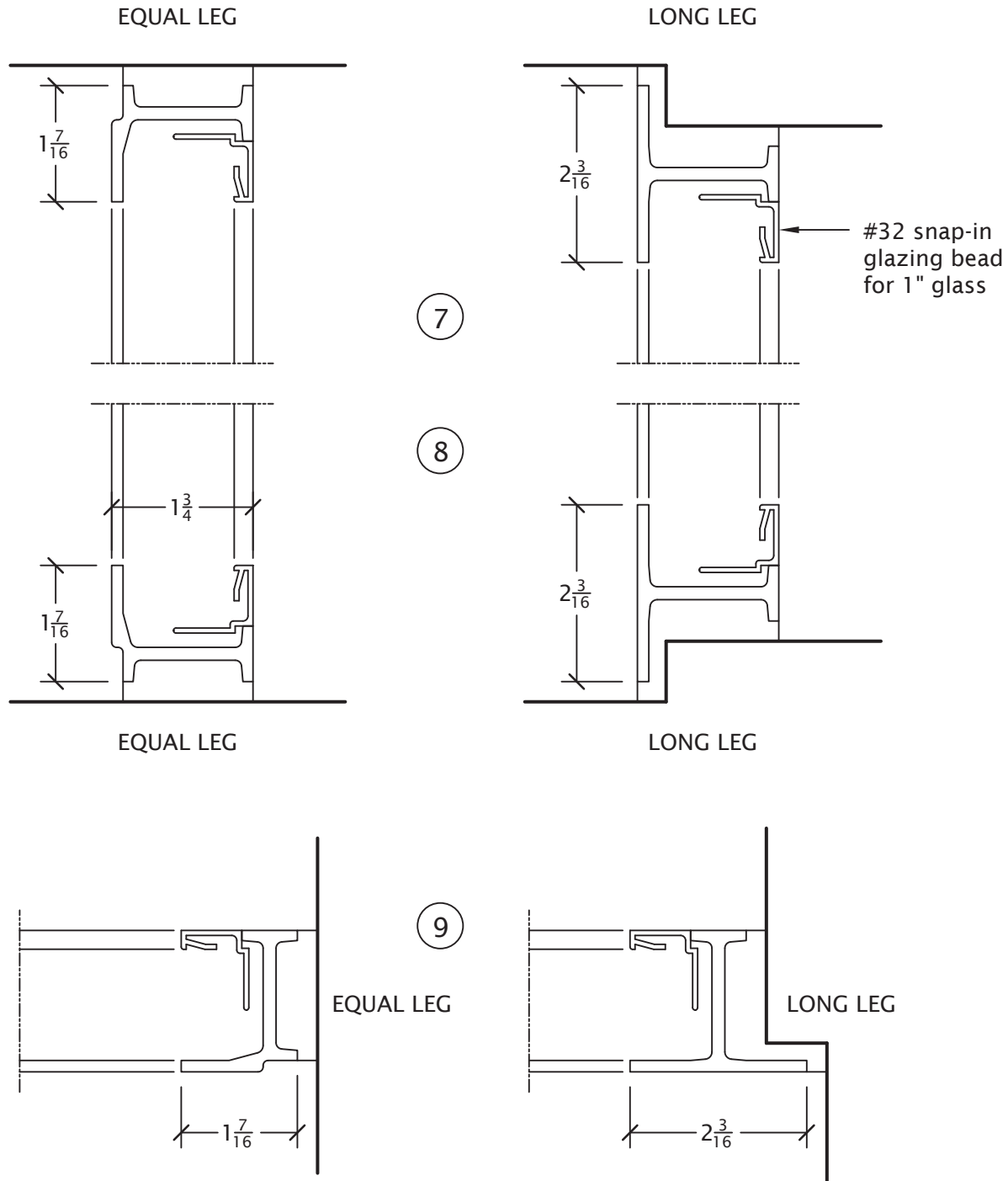
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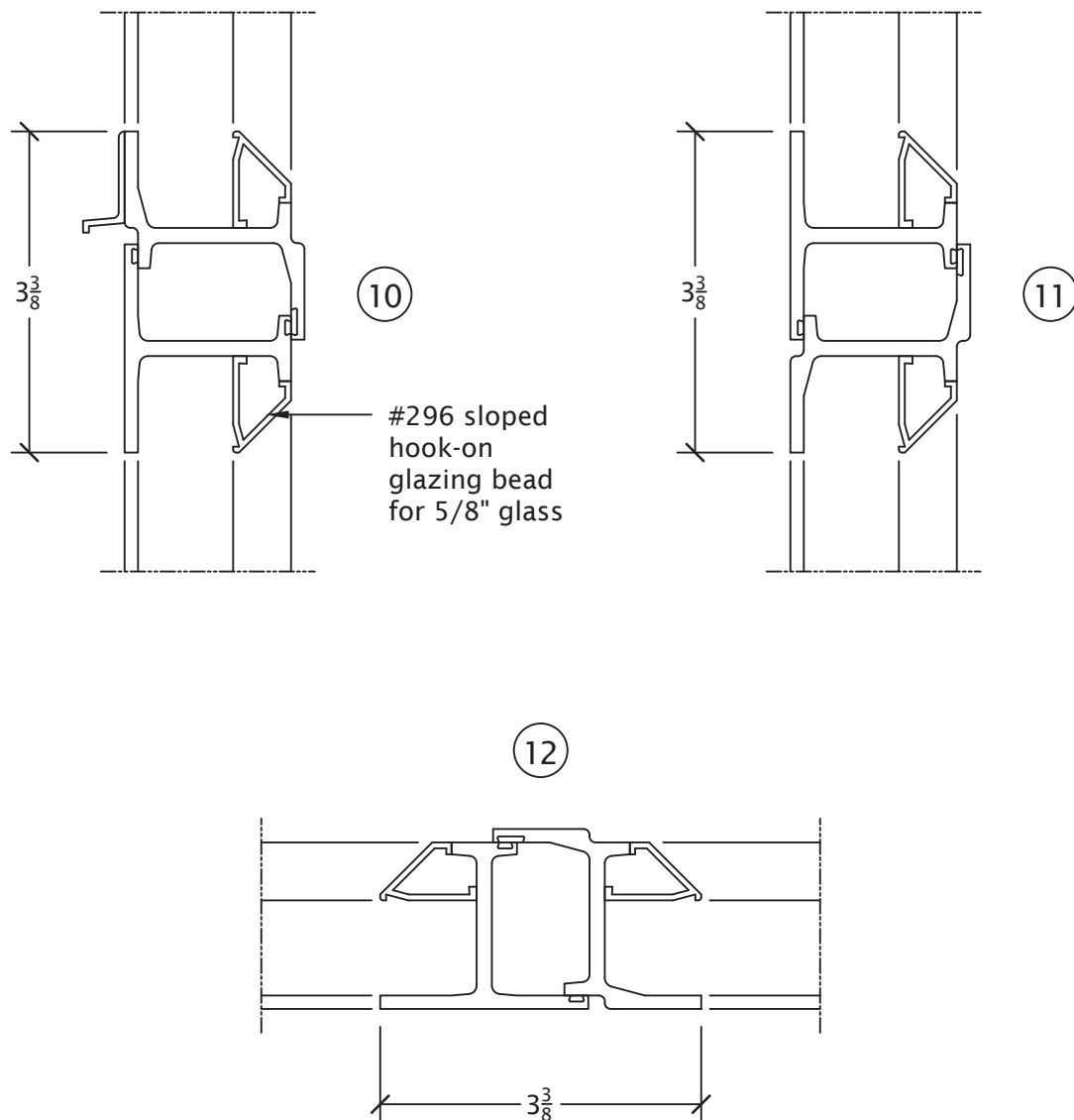
Details are half scale and shown inside glazed with 5/8" glass.
See page 19 for further glazing bead options.



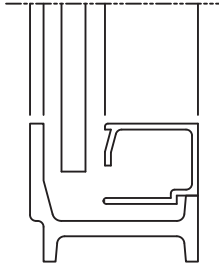
Details are half scale and shown inside glazed with 1/4" glass.
See page 19 for further glazing bead options.



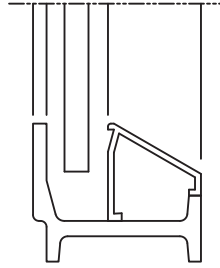
Details are half scale and shown inside glazed with 1" glass.
See page 19 for further glazing bead options.



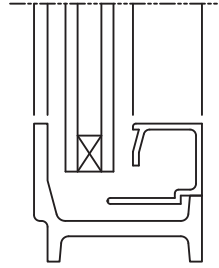
Details are half scale and shown inside glazed with 5/8" glass.
See page 19 for further glazing bead options.



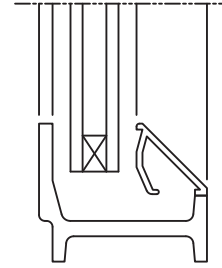
1/4" GLASS
#300 BEAD



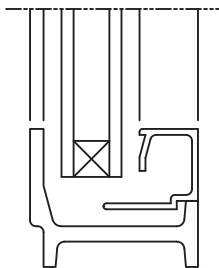
1/4" GLASS
#307 BEAD



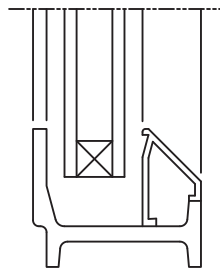
1/2" GLASS
#302 BEAD



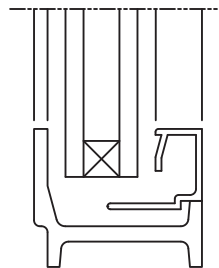
1/2" GLASS
#303 BEAD



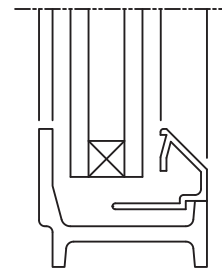
5/8" GLASS
#30 BEAD



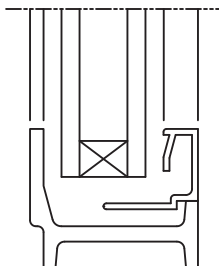
5/8" GLASS
#296 BEAD



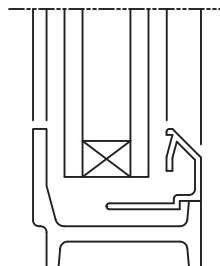
3/4" GLASS
#304 BEAD



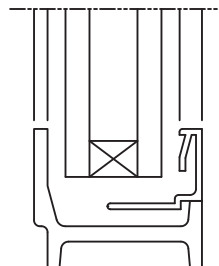
3/4" GLASS
#305 BEAD



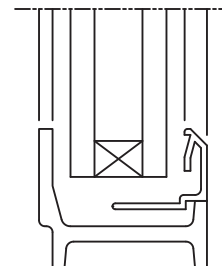
7/8" GLASS
#31 BEAD



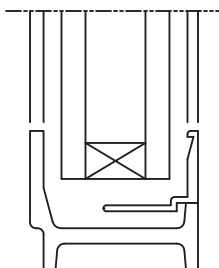
7/8" GLASS
#231 BEAD



1" GLASS
#32 BEAD



1" GLASS
#232 BEAD



1-1/8" GLASS
#33 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.

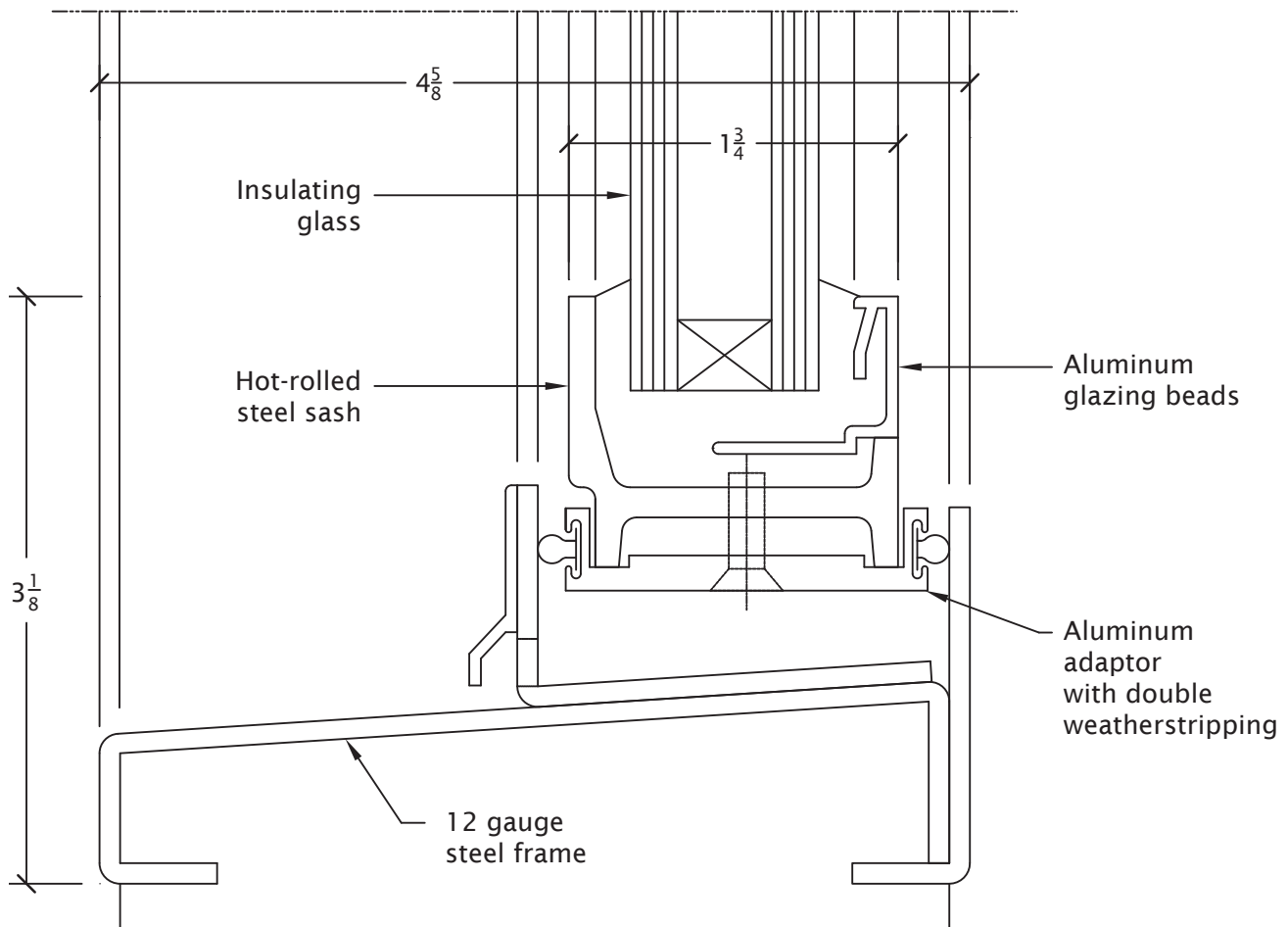
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

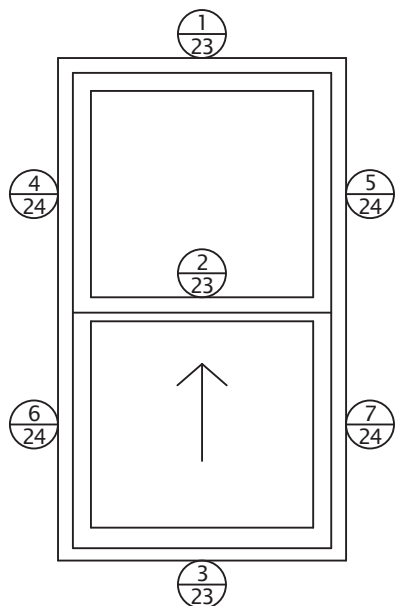
Hope's classic heavy custom steel window is available in single hung configurations. The operable sash are manufactured from hot-rolled steel profiles and have double weatherstripping, while the perimeter frame is custom formed 12 gauge galvanized steel. These windows are designed to accept up to 1-1/8" thick insulating glass.

PRODUCT FEATURES

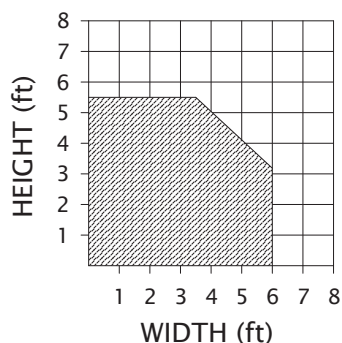
- Ventilators are hung on spiral balances for up to 160 pounds
- Solidly fusion welded sash corners for superior strength and water tightness
- The custom formed steel frame is also solidly welded
- Accepts up to 1-1/8" thick insulating glass
- All ventilators are double weatherstripped with Q-Ion®
- 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.

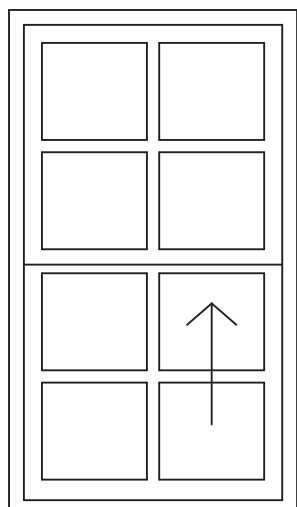


RECOMMENDED SIZES



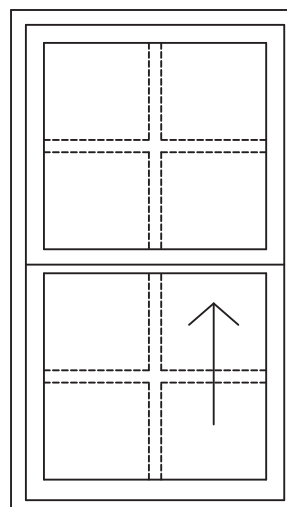
Size based on 1" insulating glass with 1/4" panes.

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



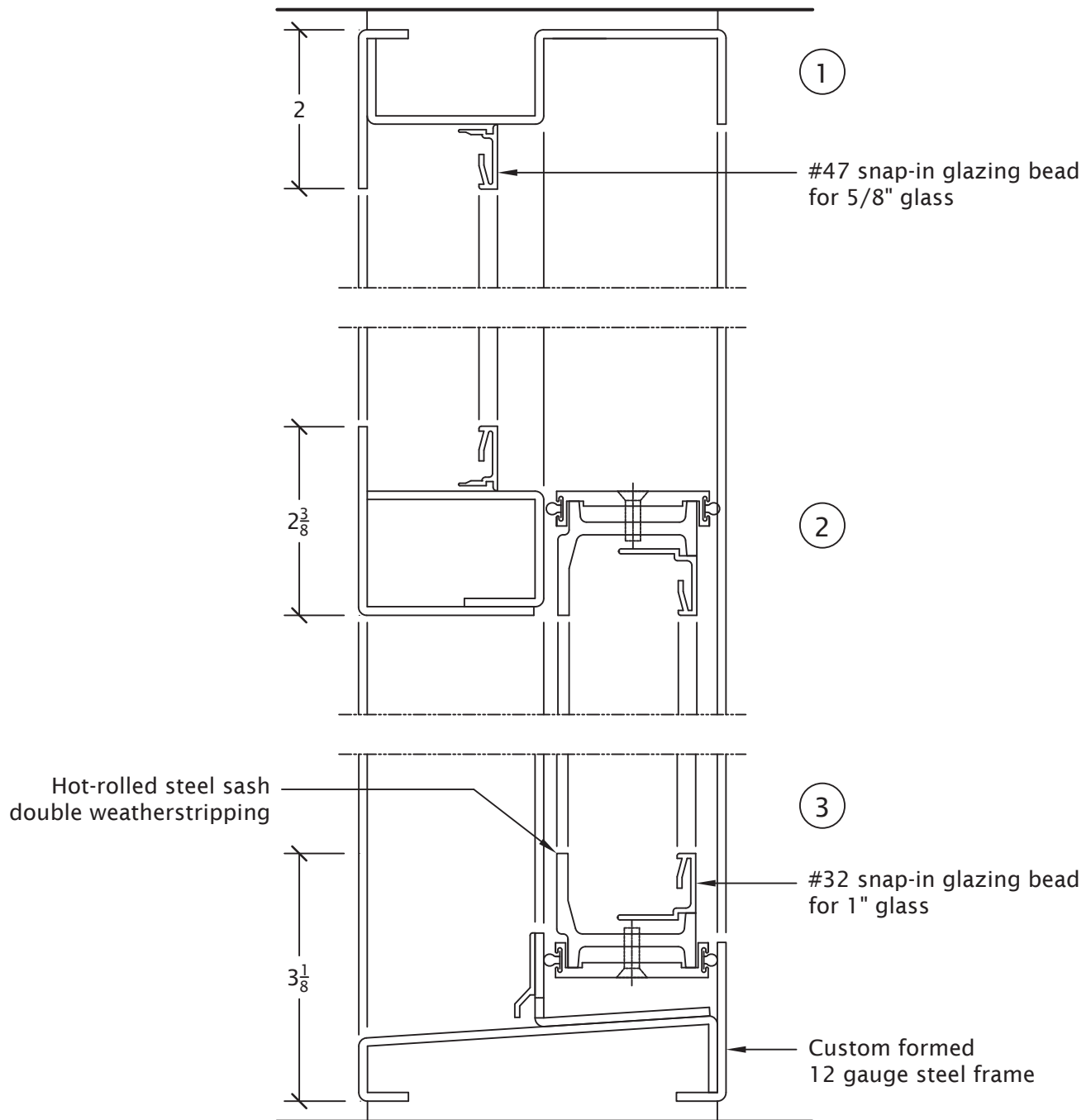
TRUE DIVIDED
LITES (TDL)

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

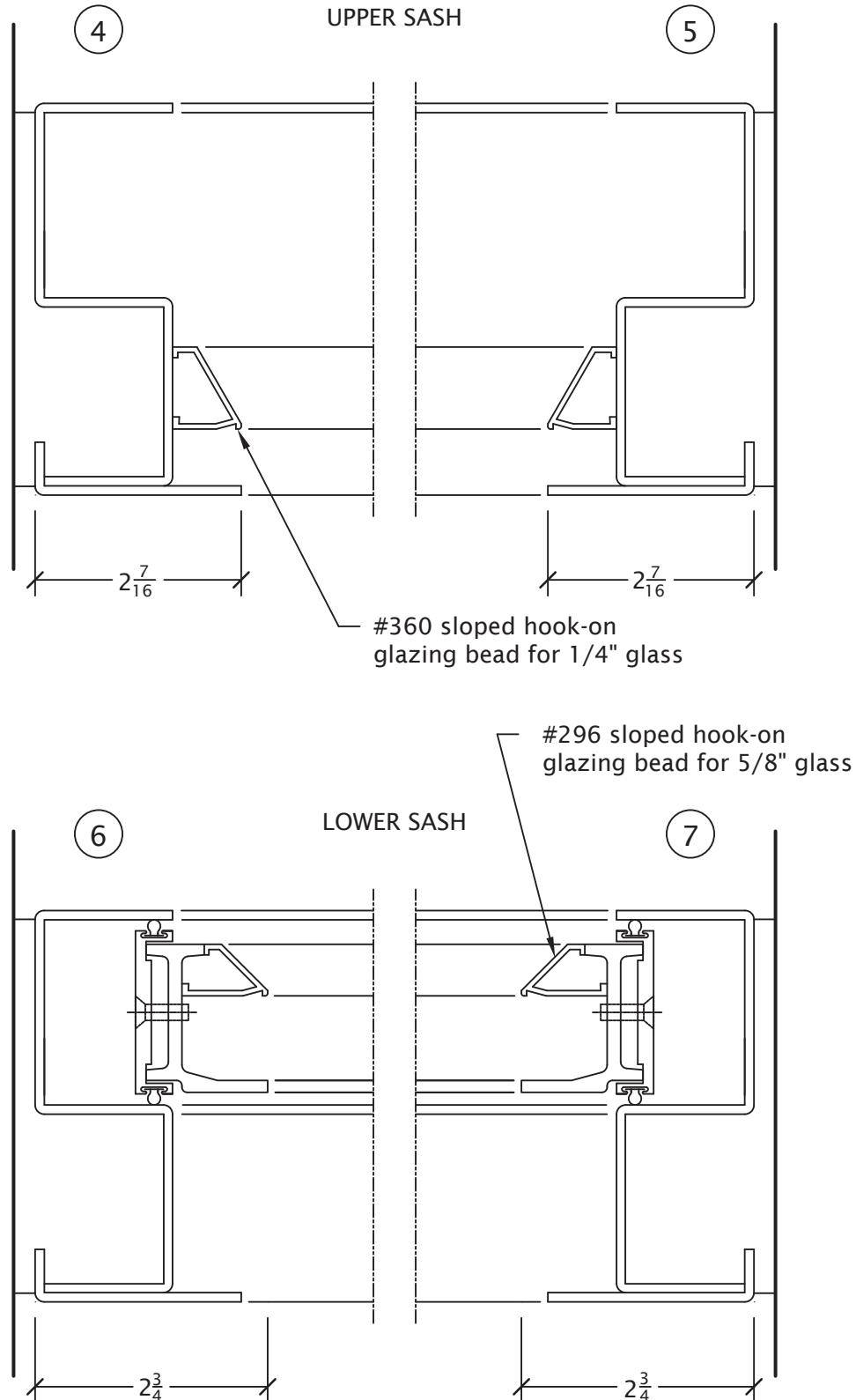


SIMULATED DIVIDED
LITES (SDL)
(MUNTIN GRIDS)

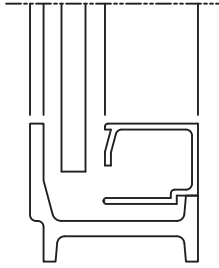
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



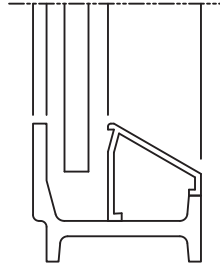
Details are half scale and shown inside glazed.
See page 25 for further glazing bead options.



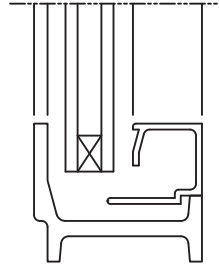
Details are half scale and shown inside glazed.
See page 25 for further glazing bead options.



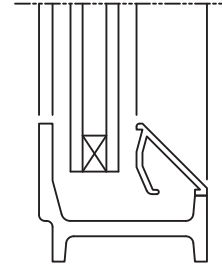
1/4" GLASS
#300 BEAD



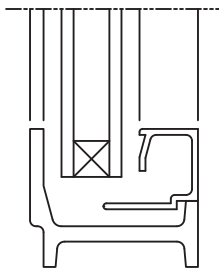
1/4" GLASS
#307 BEAD



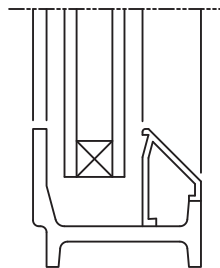
1/2" GLASS
#302 BEAD



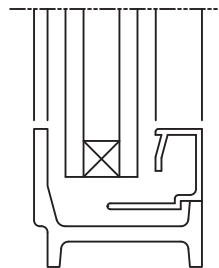
1/2" GLASS
#303 BEAD



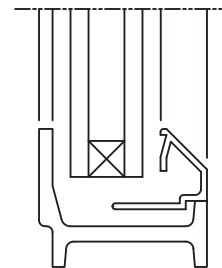
5/8" GLASS
#30 BEAD



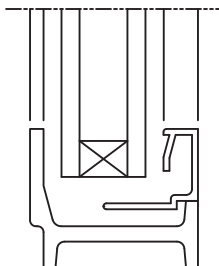
5/8" GLASS
#296 BEAD



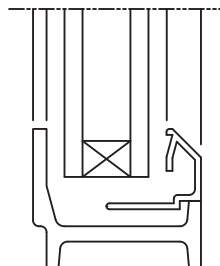
3/4" GLASS
#304 BEAD



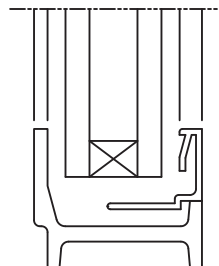
3/4" GLASS
#305 BEAD



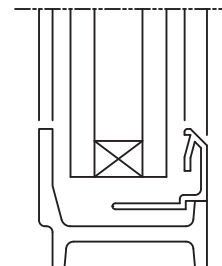
7/8" GLASS
#31 BEAD



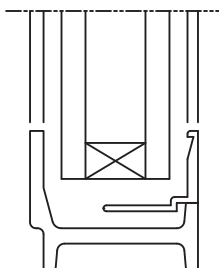
7/8" GLASS
#231 BEAD



1" GLASS
#32 BEAD



1" GLASS
#232 BEAD



1-1/8" GLASS
#33 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.

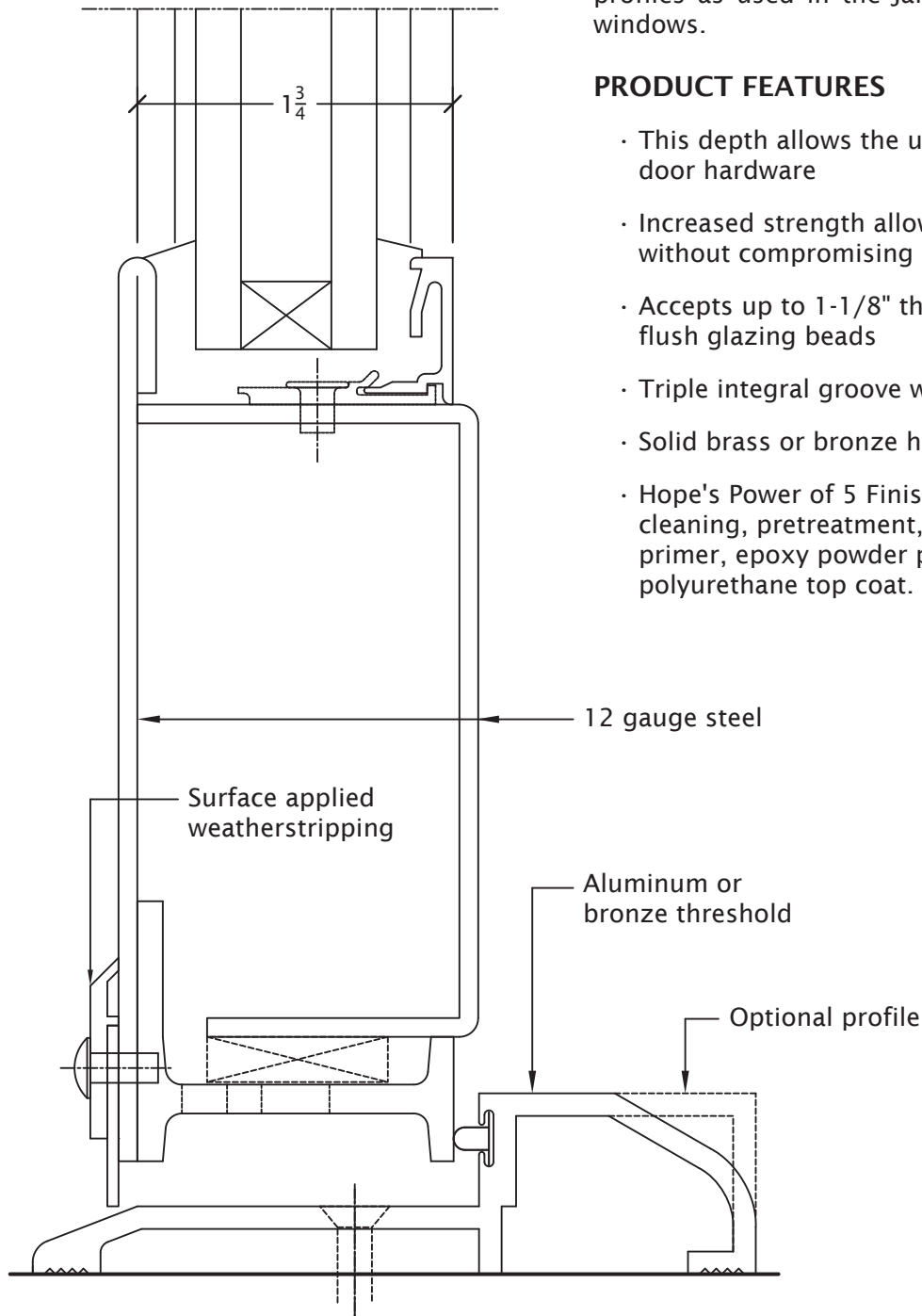
Details are half scale and shown inside glazed.

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Hope's Jamestown175 Series steel doors are custom manufactured from 1-3/4" deep heavy custom hot-rolled steel profiles. Single and French-style configurations are available with various hardware options including mortise lock and multi-latching cremone. The steel door profiles are the same profiles as used in the Jamestown175 Series steel windows.

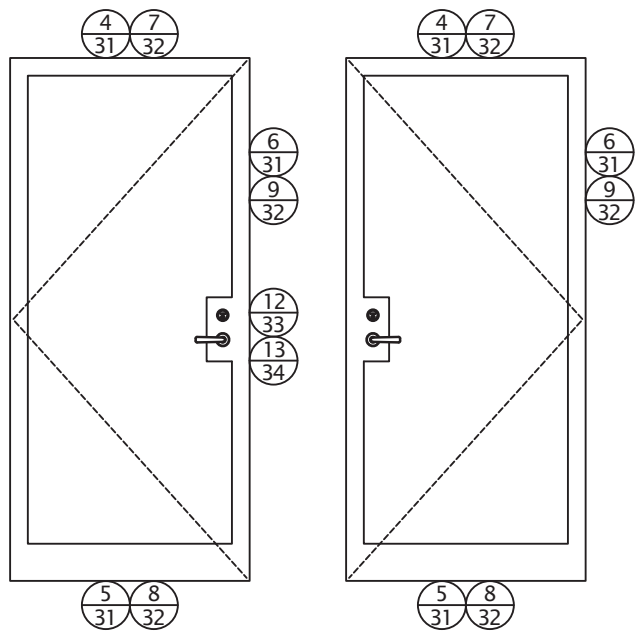
PRODUCT FEATURES

- This depth allows the use of a wider variety of door hardware
- Increased strength allows for larger door sizes without compromising performance
- Accepts up to 1-1/8" thick insulating glass with flush glazing beads
- 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.

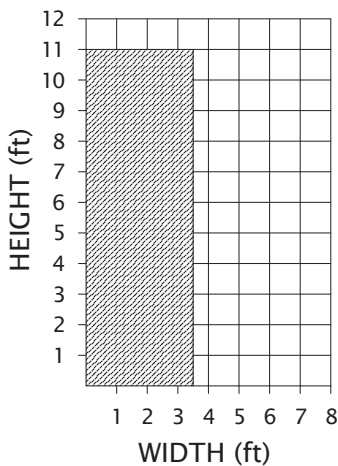


THRESHOLD DETAIL

Details are full scale.



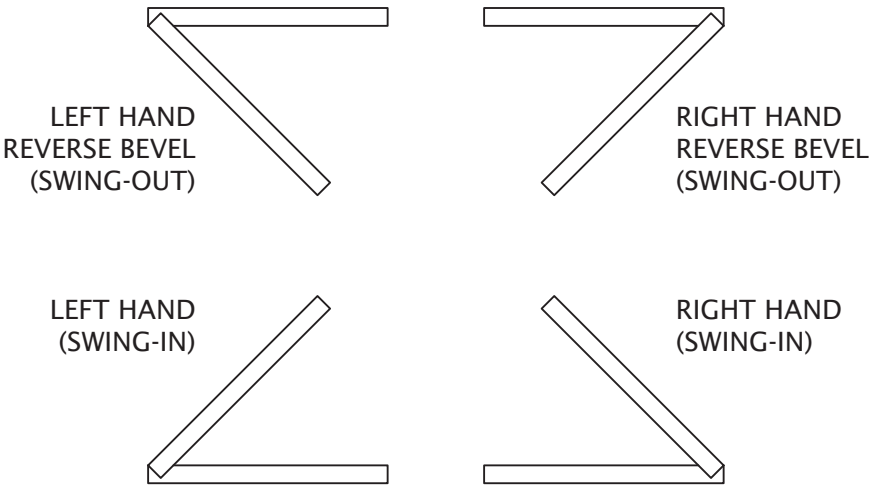
RECOMMENDED SIZES



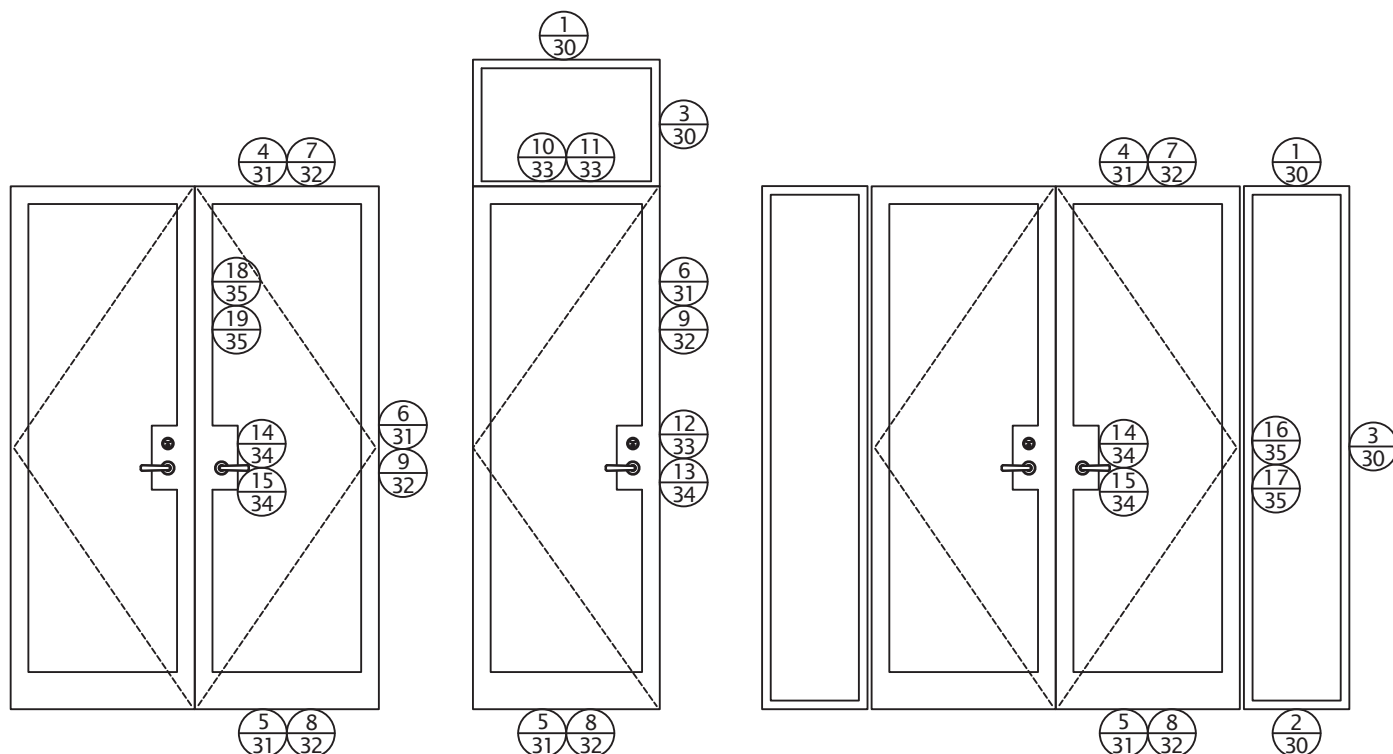
Size based on 1" insulating glass with 1/4" panes.

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

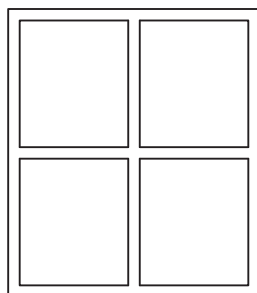
Multipoint locks are recommended for doors over 9' tall.



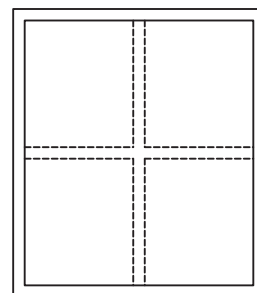
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



TRUE
DIVIDED
LITES (TDL)

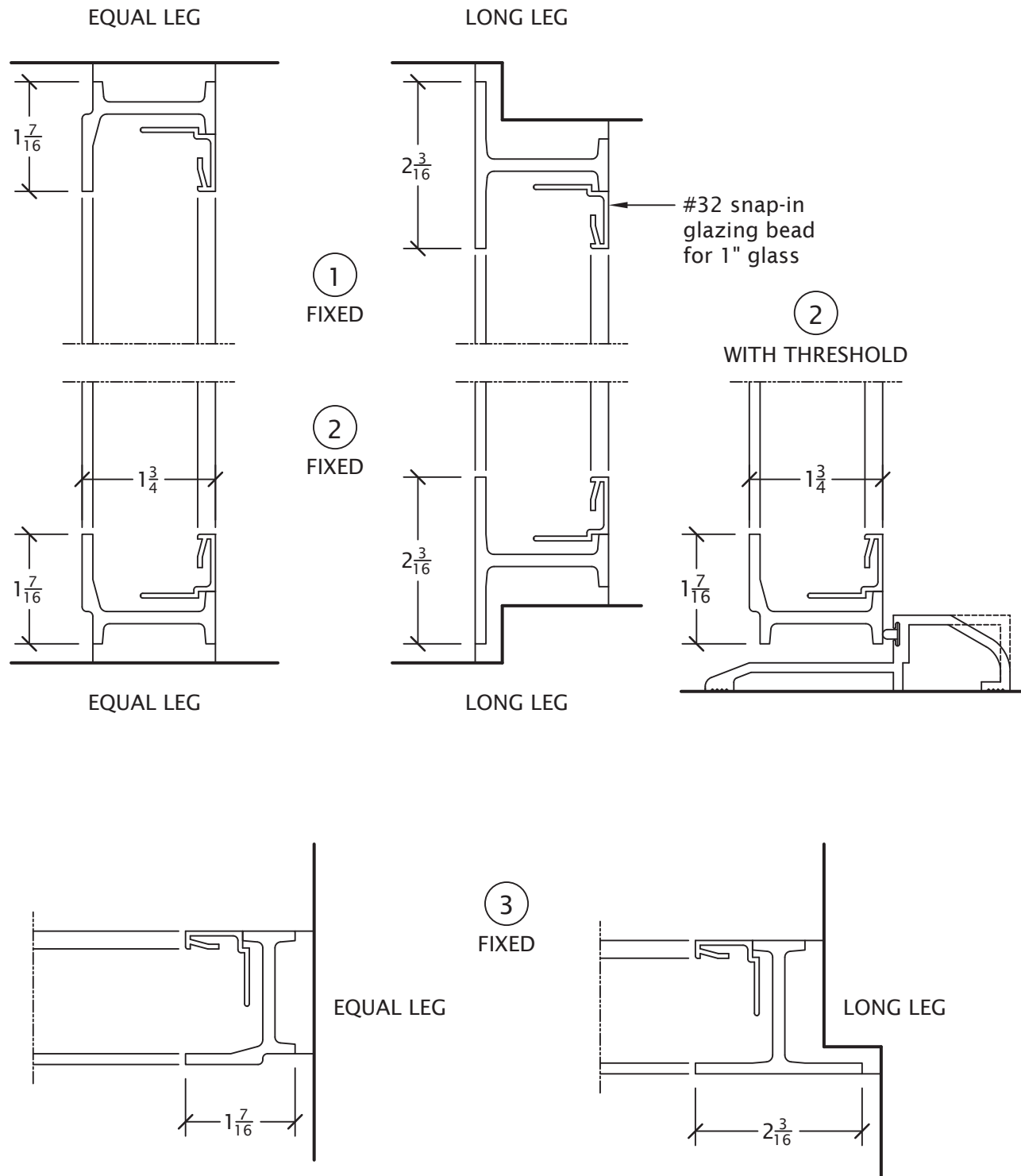


FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION

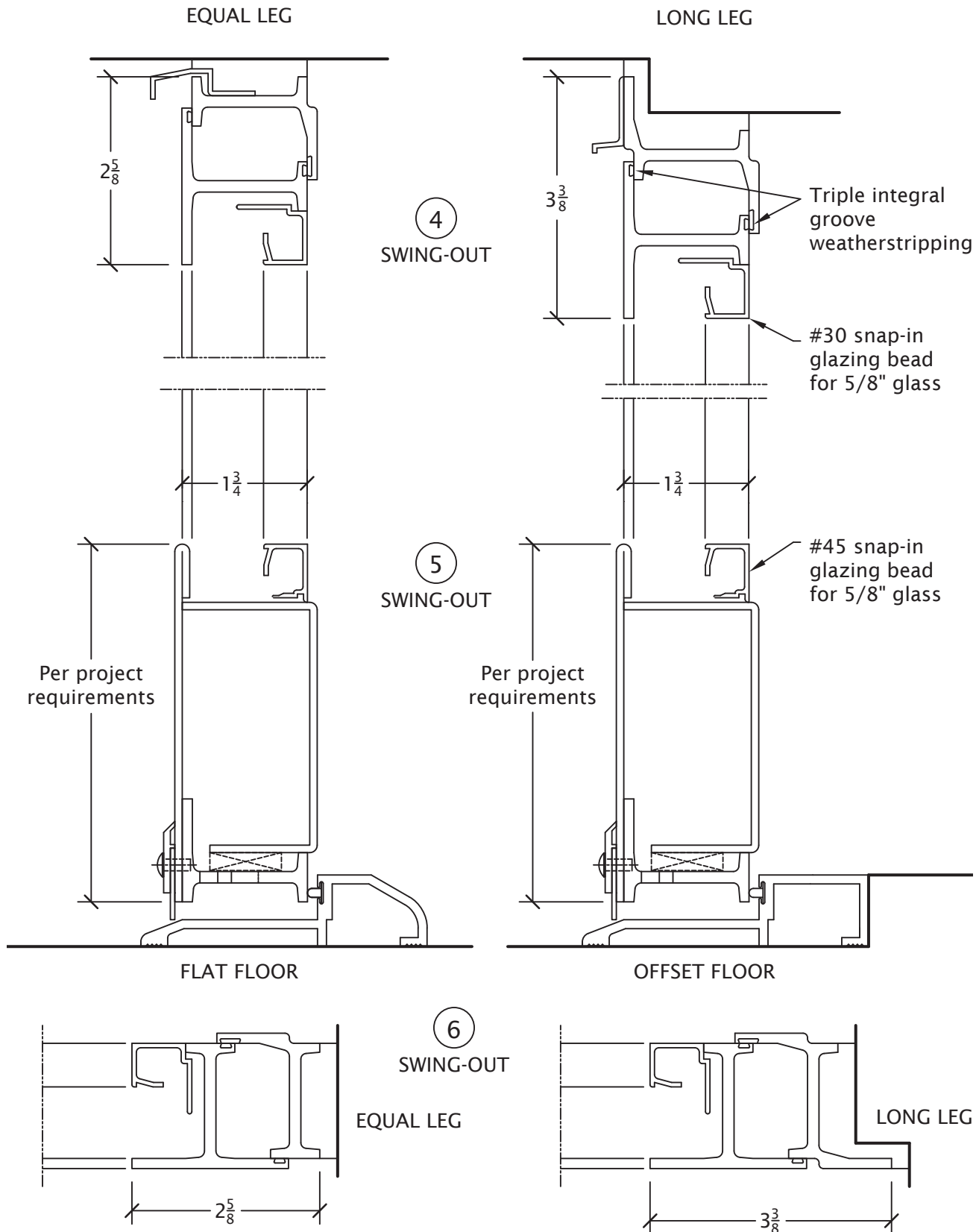


SIMULATED
DIVIDED
LITES (SDL)
(MUNTIN
GRIDS)

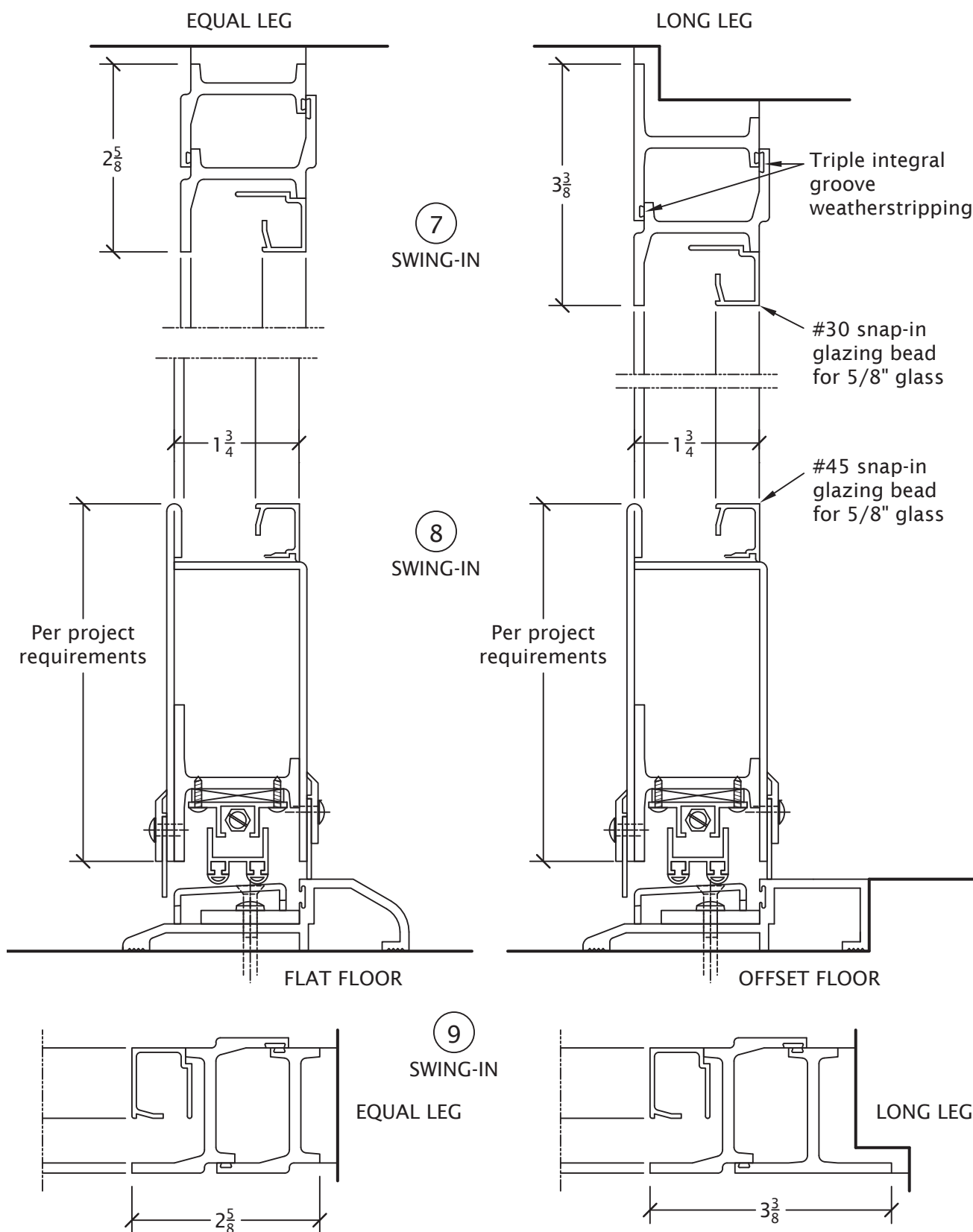
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



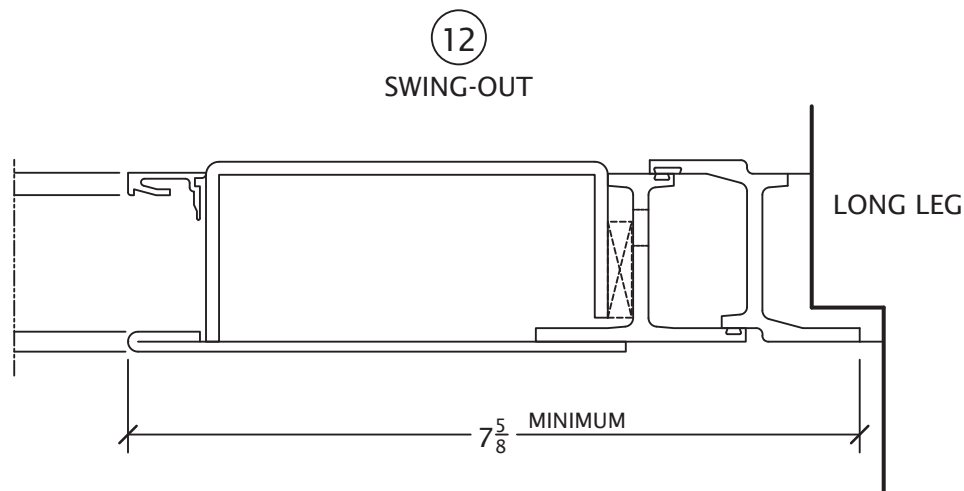
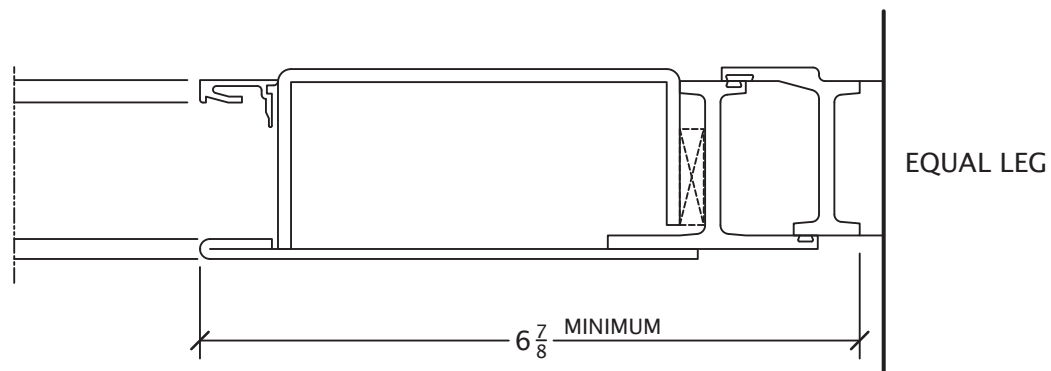
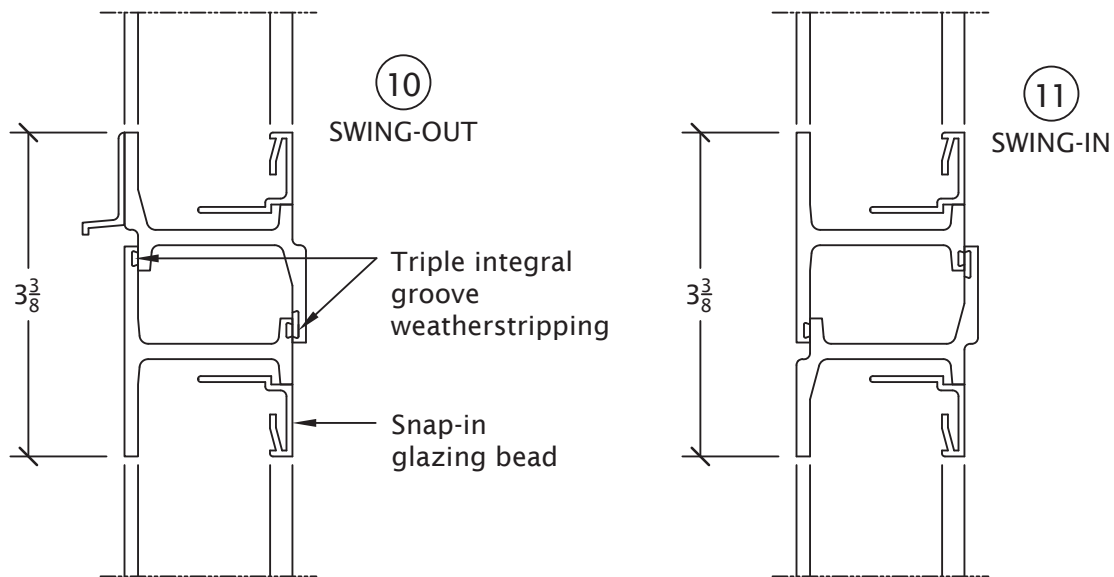
Details are half scale and shown inside glazed with 1" glass.
See page 36 for further glazing bead options.



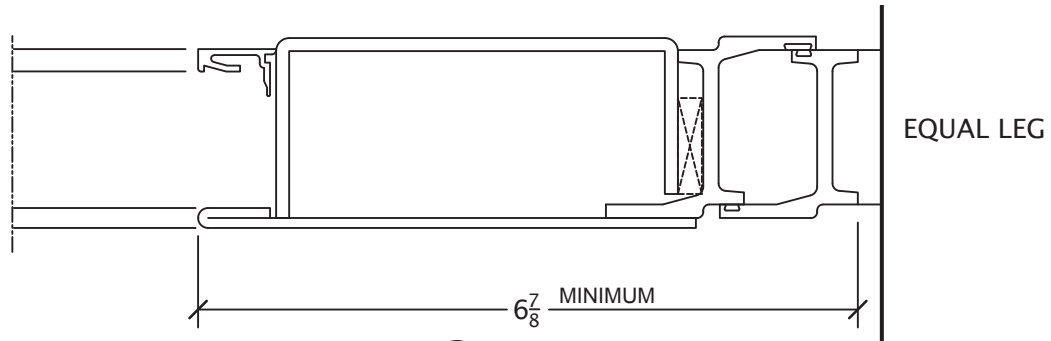
Details are half scale and shown inside glazed with 5/8" glass.
See page 36 for further glazing bead options.



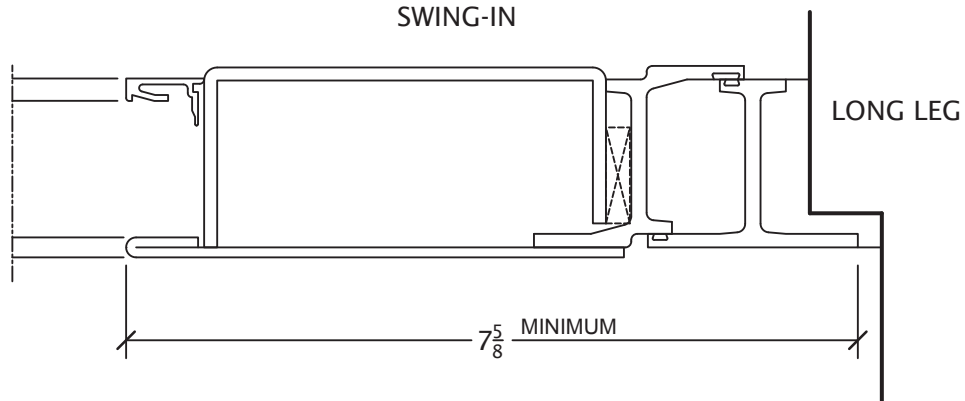
Details are half scale and shown inside glazed with 1/4" glass.
See page 36 for further glazing bead options.



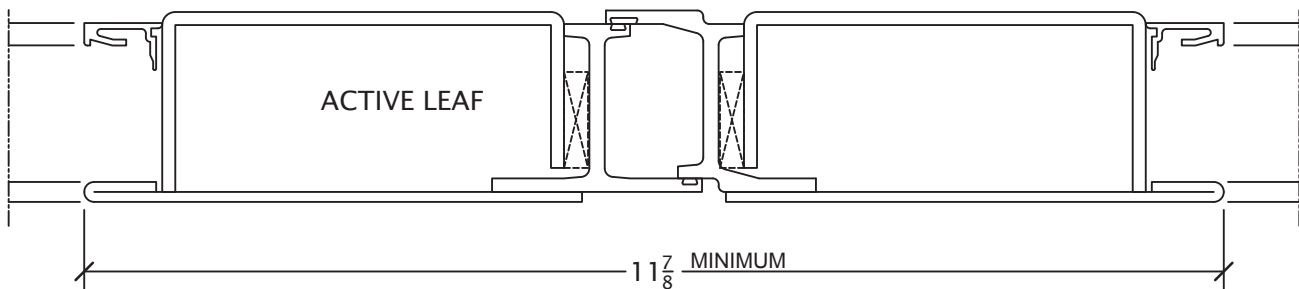
Details are half scale and shown inside glazed with 1" glass.
See page 36 for further glazing bead options.



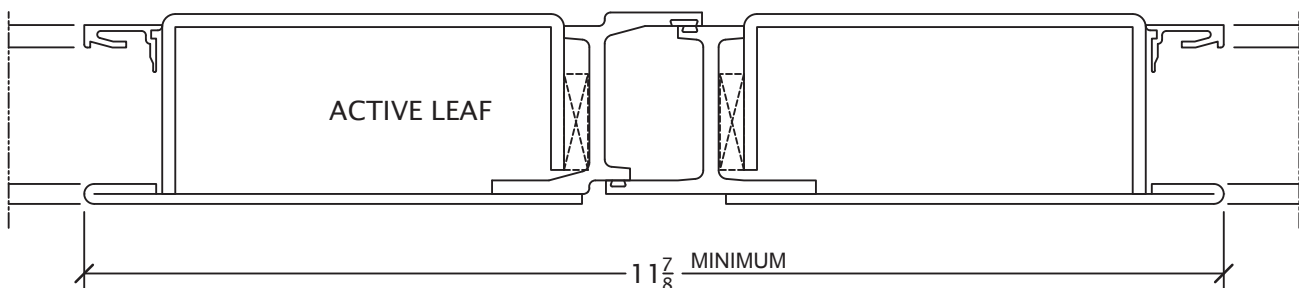
13
SWING-IN



14
SWING-OUT

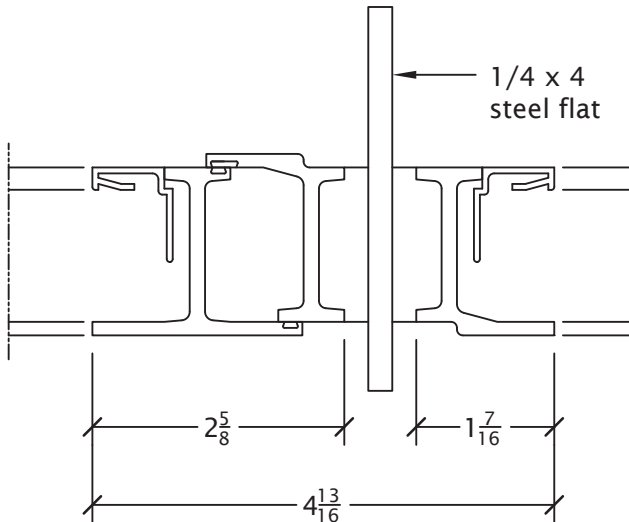


15
SWING-IN

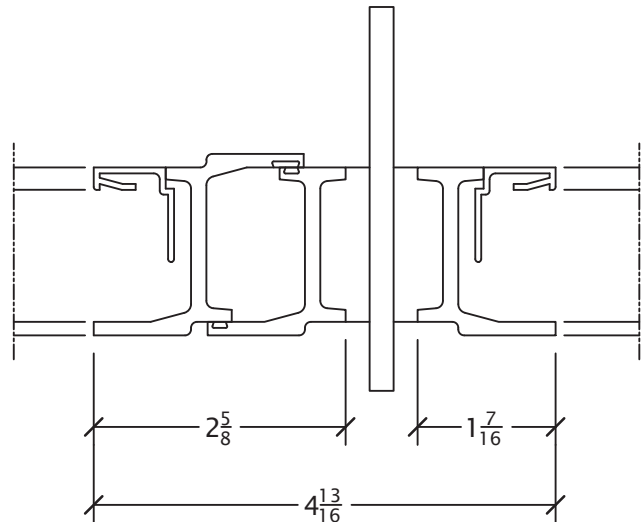


Details are half scale and shown inside glazed with 1" glass.

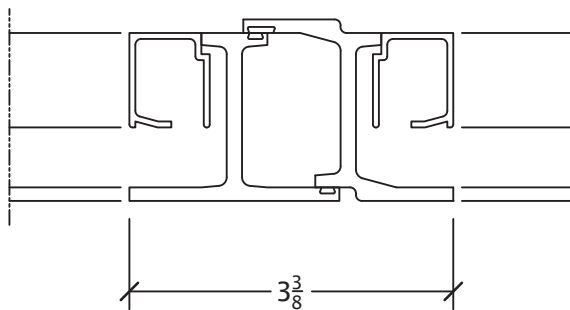
①6
SWING-OUT



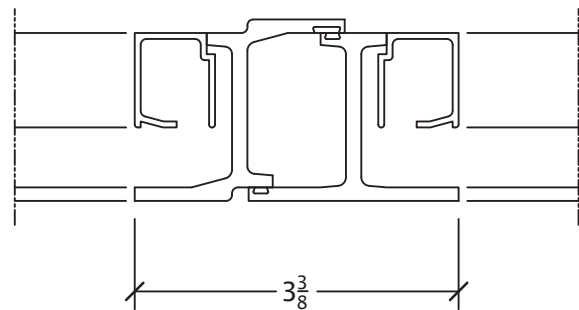
①7
SWING-IN



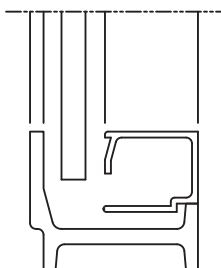
①8
SWING-OUT



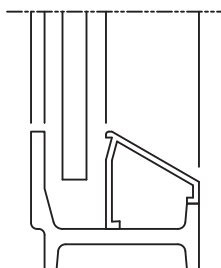
①9
SWING-IN



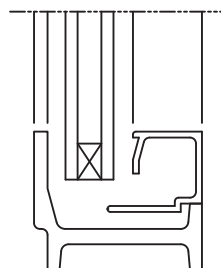
Details are half scale and shown inside glazed.



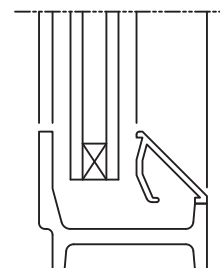
1/4" GLASS
#300 BEAD



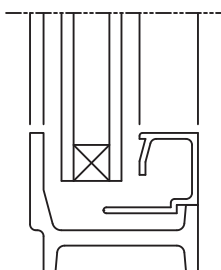
1/4" GLASS
#307 BEAD



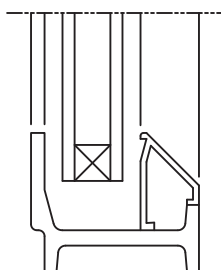
1/2" GLASS
#302 BEAD



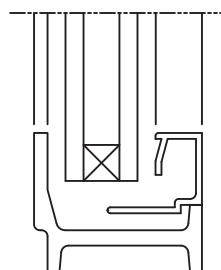
1/2" GLASS
#303 BEAD



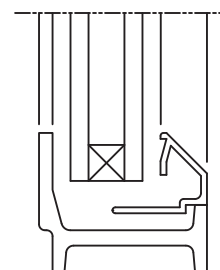
5/8" GLASS
#30 BEAD



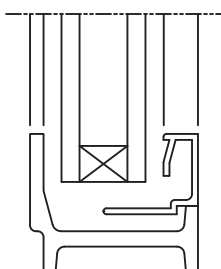
5/8" GLASS
#296 BEAD



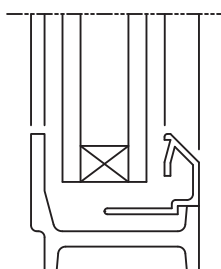
3/4" GLASS
#304 BEAD



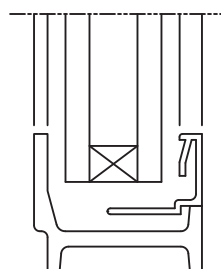
3/4" GLASS
#305 BEAD



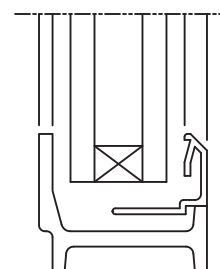
7/8" GLASS
#31 BEAD



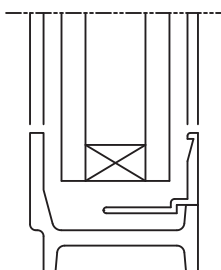
7/8" GLASS
#231 BEAD



1" GLASS
#32 BEAD



1" GLASS
#232 BEAD



1-1/8" GLASS
#33 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.

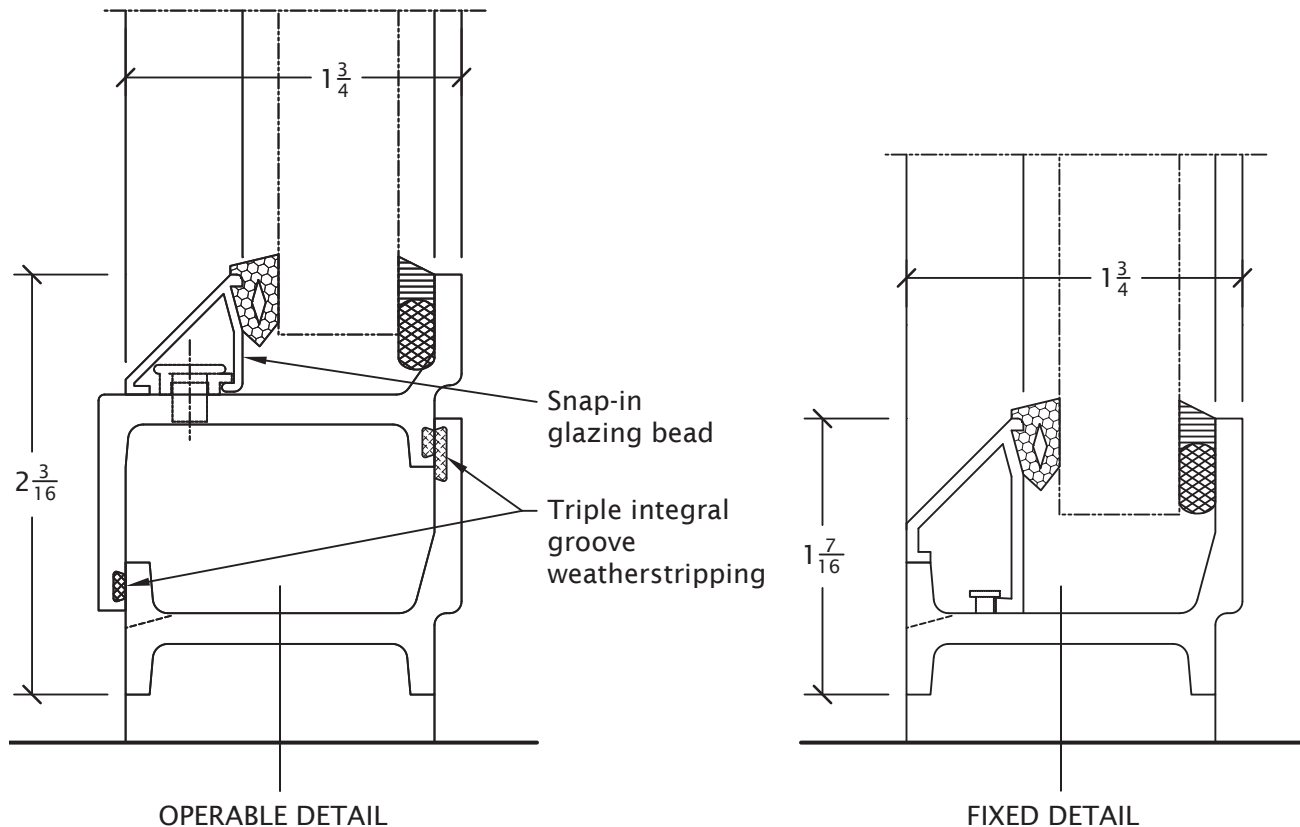
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

Hope's Landmark175 Series steel windows are manufactured from hot-rolled, heavy intermediate steel profiles. They are available in fixed and operable configurations and accept up to 1-1/8" insulating glass. Landmark175 Series windows have a frame depth of 1-3/4" and can achieve a minimum sight line of 2-3/16" on operable windows.

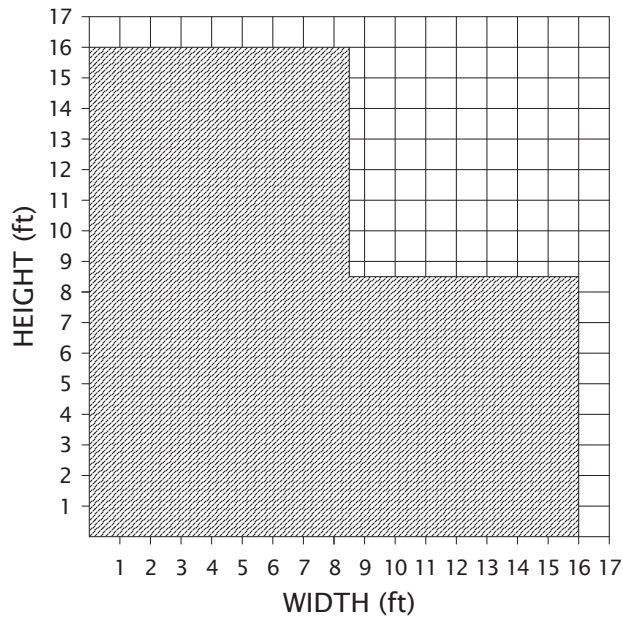
PRODUCT FEATURES

- Narrow sightlines
- Solidly fusion welded corners for superior strength and water tightness
- Accepts up to 1-1/8" 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.

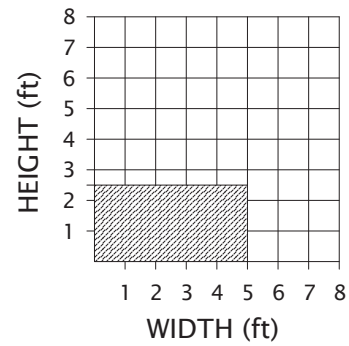


Details are full scale.

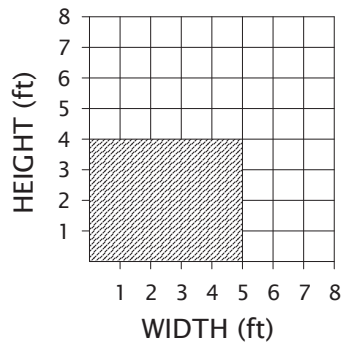
FIXED WINDOWS



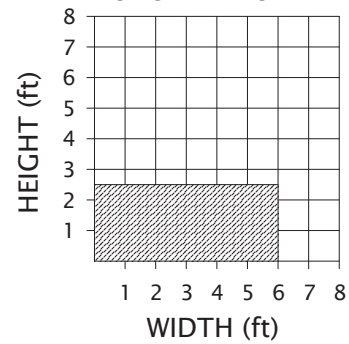
PROJECT-IN VENTILATORS



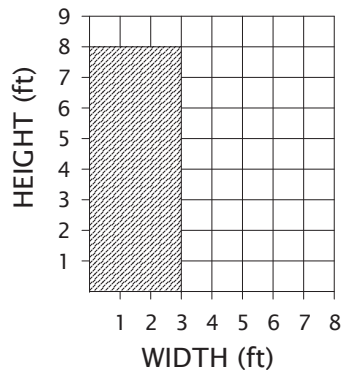
PROJECT-OUT VENTILATORS



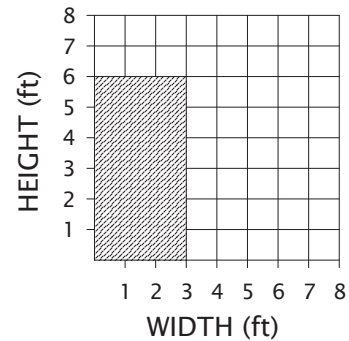
MOTORIZED OPERATOR



CASEMENT VENTILATORS

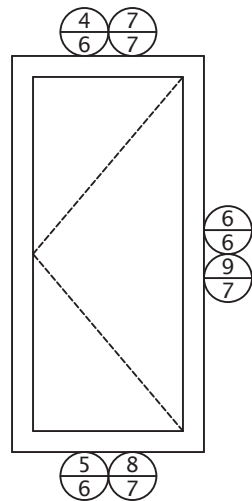
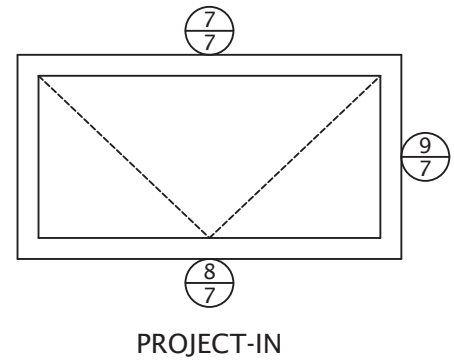
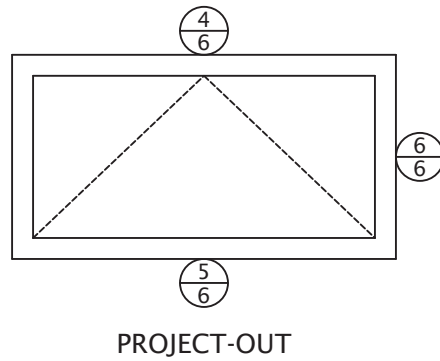
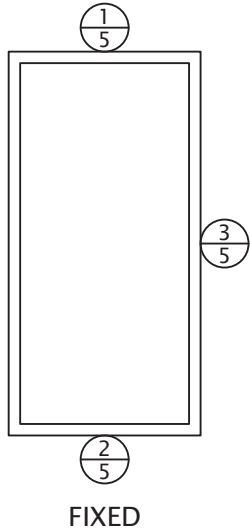


ROTO OPERATOR

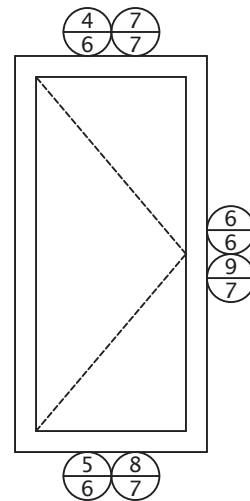


NOTE: Casements over 60" tall
limited to 20° opening

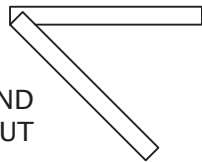
Size based on 1" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



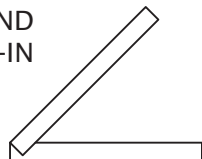
SIDE HUNG-IN
CASEMENT



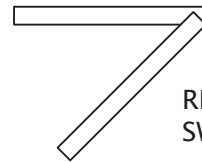
LEFT HAND
SWING-OUT



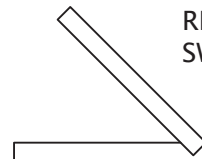
LEFT HAND
SWING-IN



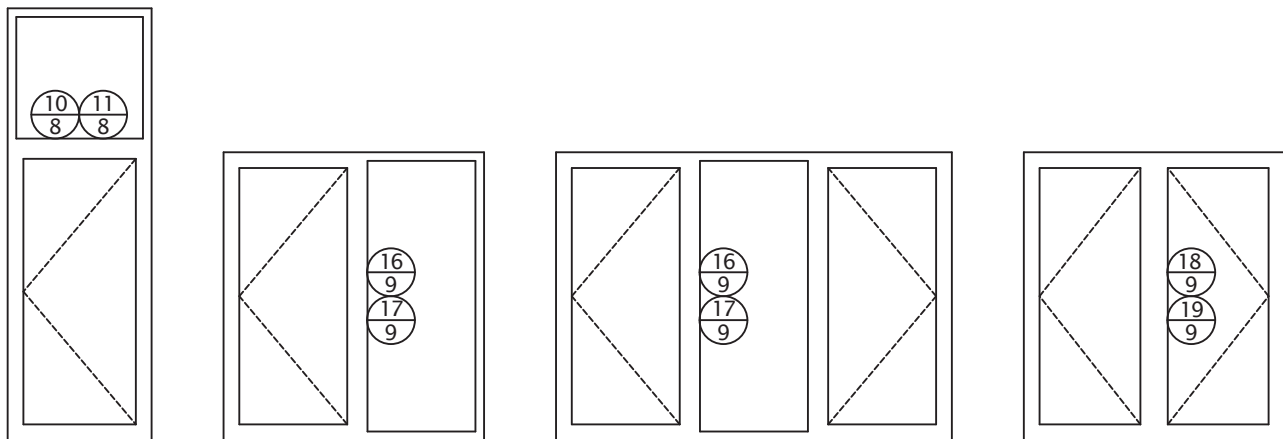
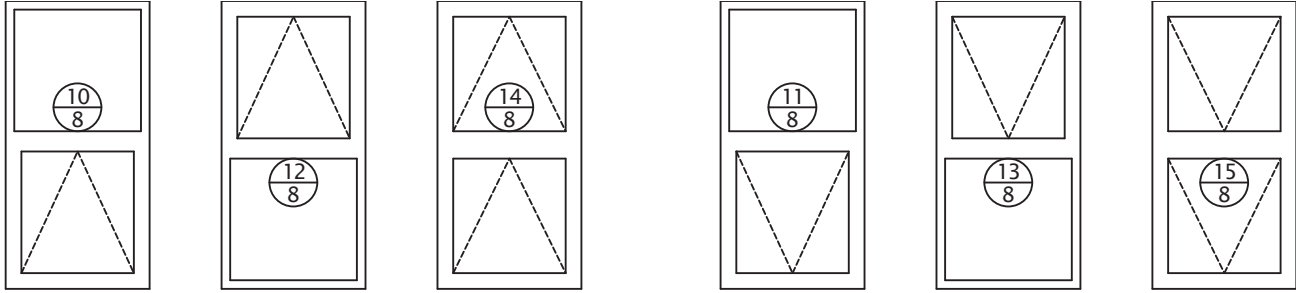
RIGHT HAND
SWING-OUT



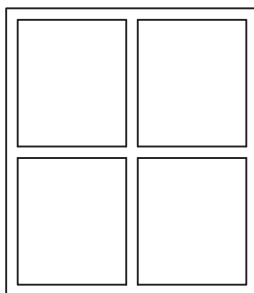
RIGHT HAND
SWING-IN



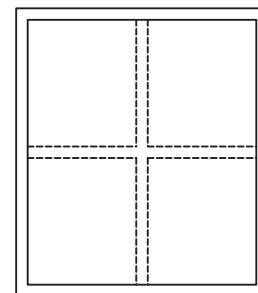
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



TRUE
DIVIDED
LITES (TDL)

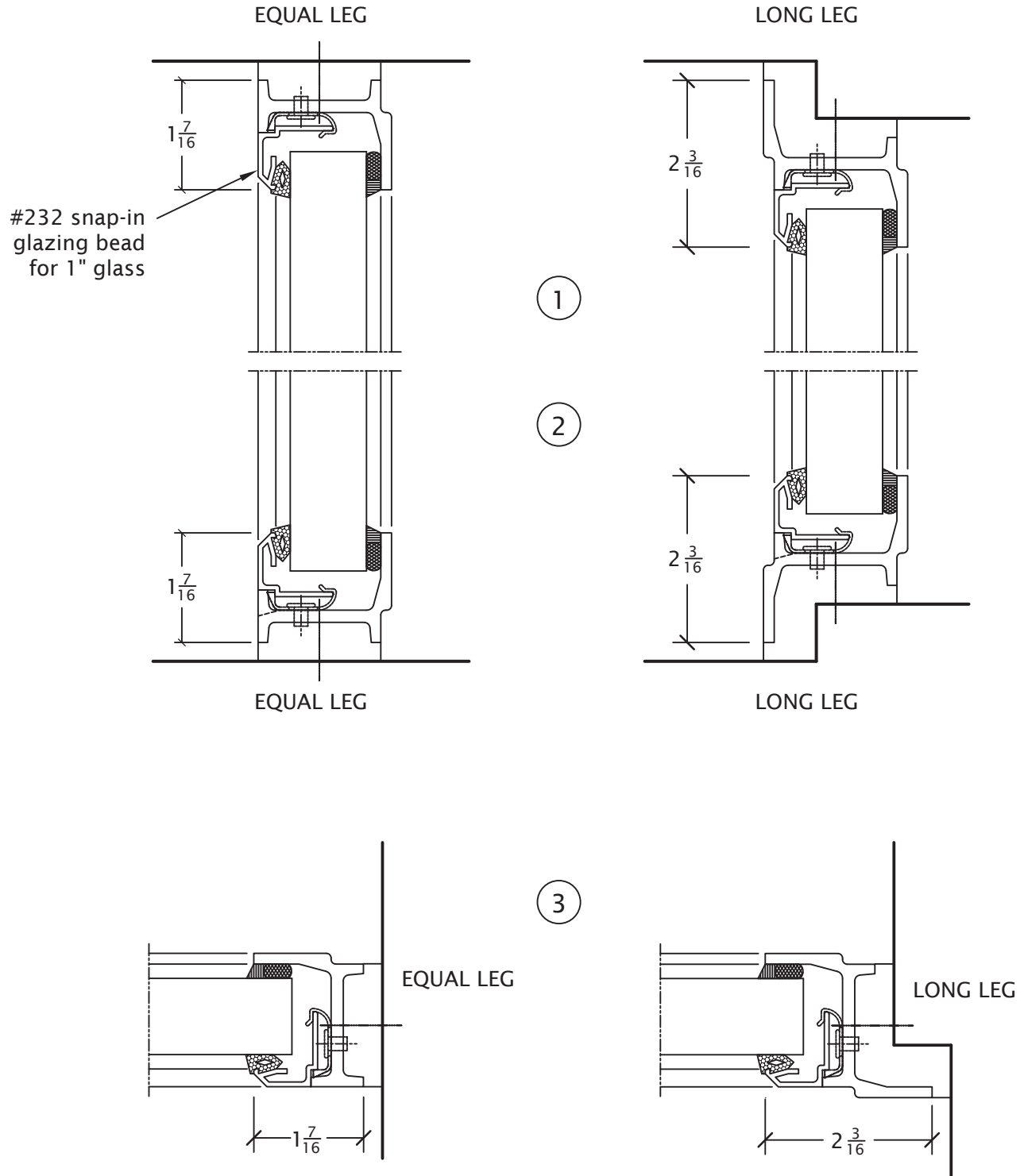


FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION

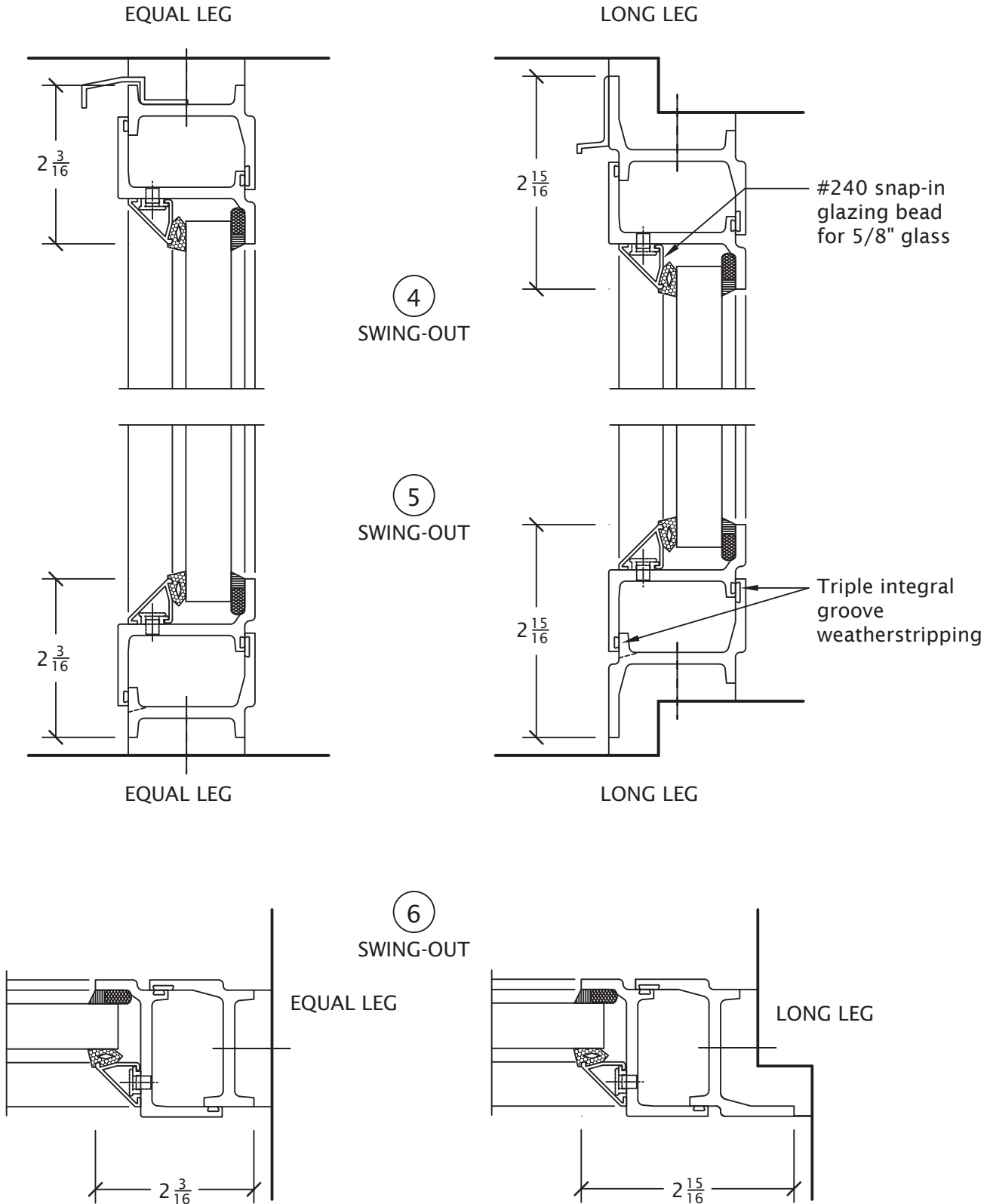


SIMULATED
DIVIDED
LITES (SDL)
(MUNTIN
GRIDS)

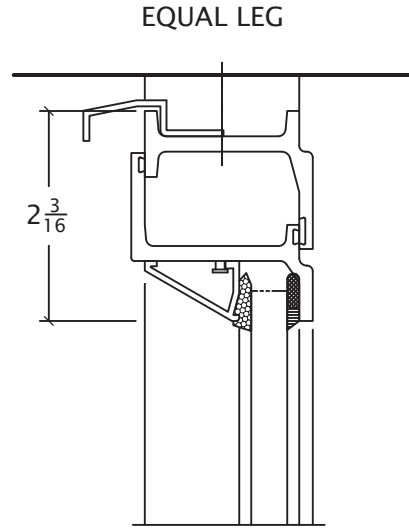
Elevations are for detail reference only. Elevations are not to scale.
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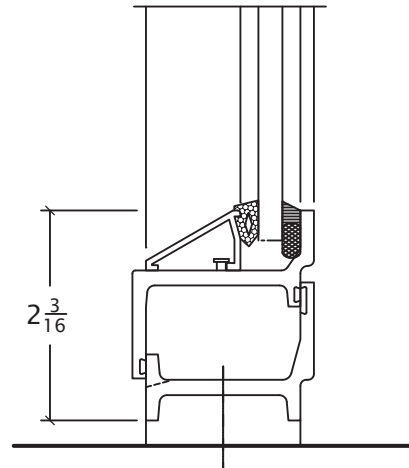
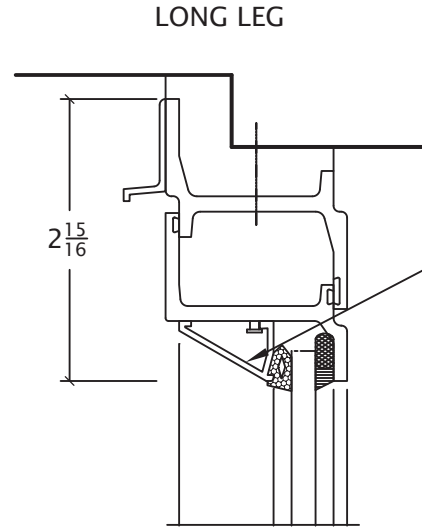
Details are half scale and shown inside glazed with 1" glass.
See page 10 for further glazing bead options.



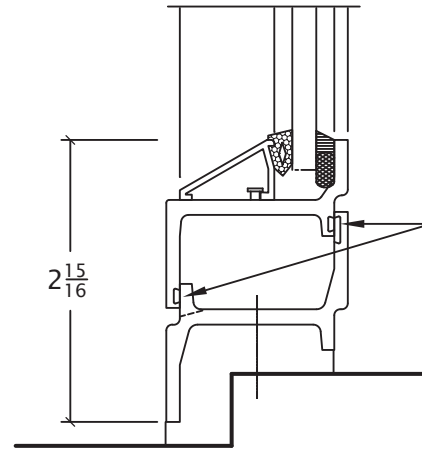
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



7

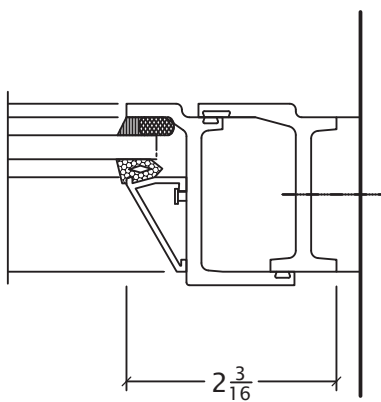


8

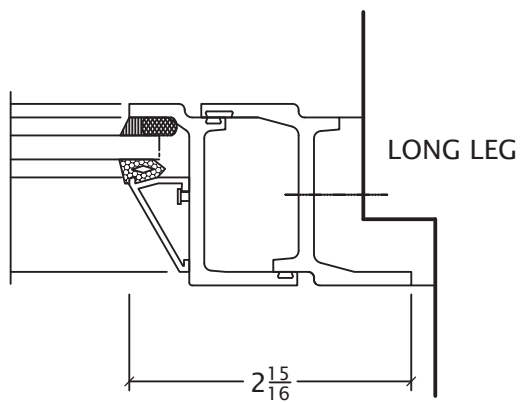


EQUAL LEG

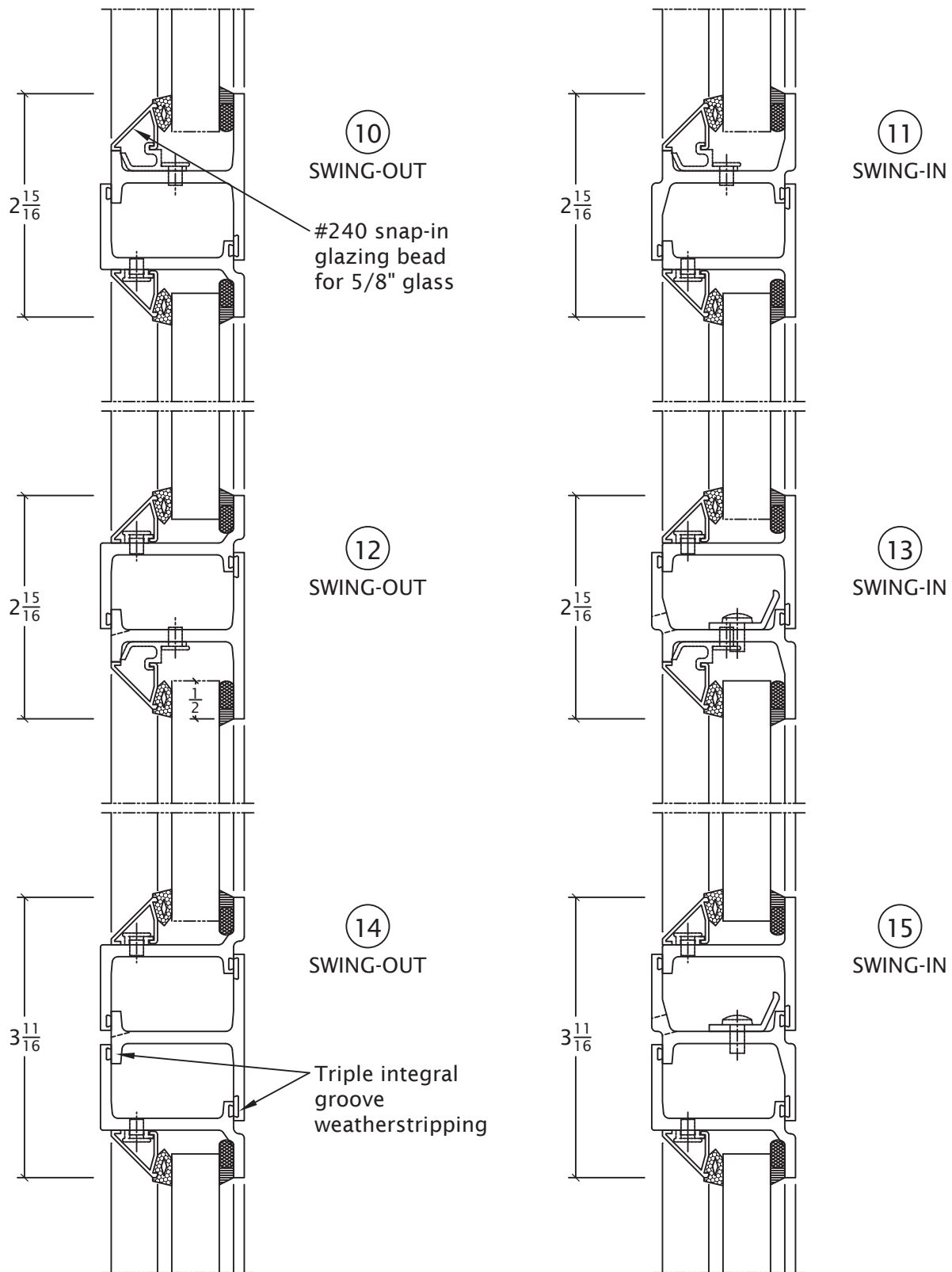
LONG LEG



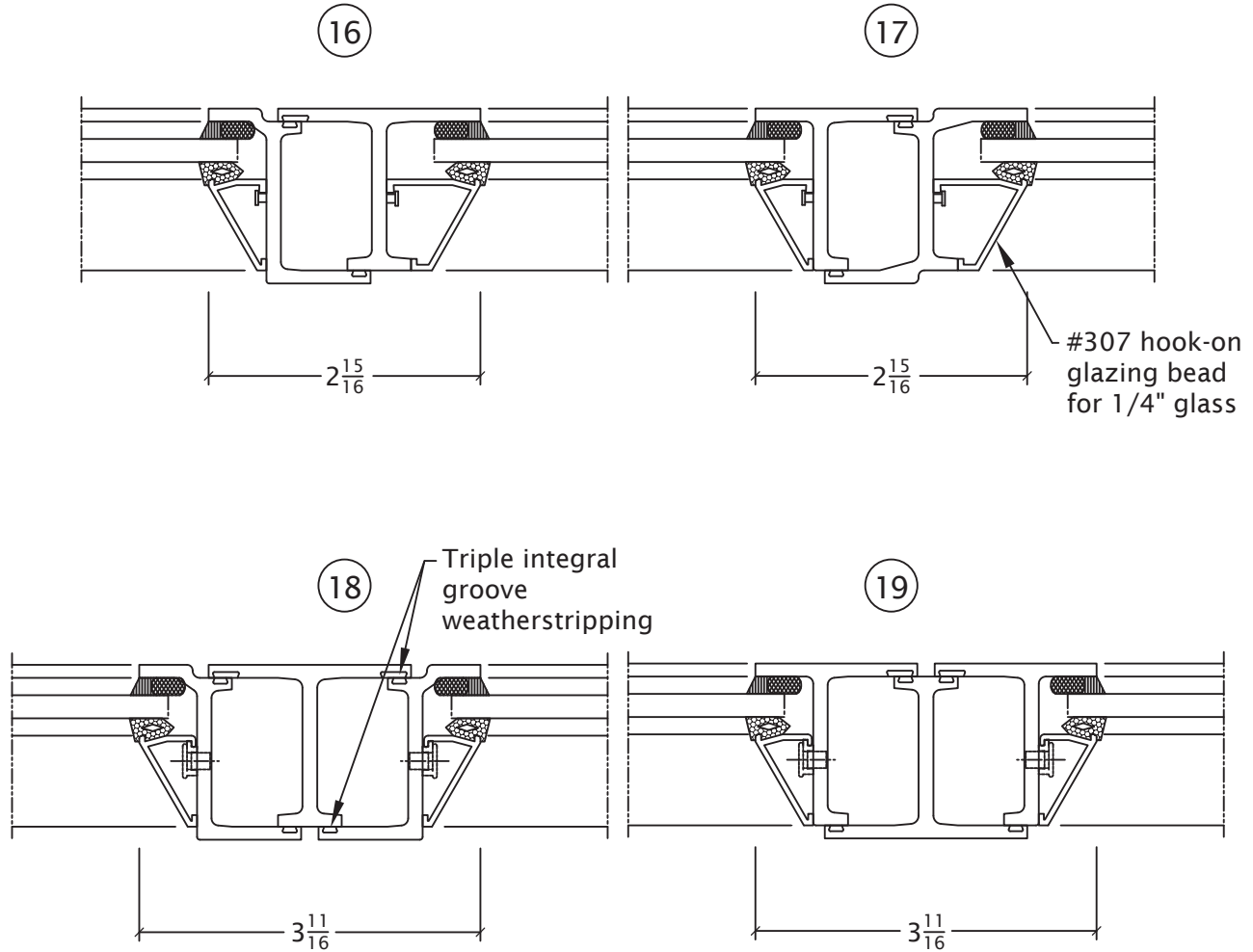
9



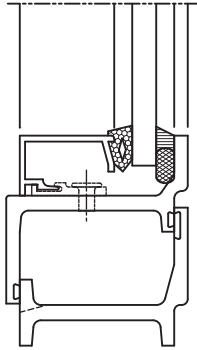
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



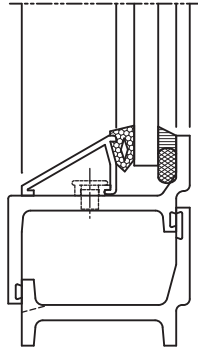
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



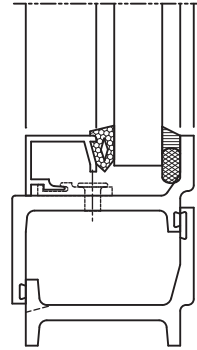
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



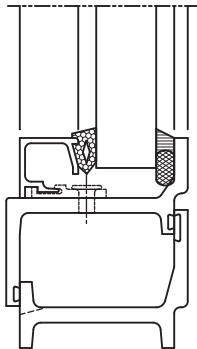
1/4" GLASS
#330 BEAD



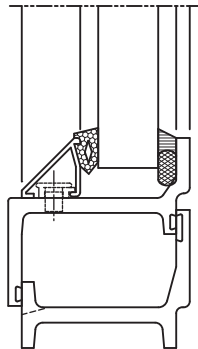
1/4" GLASS
#331 BEAD



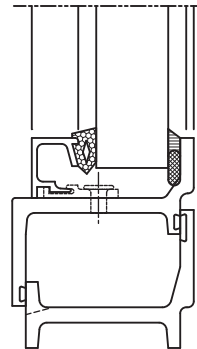
1/2" GLASS
#332 BEAD



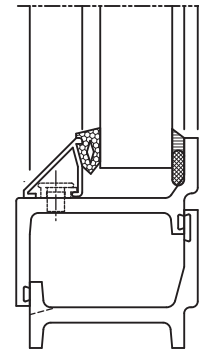
5/8" GLASS
#40 BEAD



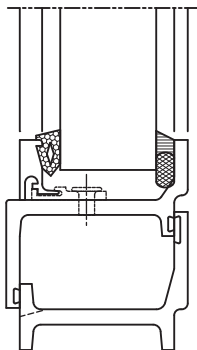
5/8" GLASS
#240 BEAD



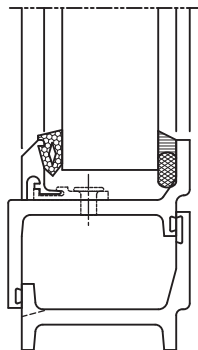
3/4" GLASS
#40 BEAD



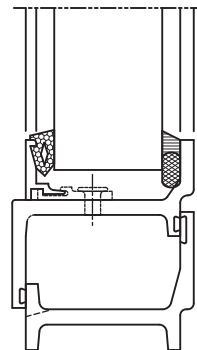
3/4" GLASS
#240 BEAD



1" GLASS
#42 BEAD



1" GLASS
#242 BEAD



1-1/8" 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.

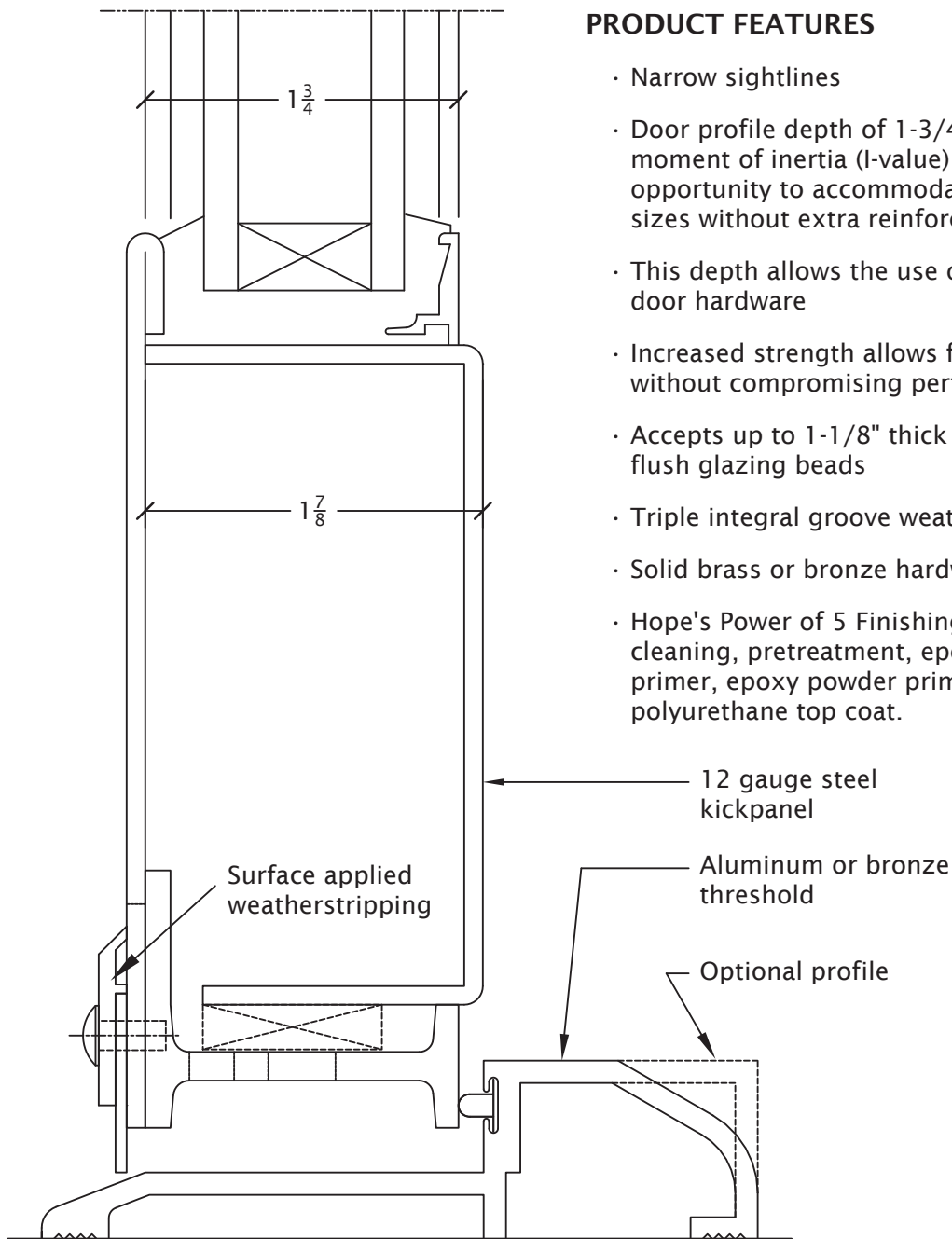
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

Hope's Landmark175 Series steel doors are custom manufactured from heavy intermediate custom hot-rolled steel profiles. Single and French-style configurations are available with various hardware options including mortise lock and multi-latching cremone. The steel door profiles are the same profiles as used in the Landmark175 Series steel windows. Landmark175 Series profiles have a depth of 1-3/4".

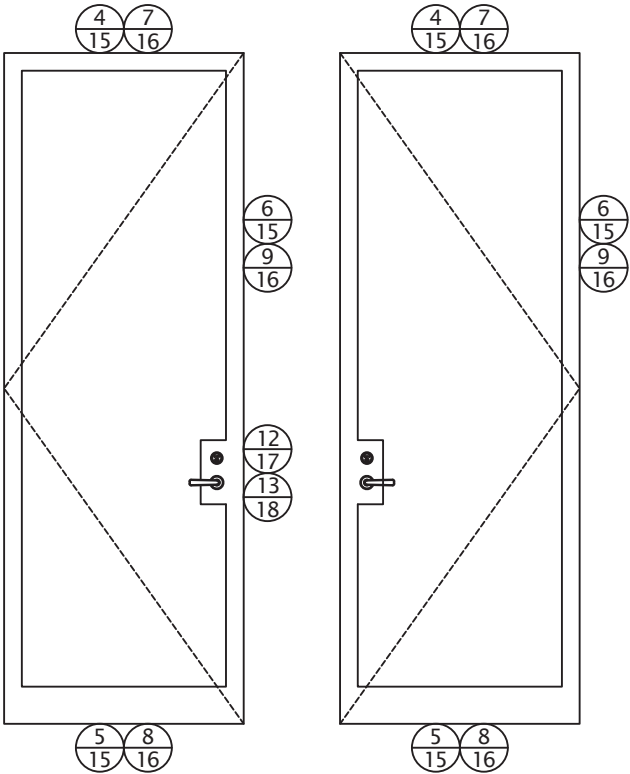
PRODUCT FEATURES

- Narrow sightlines
- Door profile depth of 1-3/4" increases the moment of inertia (I-value) and presents the opportunity to accommodate large window sizes without extra reinforcing or mullions
- This depth allows the use of a wider variety of door hardware
- Increased strength allows for larger door sizes without compromising performance
- Accepts up to 1-1/8" thick insulating glass with flush glazing beads
- 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.

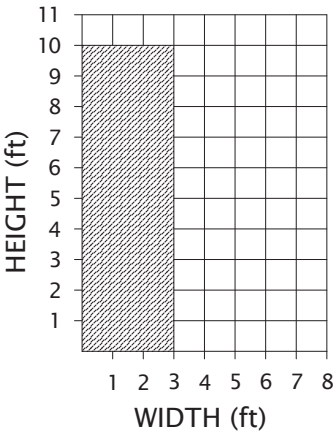


THRESHOLD DETAIL

Details are full scale.



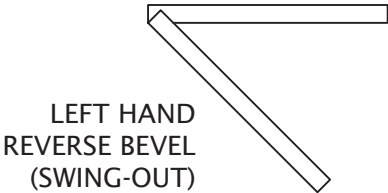
RECOMMENDED SIZES



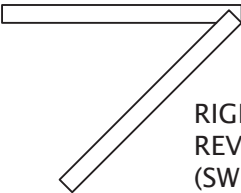
Size based on 1" insulating glass with 1/4" panes.

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

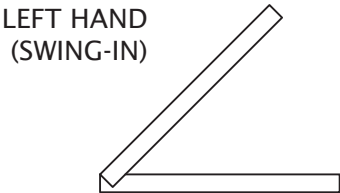
Multipoint locks are recommended for doors over 8' tall.



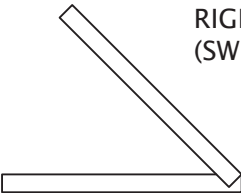
LEFT HAND
REVERSE BEVEL
(SWING-OUT)



RIGHT HAND
REVERSE BEVEL
(SWING-OUT)

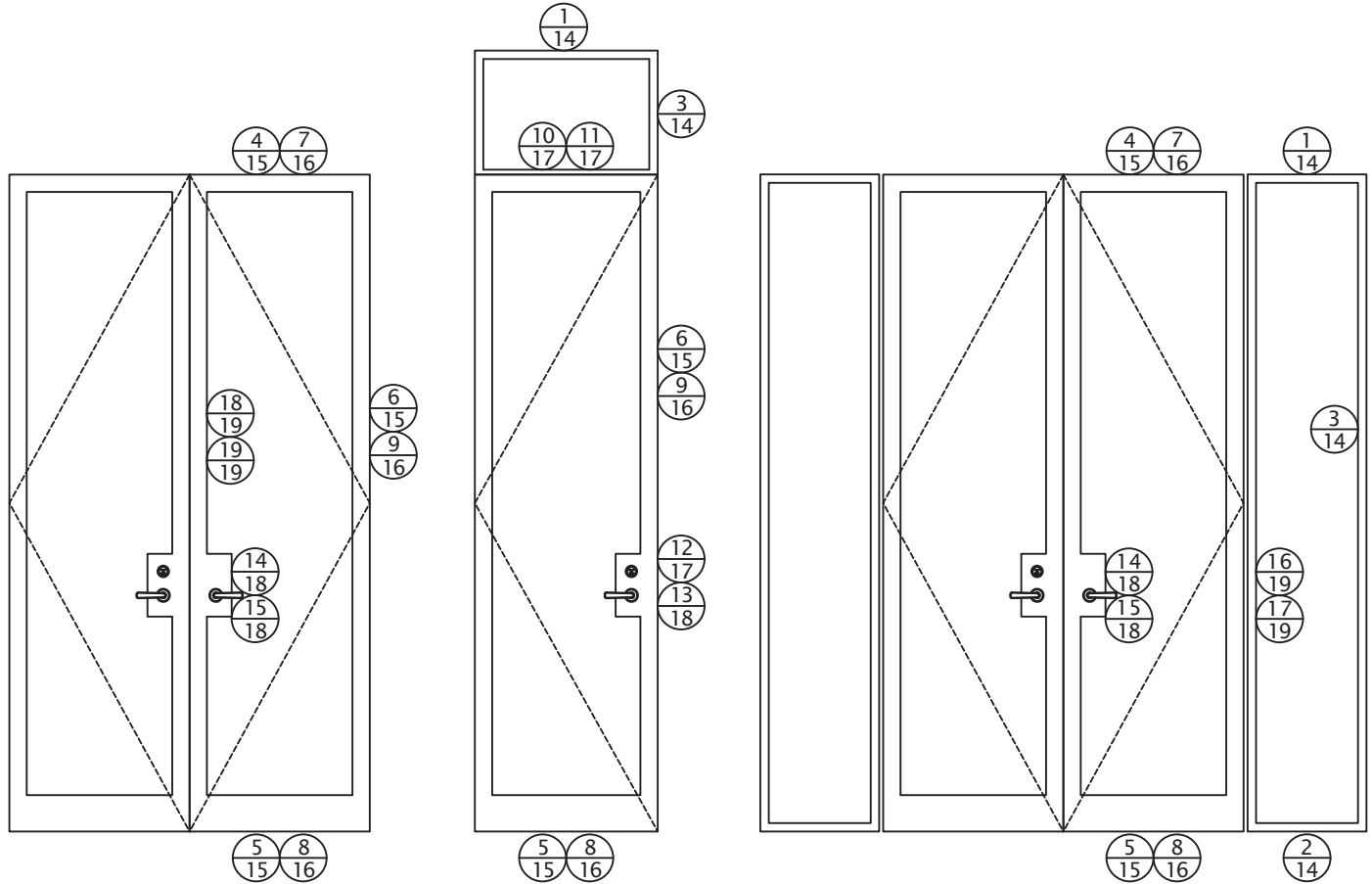


LEFT HAND
(SWING-IN)

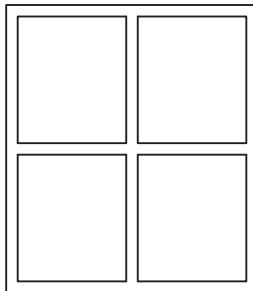


RIGHT HAND
(SWING-IN)

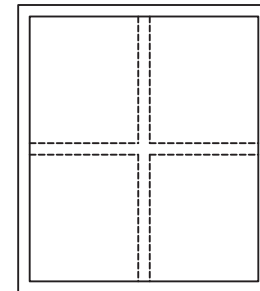
Elevations are for detail reference only. Elevations are not to scale.
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TRUE
DIVIDED
LITES (TDL)



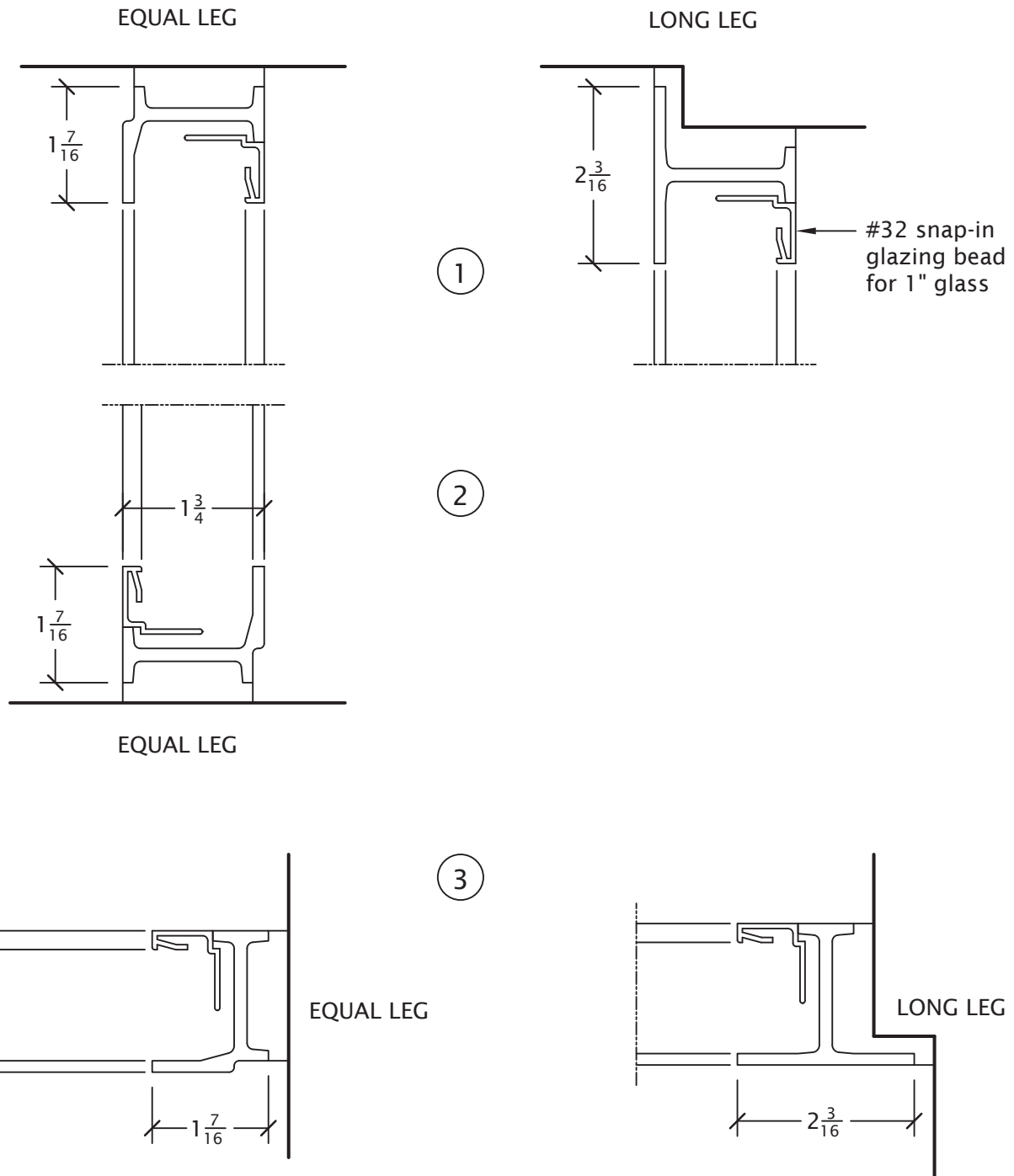
FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION



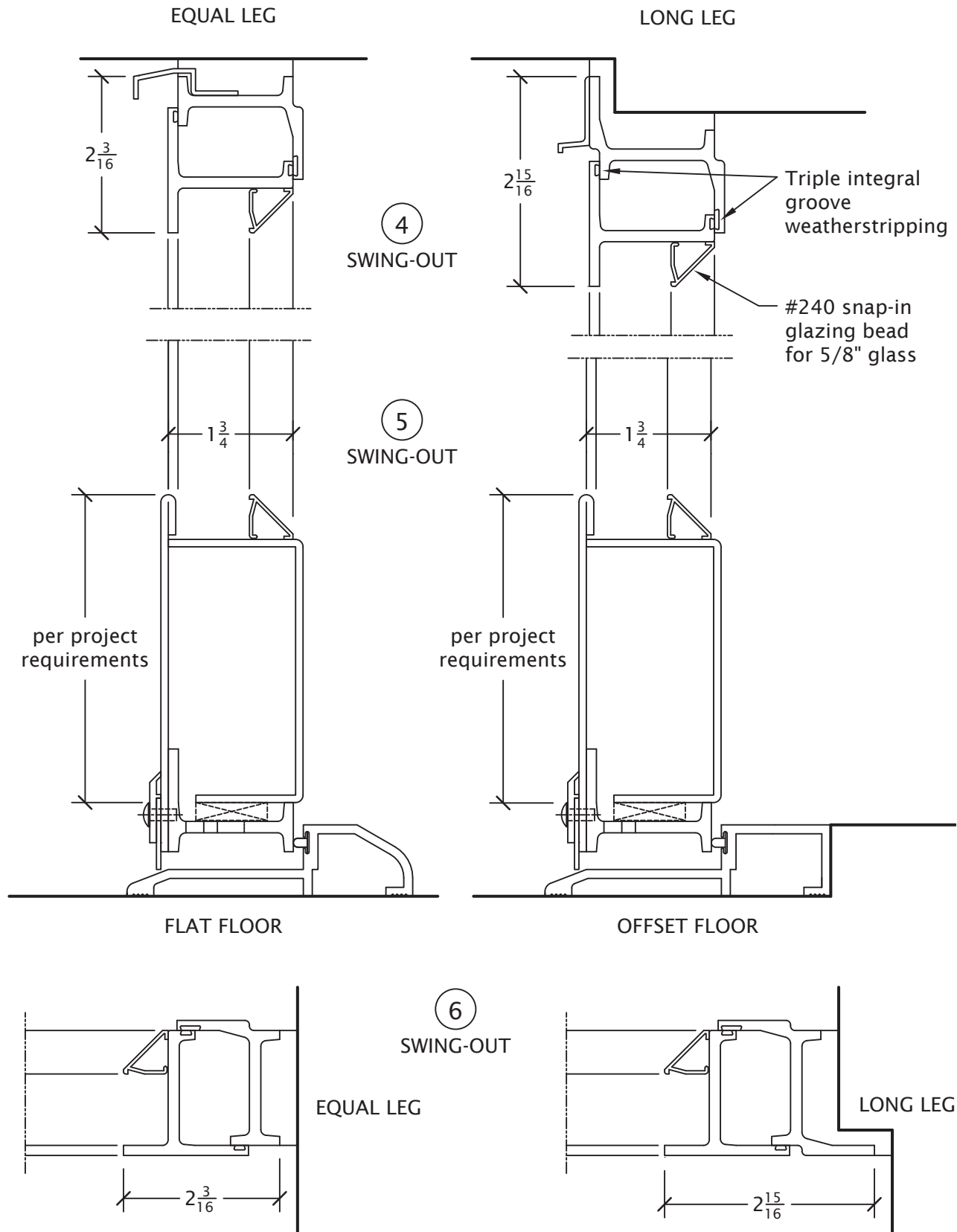
SIMULATED
DIVIDED
LITES (SDL)

(MUNTIN
GRIDS)

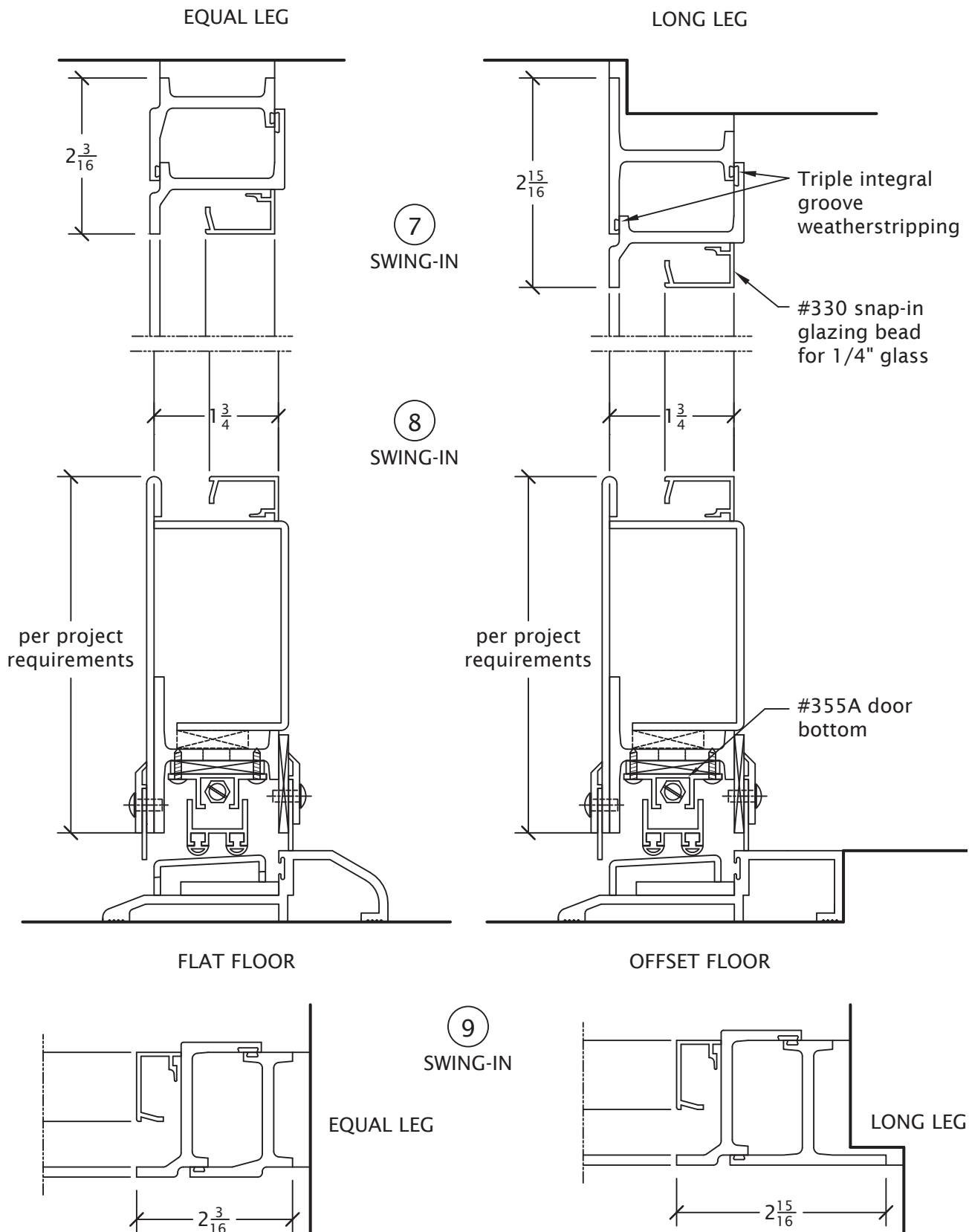
Elevations are for detail reference only. Elevations are not to scale.
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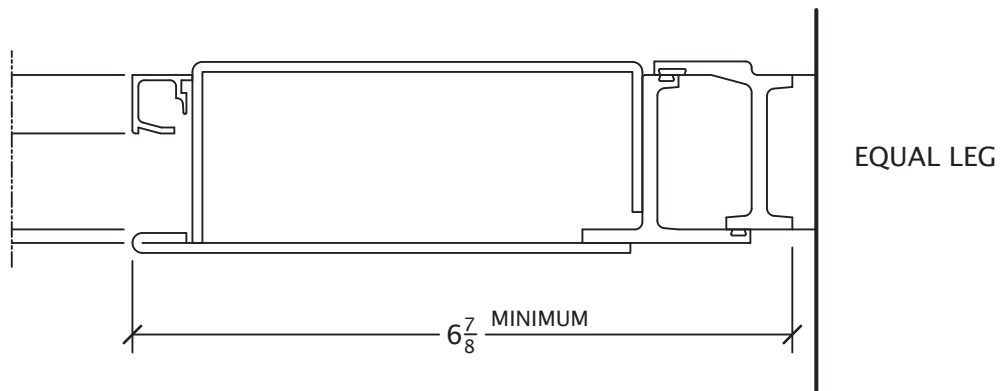
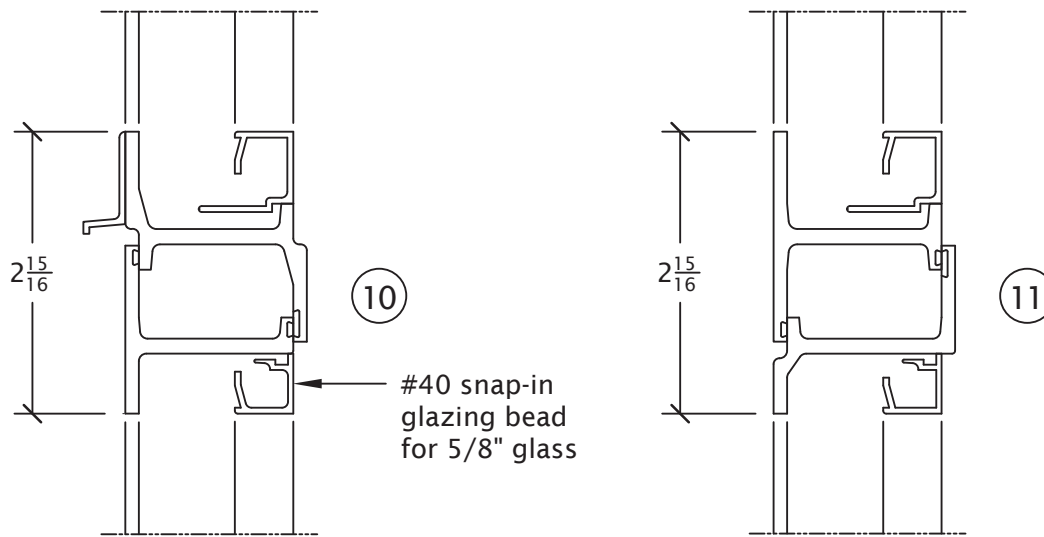
Details are half scale and shown inside glazed with 1" glass.
See page 20 for further glazing bead options.



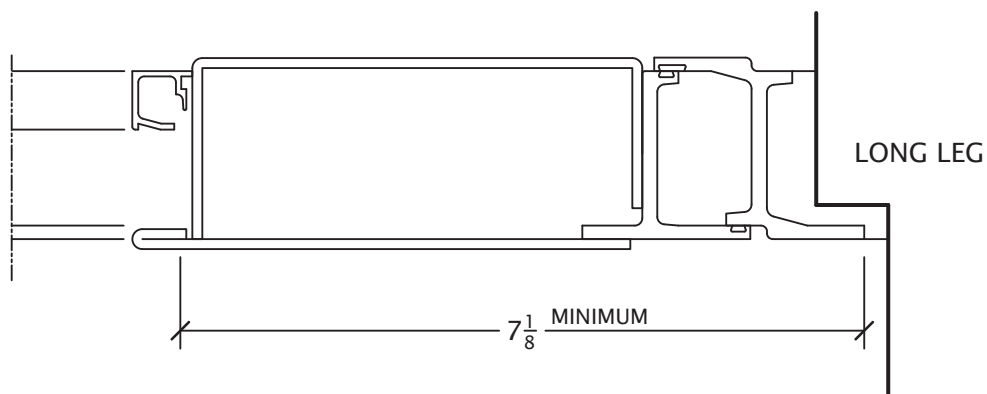
Details are half scale and shown inside glazed with 5/8" glass.
See page 20 for further glazing bead options.



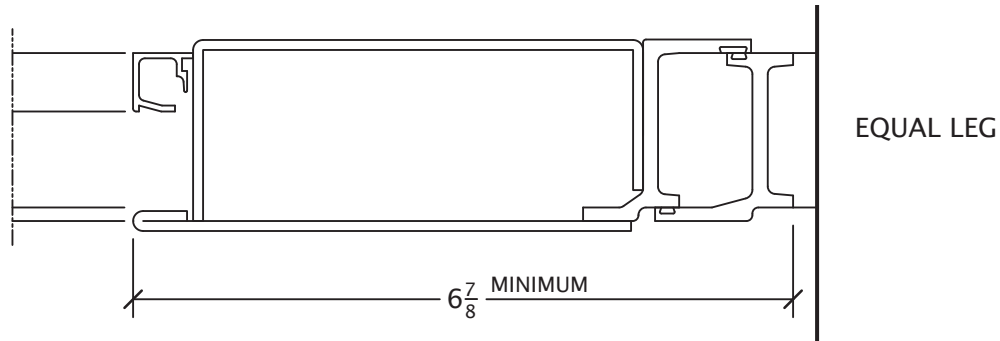
Details are half scale and shown inside glazed with 1/4" glass.
See page 20 for further glazing bead options.



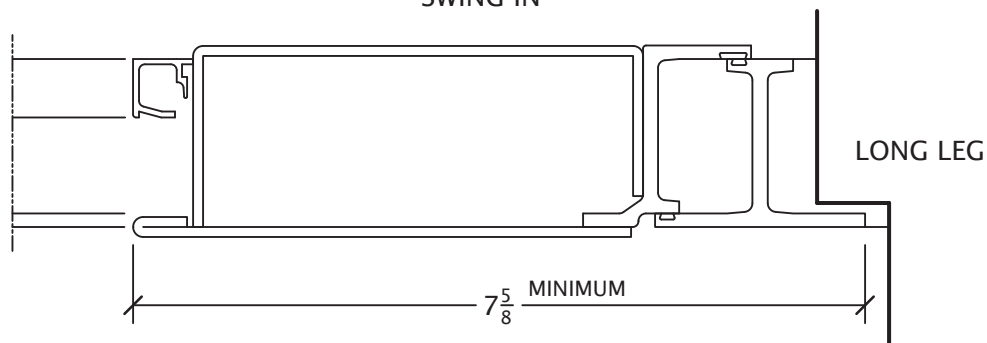
12
SWING-OUT



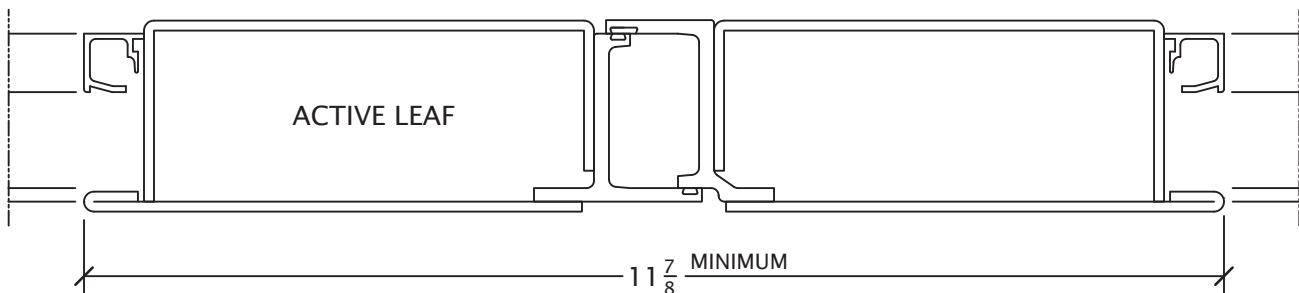
Details are half scale and shown inside glazed with 5/8" glass.
See page 20 for further glazing bead options.



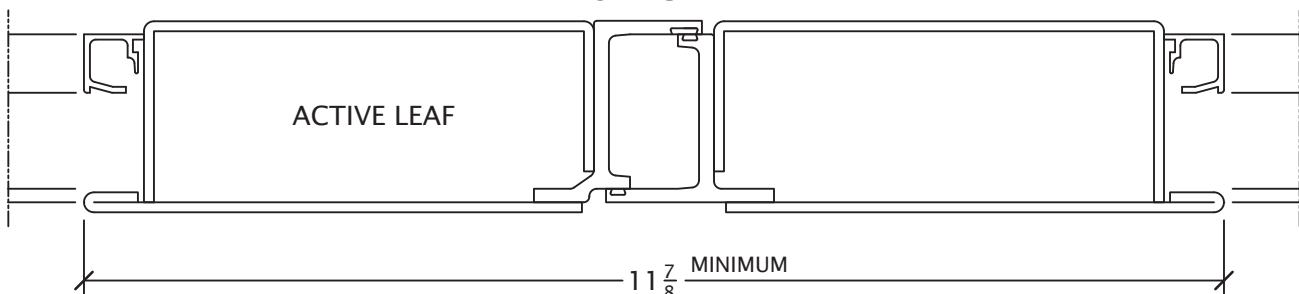
13
SWING-IN



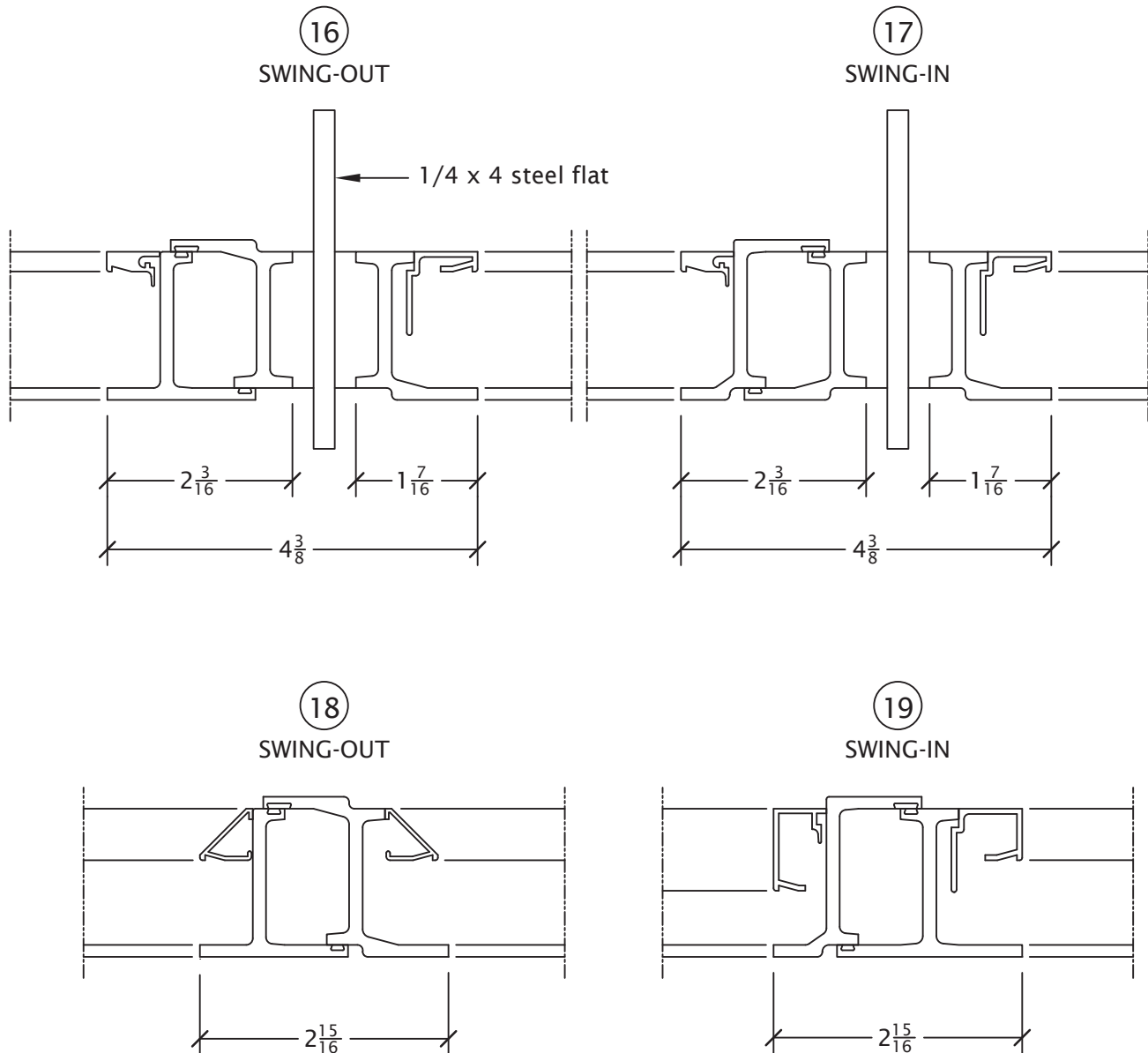
14
SWING-OUT



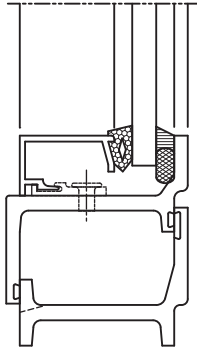
15
SWING-IN



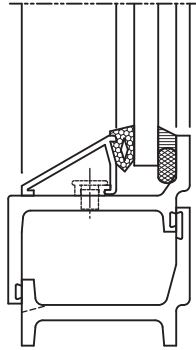
Details are half scale and shown inside glazed with 1/4" glass.
See page 20 for further glazing bead options.



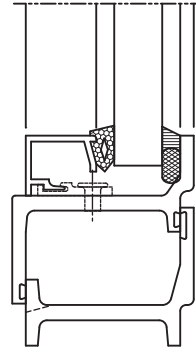
Details are half scale and shown inside glazed.



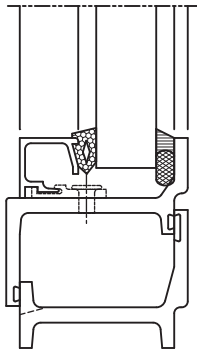
1/4" GLASS
#330 BEAD



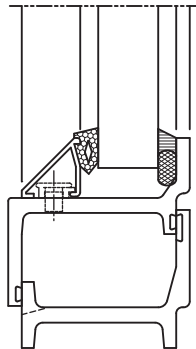
1/4" GLASS
#331 BEAD



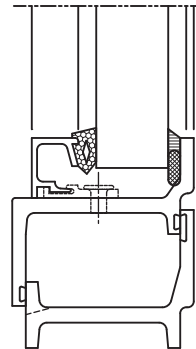
1/2" GLASS
#332 BEAD



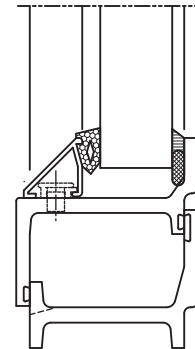
5/8" GLASS
#40 BEAD



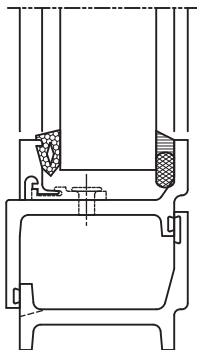
5/8" GLASS
#240 BEAD



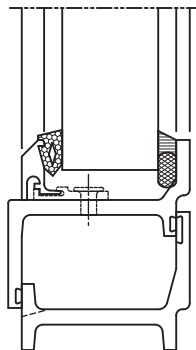
3/4" GLASS
#40 BEAD



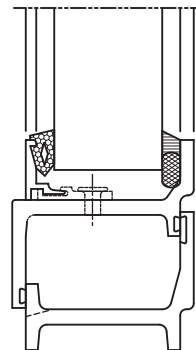
3/4" GLASS
#240 BEAD



1" GLASS
#42 BEAD



1" GLASS
#242 BEAD



1-1/8" 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.

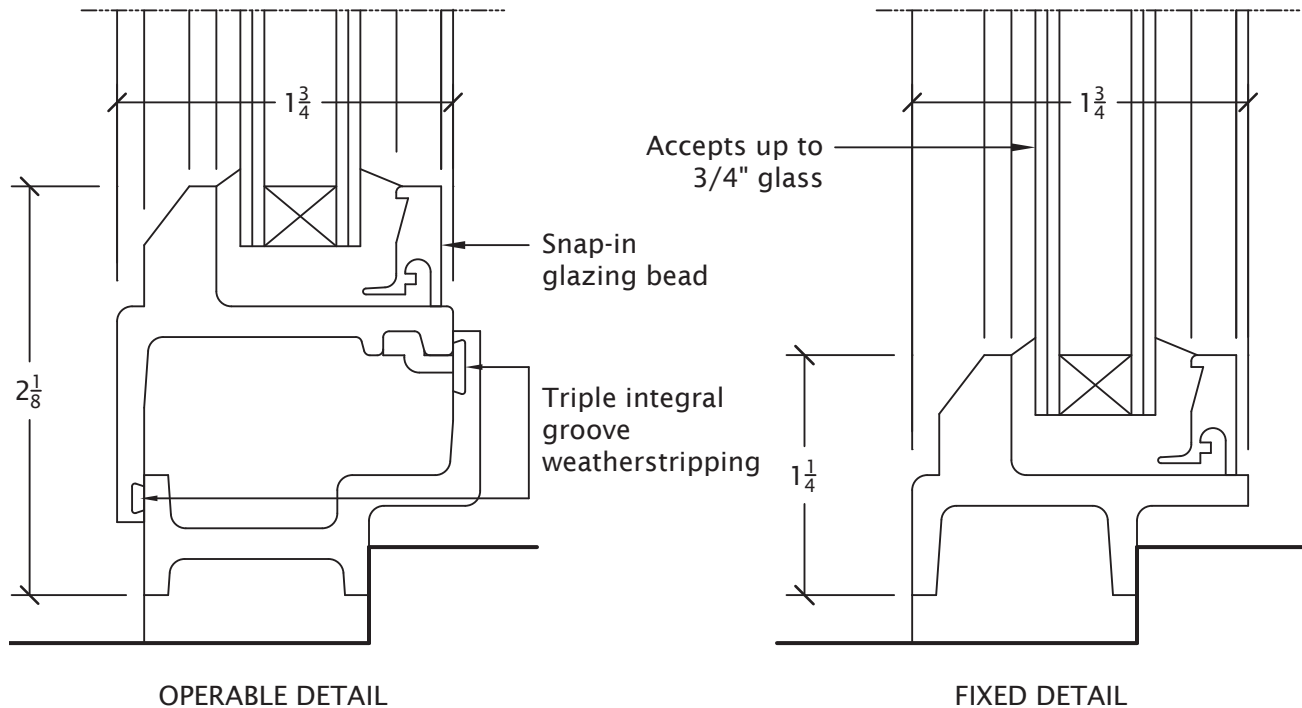
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

Hope's University Series steel 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.

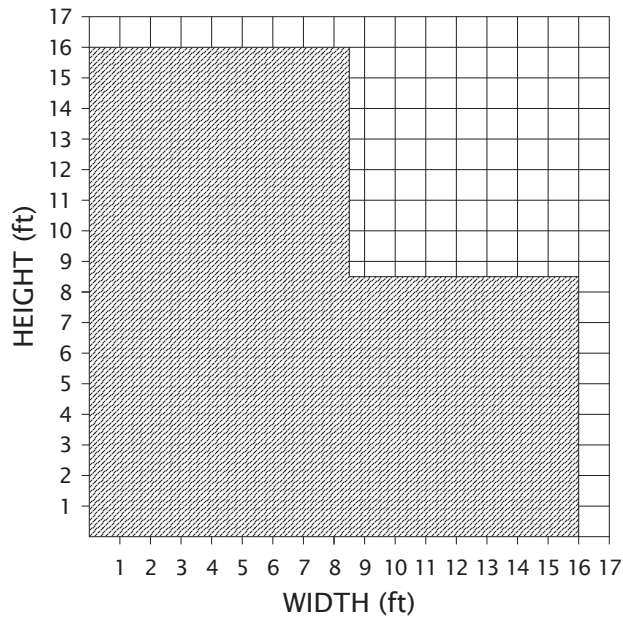
PRODUCT FEATURES

- 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.

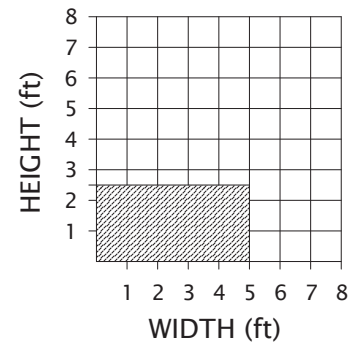


Details are full scale.

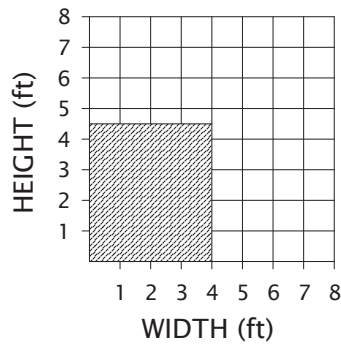
FIXED WINDOWS



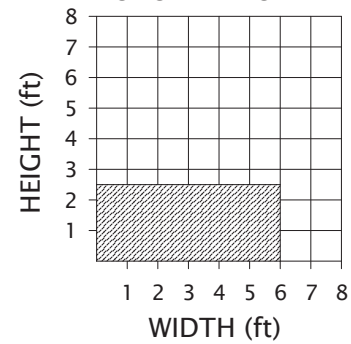
PROJECT-IN VENTILATORS



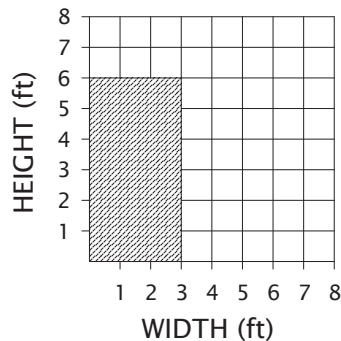
PROJECT-OUT VENTILATORS



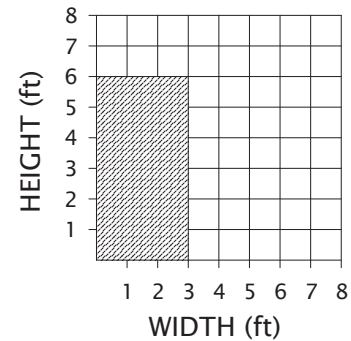
MOTORIZED OPERATOR



CASEMENT VENTILATORS

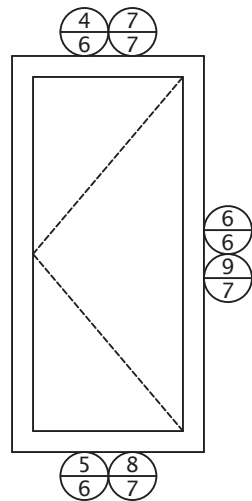
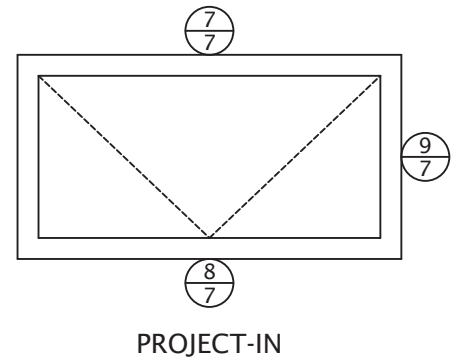
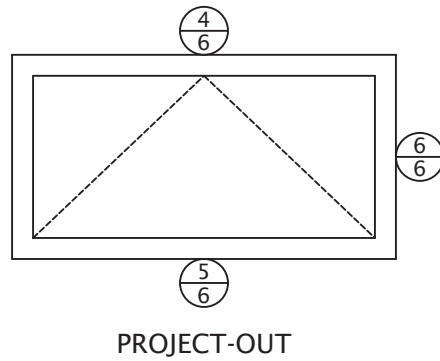
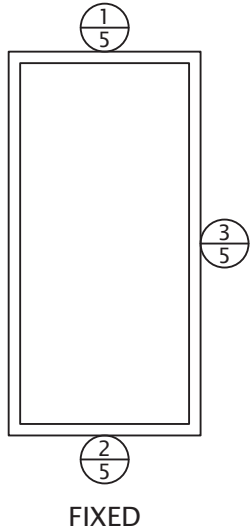


ROTO OPERATOR

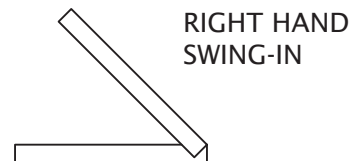
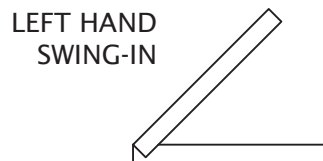
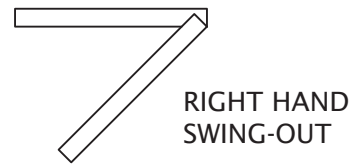
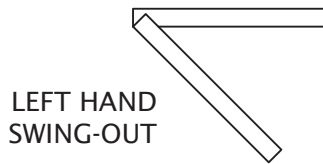
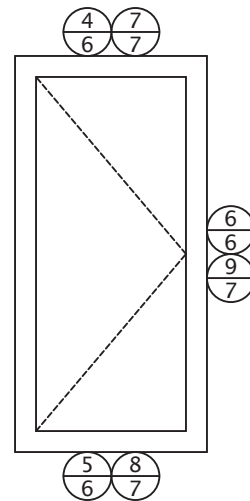


NOTE: Casements over 60" tall
limited to 20° opening

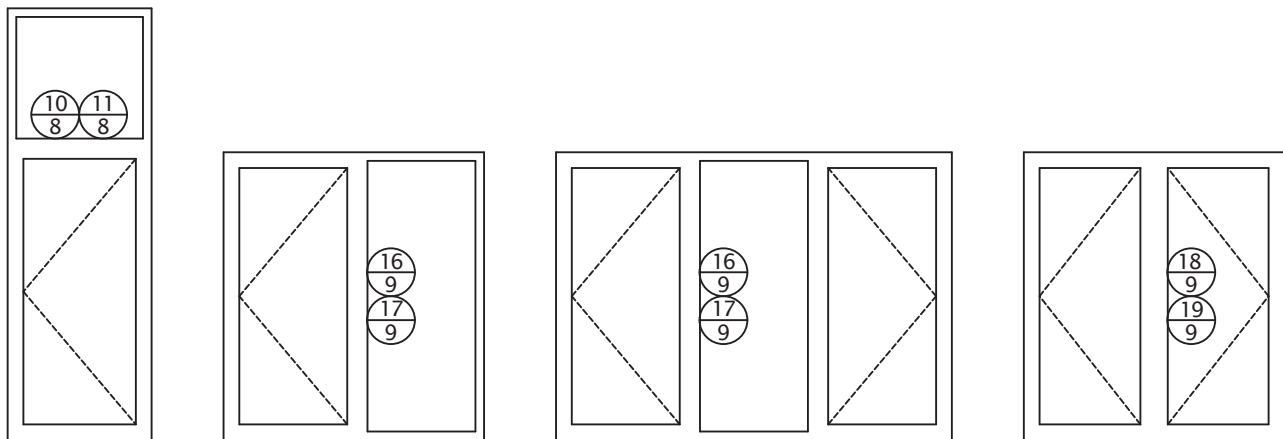
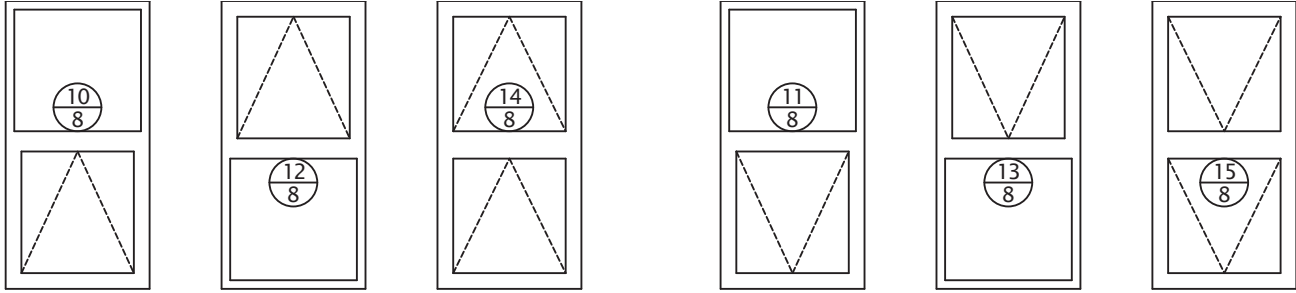
Size based on 3/4" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



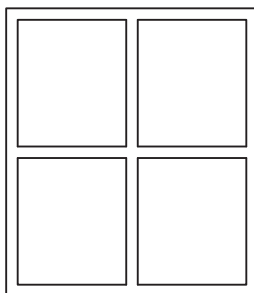
SIDE HUNG-OUT
SIDE HUNG-IN
CASEMENT



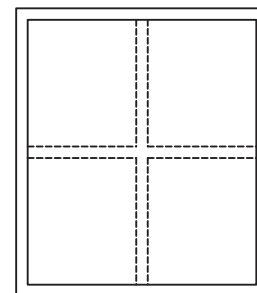
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



TRUE
DIVIDED
LITES (TDL)

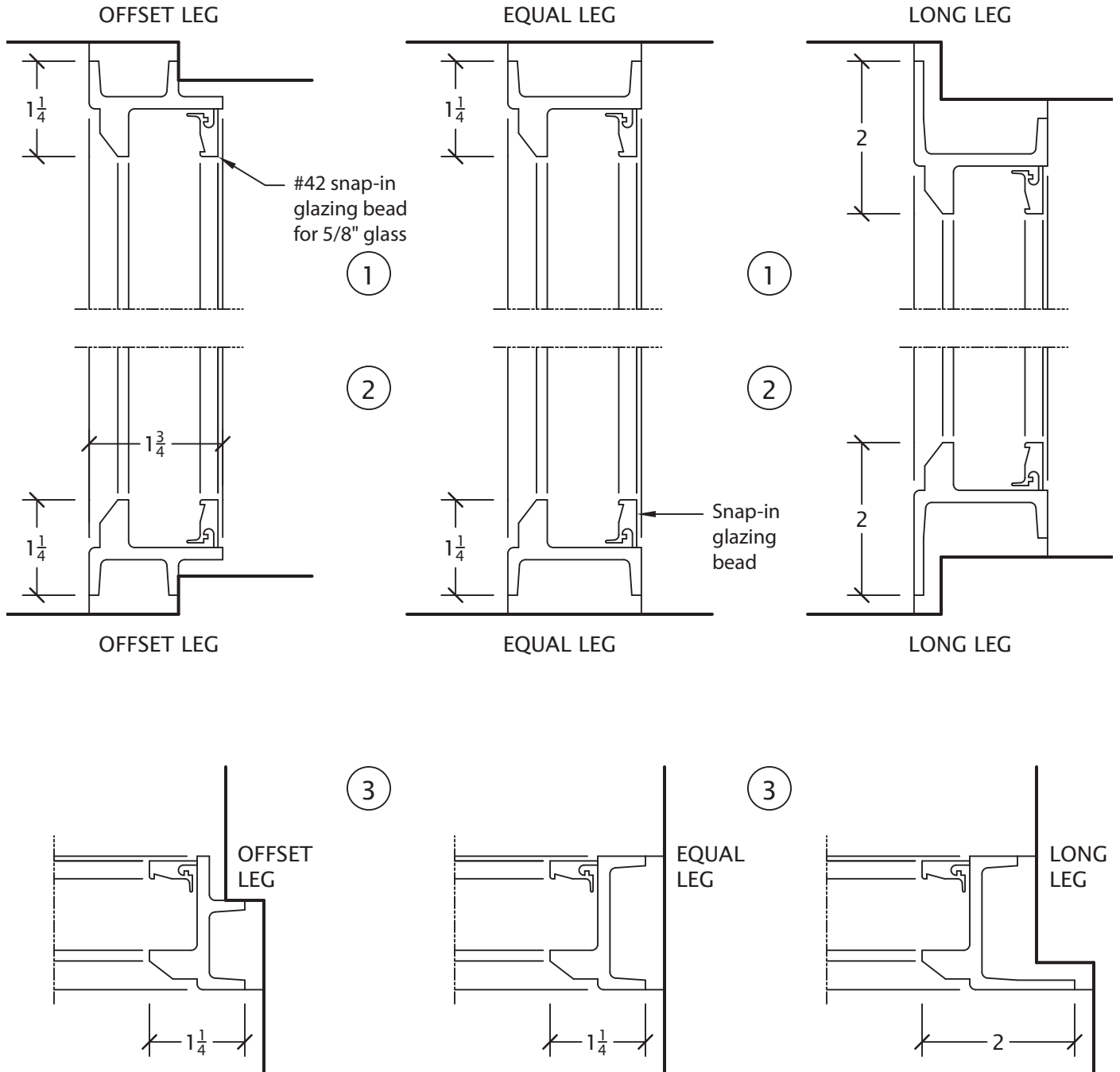


FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION

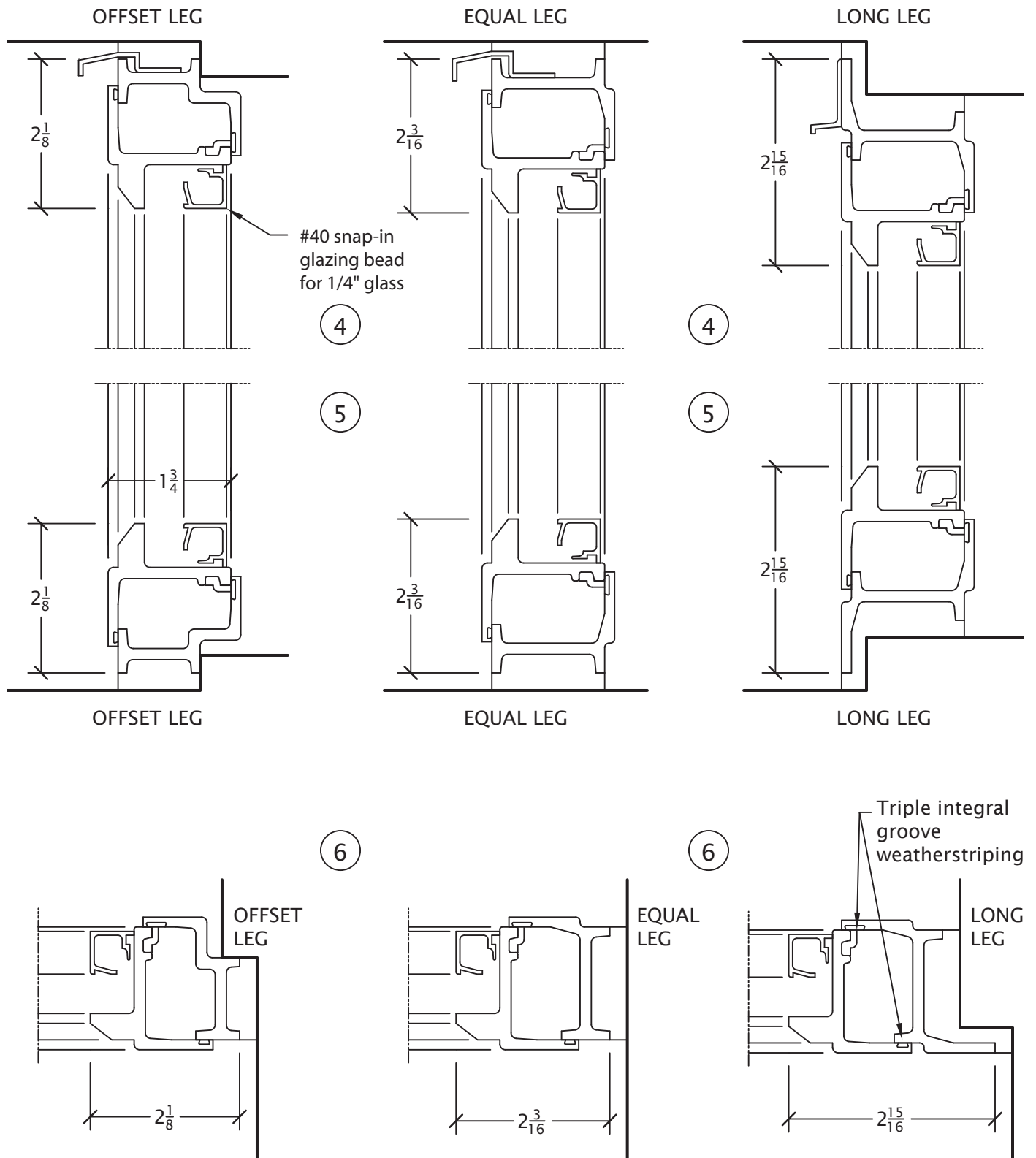


SIMULATED
DIVIDED
LITES (SDL)
(MUNTIN
GRIDS)

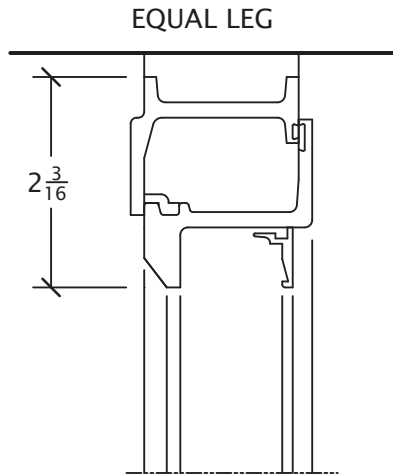
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



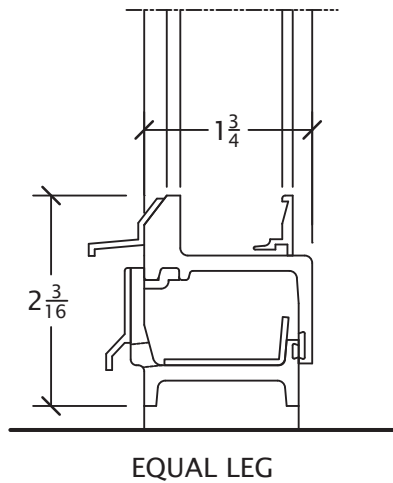
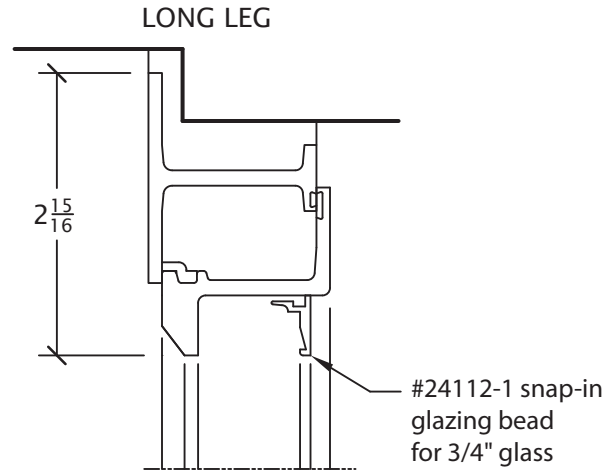
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



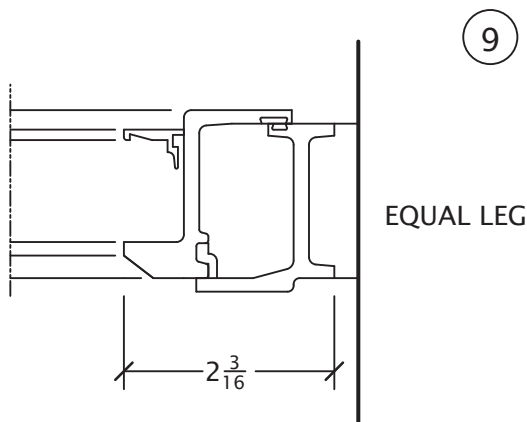
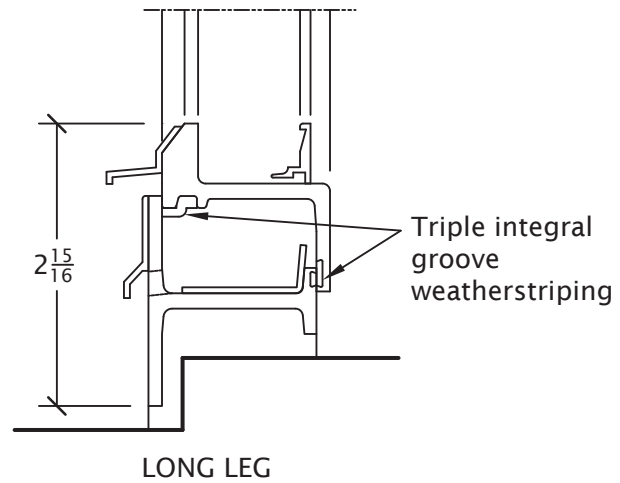
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



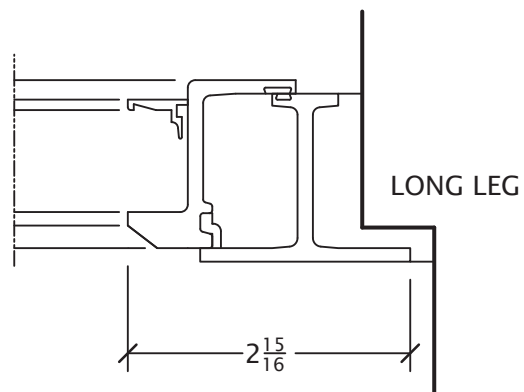
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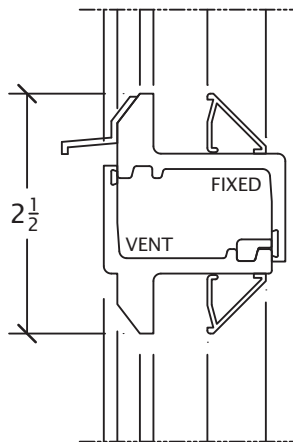
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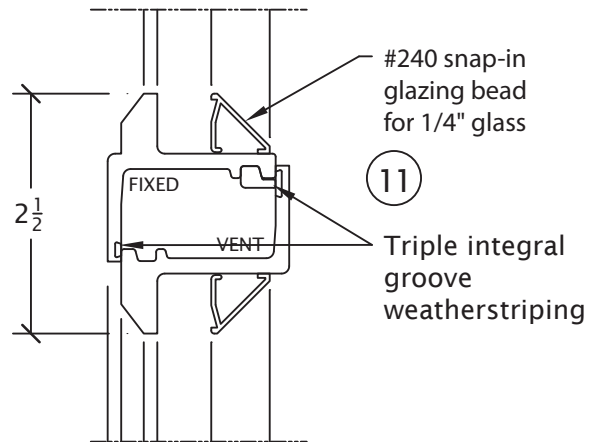
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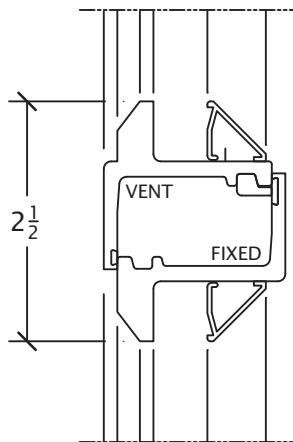
Details are half scale and shown inside glazed with 3/4" glass.
See page 10 for further glazing bead options.



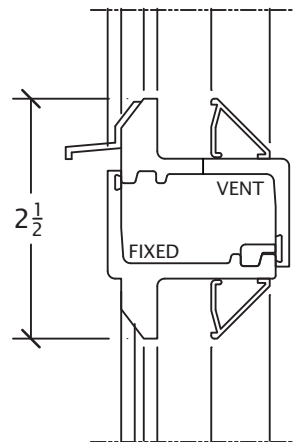
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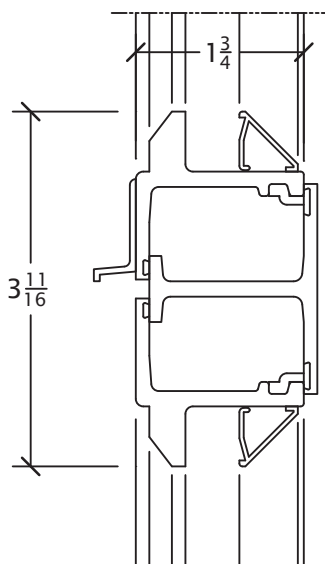
11



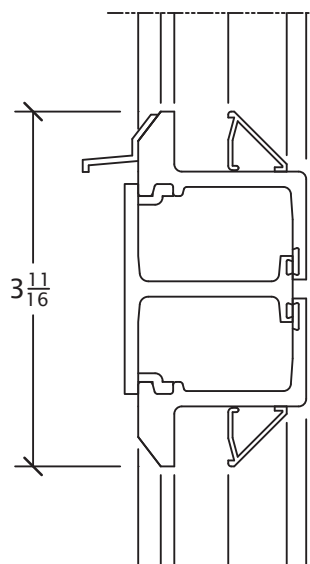
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13

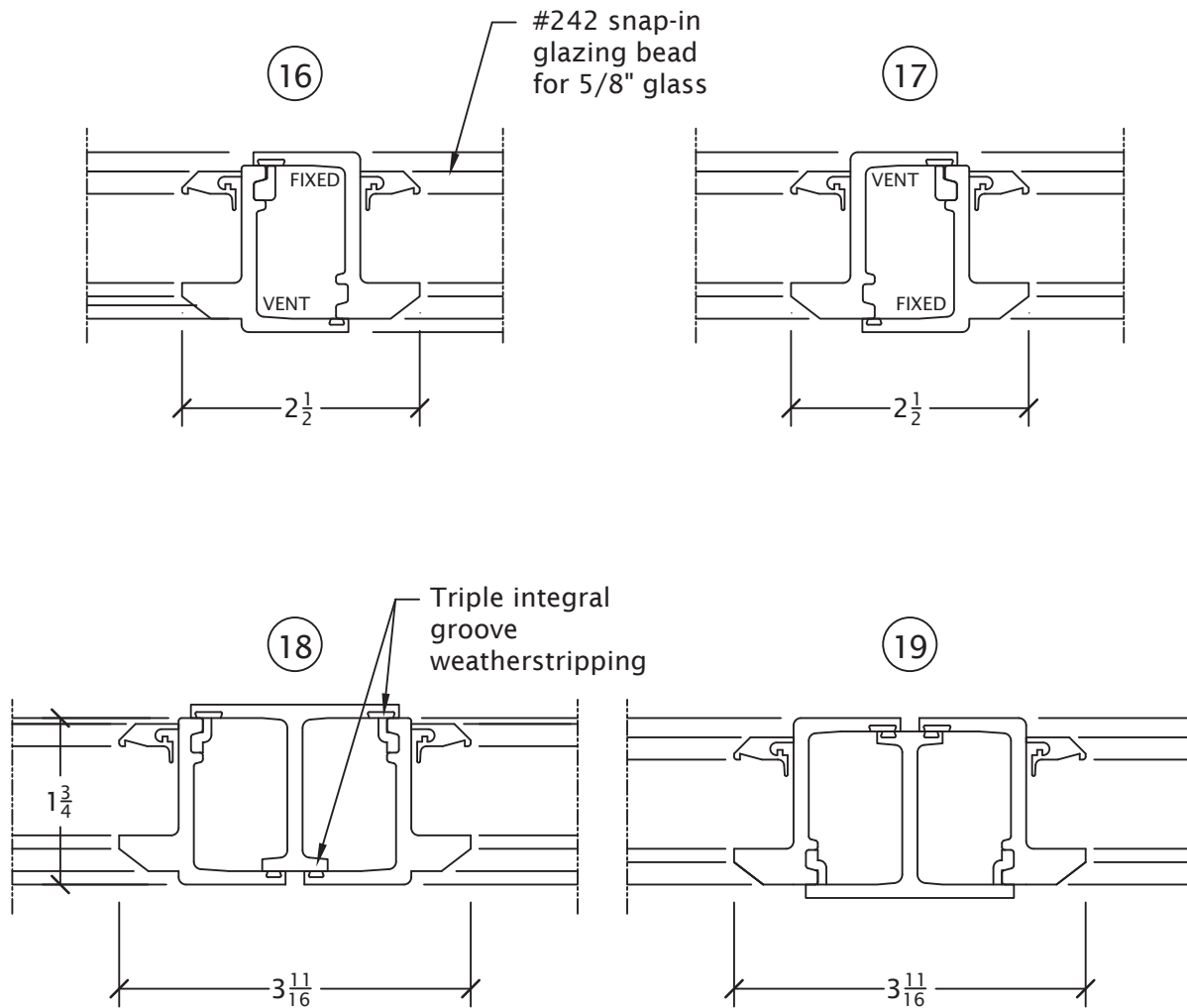


14

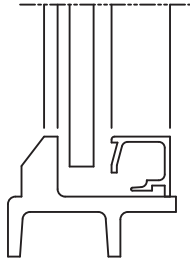


15

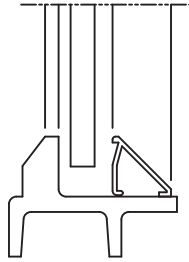
Details are half scale and shown inside glazed with 1/4" glass.
See page 10 for further glazing bead options.



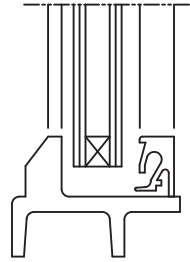
Details are half scale and shown inside glazed with 5/8" glass.
See page 10 for further glazing bead options.



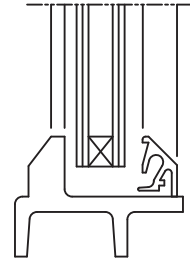
1/4" GLASS
#40 BEAD



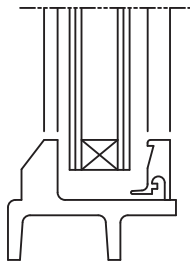
1/4" GLASS
#240 BEAD



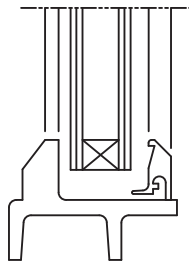
1/2" GLASS
#41 BEAD



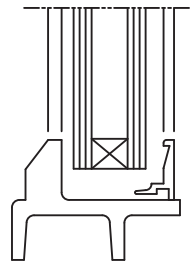
1/2" GLASS
#241 BEAD



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.

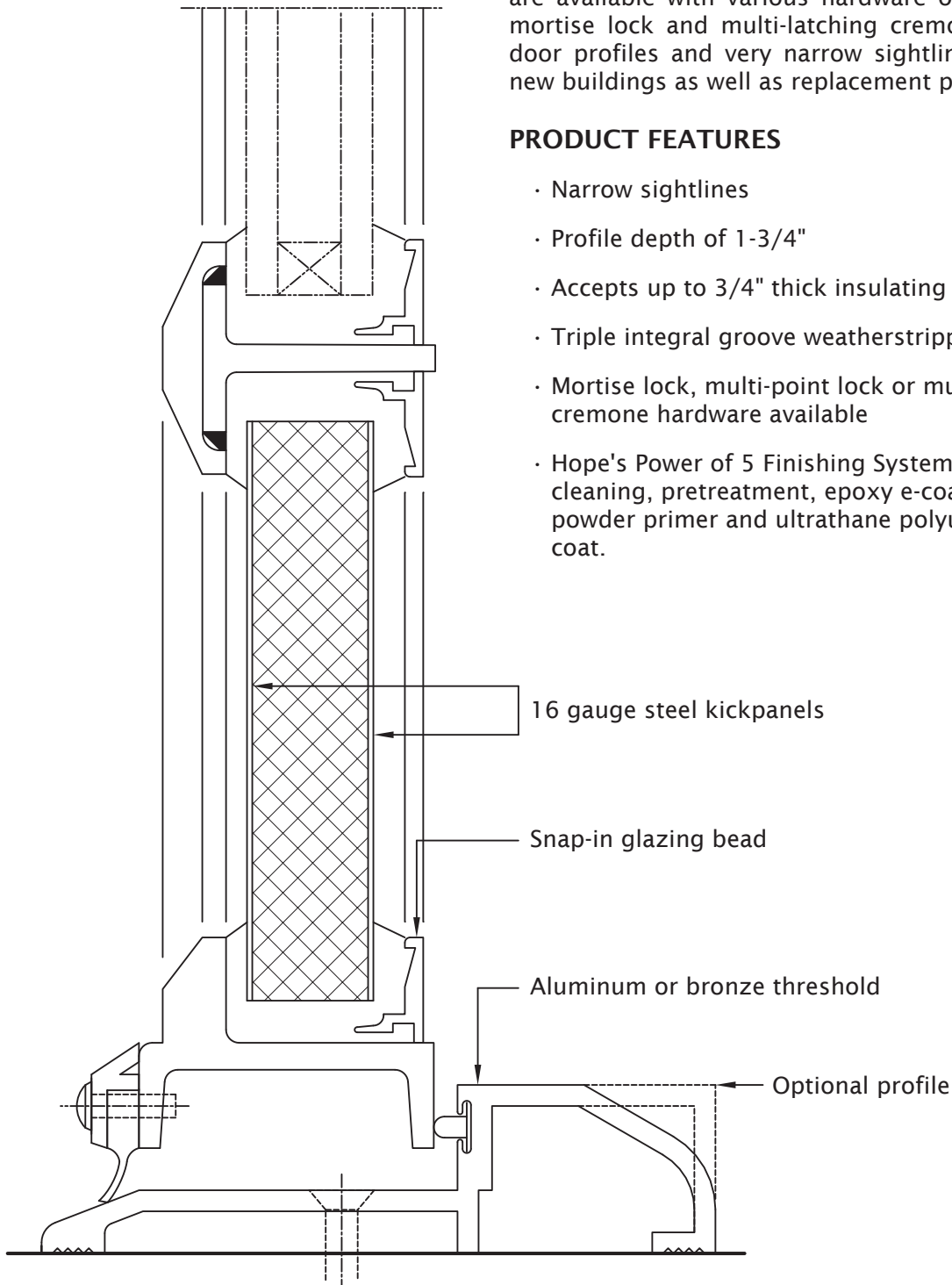
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

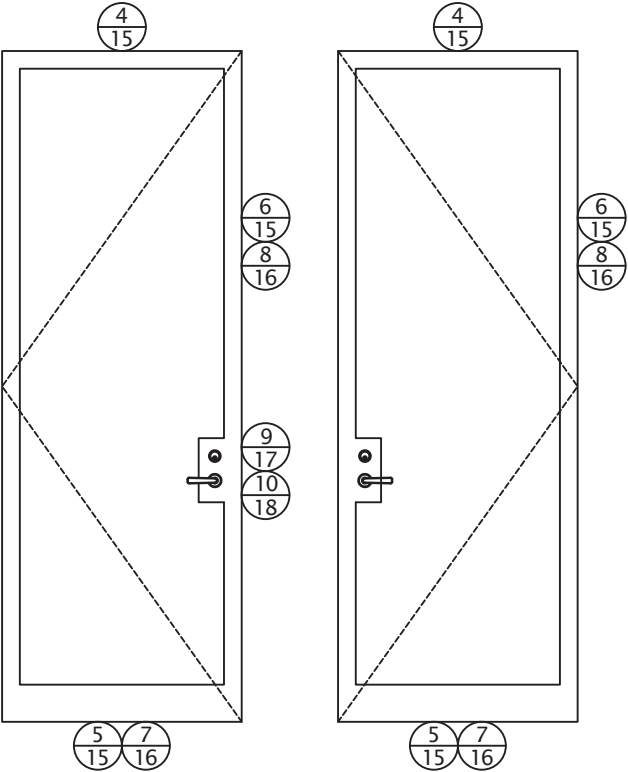
Hope's University Series steel door profiles complement the University Series window product line for projects requiring historic replication of exterior putty glazed steel doors. Single and French-style configurations are available with various hardware options including mortise lock and multi-latching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

PRODUCT FEATURES

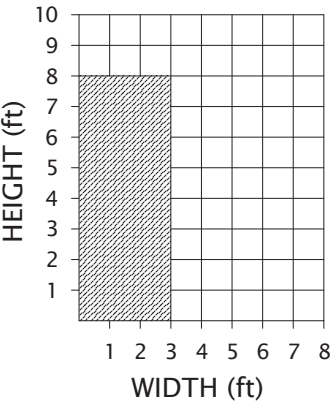
- Narrow sightlines
- Profile depth of 1-3/4"
- Accepts up to 3/4" thick insulating glass
- Triple integral groove weatherstripping
- Mortise lock, multi-point lock or multi-latching cremone hardware available
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer,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



Details are full scale.

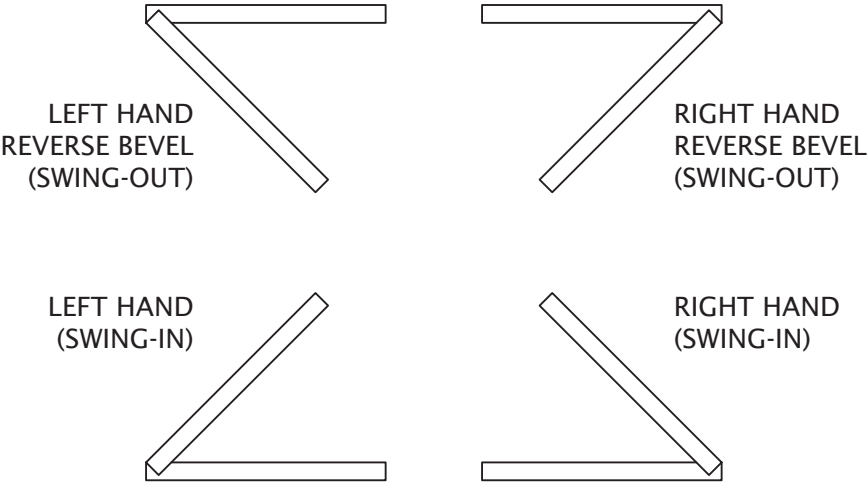


RECOMMENDED SIZES

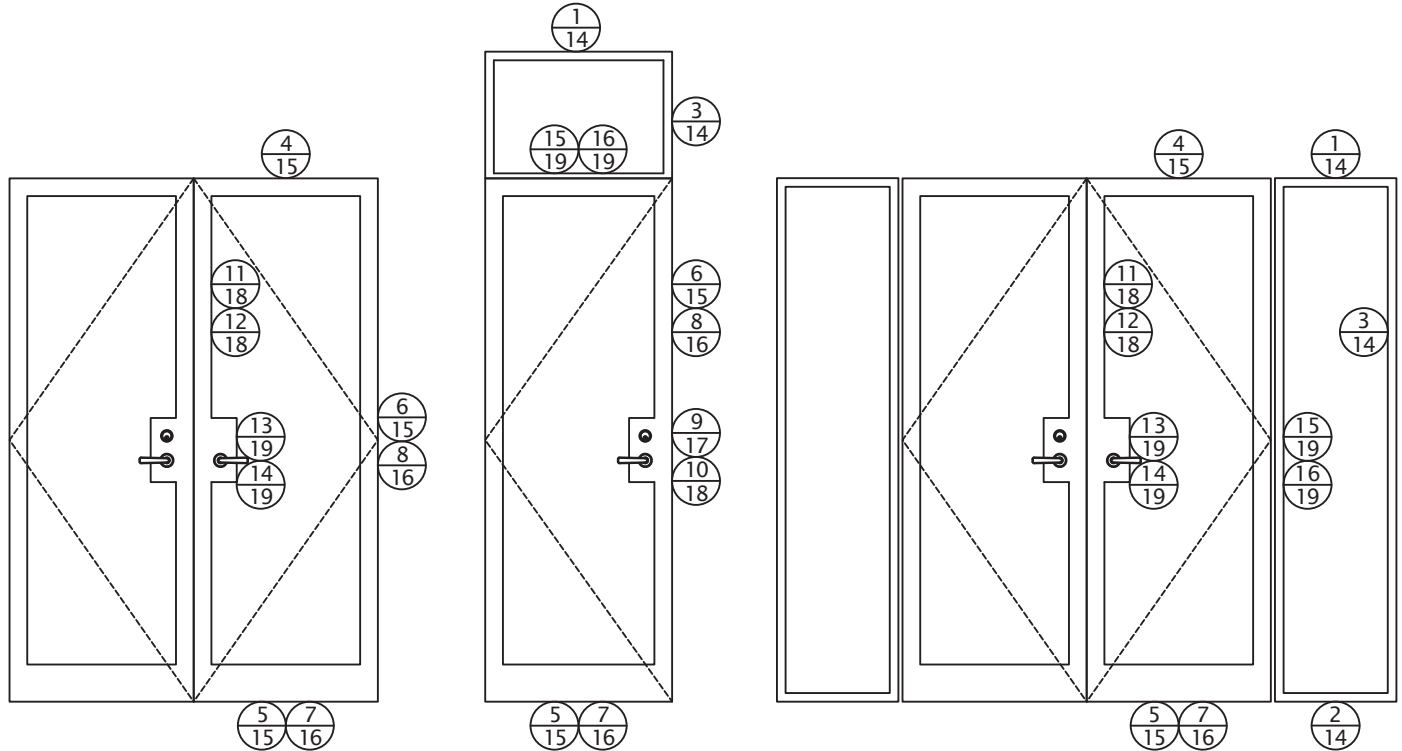


Size based on 3/4" insulating glass with 1/4" panes.

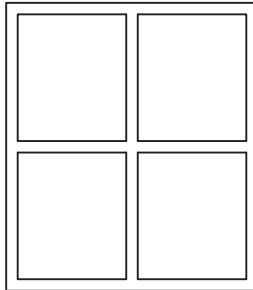
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



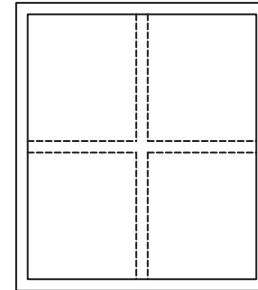
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



TRUE
DIVIDED
LITES (TDL)

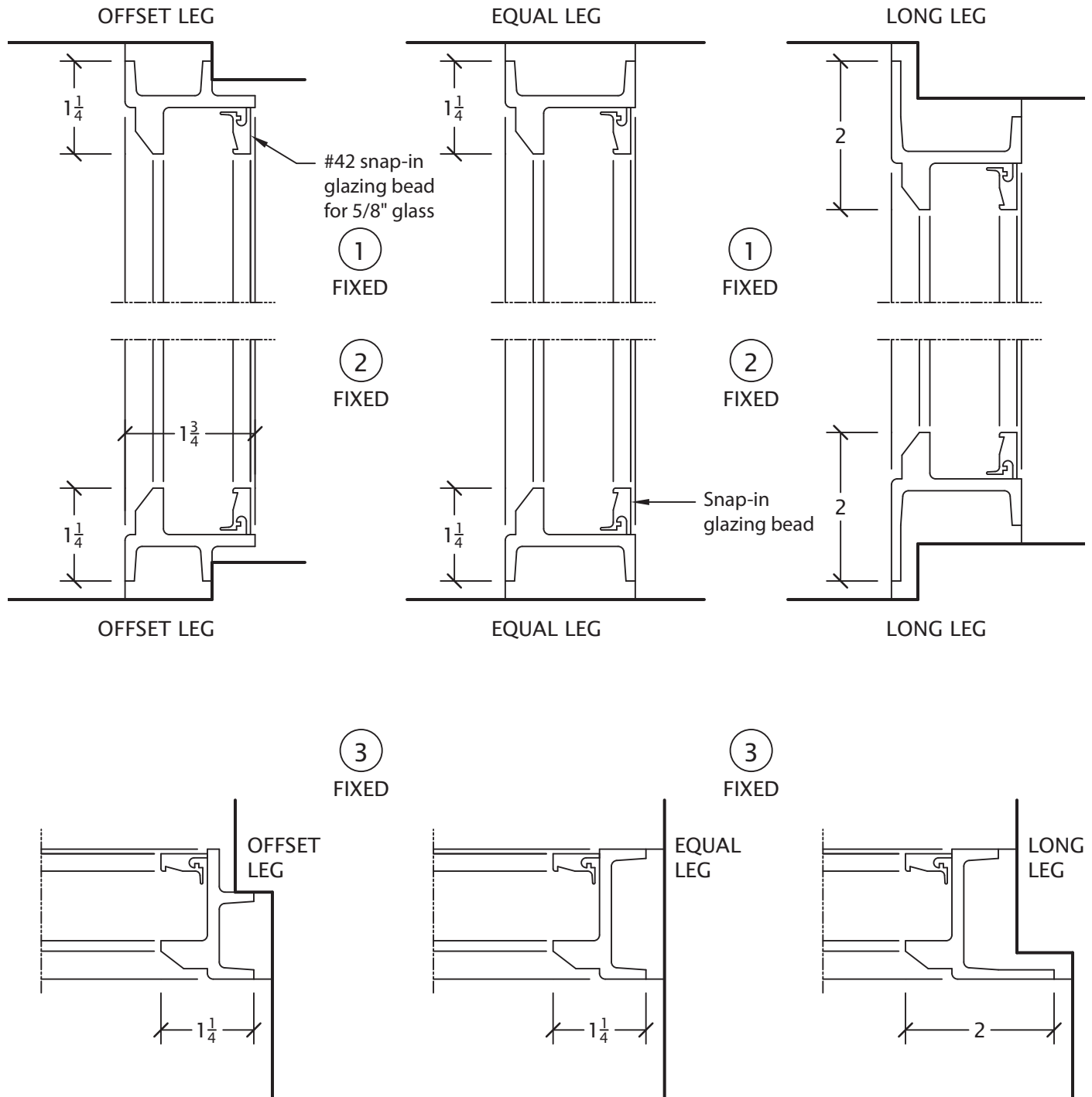


FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION

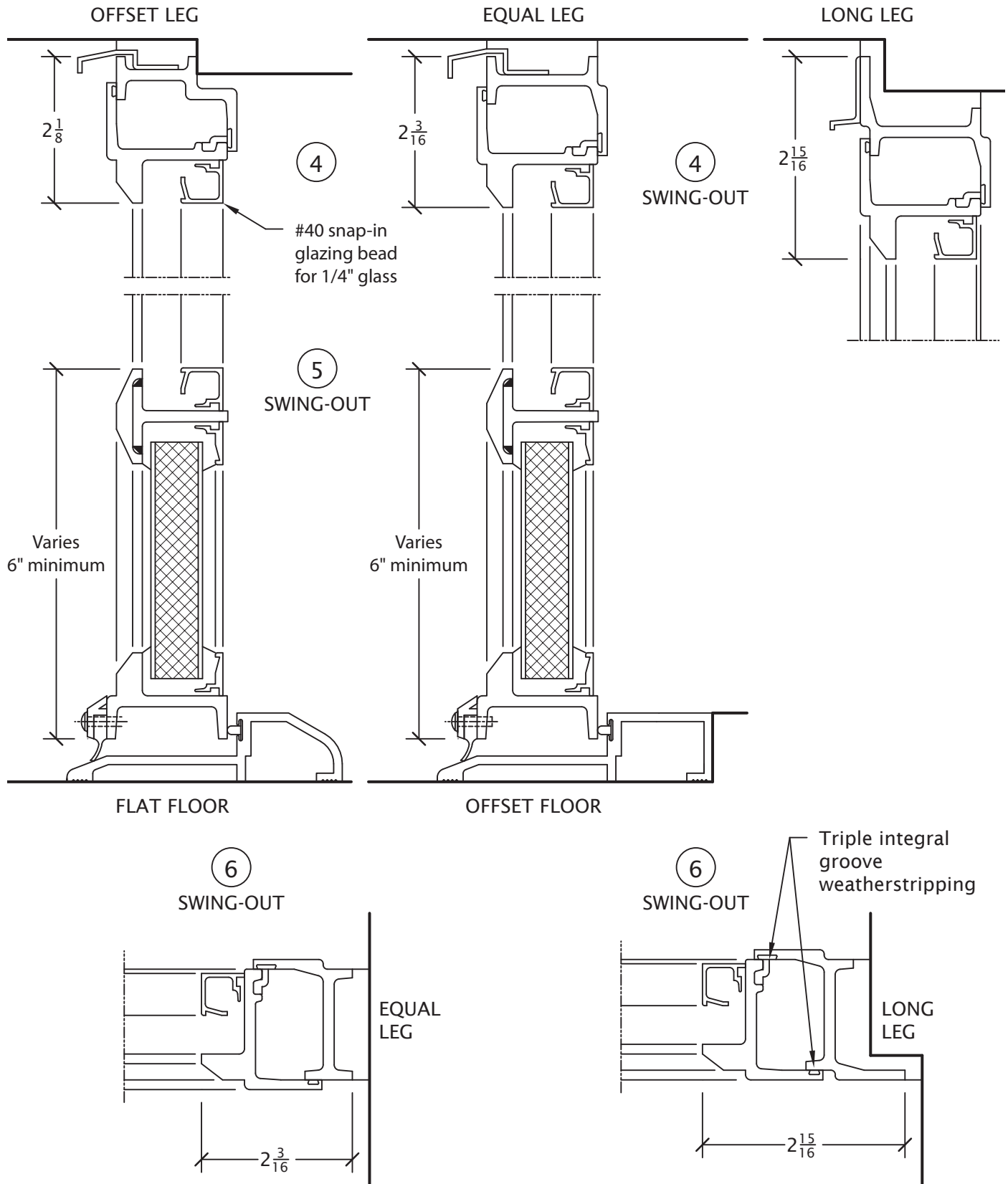


SIMULATED
DIVIDED
LITES (SDL)
(MUNTIN
GRIDS)

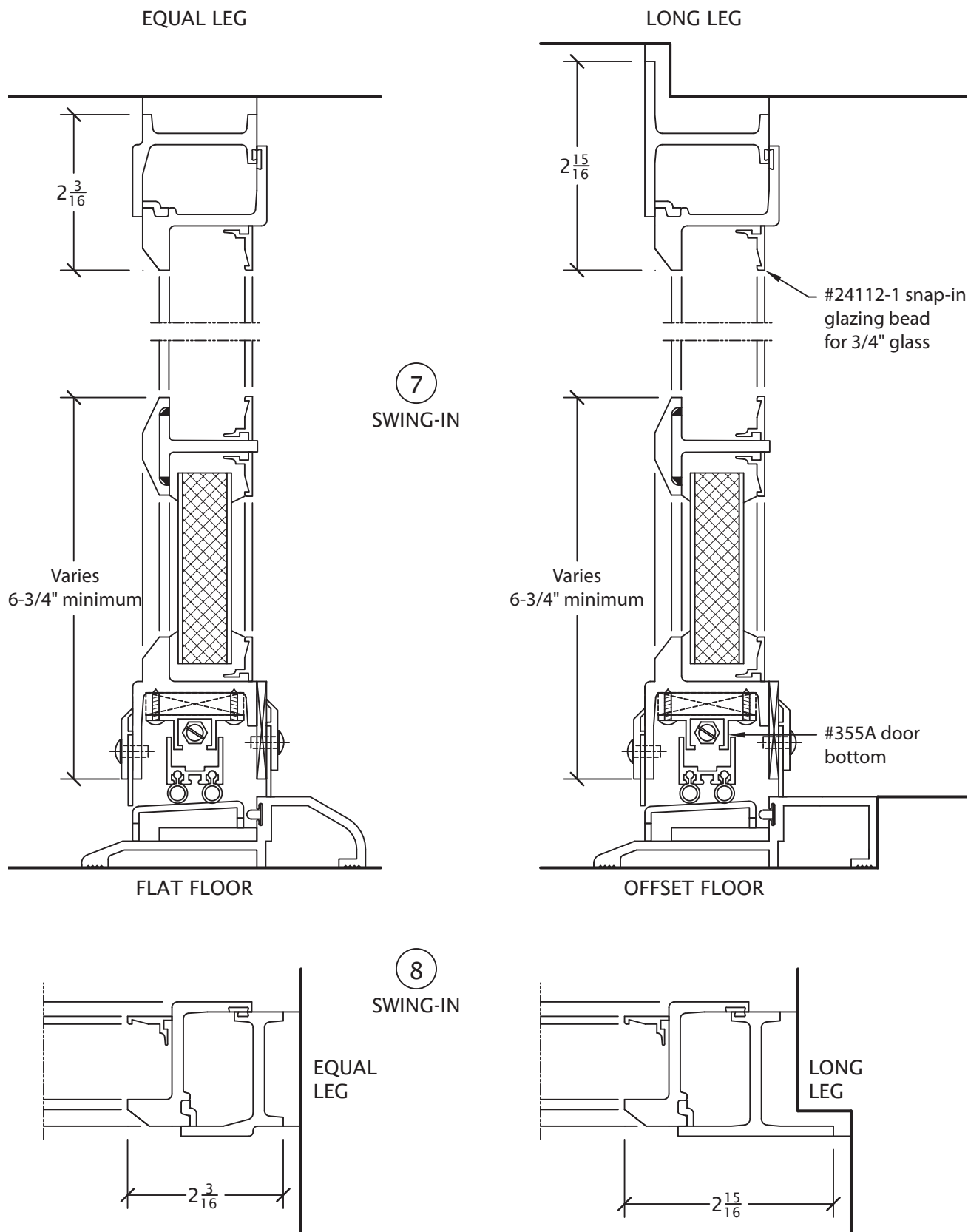
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



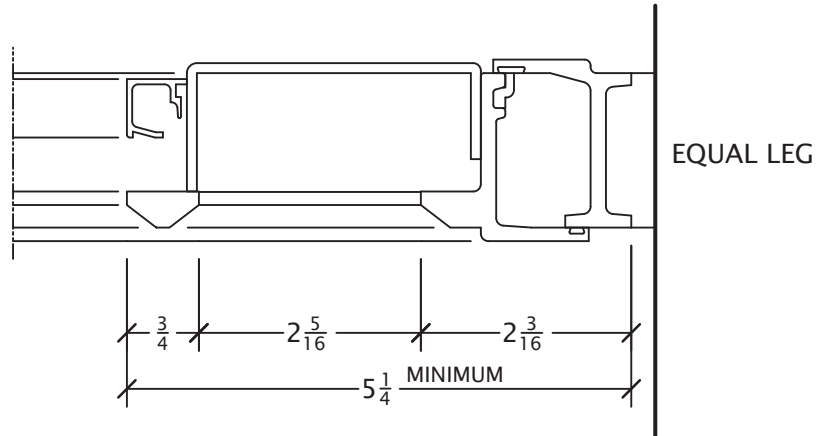
Details are half scale and shown inside glazed with 5/8" glass.
See page 20 for further glazing bead options.



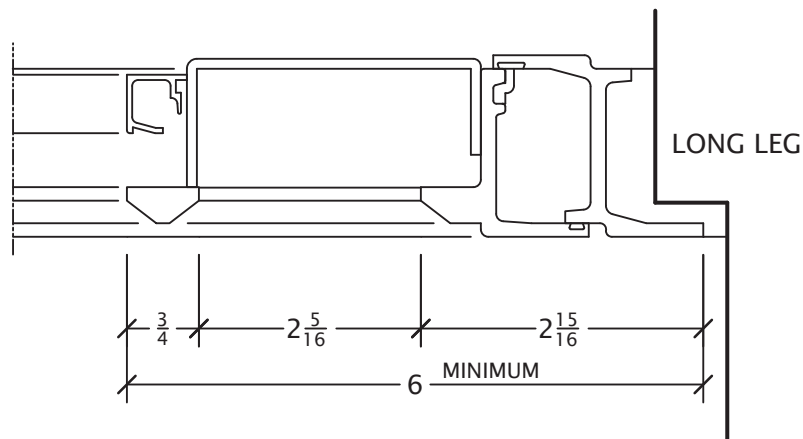
Details are half scale and shown inside glazed with 1/4" glass.
See page 20 for further glazing bead options.



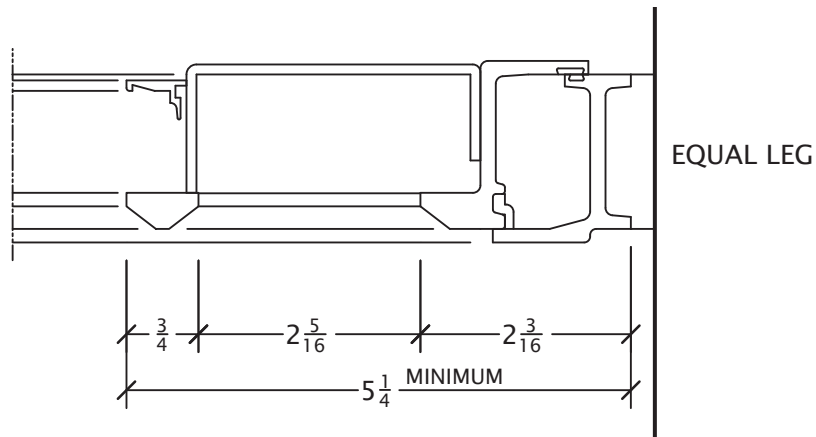
Details are half scale and shown inside glazed with 3/4" glass.
See page 20 for further glazing bead options.



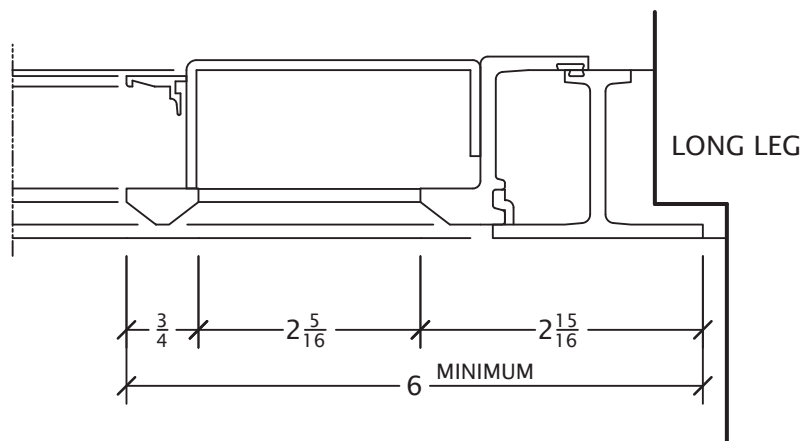
⑨
SWING-OUT



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

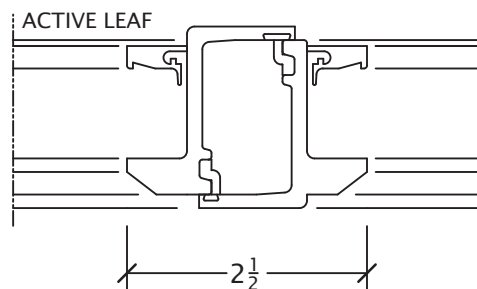
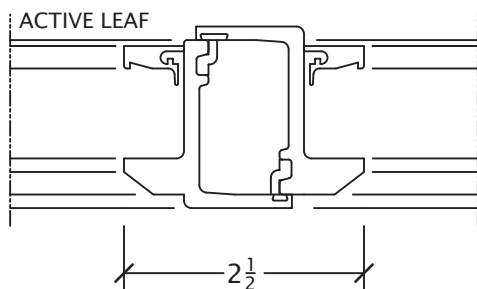


10
SWING-IN

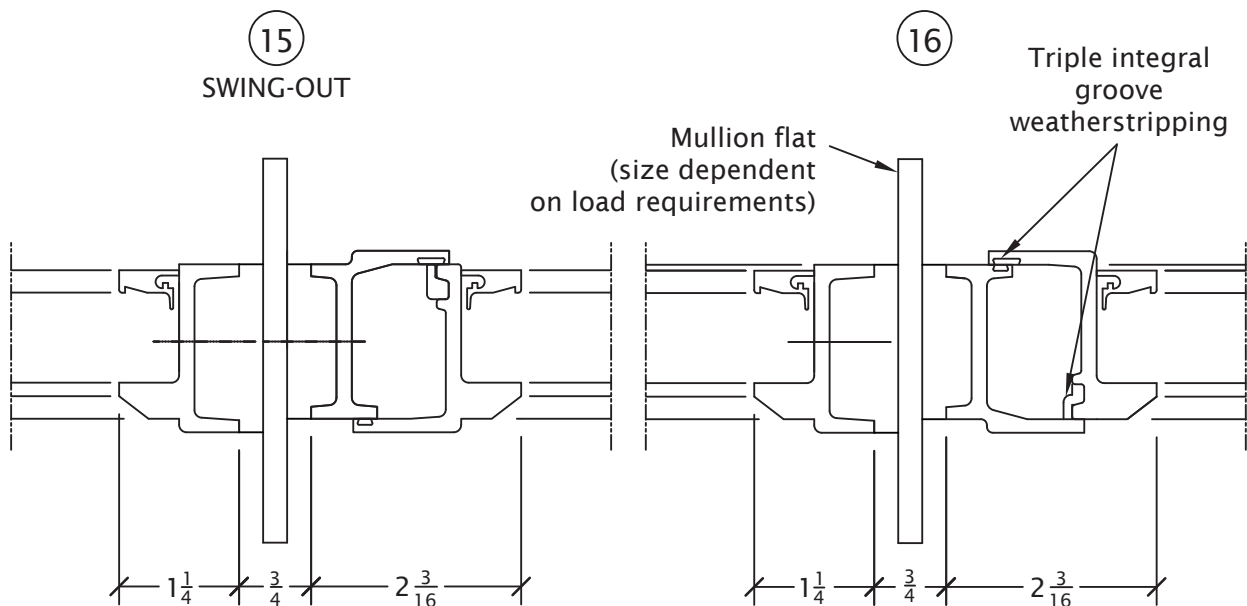
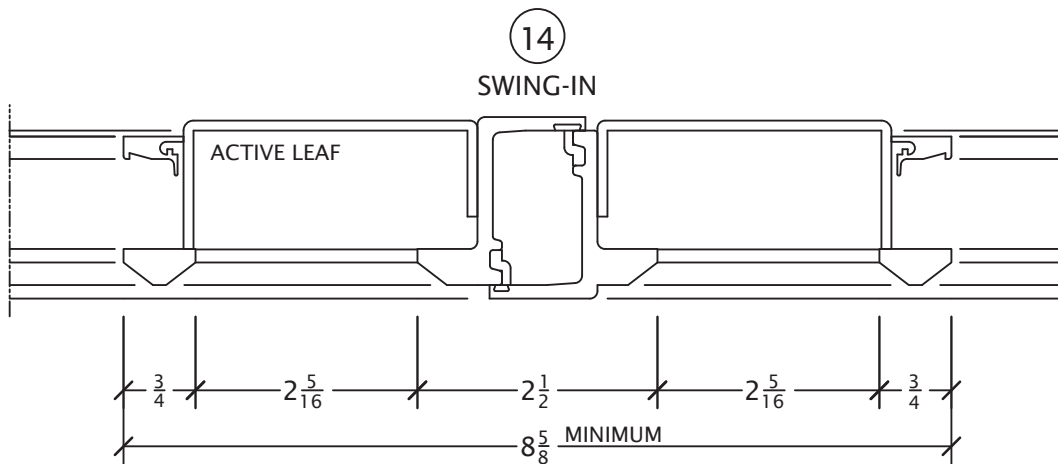
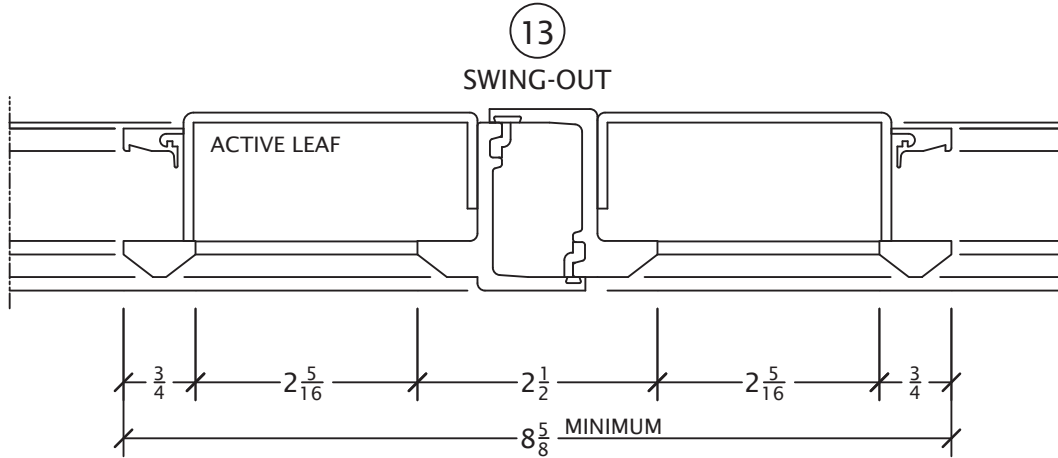


11
SWING-OUT

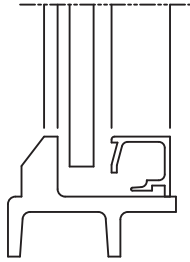
12
SWING-IN



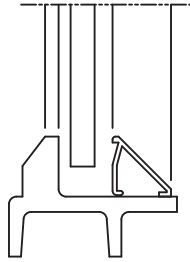
Details are half scale and shown inside glazed with $\frac{3}{4}$ " glass.
See page 20 for further glazing bead options.



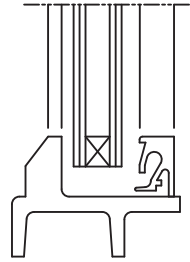
Details are half scale and shown inside glazed with 5/8" glass.
See page 20 for further glazing bead options.



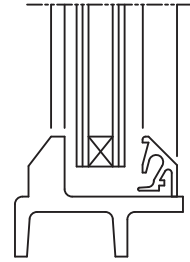
1/4" GLASS
#40 BEAD



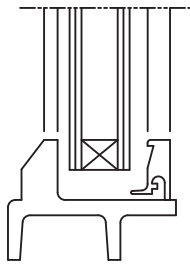
1/4" GLASS
#240 BEAD



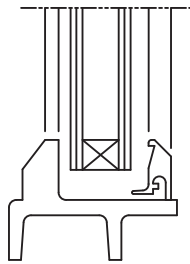
1/2" GLASS
#41 BEAD



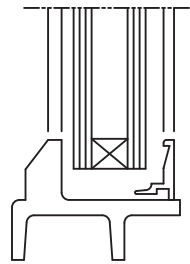
1/2" GLASS
#241 BEAD



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.

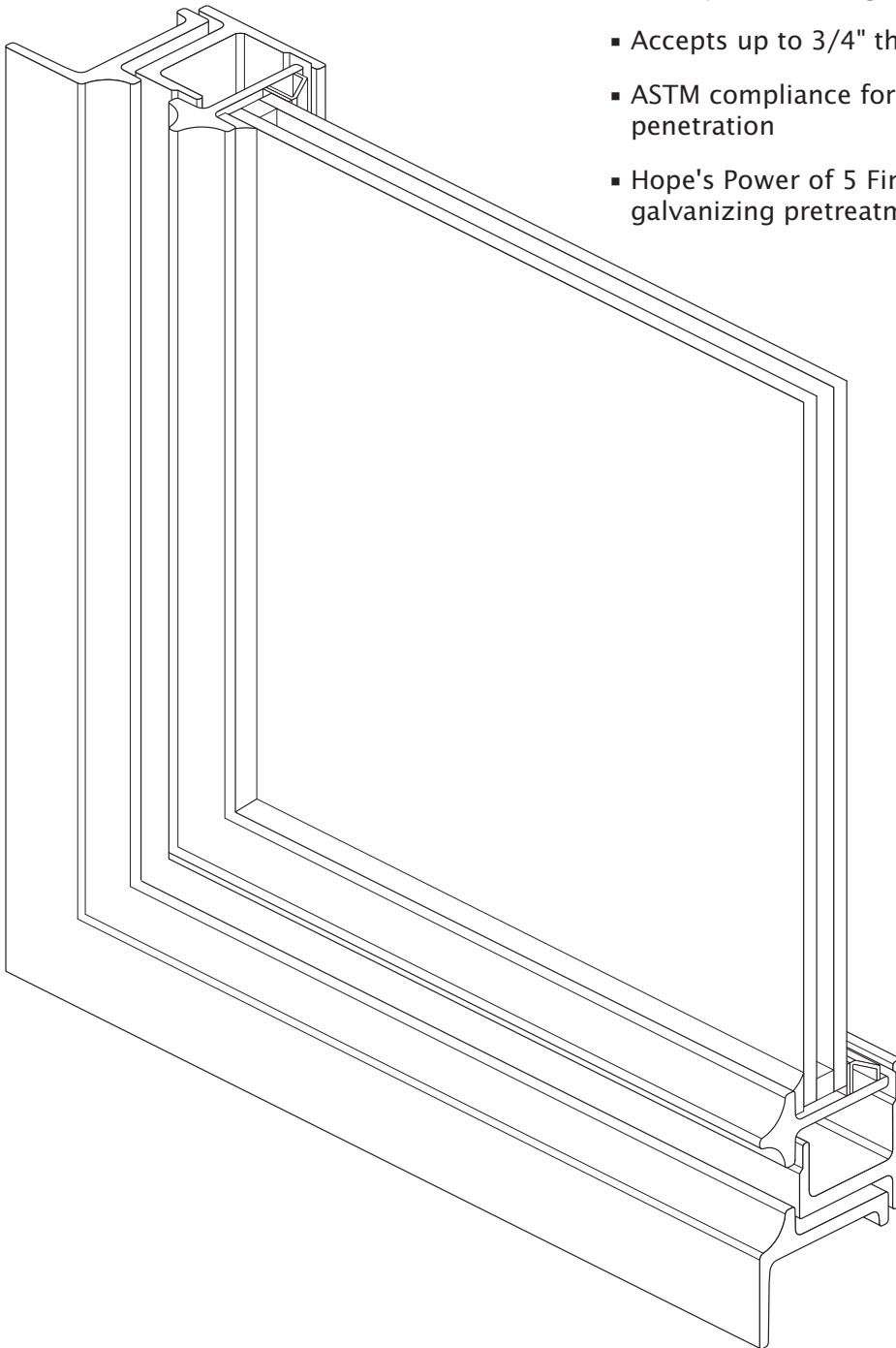
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

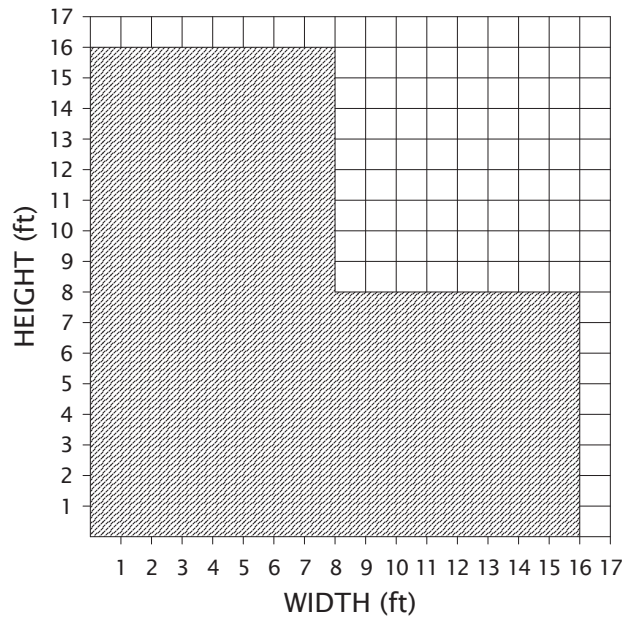
Hope's One55 Series hot-rolled steel window profiles are specifically designed for projects requiring steel windows with arrow shaped profiles. The fixed and operable configurations can be glazed with monolithic or insulated glass for energy efficiency. The unique window profiles and very narrow sightlines are ideal for new buildings as well as replacement projects.

PRODUCT FEATURES

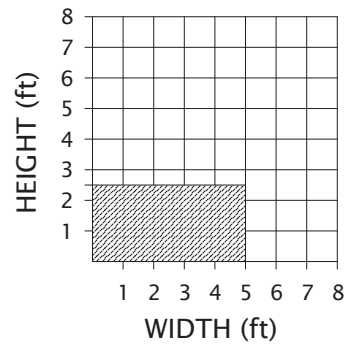
- Historically accurate sightlines and true divided lite or simulated divided lite muntins
- Unsurpassed strength of hot-rolled steel sections
- Accepts up to 3/4" thick insulating glass
- ASTM compliance for air infiltration and water penetration
- Hope's Power of 5 Finishing System with hot-dip galvanizing pretreatment



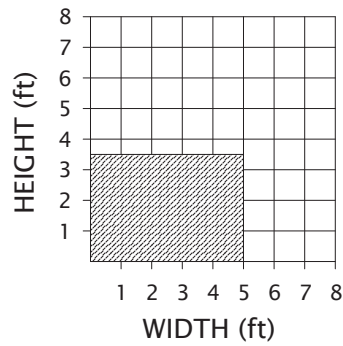
FIXED WINDOWS



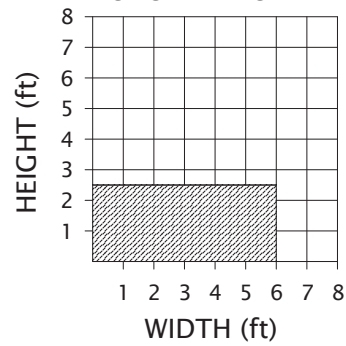
PROJECT-IN VENTILATORS



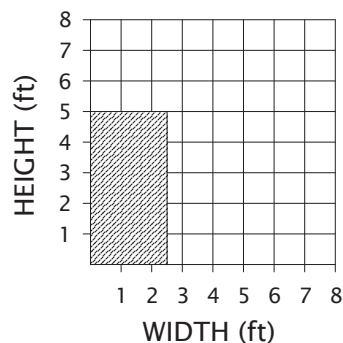
PROJECT-OUT VENTILATORS



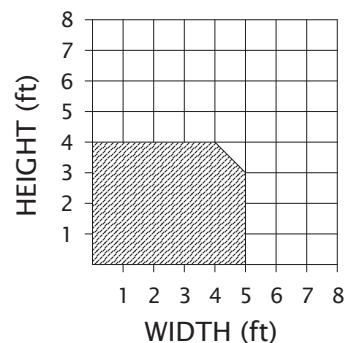
MOTORIZED OPERATOR



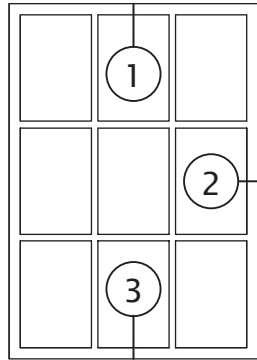
CASEMENT VENTILATORS



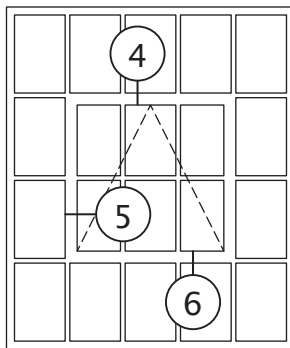
HORIZONTAL PIVOT VENTILATORS



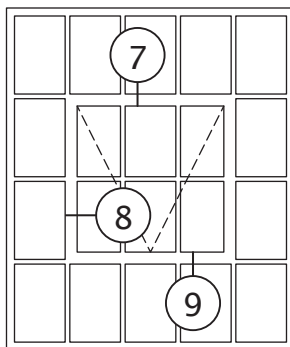
Sizes based on 5/8" insulating glass with 1/8" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



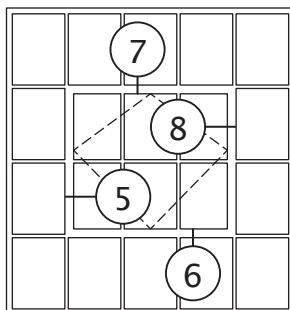
Fixed Window



Awning Window



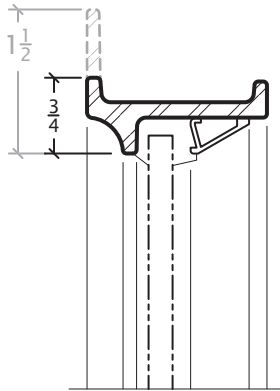
Hopper Window



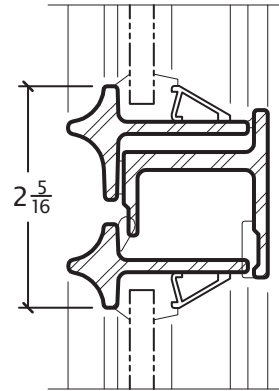
Horizontally Pivoted Window

TYPICAL HEAD DETAILS

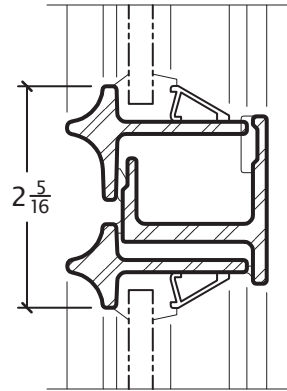
1 FIXED



4 SWING-OUT

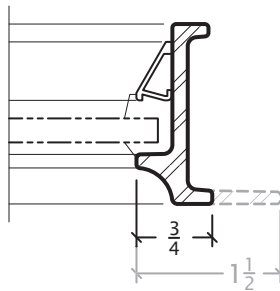


7 SWING-IN

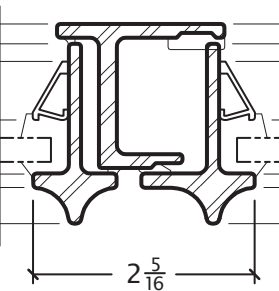


TYPICAL JAMB DETAILS

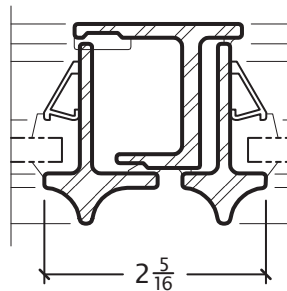
2 FIXED



5 SWING-OUT

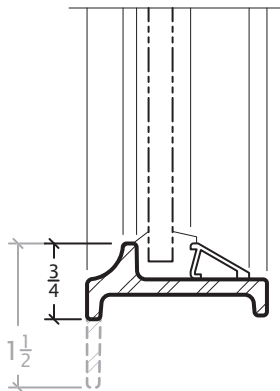


8 SWING-IN

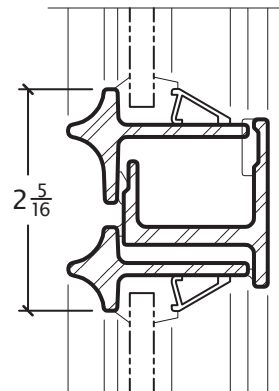


TYPICAL SILL DETAILS

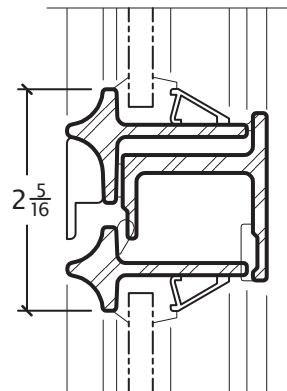
3 FIXED



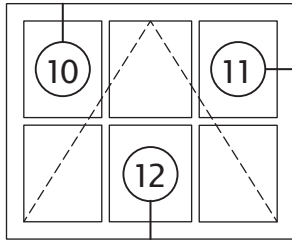
6 SWING-OUT



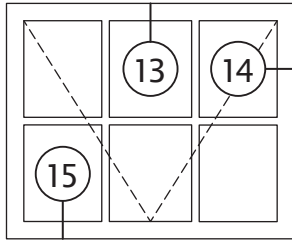
9 SWING-IN



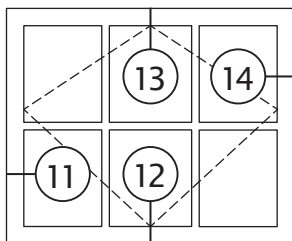
Details are half scale and shown with 1/4" thick glass. See page 6 for additional glass thickness and glazing bead options.
Perimeter frame profiles are available in long leg or equal leg configurations.
All Hope's products are custom manufactured to your specific project requirements.



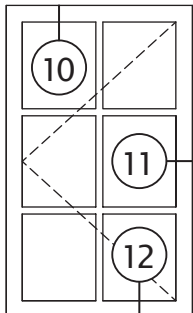
Awning Window



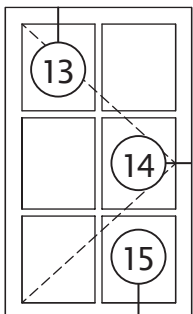
Hopper Window



Horizontally Pivoted Window



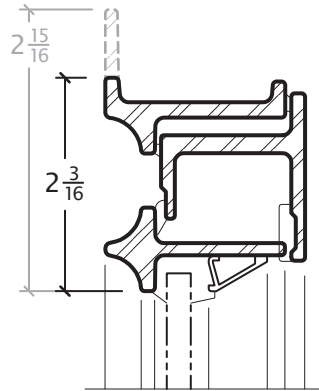
Swing-Out Casement Window



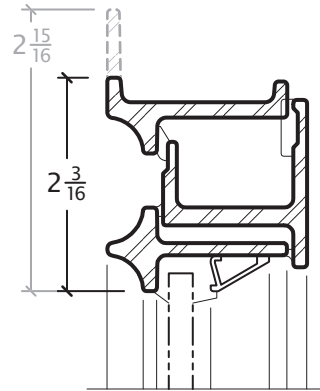
Swing-In Casement Window

TYPICAL HEAD DETAILS

10 SWING-OUT

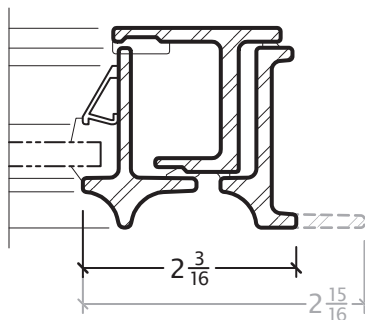


13 SWING-IN

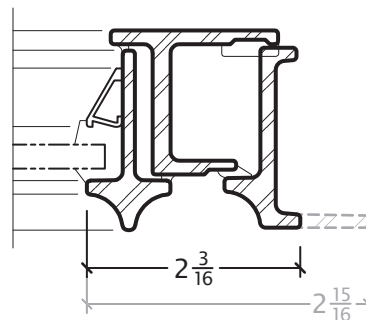


TYPICAL JAMB DETAILS

11 SWING-OUT

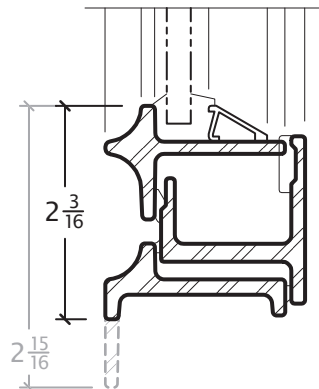


14 SWING-IN

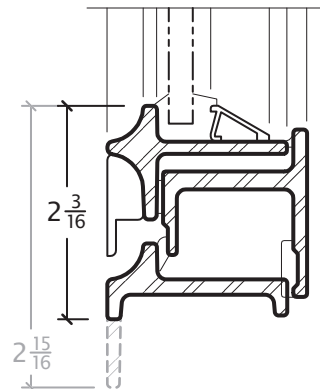


TYPICAL SILL DETAILS

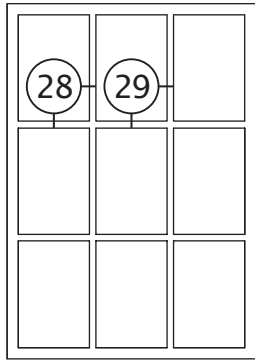
12 SWING-OUT



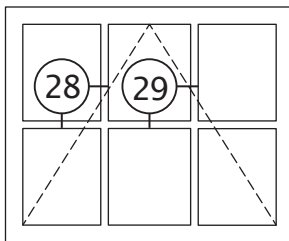
15 SWING-IN



Details are half scale and shown with 1/4" thick glass. See page 6 for additional glass thickness and glazing bead options.
Perimeter frame profiles are available in long leg or equal leg configurations.
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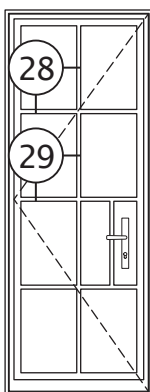
Fixed Window



Operable Window

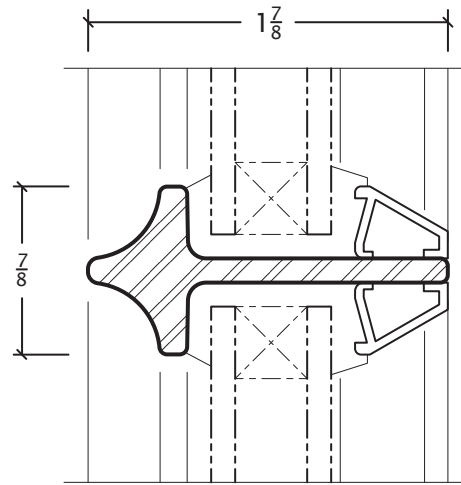


Swing Door

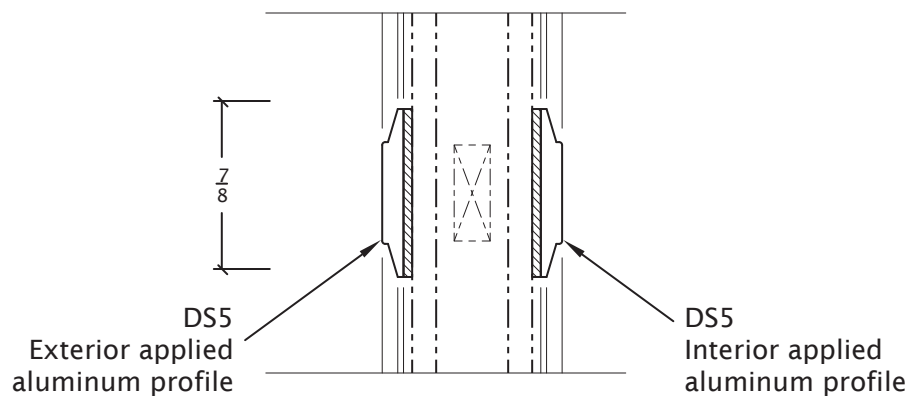
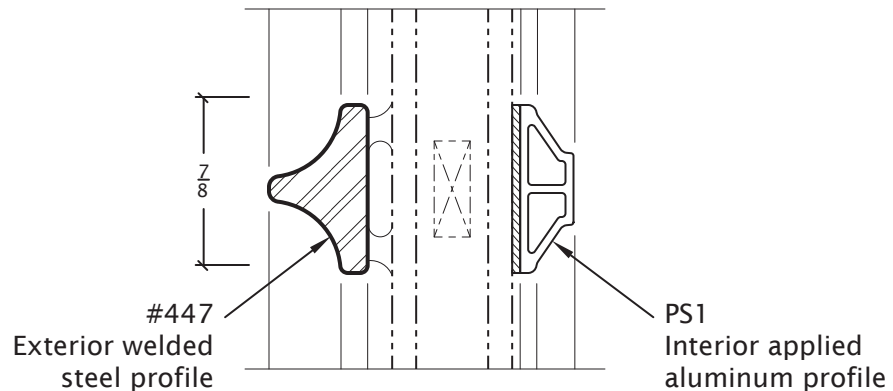


Custom Formed Swing Door

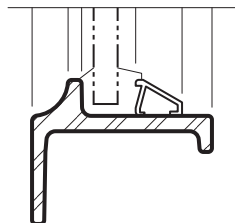
28 TRUE DIVIDED LITE MUNTIN PROFILES



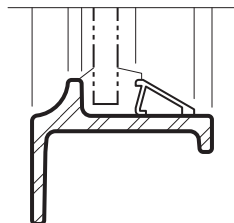
29 SIMULATED DIVIDED LITE MUNTIN PROFILES



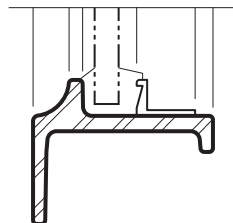
Details are full scale. Consult *Muntins, Mullions, Stacks & Deflection Channels* section of Hope's Architectural Binder for additional profile options. All Hope's products are custom manufactured to your specific project requirements.



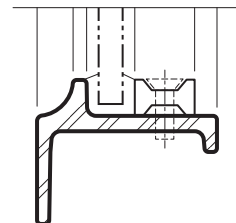
1/4" GLASS
#283 BEAD



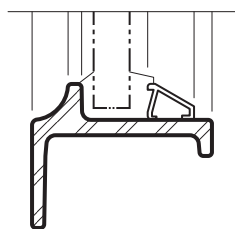
1/4" GLASS
#285 BEAD



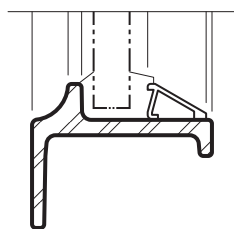
1/4" GLASS
#286 BEAD



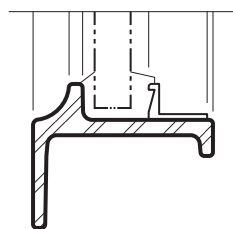
1/4" GLASS
#287 BEAD



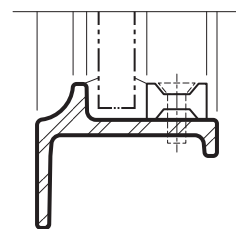
3/8" GLASS
#283 BEAD



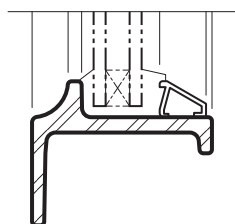
3/8" GLASS
#285 BEAD



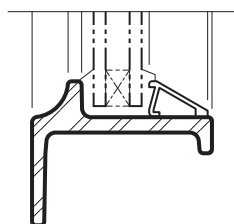
3/8" GLASS
#286 BEAD



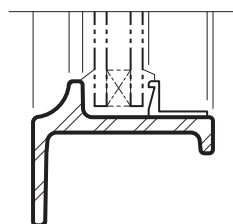
3/8" GLASS
#287 BEAD



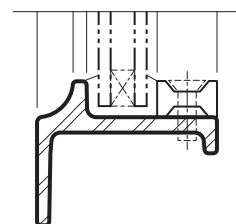
1/2" GLASS
#283 BEAD



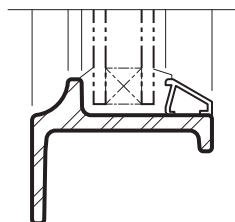
1/2" GLASS
#285 BEAD



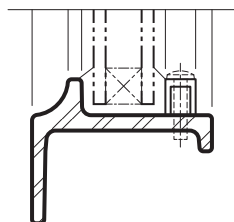
1/2" GLASS
#286 BEAD



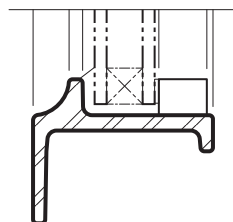
1/2" GLASS
#287 BEAD



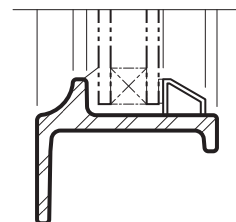
5/8" GLASS
#283 BEAD



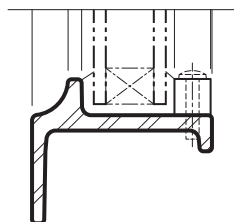
5/8" GLASS
#50 BEAD



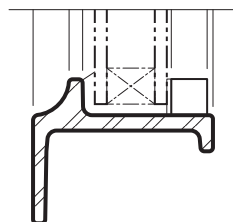
5/8" GLASS
SQUARE BEAD



5/8" GLASS
SLOPED BEAD



3/4" GLASS
SQUARE BEAD



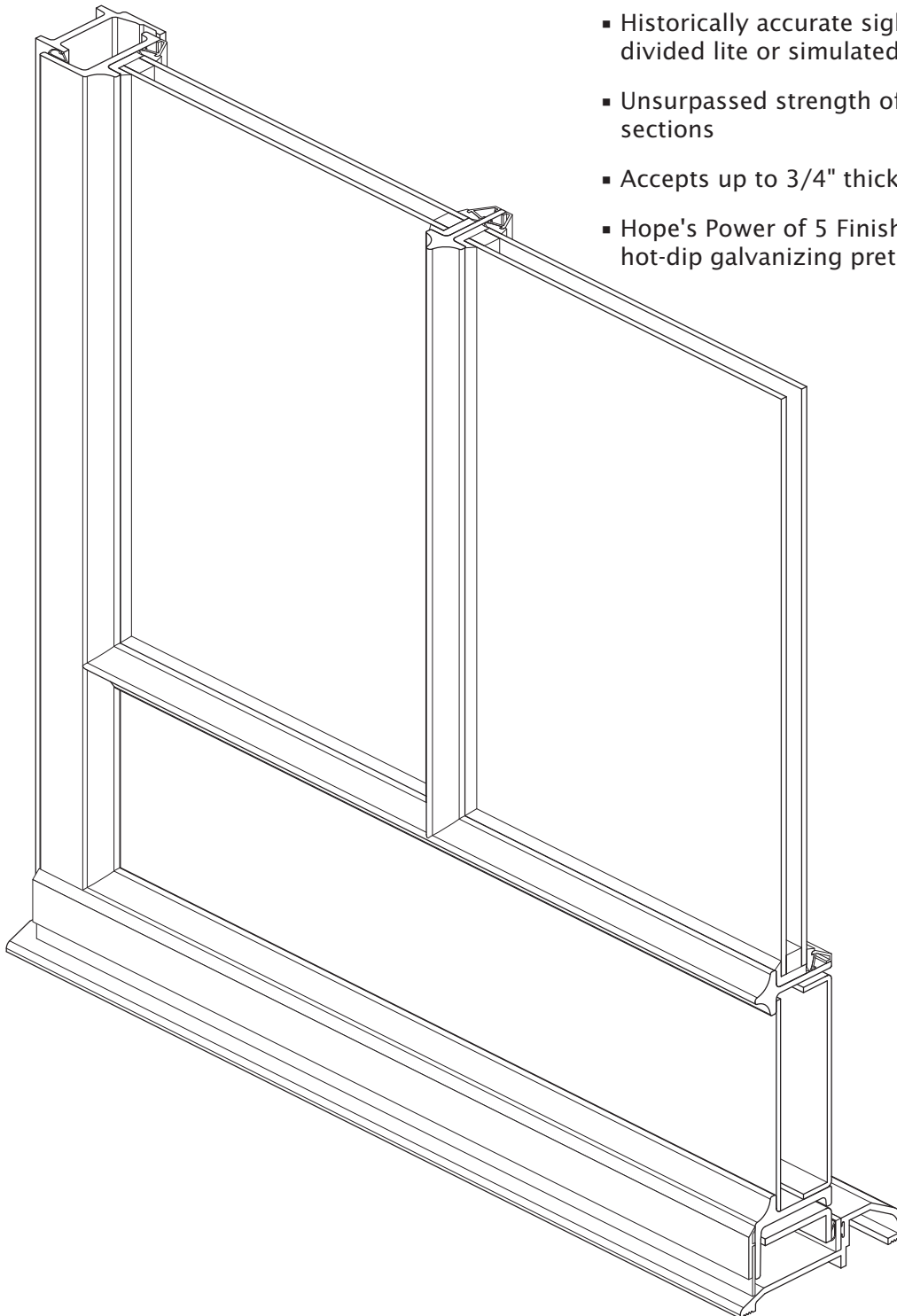
3/4" GLASS
SQUARE BEAD

Details are half scale and shown inside glazed.

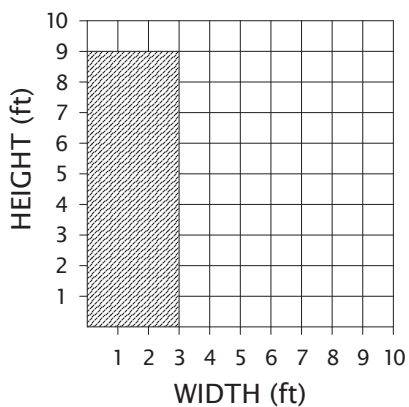
Hope's One55 Series hot-rolled steel door profiles are specifically designed for projects requiring steel doors with arrow shaped profiles. Swing door configurations include solid hot-rolled steel construction or custom formed steel framing with One55 Series hot-rolled steel profile inserts. Swing doors can be glazed with monolithic or insulated glass for energy efficiency. The unique door profiles and very narrow sightlines are ideal for new buildings as well as replacement projects.

PRODUCT FEATURES

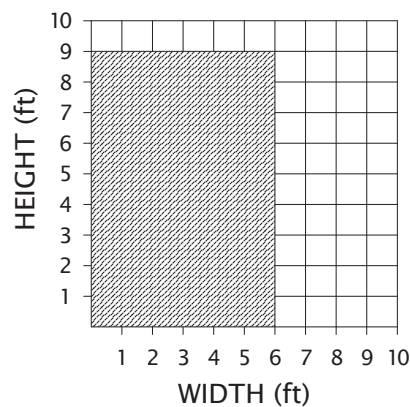
- Historically accurate sightlines and true divided lite or simulated divided lite muntins
- Unsurpassed strength of hot-rolled steel sections
- Accepts up to 3/4" thick insulating glass
- Hope's Power of 5 Finishing System with hot-dip galvanizing pretreatment



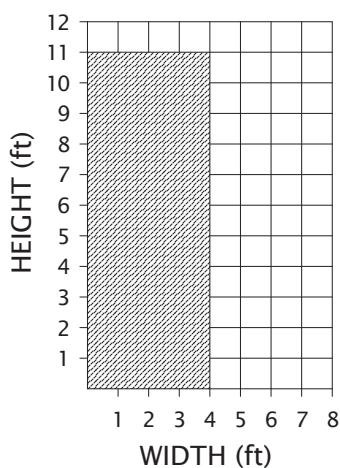
SINGLE DOOR



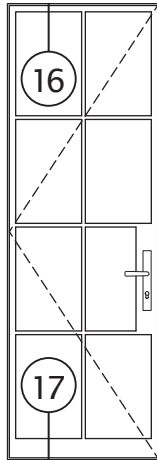
DOUBLE DOORS



CUSTOM FORMED STEEL DOOR with HOT-ROLLED STEEL PROFILE INSERT

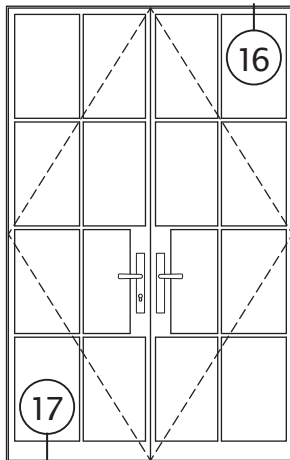
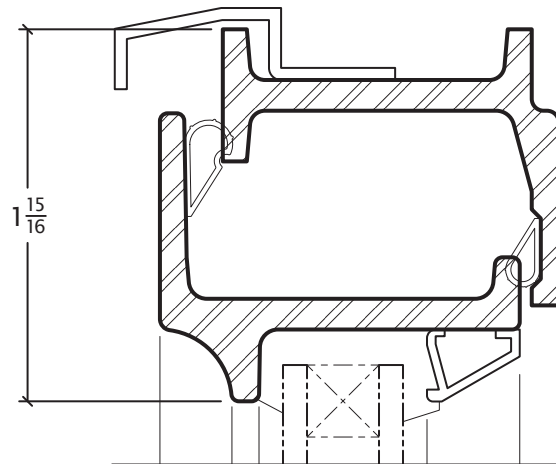


Single and double hot-rolled steel door sizes based on 5/8" insulating glass with 1/8" panes.
Custom formed steel door with hot-rolled steel profile insert size based on 1" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



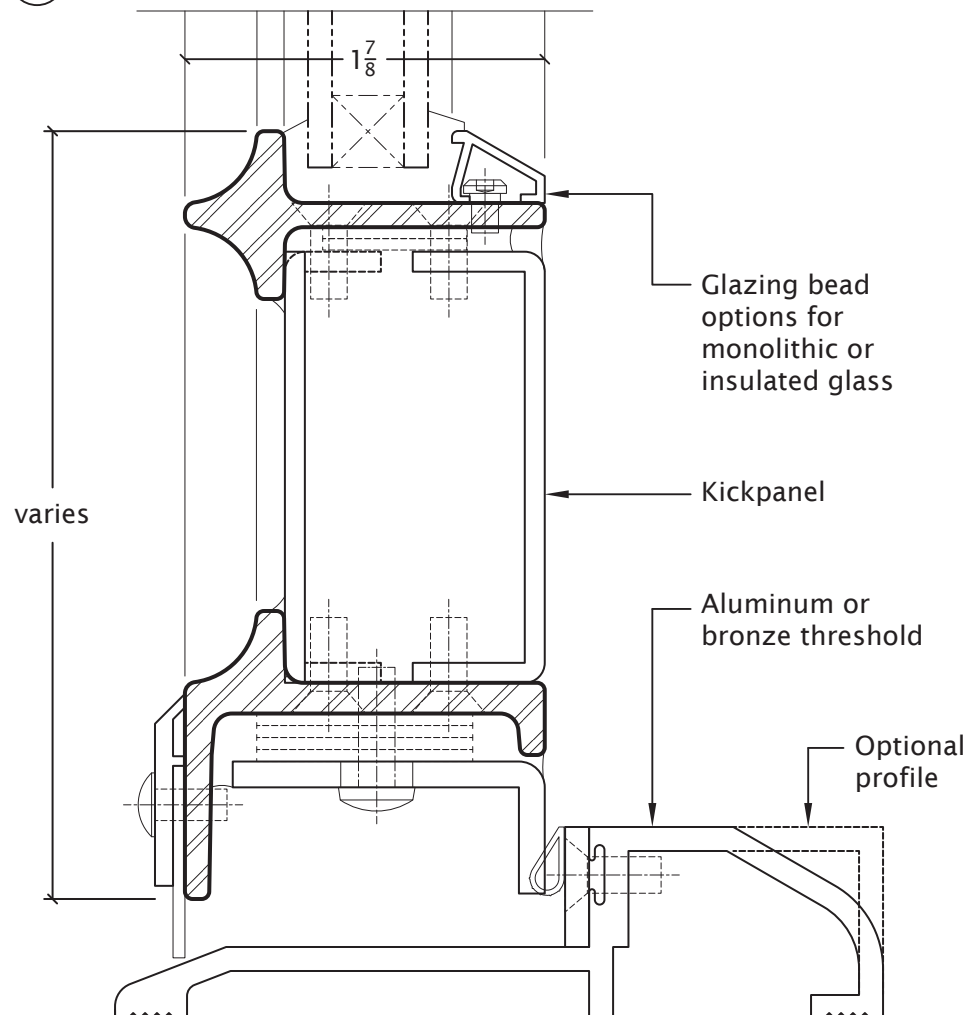
Swing Door

16 HEAD

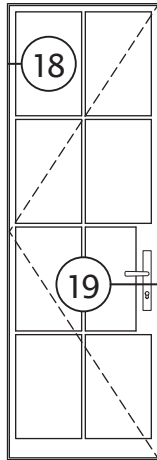


Double Swing Doors

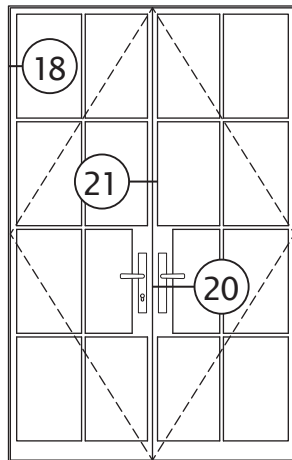
17 THRESHOLD



Details are full scale and shown with 5/8" thick glass. See page 15 for additional glass thickness and glazing bead options.
All Hope's products are custom manufactured to your specific project requirements.

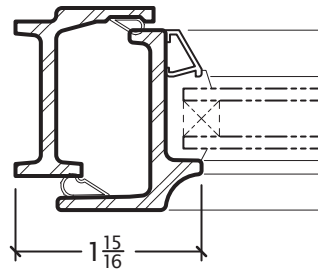


Swing Door

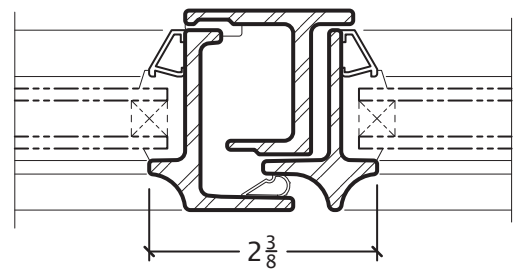


Double Swing Doors

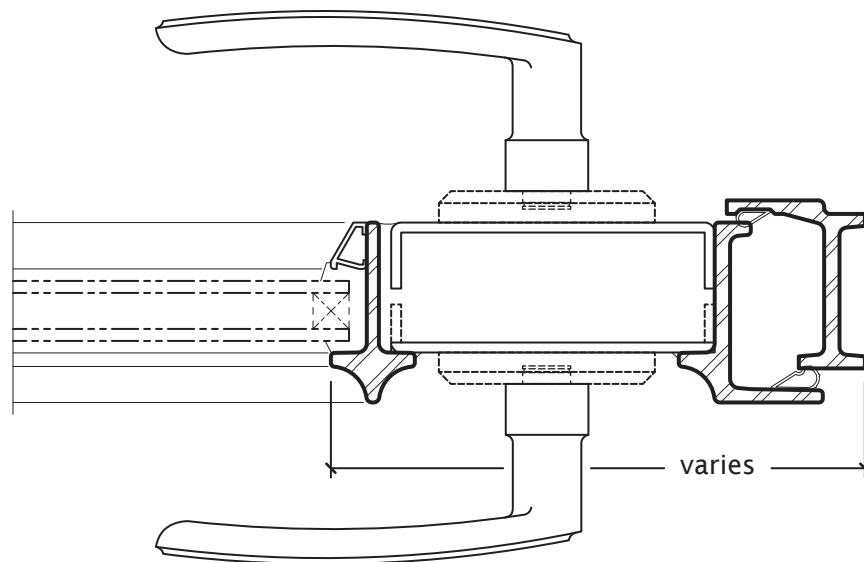
18 JAMB



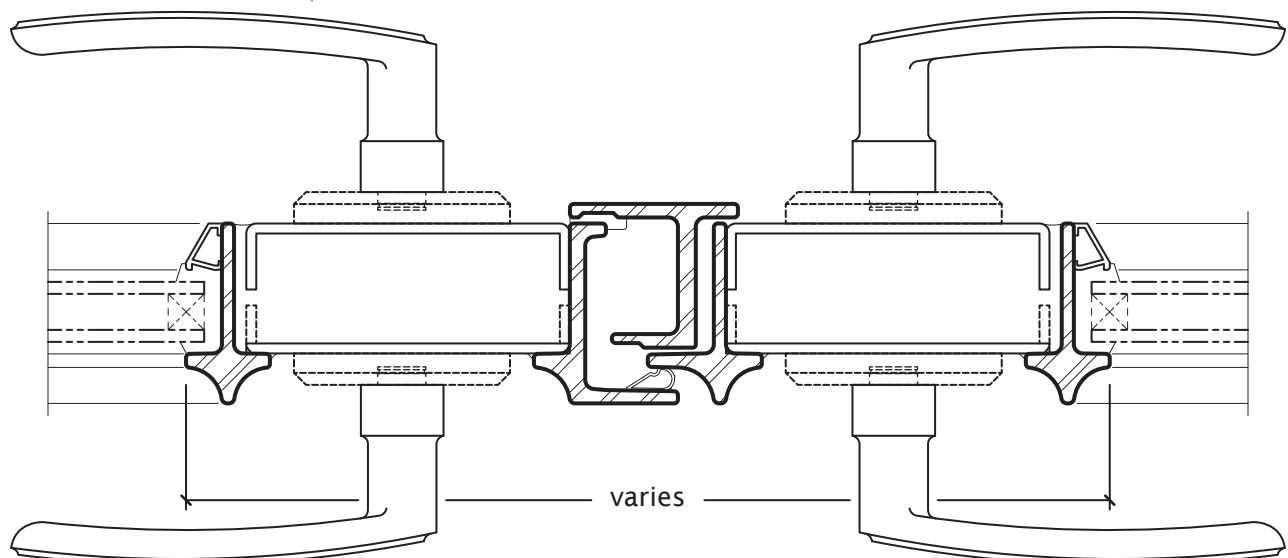
21 DOUBLE FOLDING MEETING RAIL



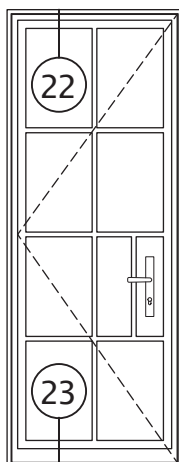
19 LOCKBOX AT JAMB



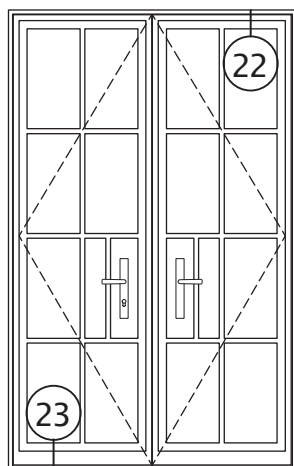
20 LOCKBOX AT DOUBLE FOLDING MEETING RAIL



Details are half scale and shown with 5/8" thick glass. See page 15 for additional glass thickness and glazing bead options.
All Hope's products are custom manufactured to your specific project requirements.

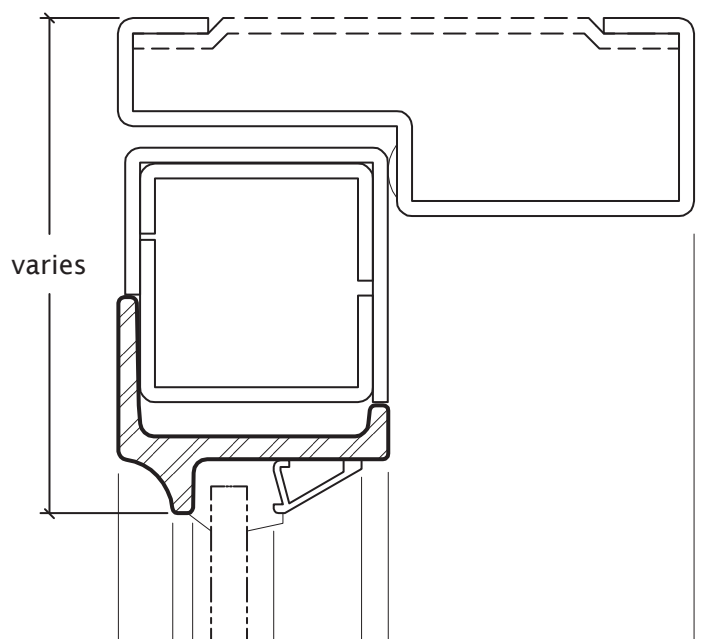


Custom Formed Swing Door

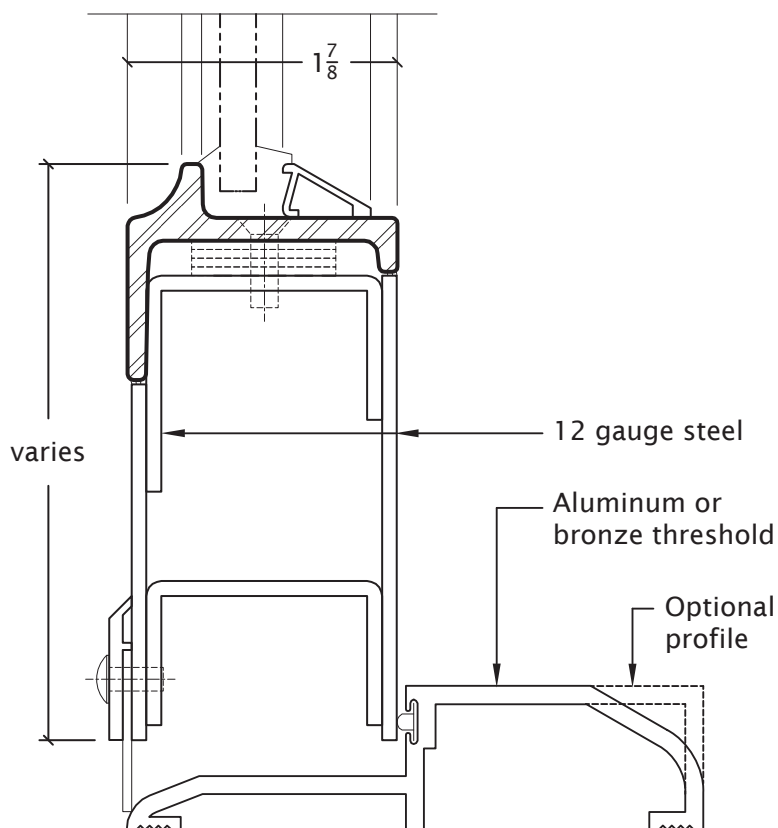


Custom Formed
Double Swing Doors

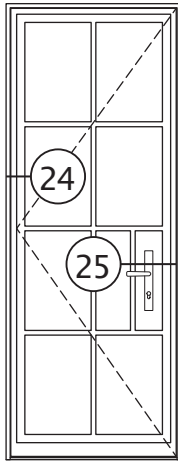
22 HEAD



23 THRESHOLD

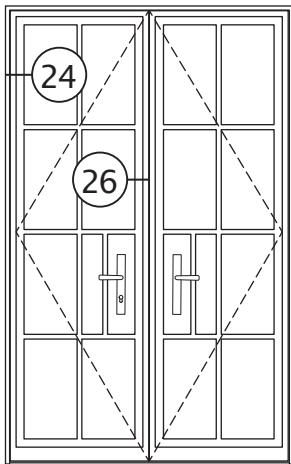
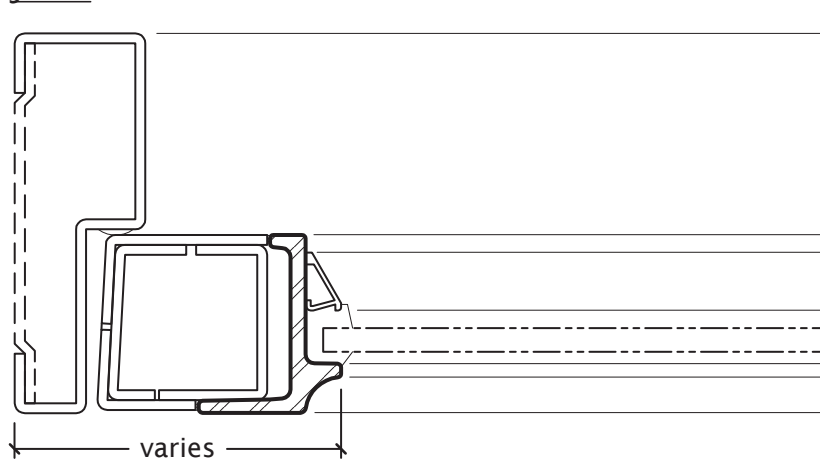


Details are 3/4 scale and shown with 1/4" thick glass. See page 15 for additional glass thickness and glazing bead options.
All Hope's products are custom manufactured to your specific project requirements.



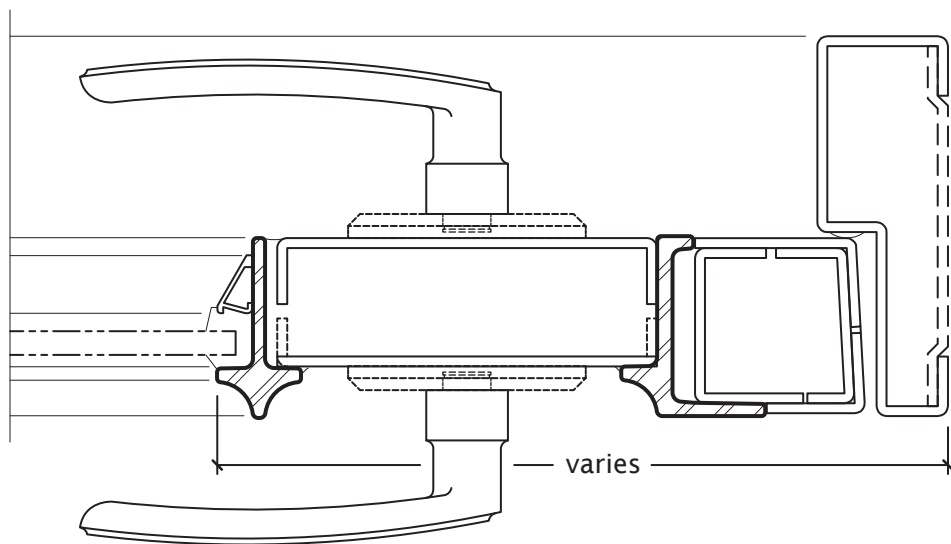
Custom Formed Swing Door

24 JAMB

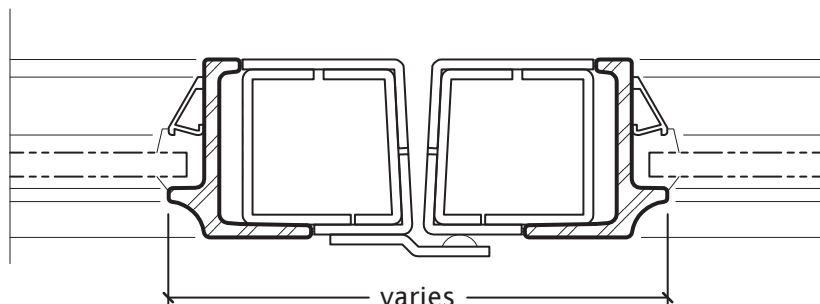


Custom Formed
Double Swing Doors

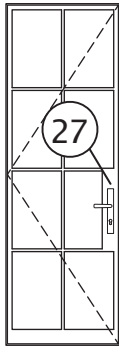
25 LOCKBOX AT JAMB



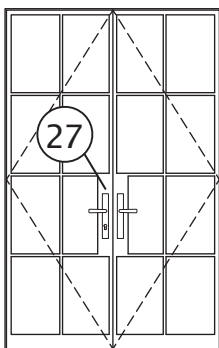
26 DOUBLE FOLDING MEETING RAIL



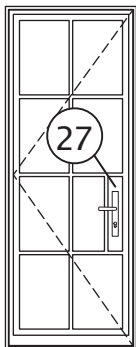
Details are half scale and shown with 1/4" thick glass. See page 15 for additional glass thickness and glazing bead options.
All Hope's products are custom manufactured to your specific project requirements.



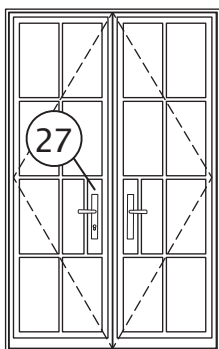
Swing Door



Double Swing Doors

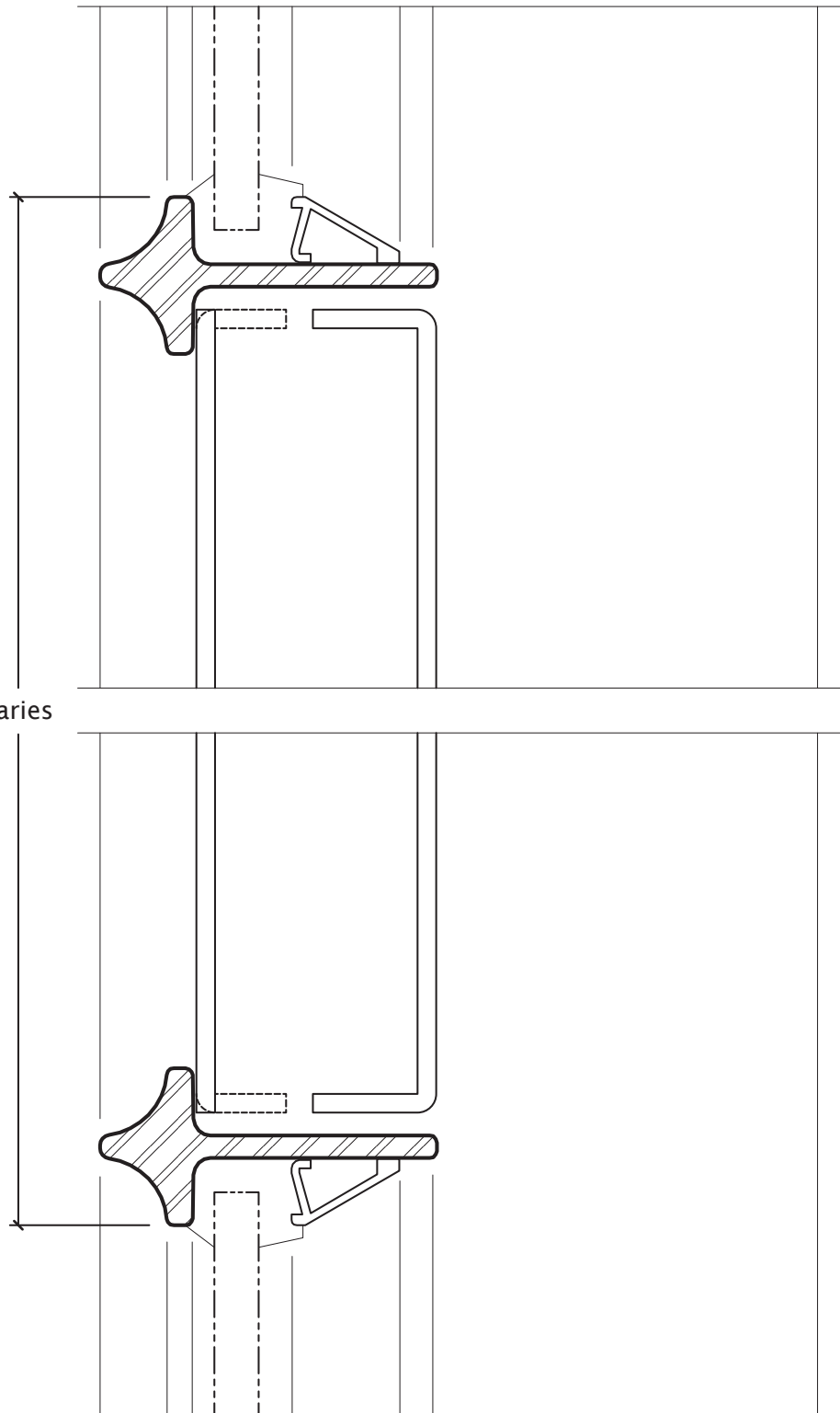


Custom Formed Swing Door

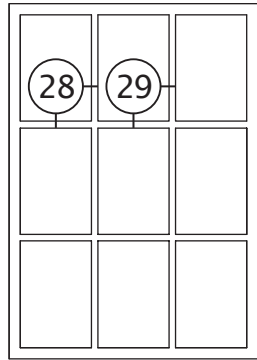


Custom Formed
Double Swing Doors

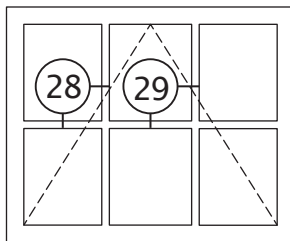
27 LOCKBOX



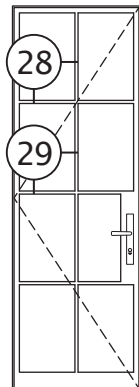
Details are full scale and shown with 1/4" thick glass. See page 15 for additional glass thickness and glazing bead options.
All Hope's products are custom manufactured to your specific project requirements.



Fixed Window



Operable Window

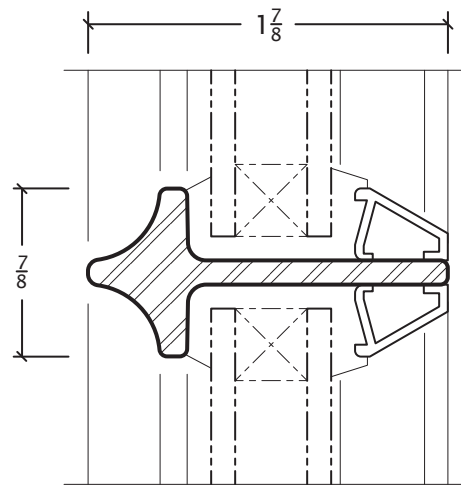


Swing Door

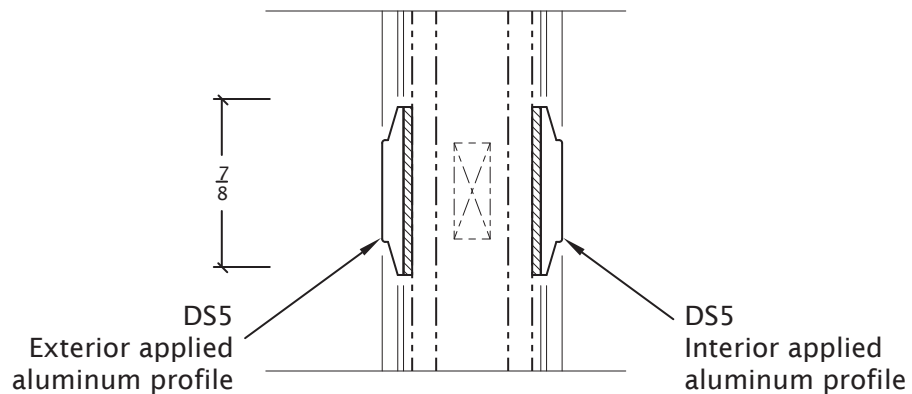
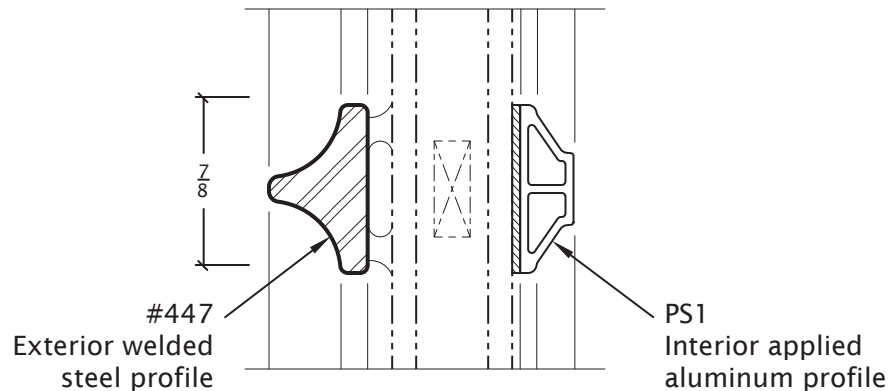


Custom Formed Swing Door

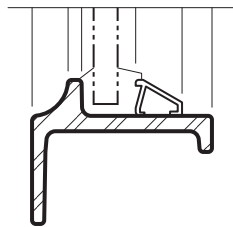
28 TRUE DIVIDED LITE MUNTIN PROFILES



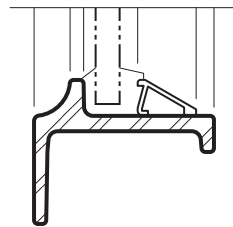
29 SIMULATED DIVIDED LITE MUNTIN PROFILES



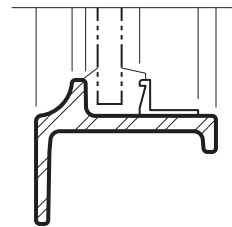
Details are full scale. Consult *Muntins, Mullions, Stacks & Deflection Channels* section of Hope's Architectural Binder for additional profile options. All Hope's products are custom manufactured to your specific project requirements.



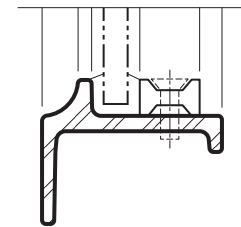
1/4" GLASS
#283 BEAD



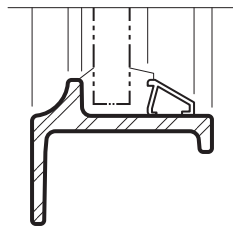
1/4" GLASS
#285 BEAD



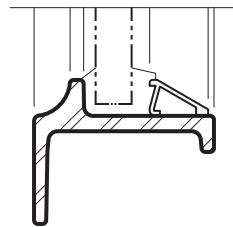
1/4" GLASS
#286 BEAD



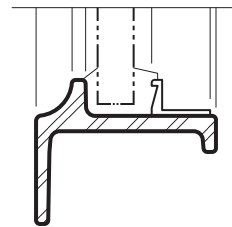
1/4" GLASS
#287 BEAD



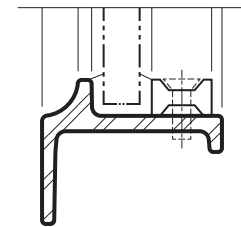
3/8" GLASS
#283 BEAD



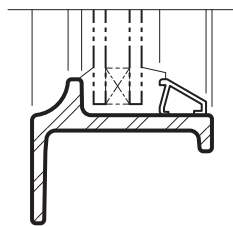
3/8" GLASS
#285 BEAD



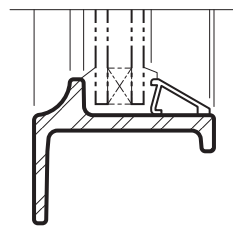
3/8" GLASS
#286 BEAD



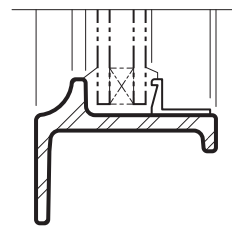
3/8" GLASS
#287 BEAD



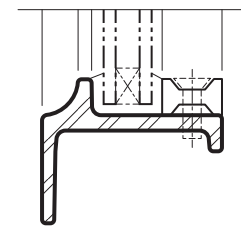
1/2" GLASS
#283 BEAD



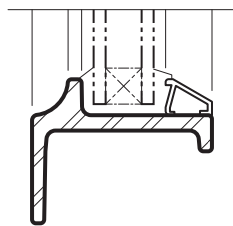
1/2" GLASS
#285 BEAD



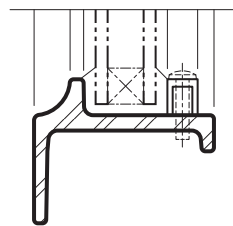
1/2" GLASS
#286 BEAD



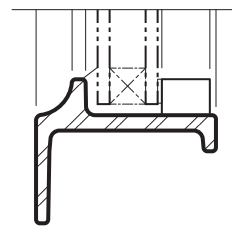
1/2" GLASS
#287 BEAD



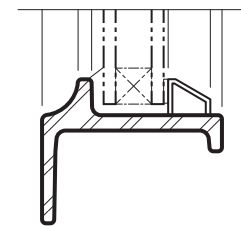
5/8" GLASS
#283 BEAD



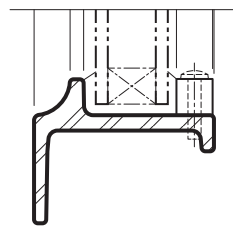
5/8" GLASS
#50 BEAD



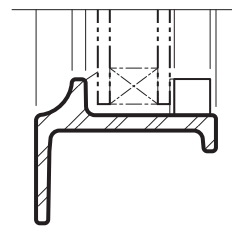
5/8" GLASS
SQUARE BEAD



5/8" GLASS
SLOPED BEAD



3/4" GLASS
SQUARE BEAD



3/4" GLASS
SQUARE BEAD

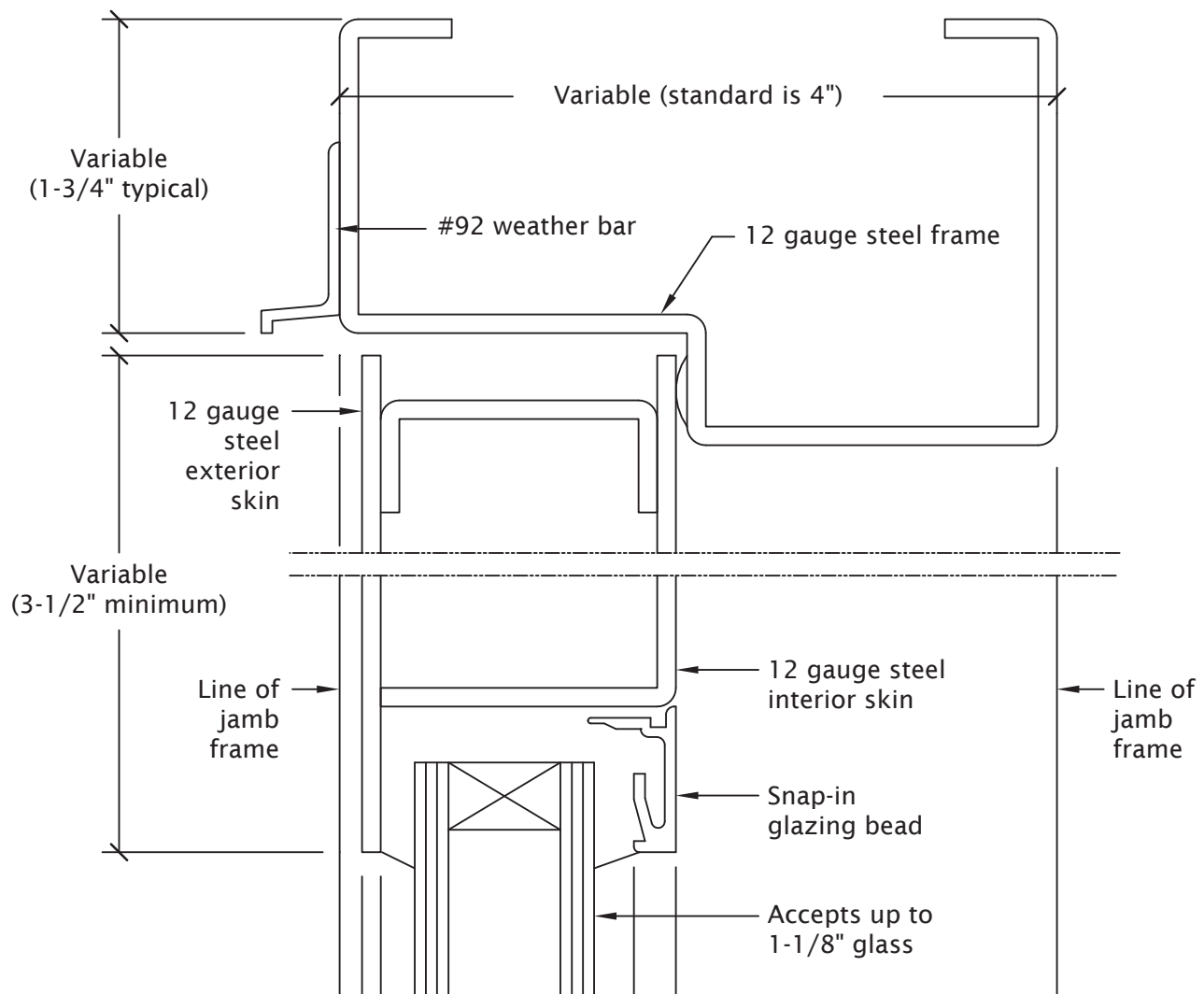
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

Hope's 5000 Series doors are manufactured from 12 gauge galvanized steel for high traffic and special applications. This product offers unlimited hardware options and can be manufactured in larger sizes than the Jamestown175™ Series hot-rolled steel doors. Solid Skin design (interior/exterior) offers unique opportunities to interchange various material types for custom applications.

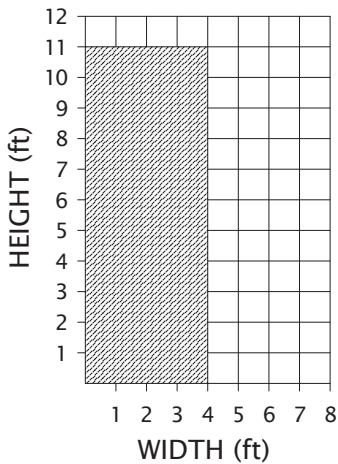
PRODUCT FEATURES

- Solid skin door design for uniform appearance, superior strength and water tightness
- Interior skin and exterior skin can be of different material (steel, bronze, stainless) for a unique appearance for custom applications (see detail 4 on page 6)
- Hope's traditional true divided lite muntins or simulated divided lite muntin grids are optional
- Accepts up to 1-1/8" thick insulating glass
- Flexibility to accept any hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



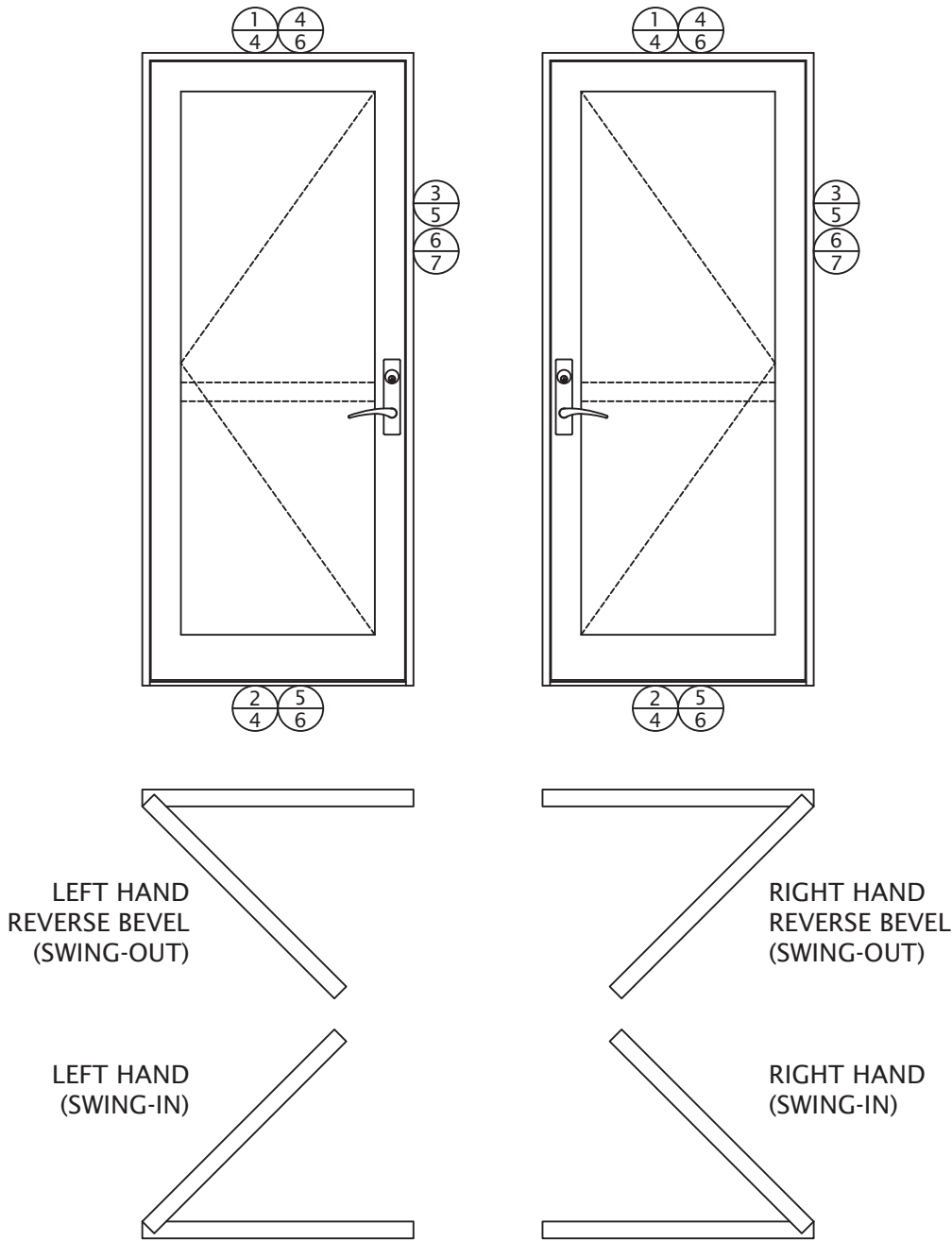
Details are full scale.

RECOMMENDED SIZES

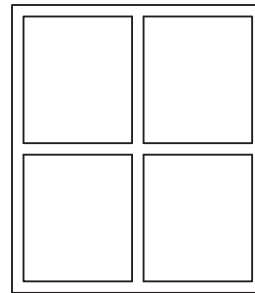
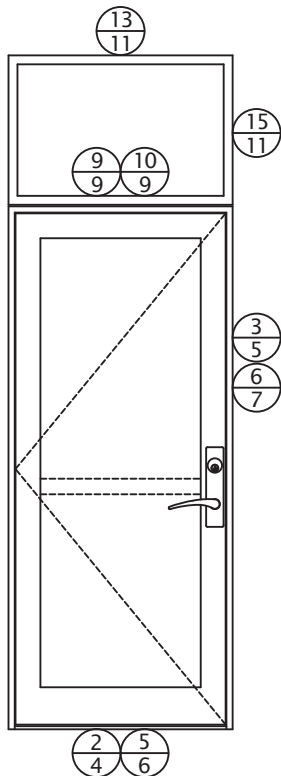
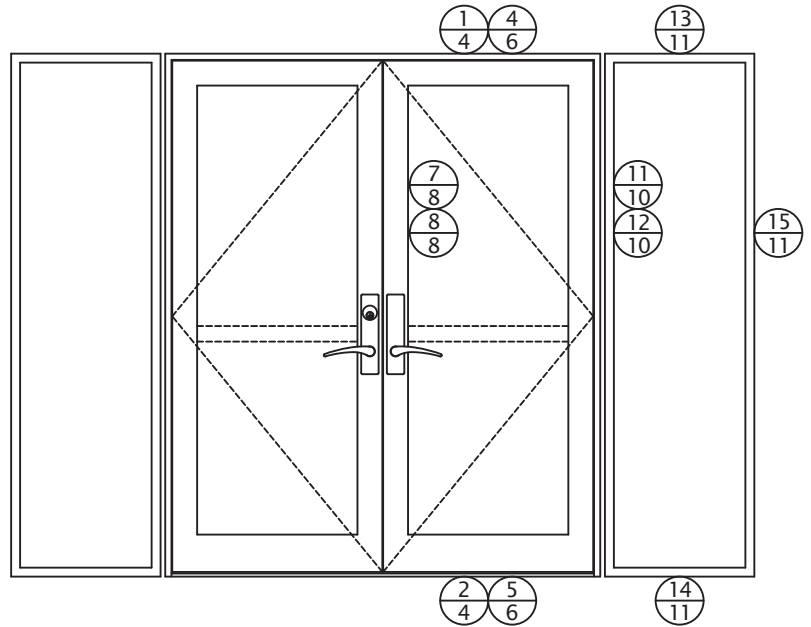
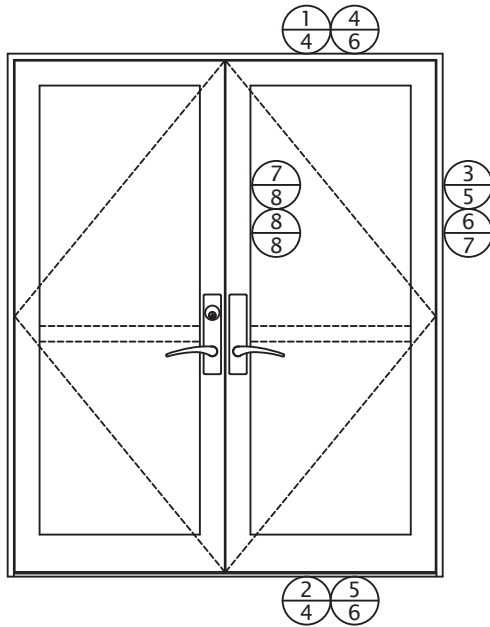


Size based on 1" insulating glass with 1/4" panes.

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

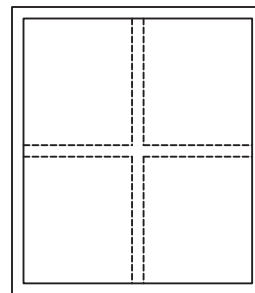


Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



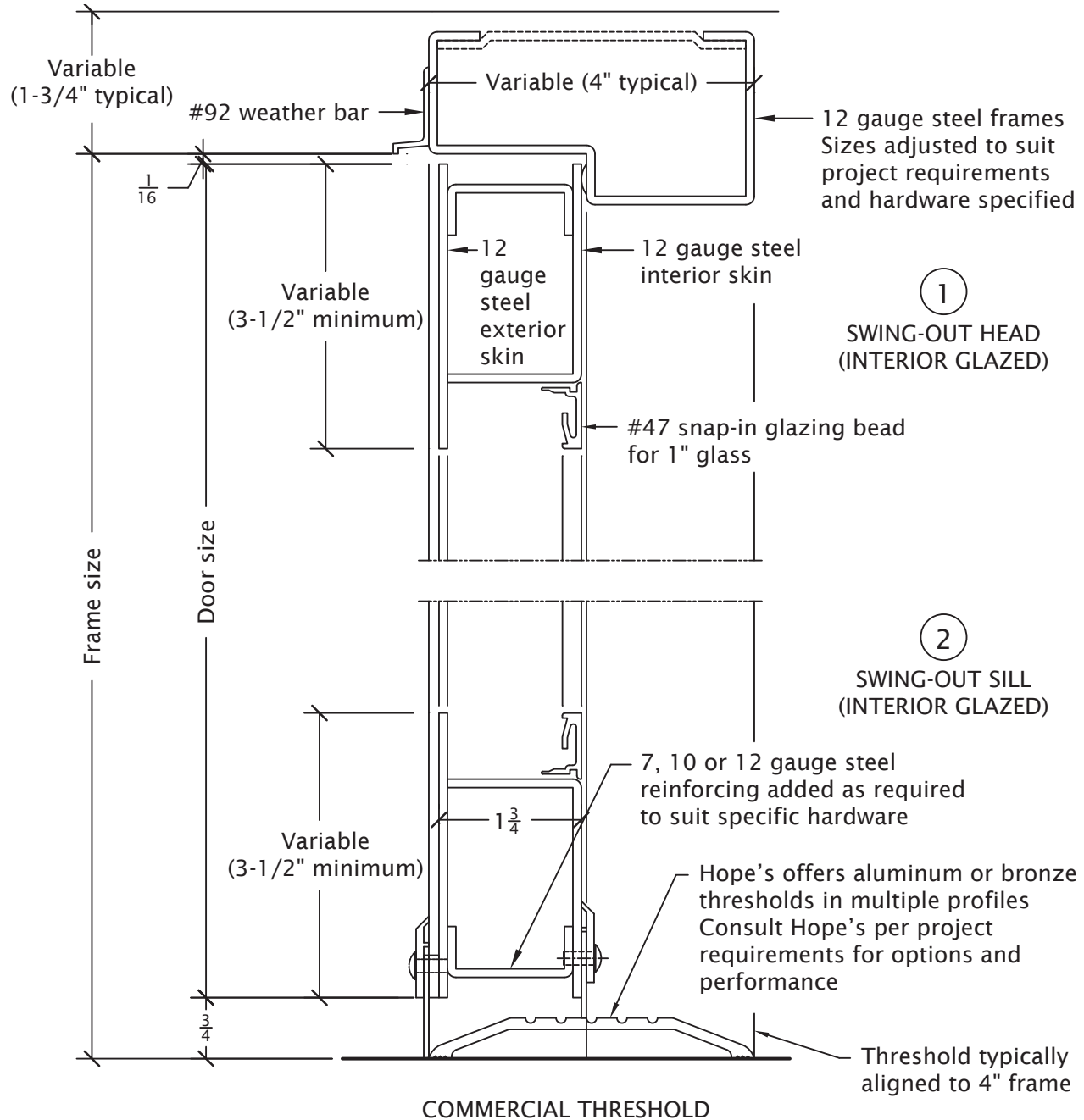
TRUE
DIVIDED LITES
(TDL)

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



SIMULATED
DIVIDED LITES
(SDL)
(MUNTIN GRIDS)

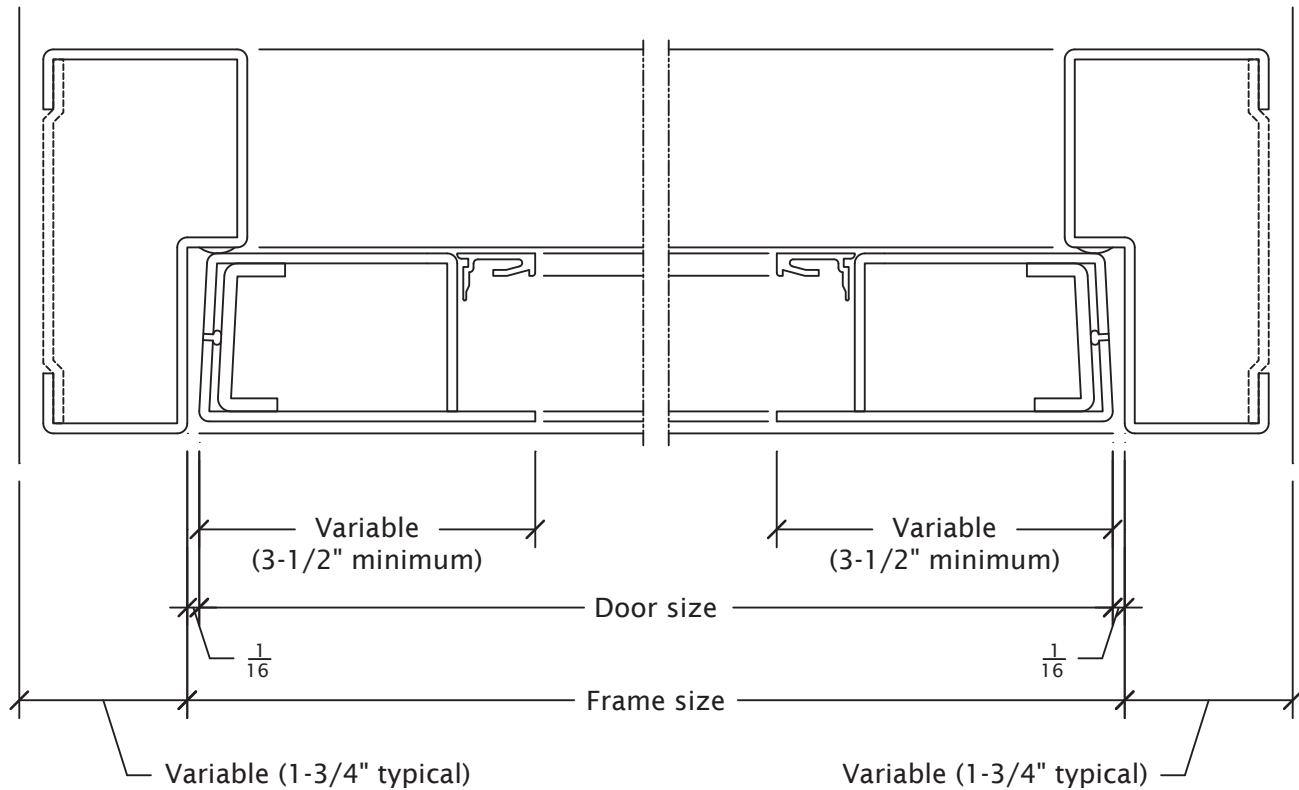
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



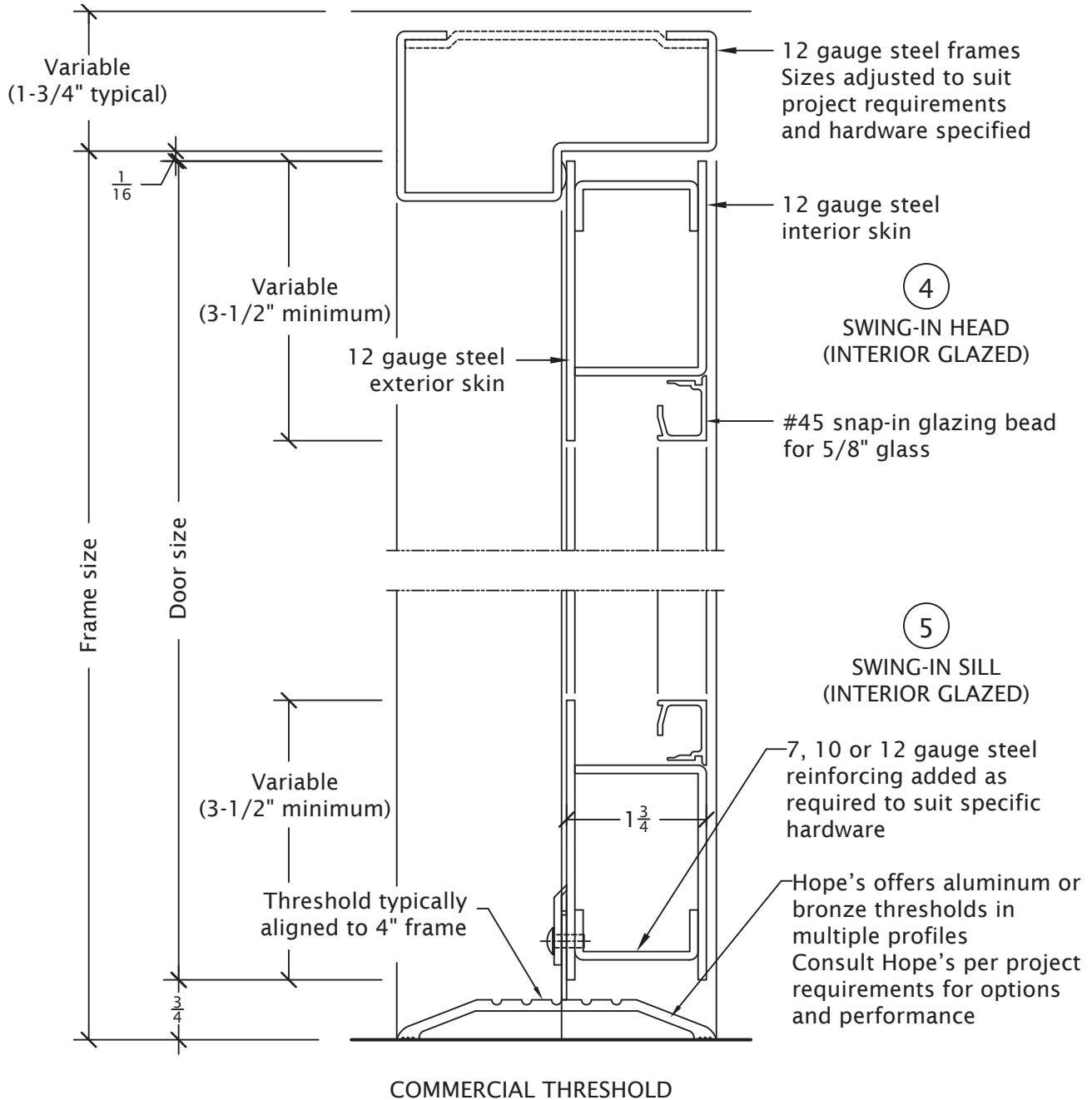
Details are half scale and shown inside glazed with 1" glass.
See page 12 for further glazing bead options.

3

SWING-OUT JAMB
(INTERIOR GLAZED)



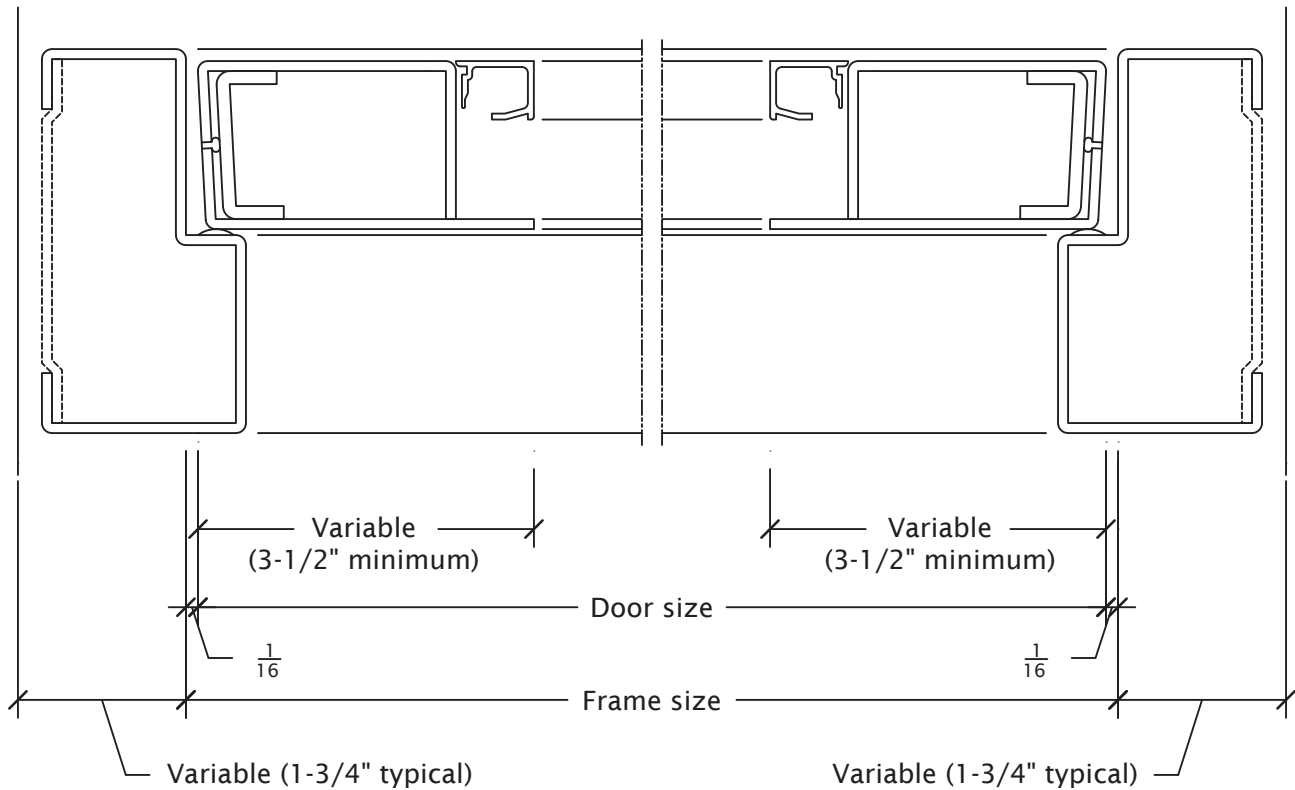
Details are half scale and shown inside glazed with 1" glass.
See page 12 for further glazing bead options.



Details are half scale and shown inside glazed with 5/8" glass.
See page 12 for further glazing bead options.

6

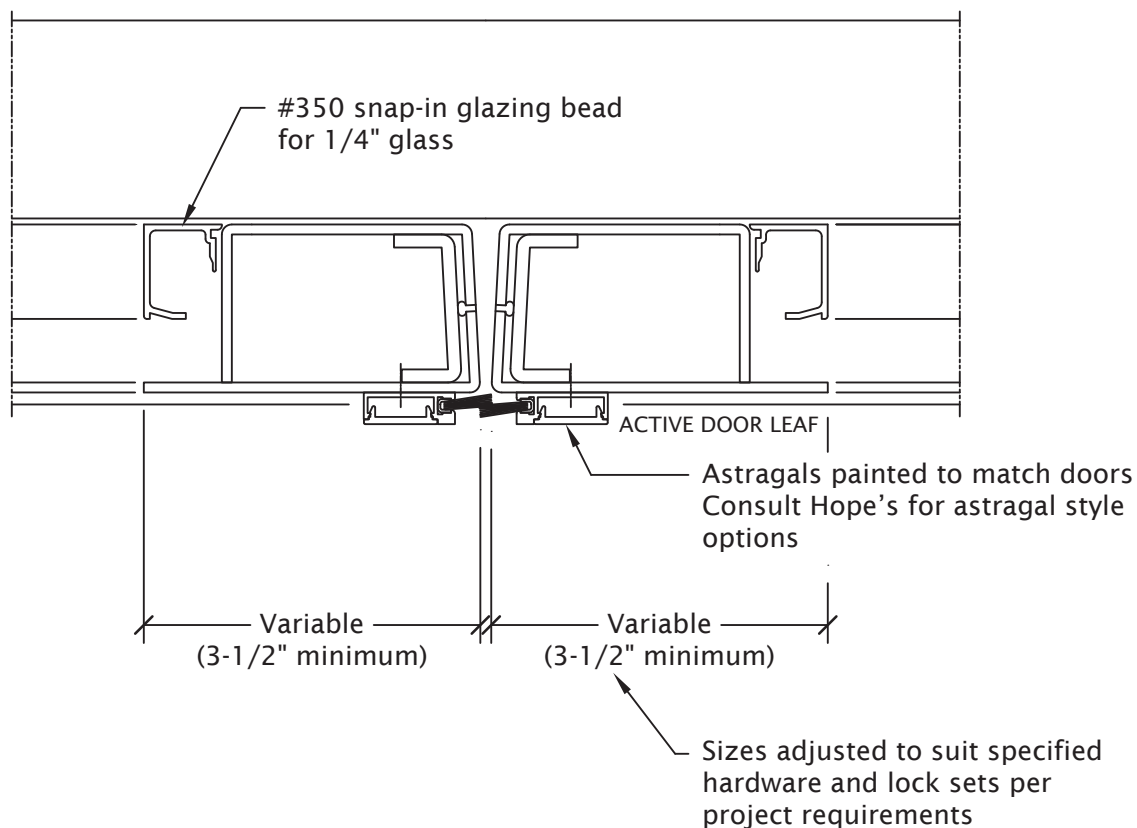
SWING-IN JAMB
(INTERIOR GLAZED)



Details are half scale and shown inside glazed with 5/8" glass.
See page 12 for further glazing bead options.

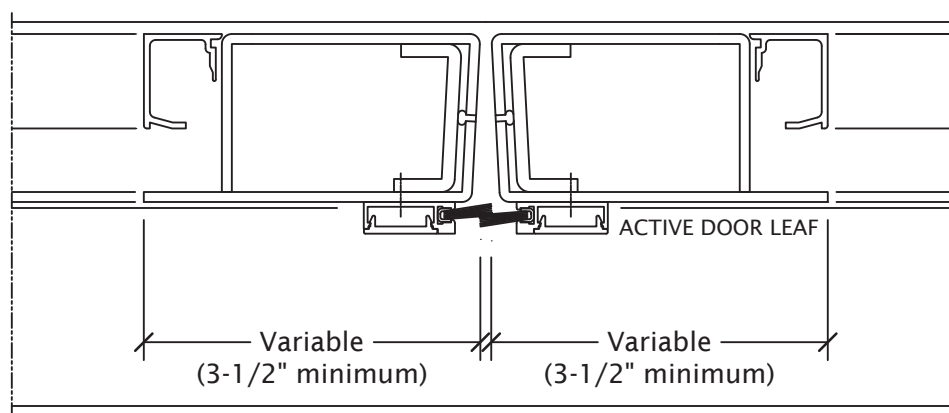
7

SWING-OUT DOUBLE DOORS (INTERIOR GLAZED)

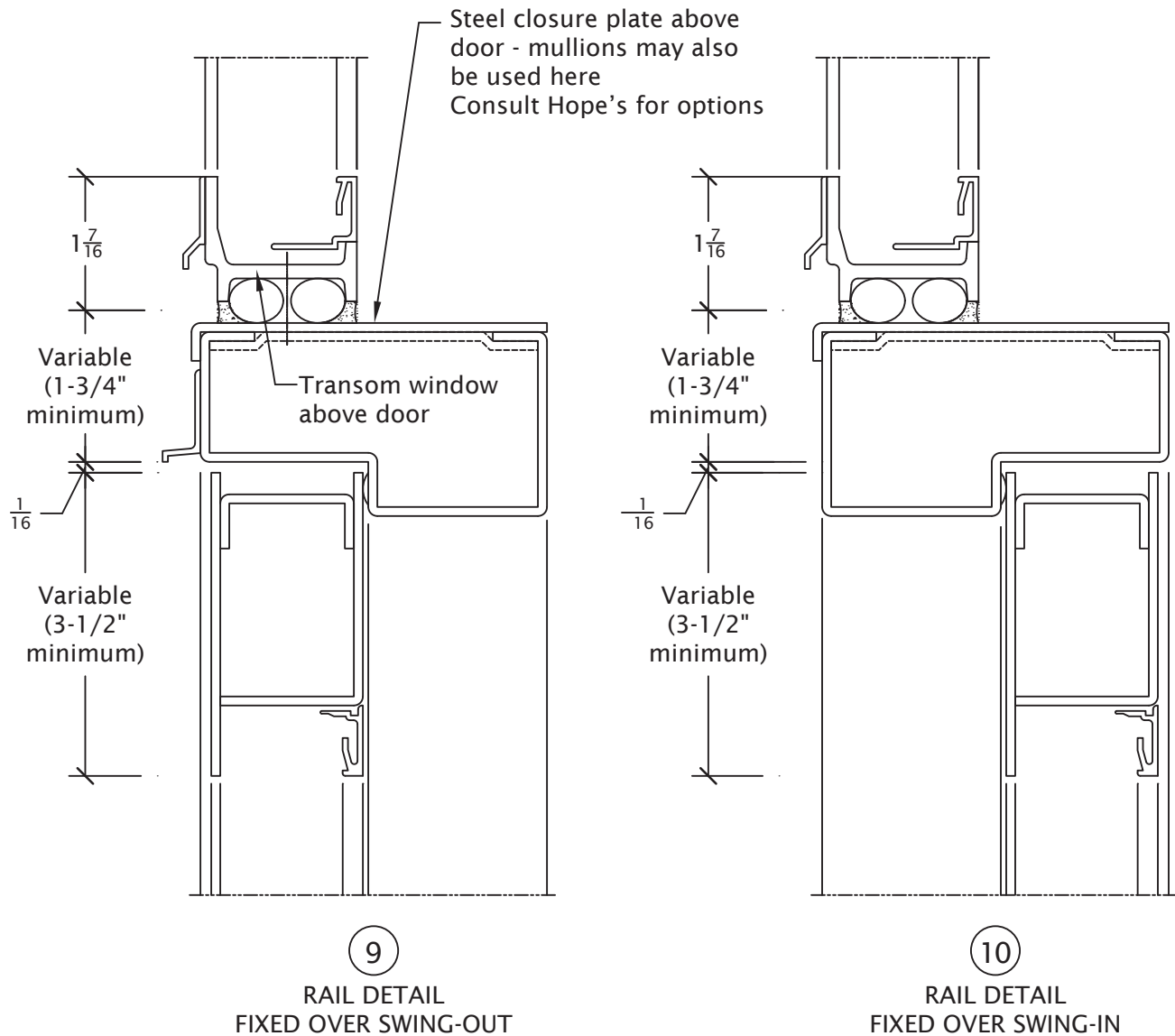


8

SWING-IN DOUBLE DOORS (INTERIOR GLAZED)



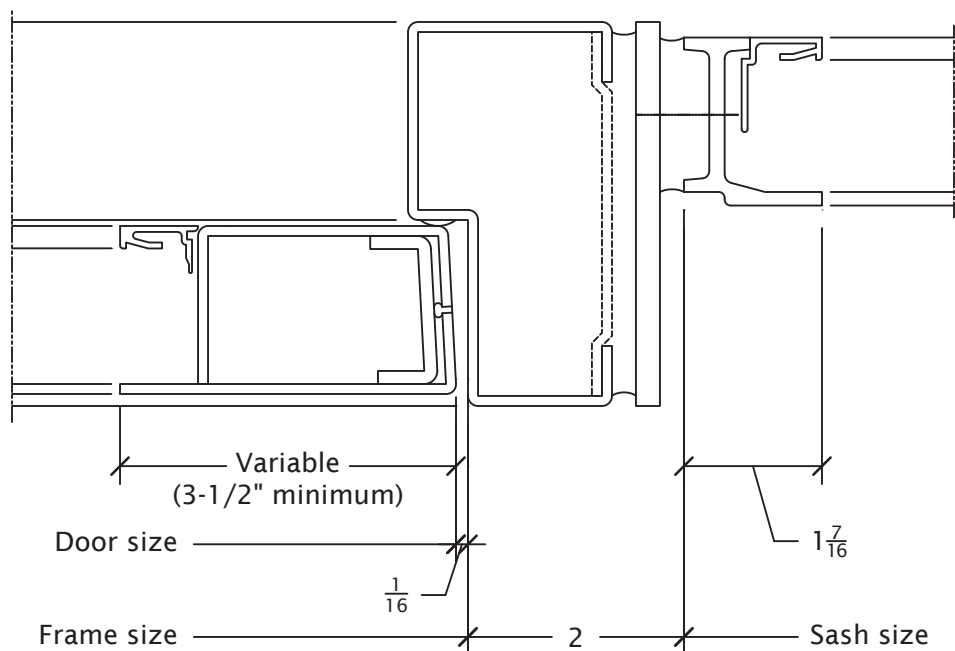
Details are half scale and shown inside glazed with 1/4" glass.
See page 12 for further glazing bead options.



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

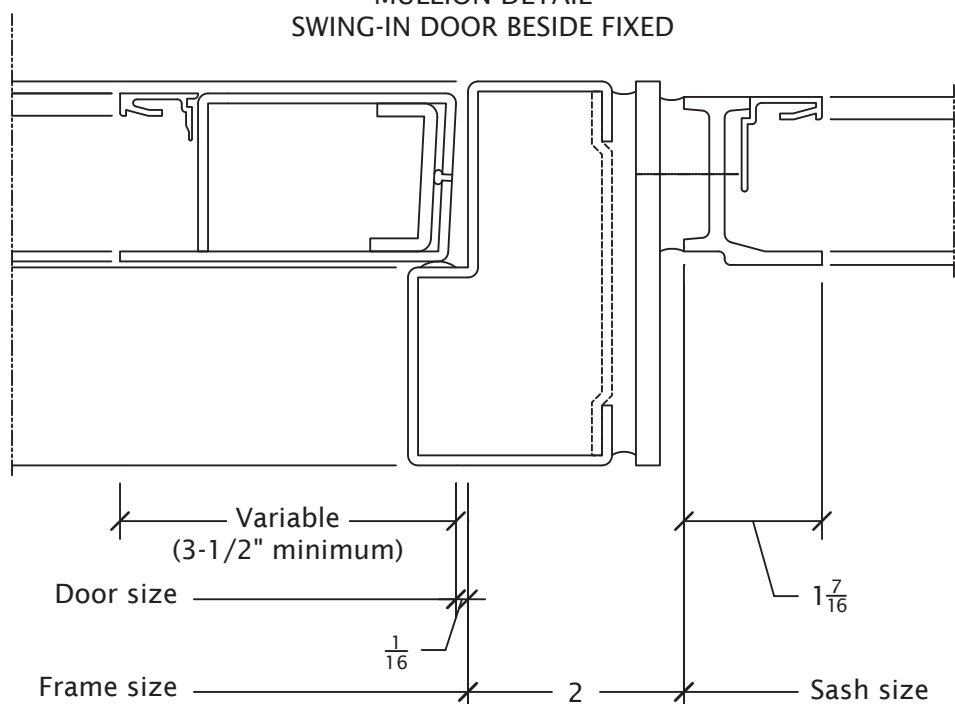
11

MULLION DETAIL
SWING-OUT DOOR BESIDE FIXED

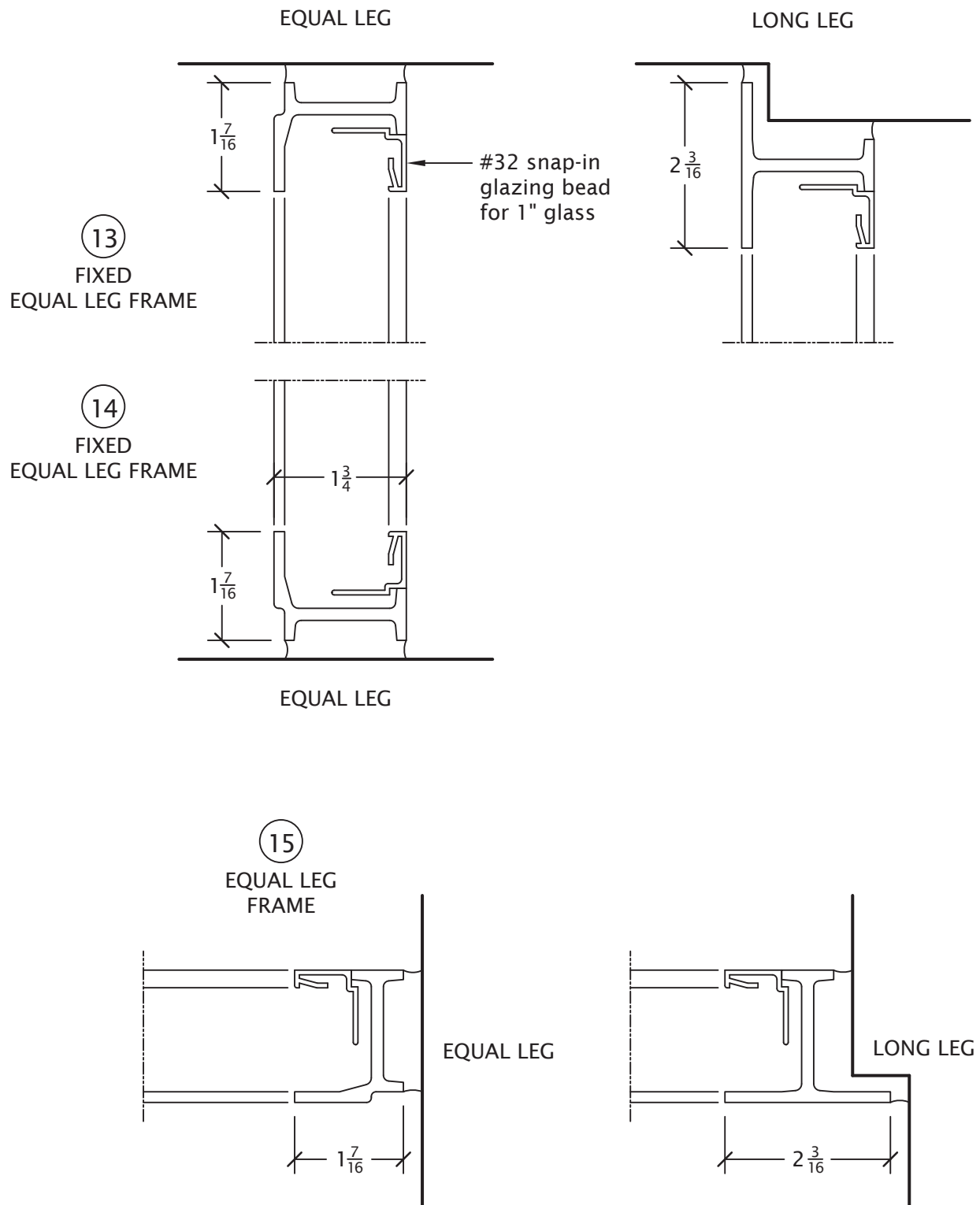


12

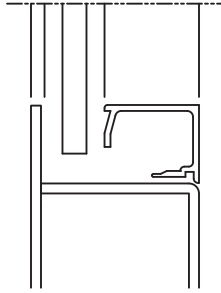
MULLION DETAIL
SWING-IN DOOR BESIDE FIXED



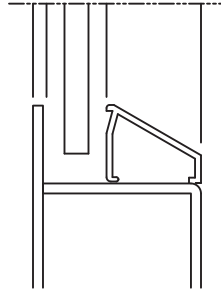
Details are half scale and shown inside glazed with 1" glass.
See page 12 for further glazing bead options.



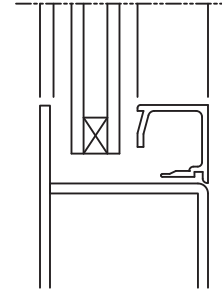
Details are half scale and shown inside glazed with 1" glass.
See page 12 for further glazing bead options.



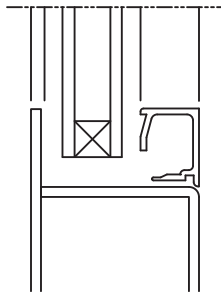
1/4" GLASS
#350 BEAD



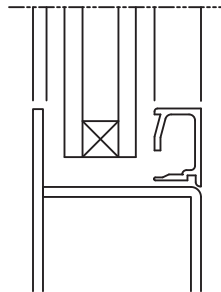
1/4" GLASS
#360 BEAD



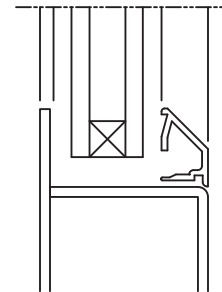
1/2" GLASS
#352 BEAD



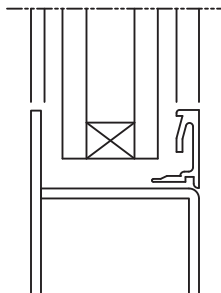
5/8" GLASS
#45 BEAD



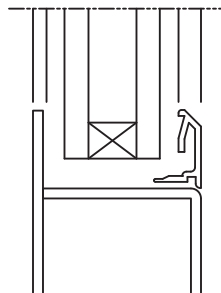
3/4" GLASS
#355 BEAD



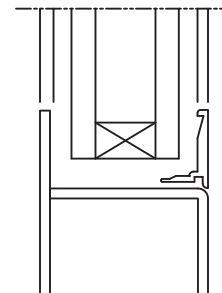
3/4" GLASS
#356 BEAD



1" GLASS
#47 BEAD



1" GLASS
#247 BEAD



1-1/8" GLASS
#48 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.

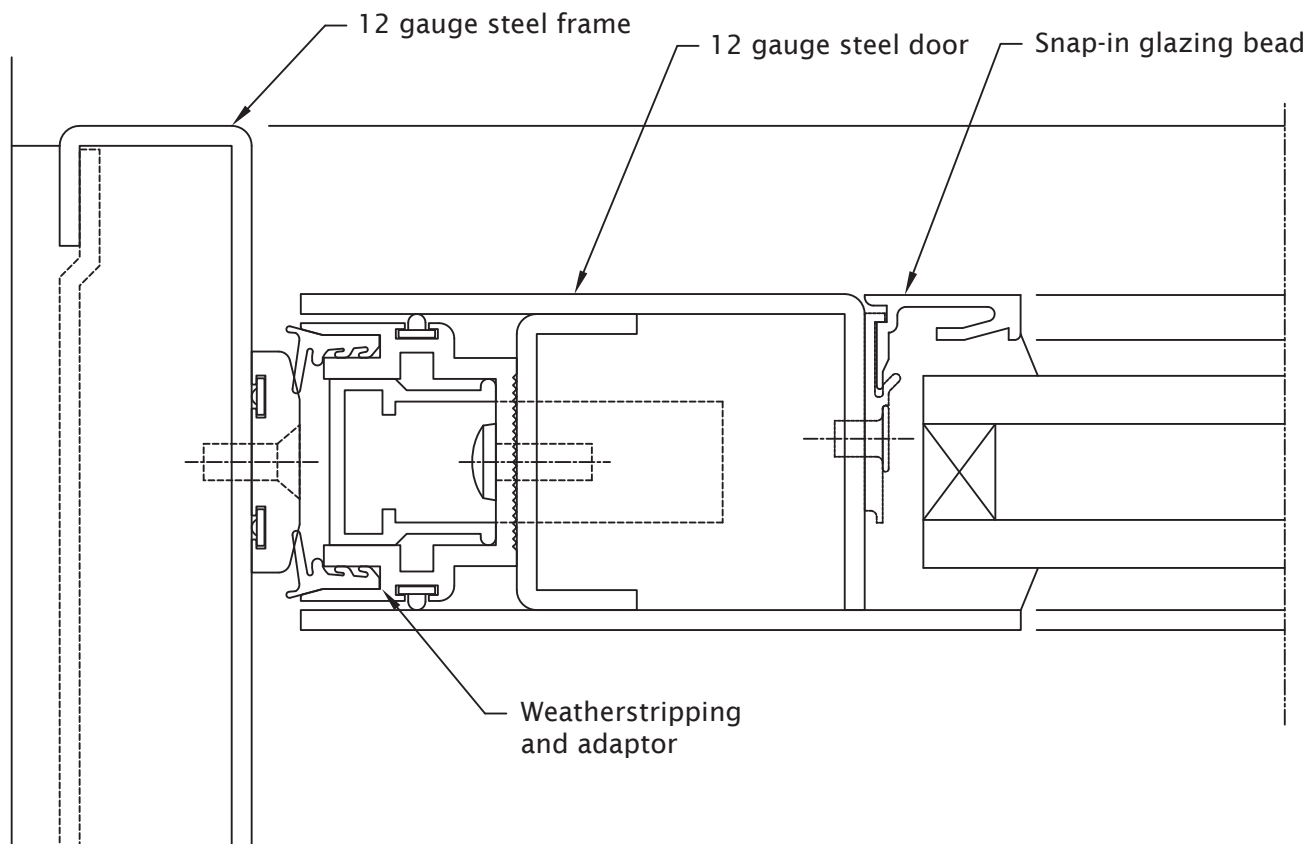
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

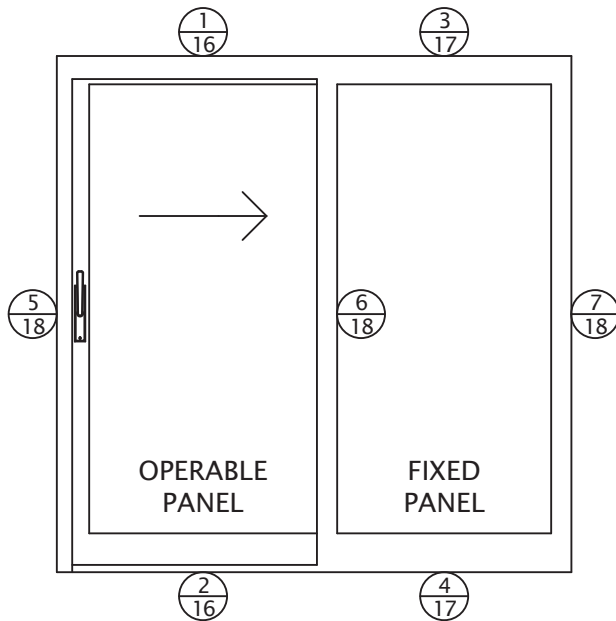
Hope's 5000 Series lift and slide doors are manufactured from heavy duty 12 gauge galvanized steel for high traffic and special applications. Our concealed 4-wheel carriage system can effectively carry the largest of doors and provides smooth, quiet and effortless operation. The handle lifts the door off the weatherstripping to reduce the friction and resistance that is normally associated with sliding doors. To close, the door is then lowered by the handle onto the weatherstripping for a superior weather seal. Configurations can be designed in single sliding, bi-parting sliding, glass and screen door combinations and pocket sliding. Hope's 5000 Series lift and slide doors can also complement the 5000 Series swing doors and integrate with any of Hope's hot-rolled steel window product lines.

PRODUCT FEATURES

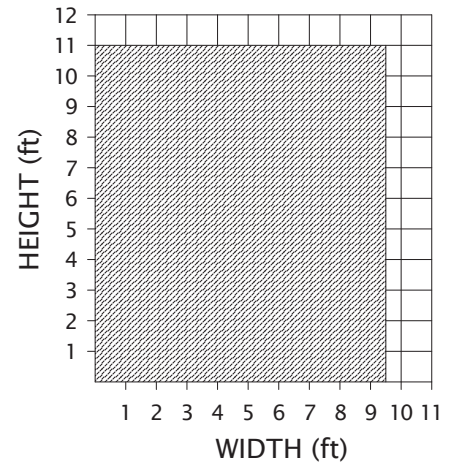
- Solidly face welded joints are ground smooth for uniform appearance, superior strength and water tightness
- Hope's traditional true divided lite muntins or simulated divided lite muntin grids are optional
- Accepts up to 1-1/8" thick insulating glass
- Nonferrous stainless steel or bronze thresholds
- Positive weather seal on all four sides of door provides superior performance
- 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.



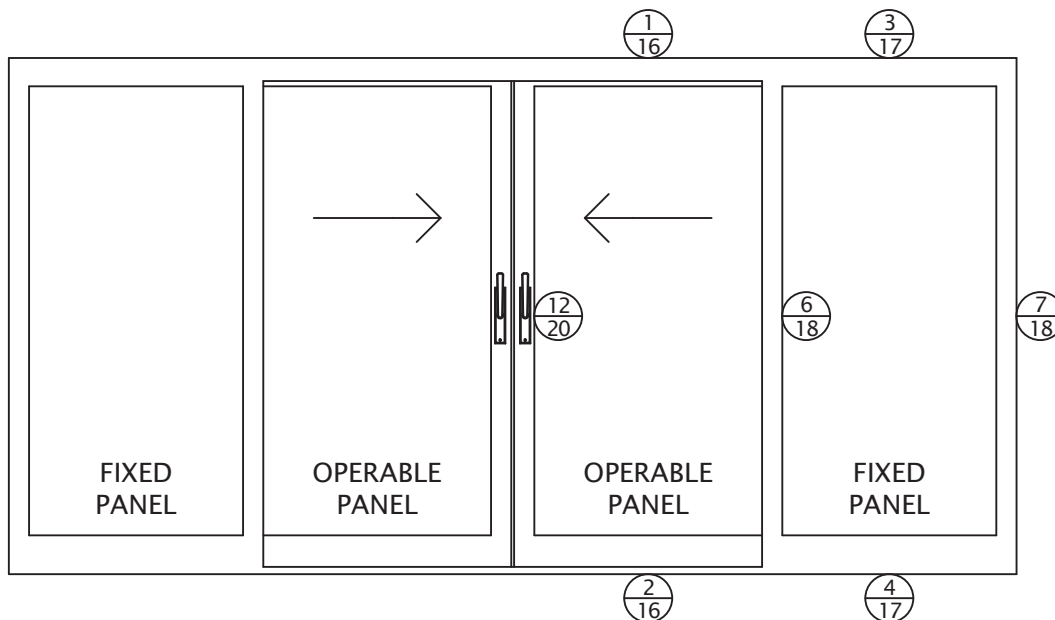
RECOMMENDED SIZES



Weight limit per panel - 880 lbs

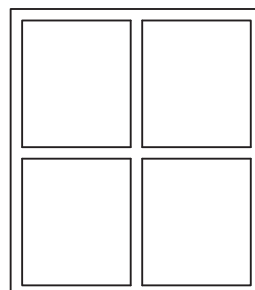
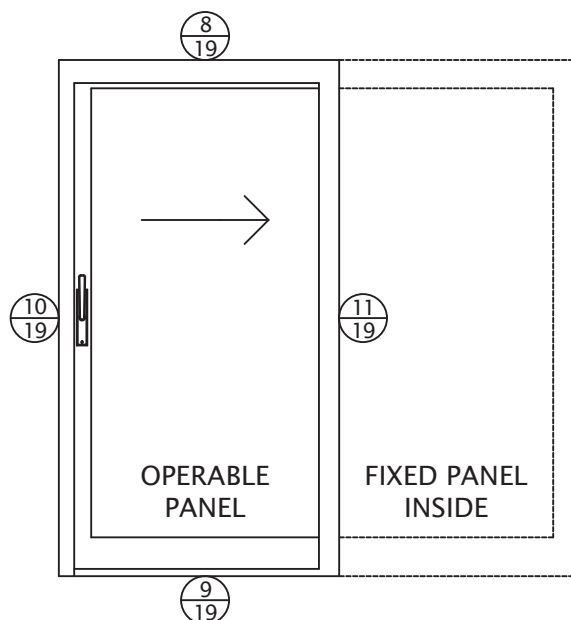
Size based on 1" insulating glass with 1/4" panes.

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



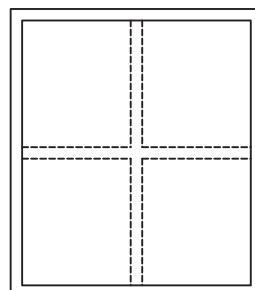
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

POCKET SLIDING DOORS

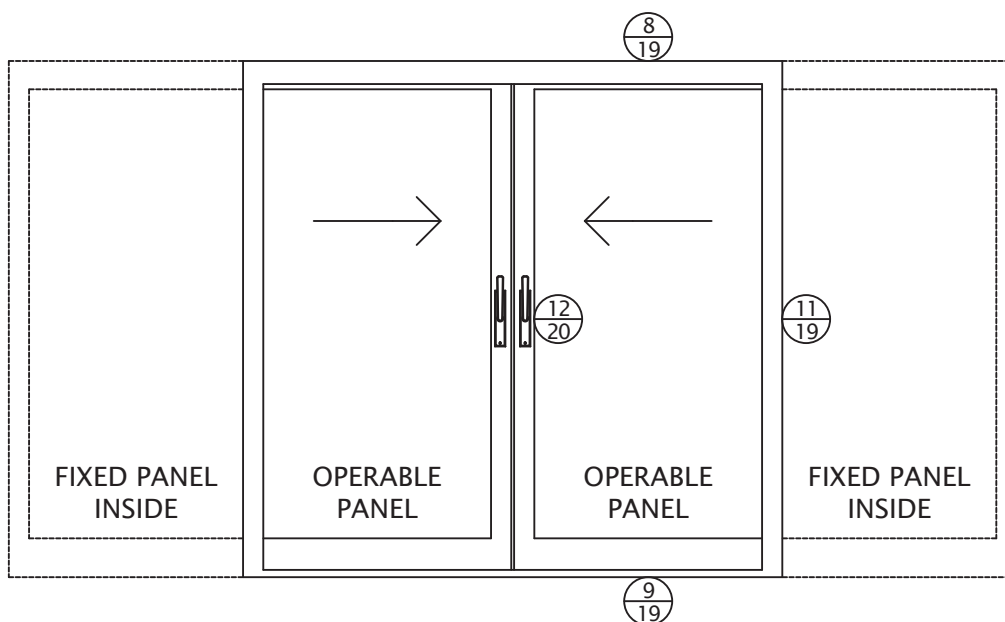


TRUE
DIVIDED LITES
(TDL)

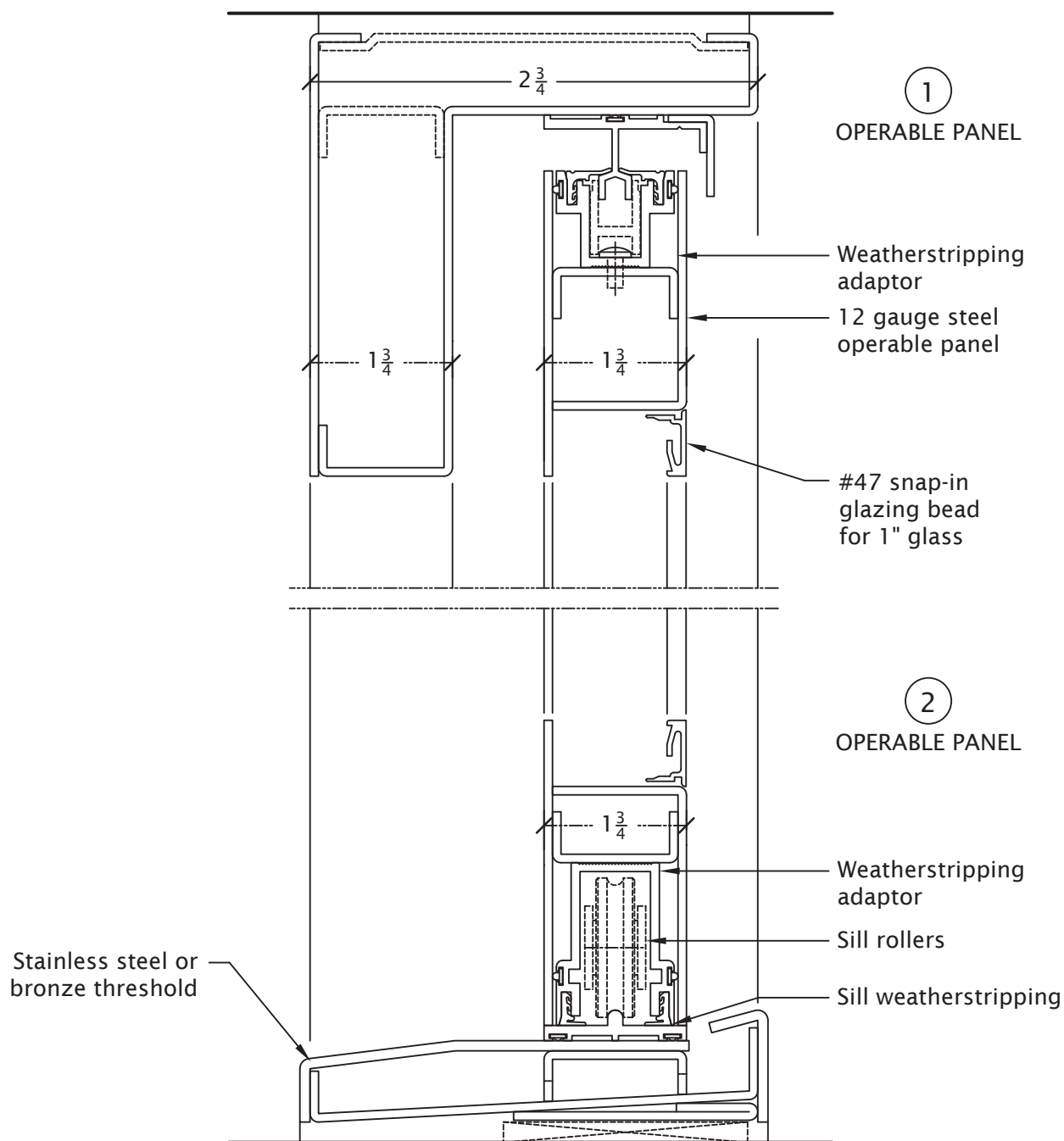
FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION



SIMULATED
DIVIDED LITES
(SDL)
(MUNTIN GRIDS)

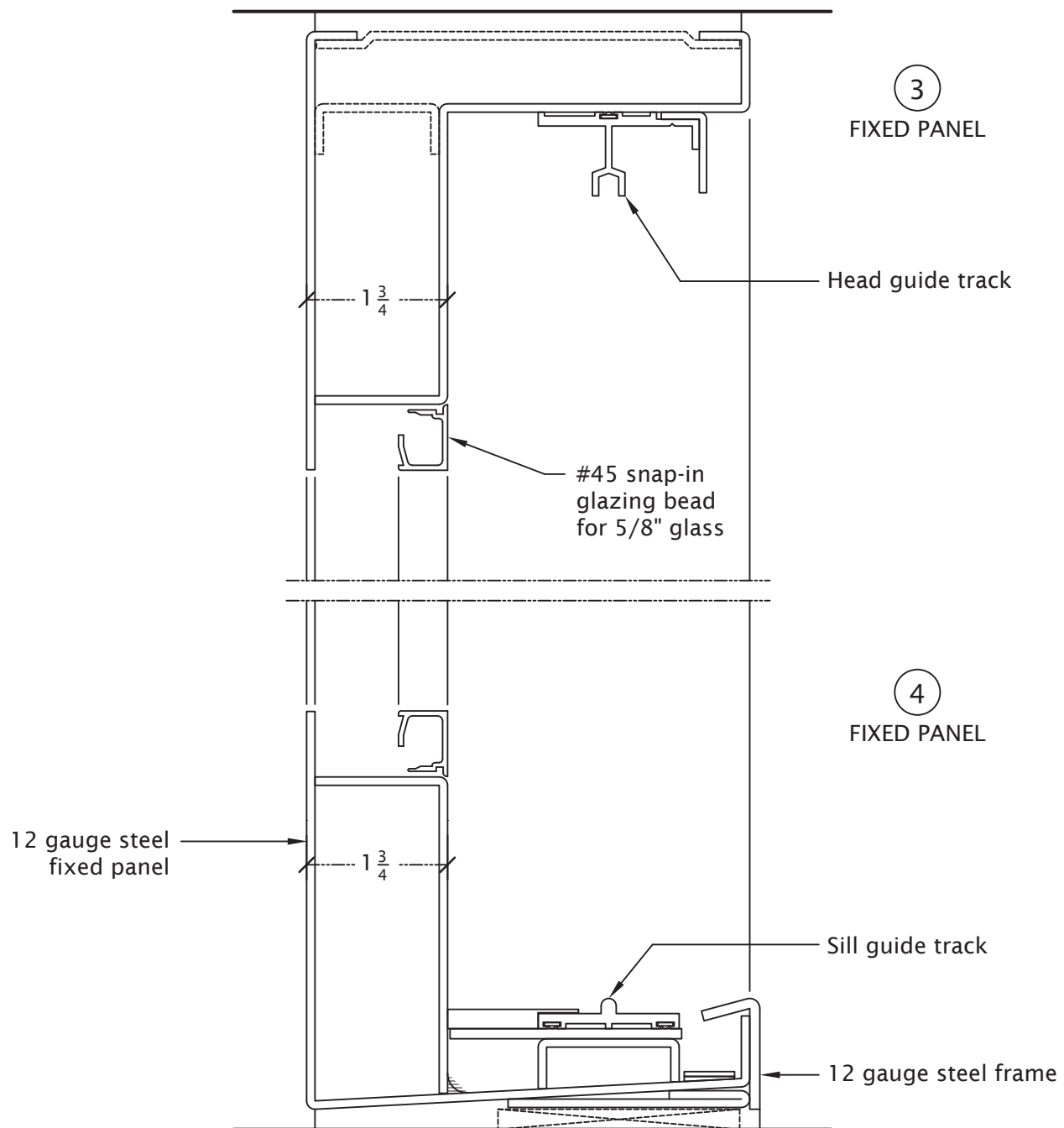


Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

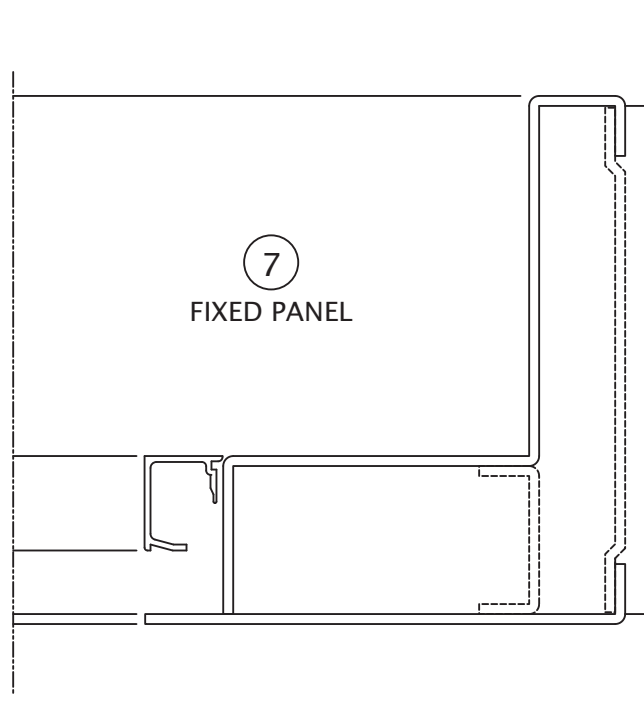


Flush sill options available.

Details are half scale and shown inside glazed with 1" glass.
See page 21 for further glazing bead options.

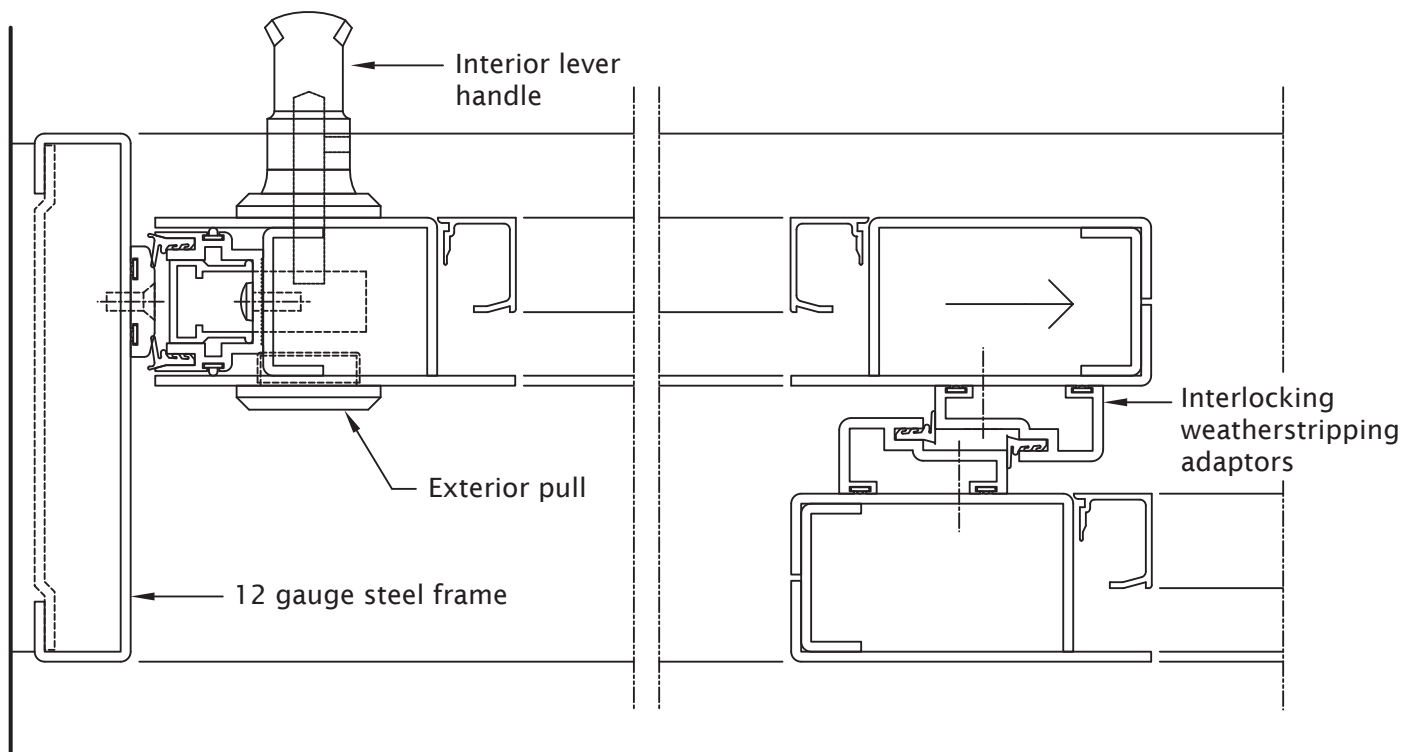


Details are half scale and shown inside glazed with 5/8" glass.
See page 21 for further glazing bead options.

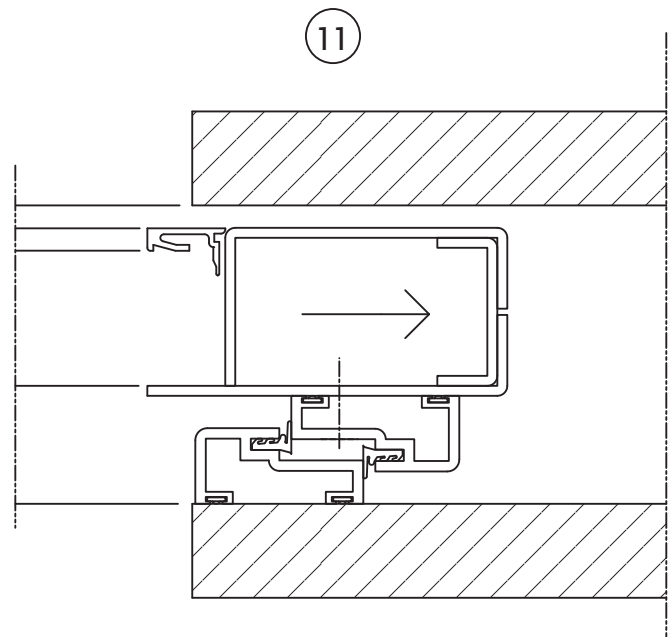
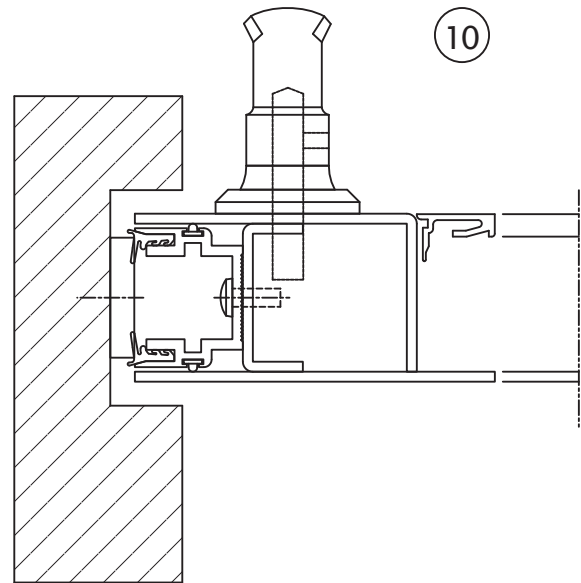
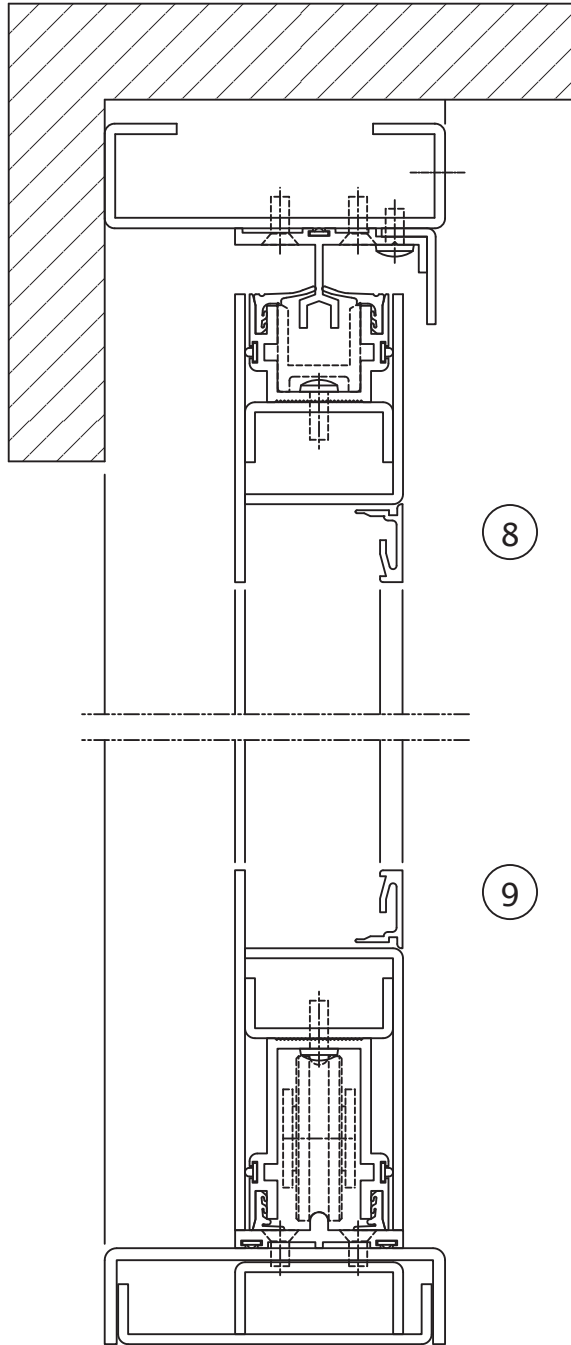


5
OPERABLE PANEL

6
MEETING RAIL

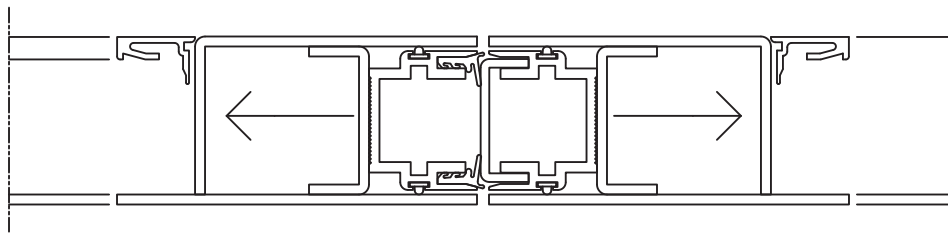


Details are half scale and shown inside glazed with 1/4" glass.
See page 21 for further glazing bead options.

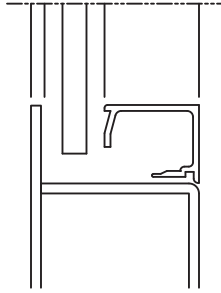


Details are half scale and shown inside glazed with 1" glass.
See page 21 for further glazing bead options.

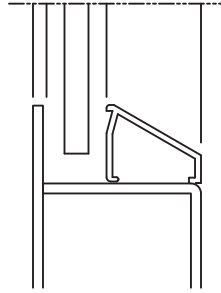
12



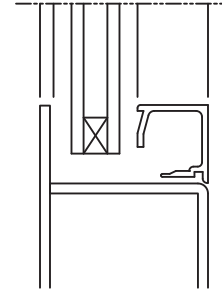
Details are half scale and shown inside glazed with 1" glass.
See page 21 for further glazing bead options.



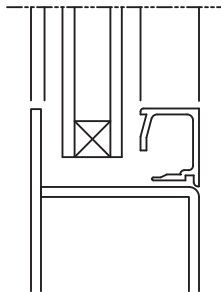
1/4" GLASS
#350 BEAD



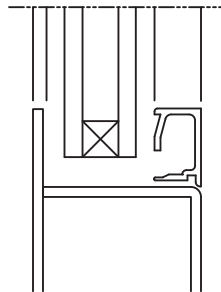
1/4" GLASS
#360 BEAD



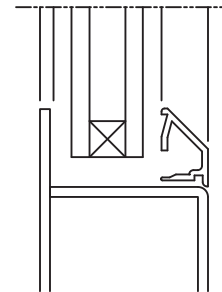
1/2" GLASS
#352 BEAD



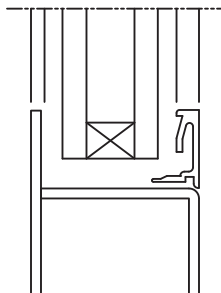
5/8" GLASS
#45 BEAD



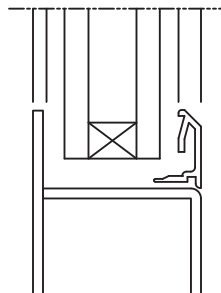
3/4" GLASS
#355 BEAD



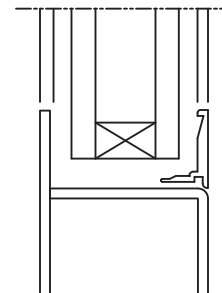
3/4" GLASS
#356 BEAD



1" GLASS
#47 BEAD



1" GLASS
#247 BEAD



1-1/8" GLASS
#48 BEAD

GLAZING BEAD NOTES

Hope's offers various types of glazing beads including: snap-in and screw-on.
Consult Hope's for other options.

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

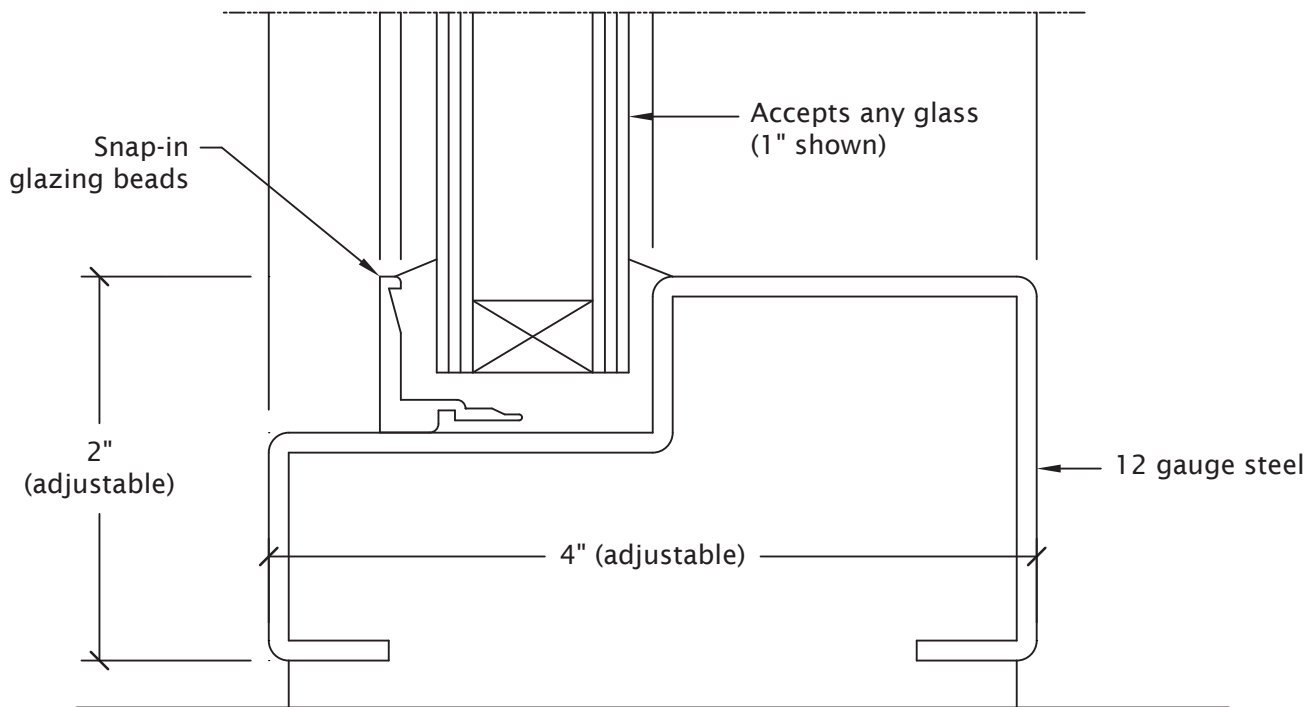
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

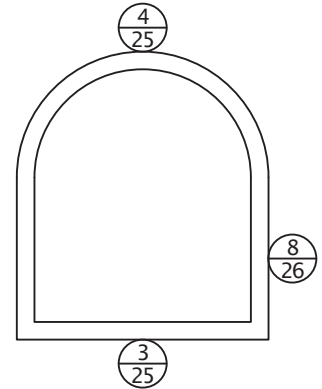
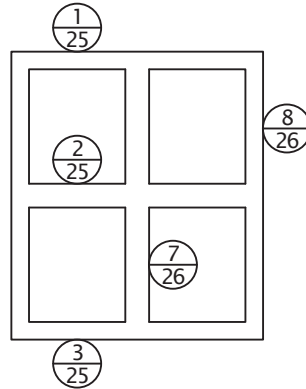
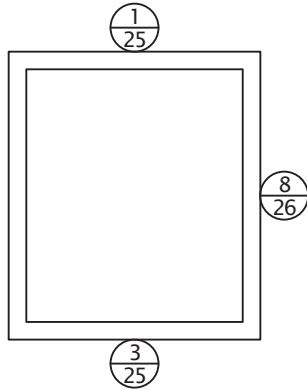
Hope's has the unique capability of fabricating specialty custom formed steel products in addition to our traditional hot-rolled steel window line. Custom formed steel windows can have several applications: acoustical, various levels of security, integrating with building construction and complementing our 5000 Series door product line.

PRODUCT FEATURES

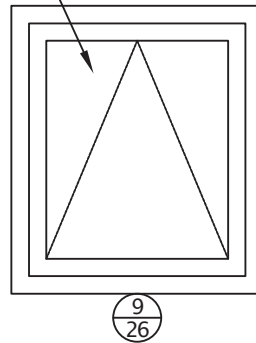
- Typically manufactured from durable 12 gauge steel
- Solidly face welded joints are ground smooth for uniform appearance, superior strength and water tightness
- Accepts any glass thickness from 1/4" to heavy duty laminated bullet resistant
- Snap-in glazing beads typical, but screw-on beads for higher security applications are available
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



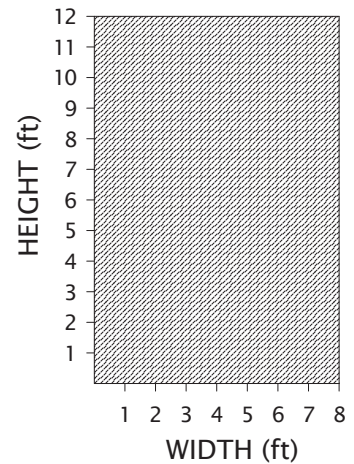
Details are full scale.



Vent insert can be any series:
Jamestown175™ Series,
Landmark175™ Series
or University Series™

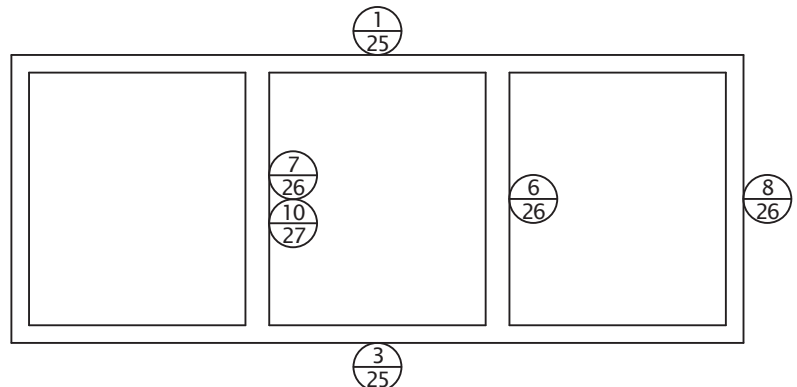
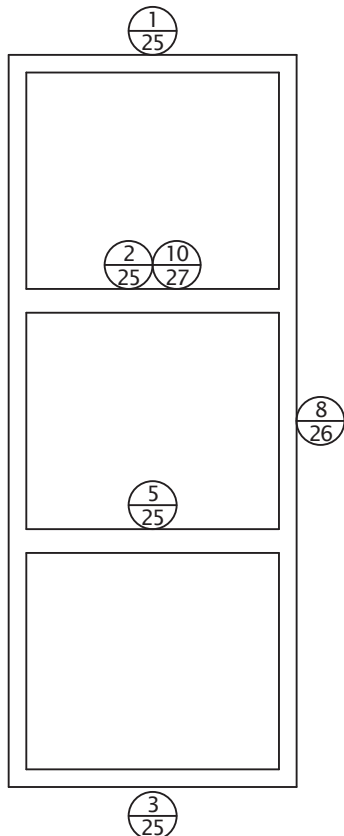


RECOMMENDED SIZES

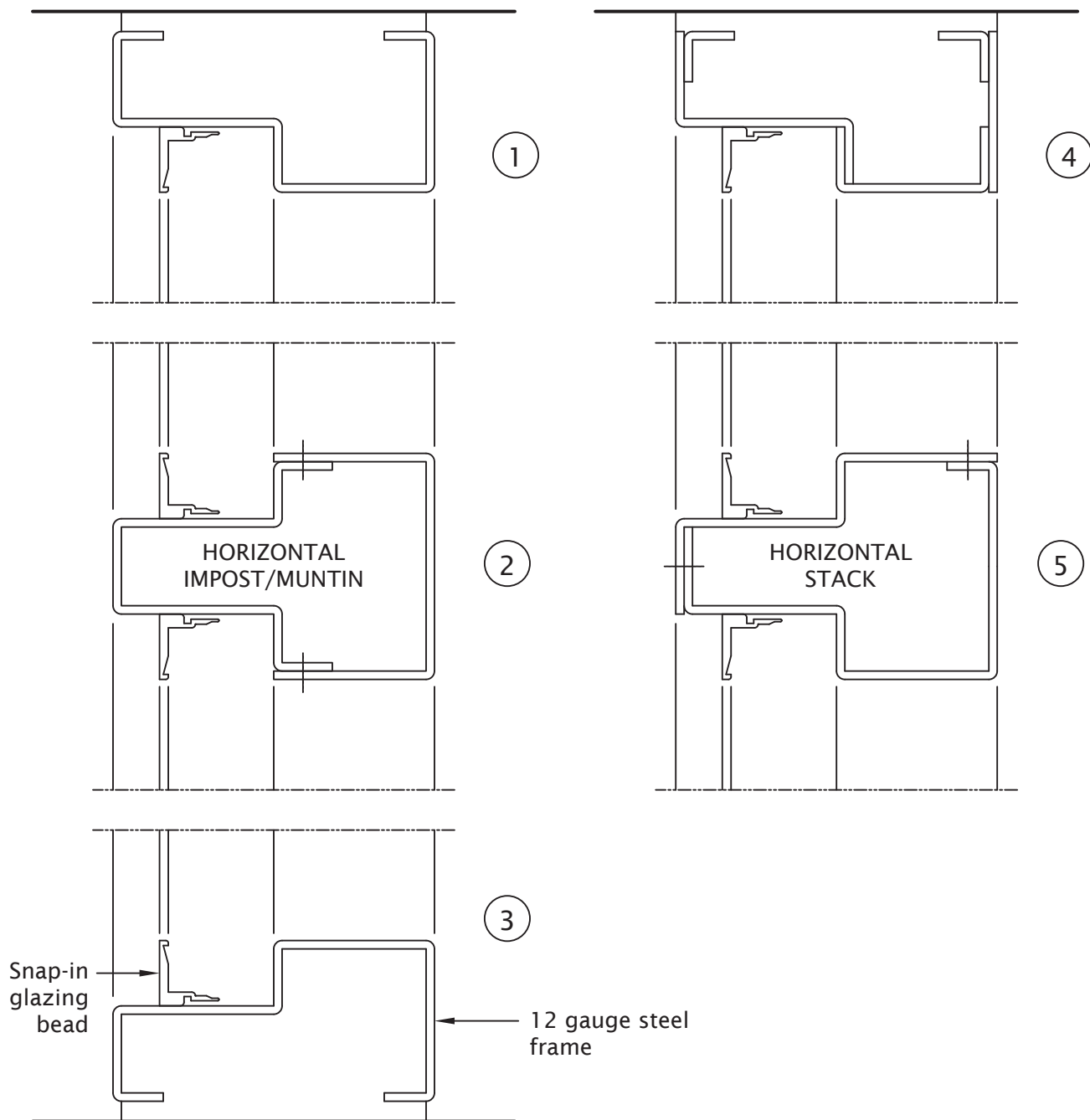


Size based on shipping limitations.

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

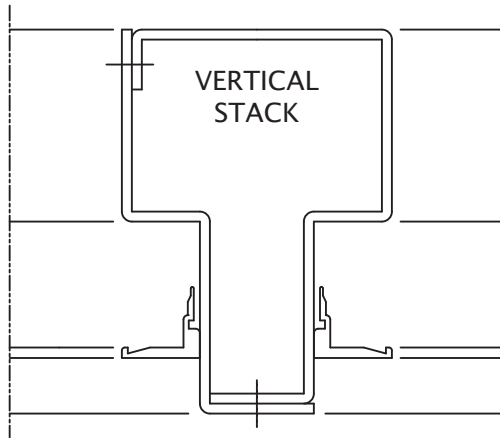


Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

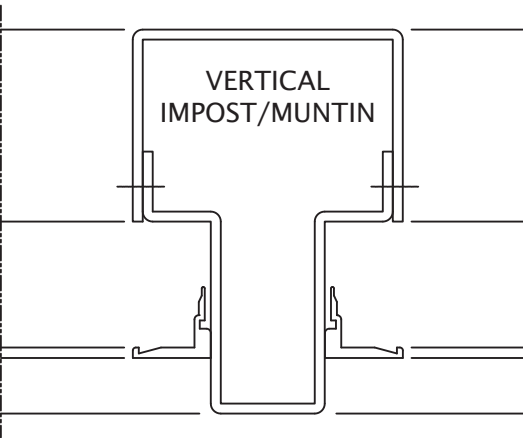


Details are half scale and shown outside glazed with 1" glass.
See page 28 for further glazing bead options.

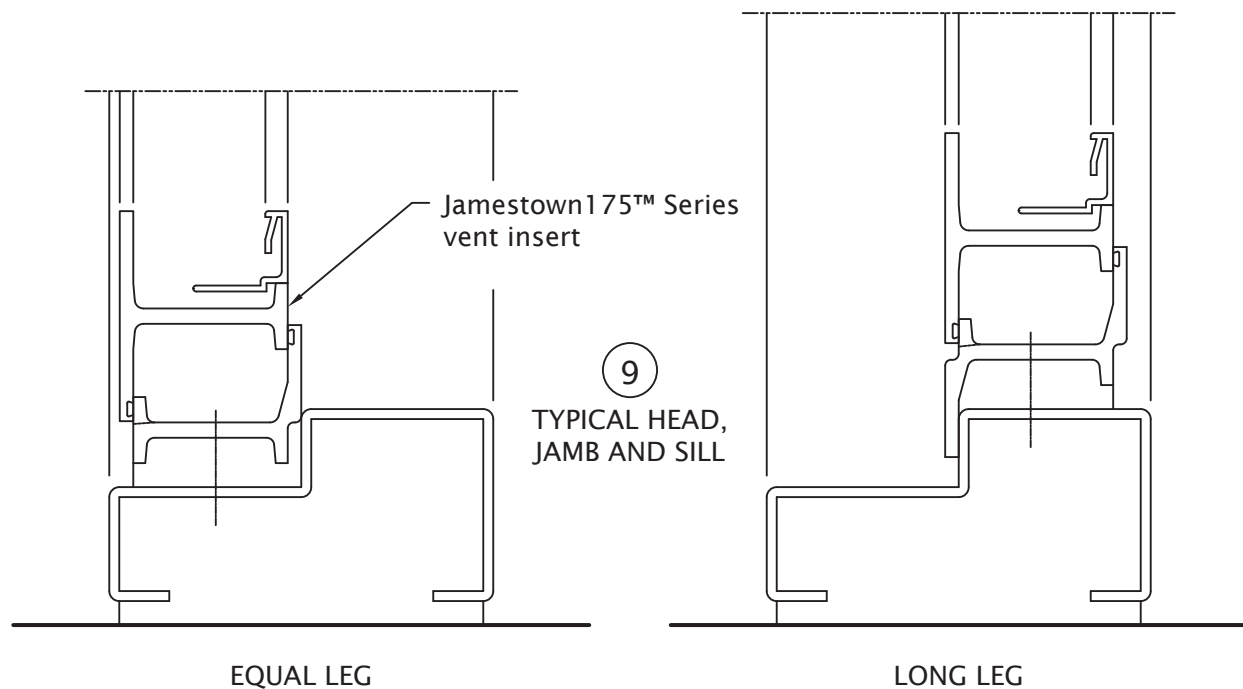
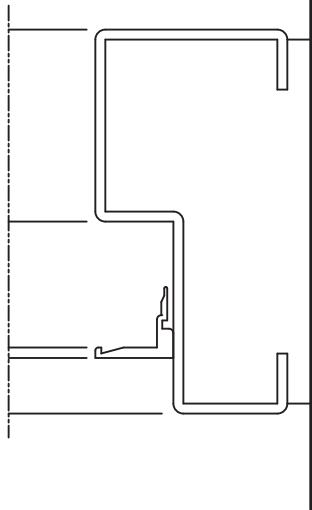
6



7



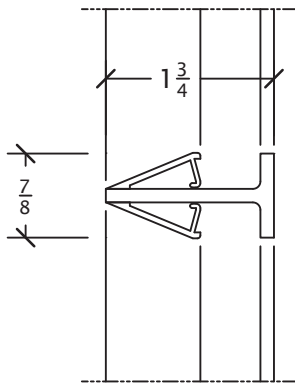
8



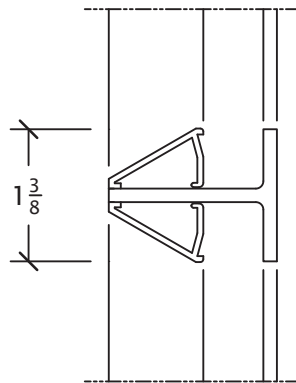
Details are half scale and shown outside glazed with 1" glass.
See page 28 for further glazing bead options.

10

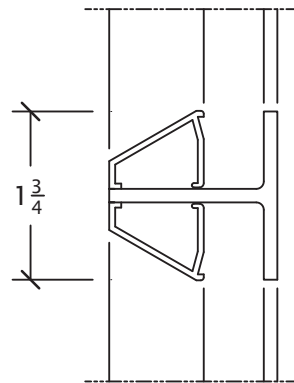
TRUE DIVIDED LITE
MUNTUN BARS



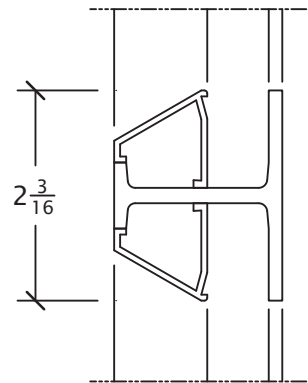
#T875L
ACCEPTS 1/4"
GLASS ONLY



#T138L
ACCEPTS UP TO
3/4"
INSULATING
GLASS

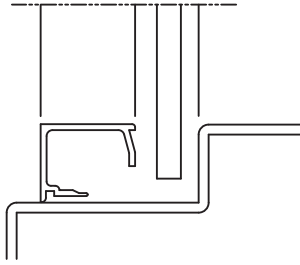


#T175L
ACCEPTS UP TO
1-1/8"
INSULATING
GLASS

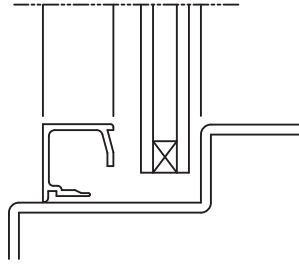


#175M
ACCEPTS UP TO
1-1/8"
INSULATING
GLASS

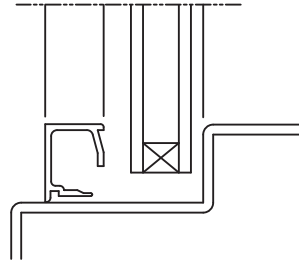
Details are half scale and shown outside glazed with 1/4" glass.



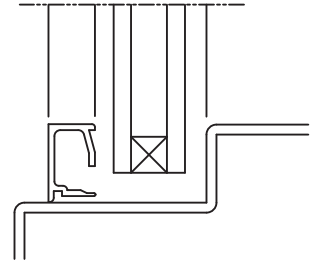
1/4" GLASS
#350 BEAD



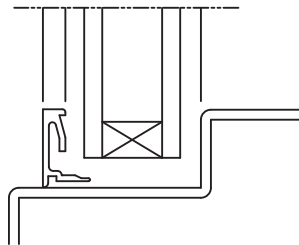
1/2" GLASS
#352 BEAD



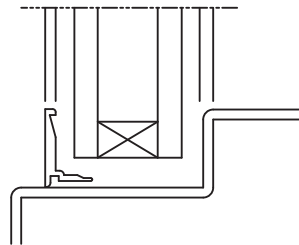
5/8" GLASS
#45 BEAD



3/4" GLASS
#355 BEAD



1" GLASS
#47 BEAD



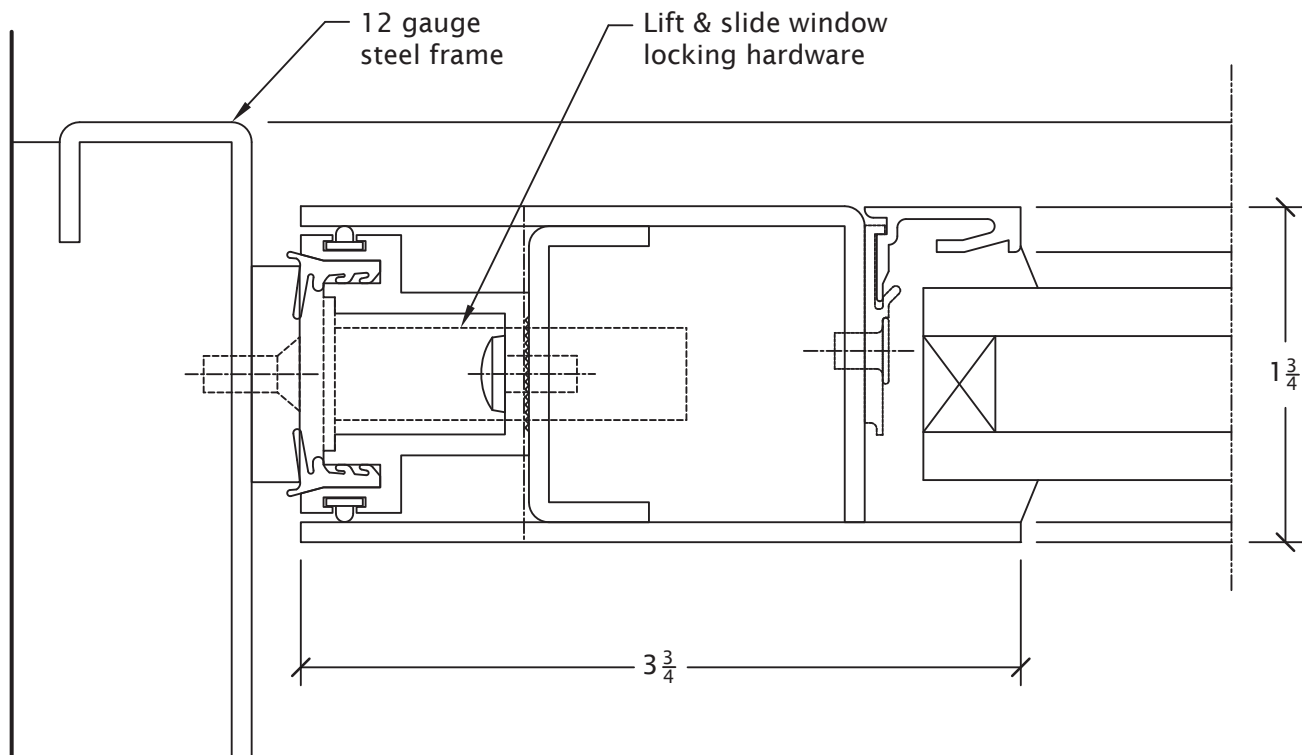
1-1/8" GLASS
#48 BEAD

Details are half scale and shown outside glazed.

Hope's 5000 Series lift and slide windows are manufactured from heavy duty 12 gauge steel for high-end residential or commercial applications. Our concealed 4-wheel carriage system can effectively carry the largest of windows. The handle lifts the window off the weatherstripping to reduce the friction and resistance that is normally associated with sliding windows and provides a smooth, quiet and effortless operation. To close, the window is then lowered by the handle onto the weatherstripping for a superior weather seal. Configurations can be designed in single sliding, bi-parting sliding and pocket sliding. Hope's 5000 Series lift and slide windows can also complement the 5000 Series swing doors and lift and slide doors.

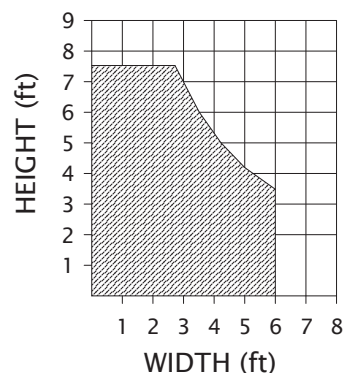
PRODUCT FEATURES

- Solidly face welded joints are ground smooth for uniform appearance, superior strength and water tightness
- Hope's traditional true divided lite muntins or simulated divided lite muntin grids are optional
- Accepts up to 1-1/8" thick insulating glass
- 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.

RECOMMENDED SIZES

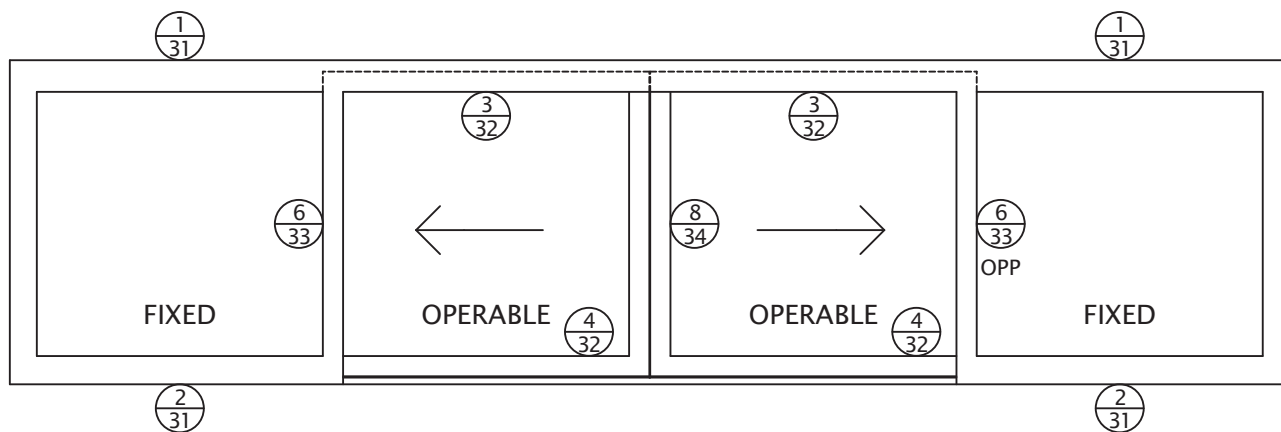
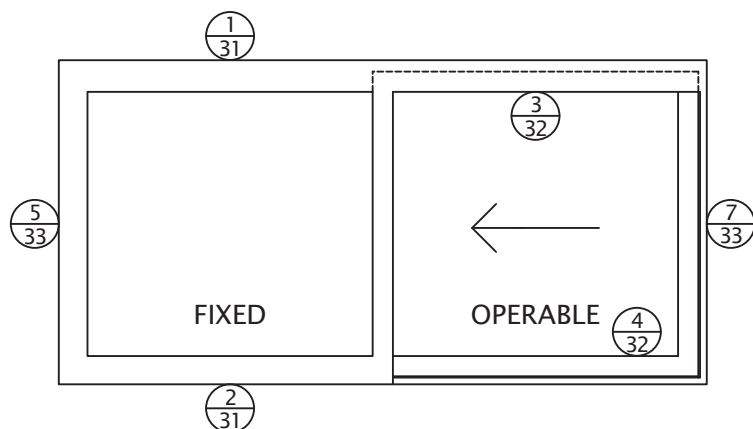


Weight limit per panel - 198 lbs

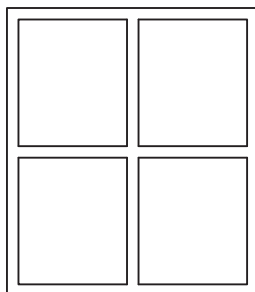
Maximum width - 72"
Maximum height - 90"

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

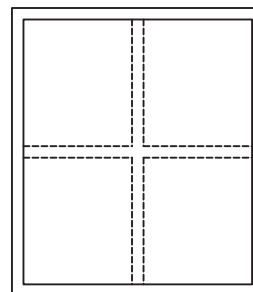
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



TRUE
DIVIDED
LITES (TDL)



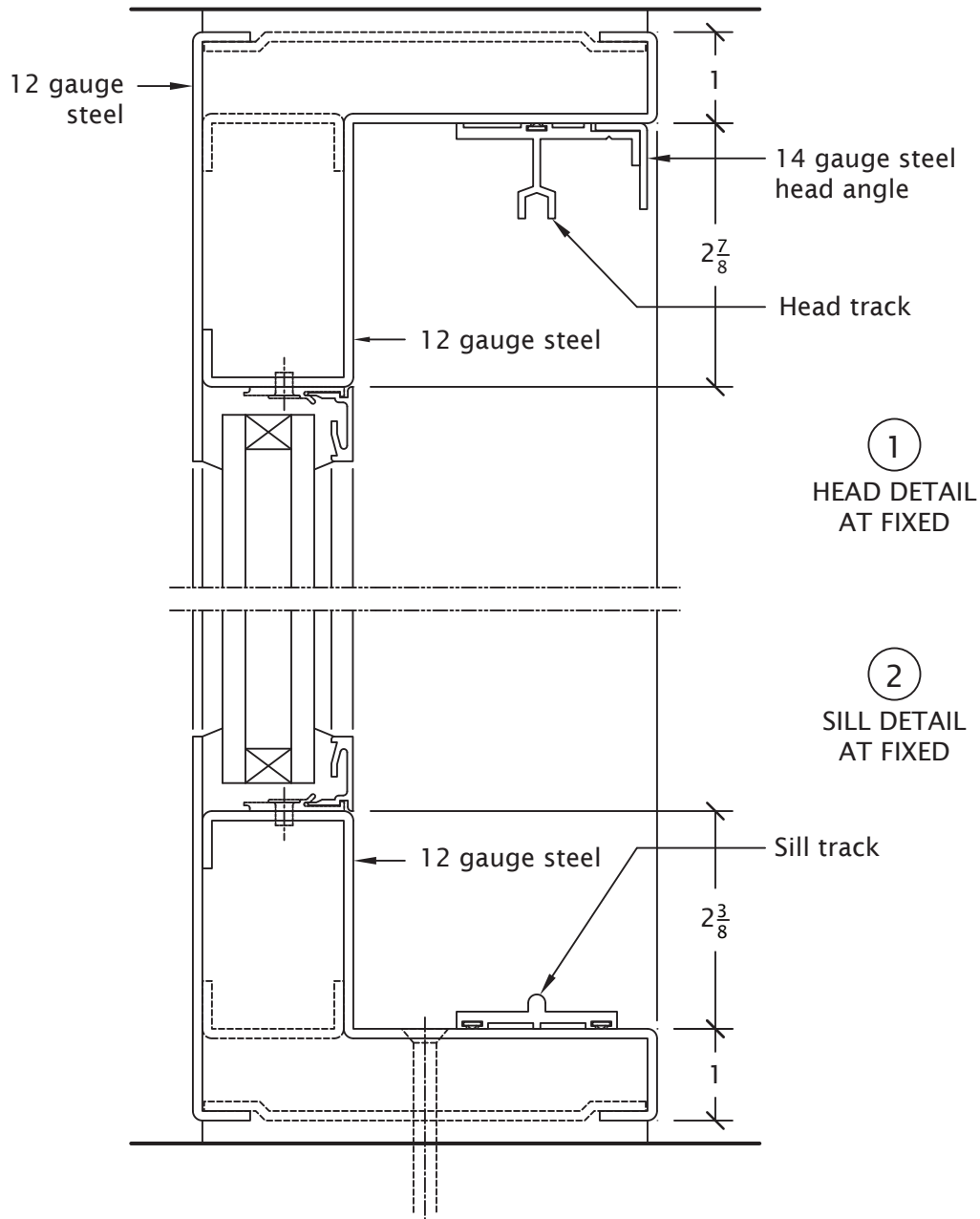
FOR TRUE AND SIMULATED
DIVIDED LITES
SEE "MUNTINS, MULLIONS,
STACKS AND DEFLECTION
CHANNELS" SECTION



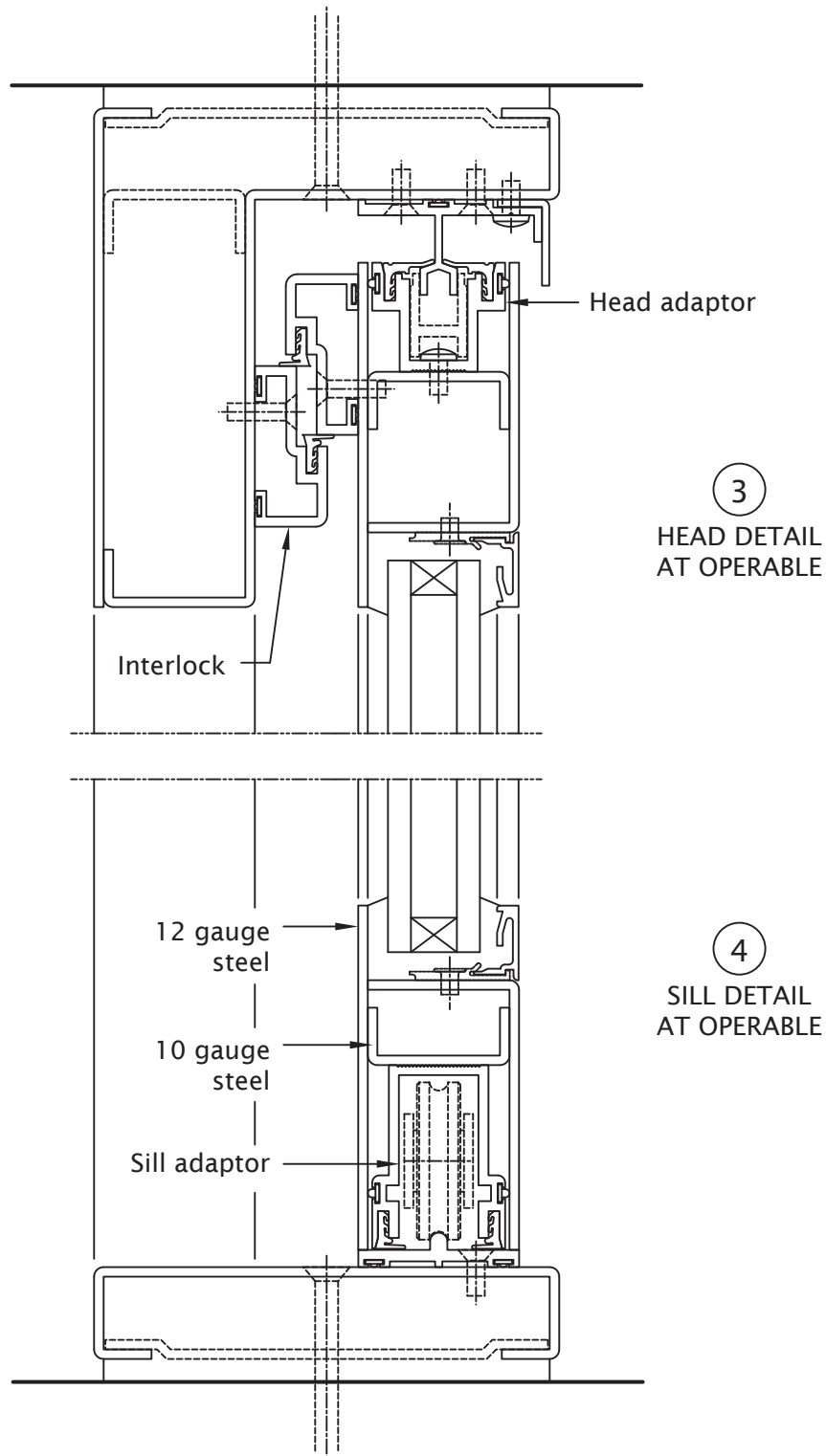
SIMULATED
DIVIDED
LITES (SDL)

(MUNTIN
GRIDS)

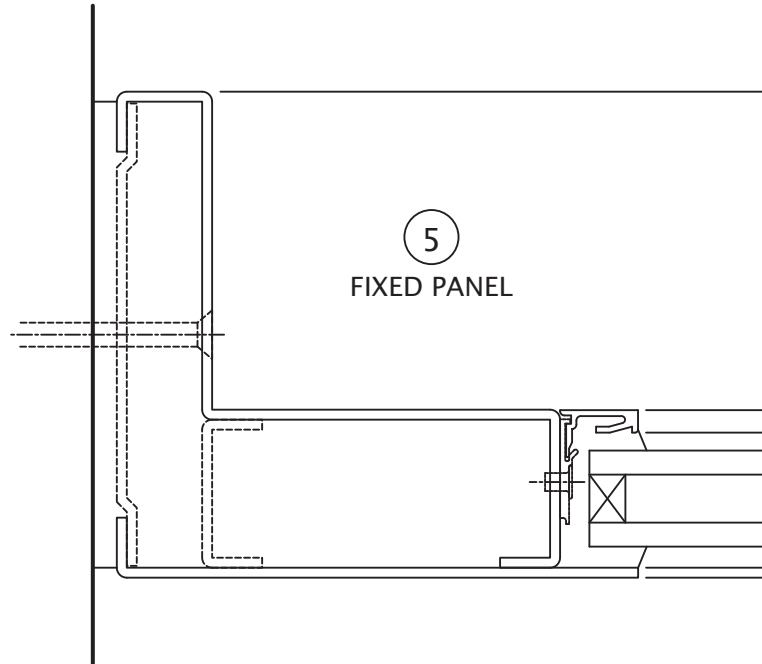
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



Details are half scale.
See page 35 for further glazing bead options.

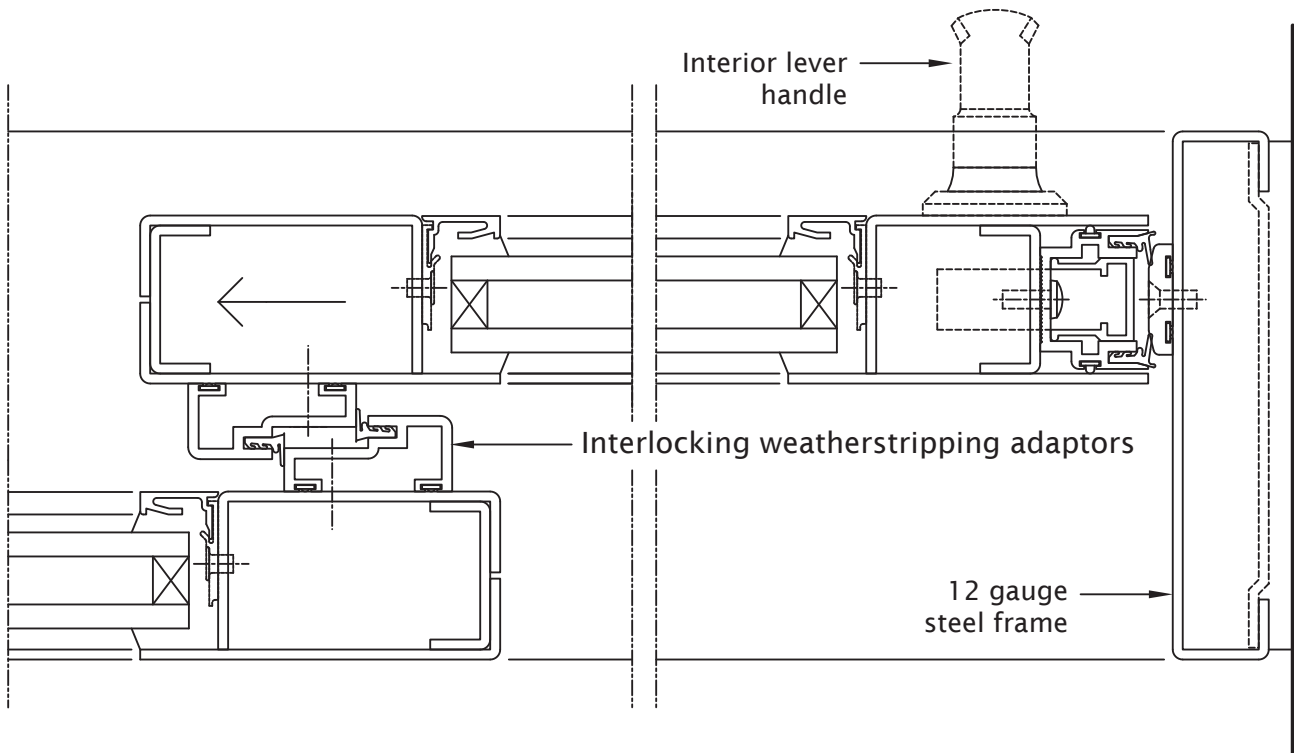


Details are half scale.
See page 35 for further glazing bead options.

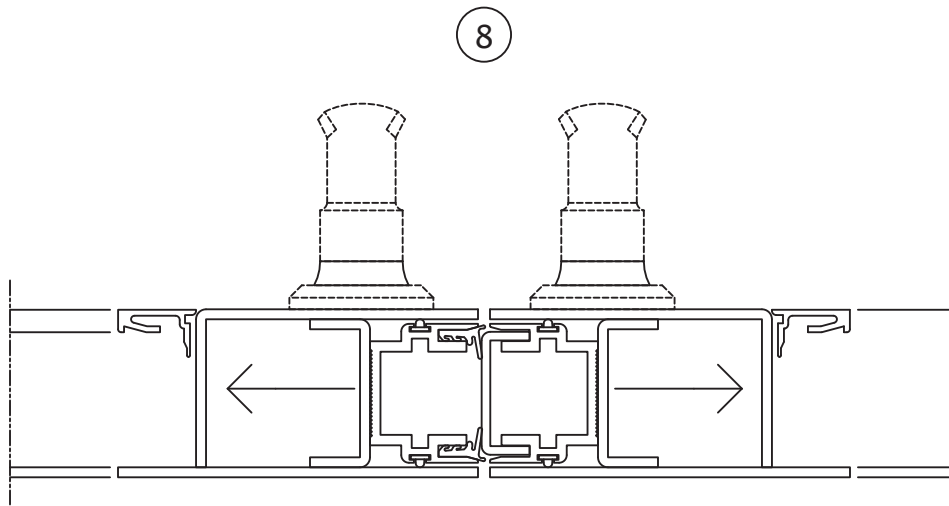


⑥
MEETING RAIL

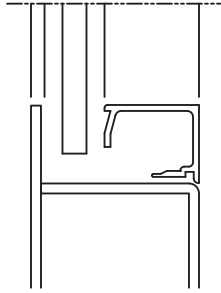
⑦
OPERABLE PANEL



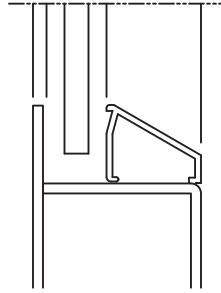
Details are half scale.
See page 35 for further glazing bead options.



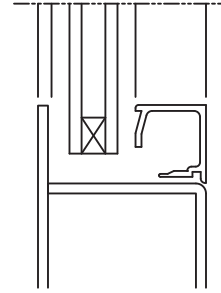
Details are half scale.
See page 35 for further glazing bead options.



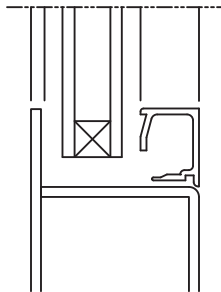
1/4" GLASS
#350 BEAD



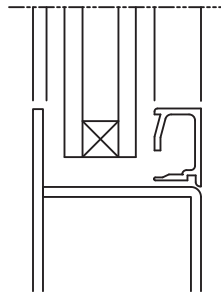
1/4" GLASS
#360 BEAD



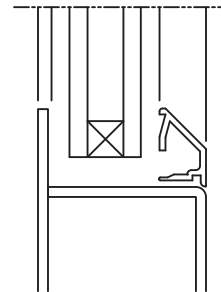
1/2" GLASS
#352 BEAD



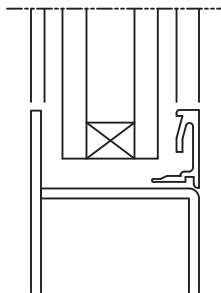
5/8" GLASS
#45 BEAD



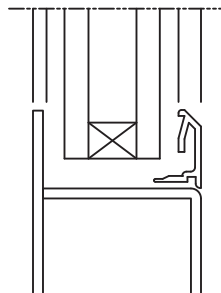
3/4" GLASS
#355 BEAD



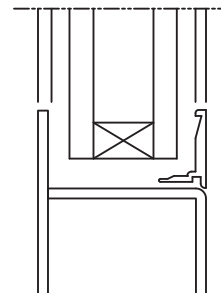
3/4" GLASS
#356 BEAD



1" GLASS
#47 BEAD



1" GLASS
#247 BEAD



1-1/8" GLASS
#48 BEAD

GLAZING BEAD NOTES

Hope's offers various types of glazing beads including: snap-in and screw-on.
Consult Hope's for other options.

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

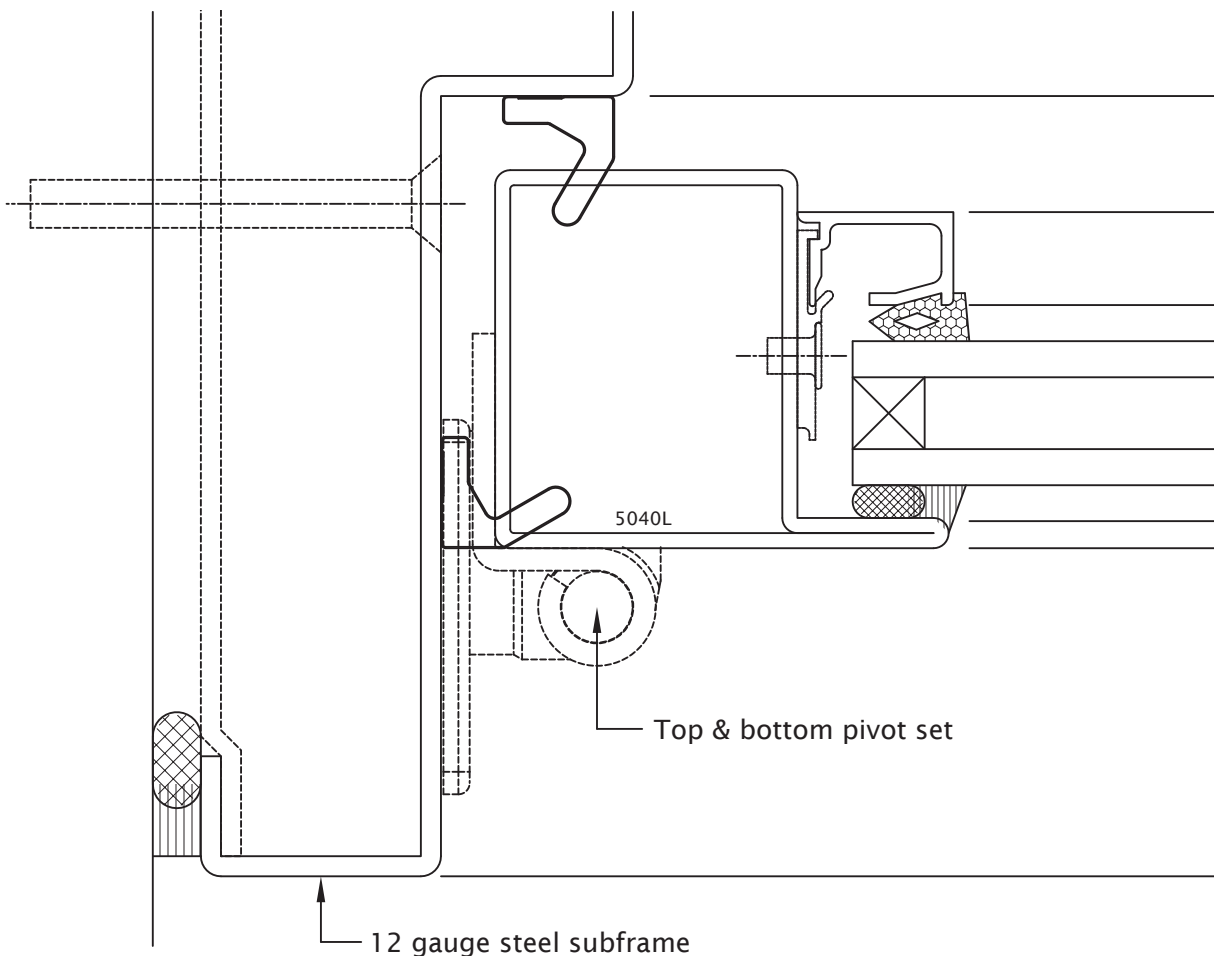
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

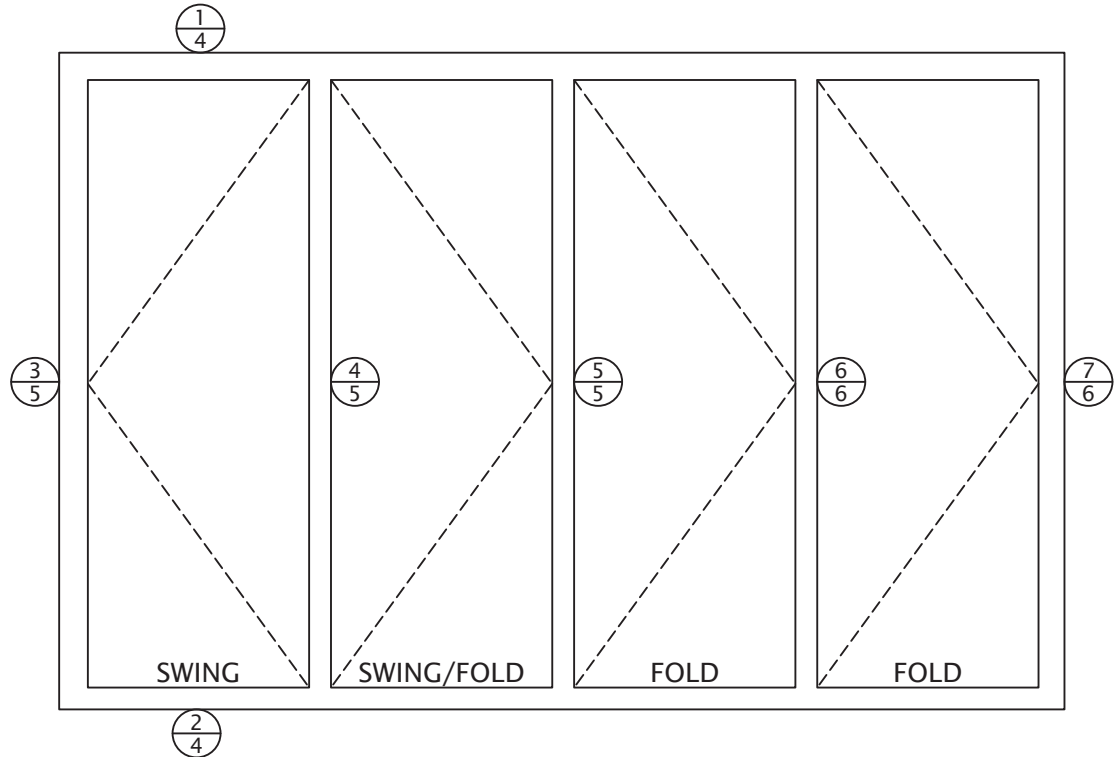
Hope's Hopkins Series impact-rated steel slide and fold door frames are custom formed from heavy 12 gauge steel for luxury residential or commercial projects in hurricane zones. All configurations include a single active swing leaf that can be used for passage in addition to the folding leaves that can be opened to achieve a maximum clear opening. Operable hardware include a 4-wheel overhead carriage and track system with corresponding 2-wheel sill guides for smooth operation and multi-point locking gears. Top and bottom bolts are applied to secure the folding leaves to the frame.

PRODUCT FEATURES

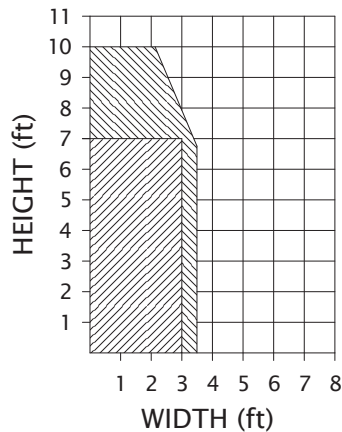
- Solidly face welded joints are ground smooth for uniform appearance, superior strength and water tightness
- Hope's traditional hot-rolled true muntins or muntin grids are optional
- Accepts up to 1-1/8" thick insulating glass
- Solid brass or bronze hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



Details are full scale.



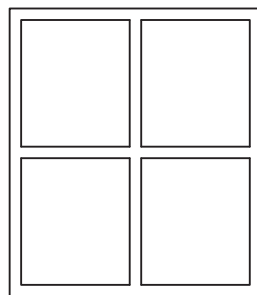
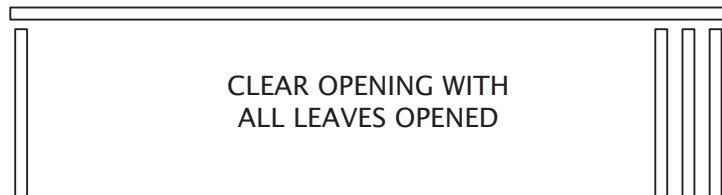
RECOMMENDED SIZES



- Weight limit per panel - 176 lbs
- Weight limit per panel - 265 lbs

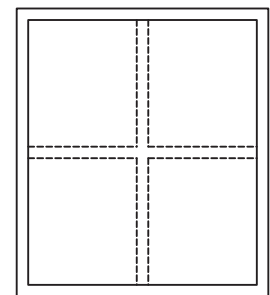
Sizes based on 1" insulating glass with 1/4" panes.

For requirements exceeding the sizes shown above up to 265 lbs., See page 4 for alternative details.



TRUE DIVIDED LITES (TDL)

MUNTINS
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.
All Hope's products are custom manufactured for your specific project requirements.

NOTE: SEE BELOW FOR
CONFIGURATIONS
OPPOSITE TO THOSE
SHOWN ON THE LEFT

SCHEME 3L
3 TOTAL LEAVES
2 FOLDING / 1 SWING
0 SWING



SCHEME 3R
3 TOTAL LEAVES
0 SWING
2 FOLDING / 1 SWING

SCHEME 3L1R
4 TOTAL LEAVES
2 FOLDING / 1 SWING
1 SWING



SCHEME 1L3R
4 TOTAL LEAVES
1 SWING
2 FOLDING / 1 SWING

SCHEME 5L
5 TOTAL LEAVES
4 FOLDING / 1 SWING
0 SWING



SCHEME 5R
5 TOTAL LEAVES
0 SWING
4 FOLDING / 1 SWING

SCHEME 3L3R
6 TOTAL LEAVES
2 FOLDING / 1 SWING
2 FOLDING / 1 SWING

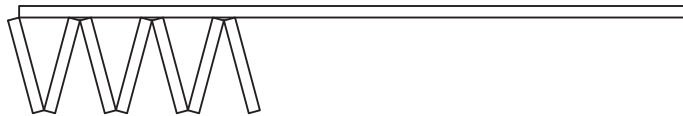


SCHEME 5L1R
6 TOTAL LEAVES
4 FOLDING / 1 SWING
1 SWING



SCHEME 1L5R
6 TOTAL LEAVES
1 SWING
4 FOLDING / 1 SWING

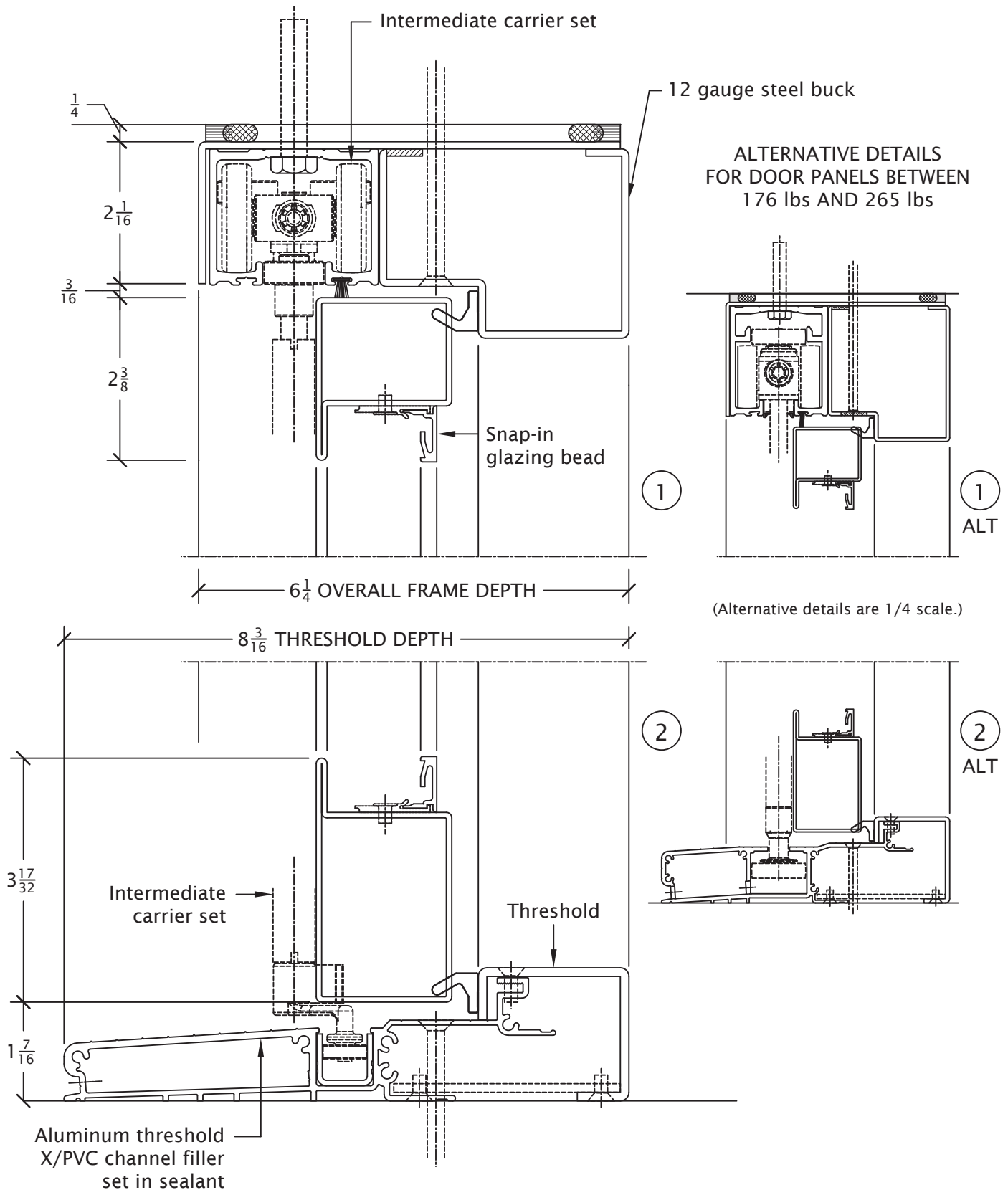
SCHEME 7L
7 TOTAL LEAVES
6 FOLDING / 1 SWING
0 SWING



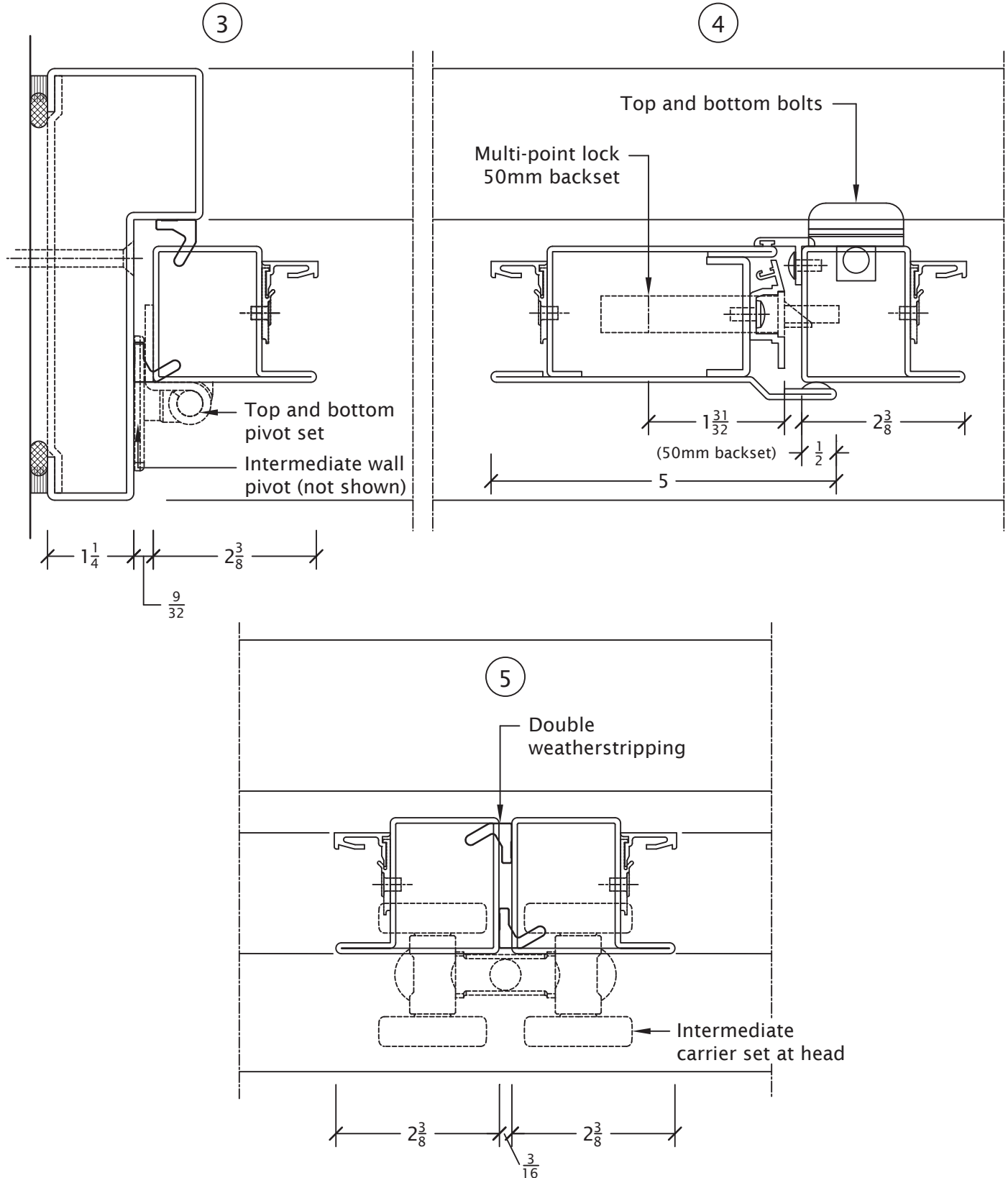
SCHEME 7R
7 TOTAL LEAVES
0 SWING
6 FOLDING / 1 SWING

Other configurations are available. Please consult Hope's.

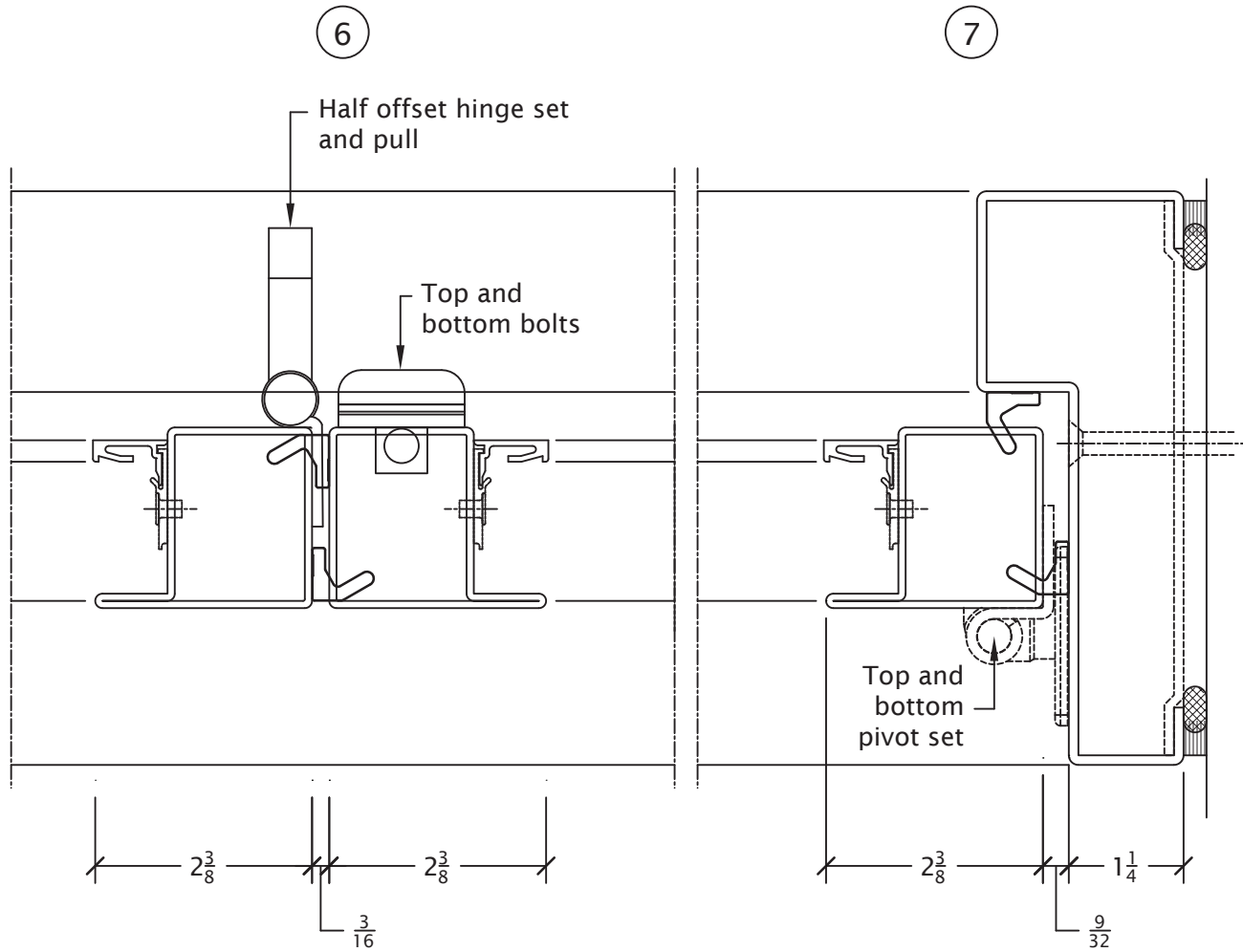
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



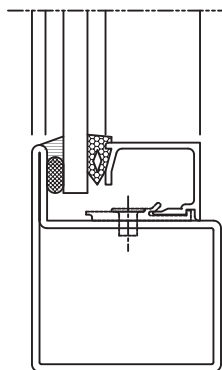
Details are half scale and shown inside glazed with 1" glass.
See page 7 for further glazing bead options.



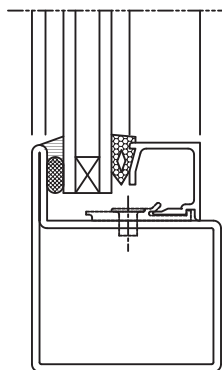
Details are half scale and shown inside glazed with 1" glass.
See page 7 for further glazing bead options.



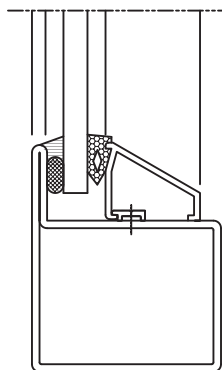
Details are half scale and shown inside glazed with 1" glass.
See page 7 for further glazing bead options.



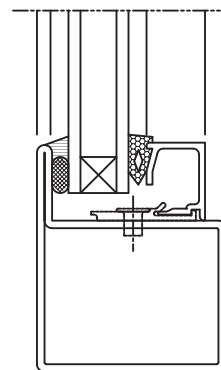
1/4" GLASS
#350 BEAD



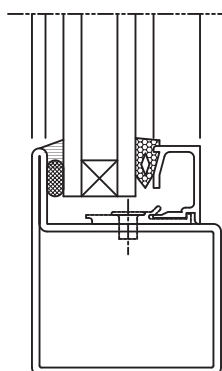
1/2" GLASS
#352 BEAD



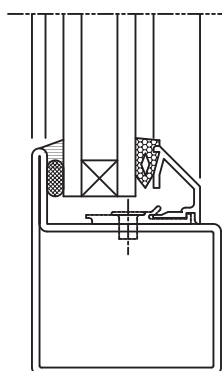
1/4" GLASS
#360 BEAD



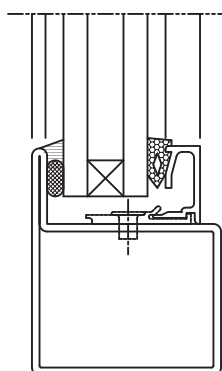
5/8" GLASS
#45 BEAD



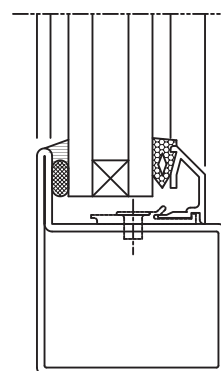
3/4" GLASS
#355 BEAD



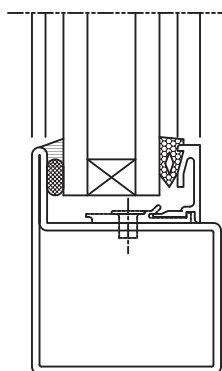
3/4" GLASS
#356 BEAD



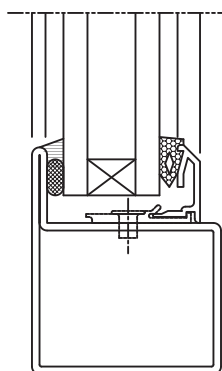
7/8" GLASS
#46 BEAD



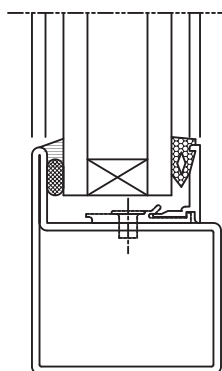
7/8" GLASS
#357 BEAD



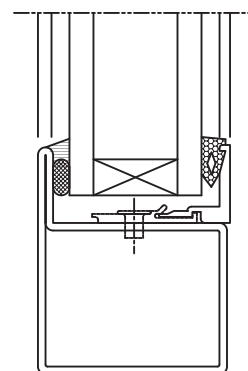
1" GLASS
#47 BEAD



1" GLASS
#247 BEAD



1-1/8" GLASS
#48 BEAD



1-3/8" GLASS
#49 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.

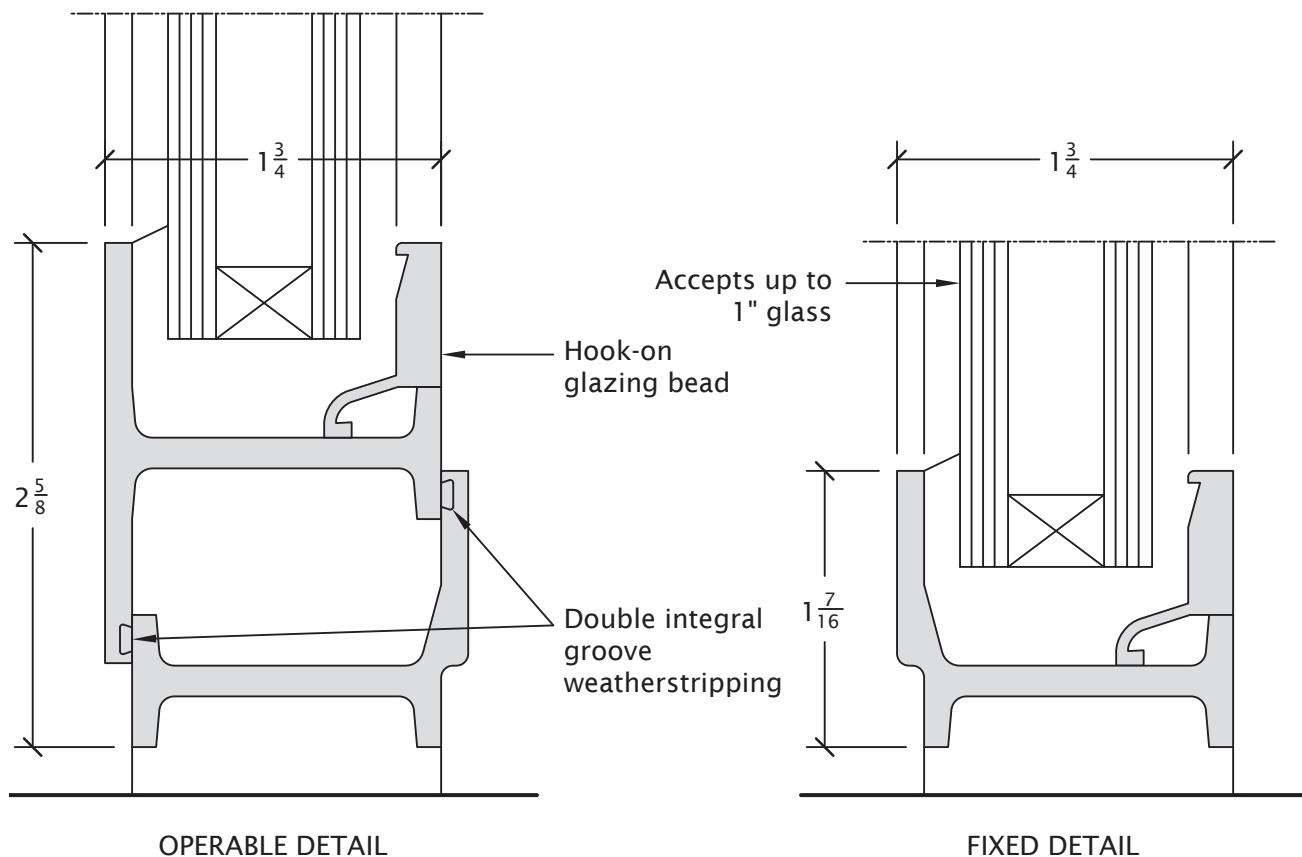
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

Hope's Empire Bronze windows offer the ageless beauty of solid bronze with the elegant sightlines, durability and meticulous manufacturing techniques synonymous with all Hope's products.

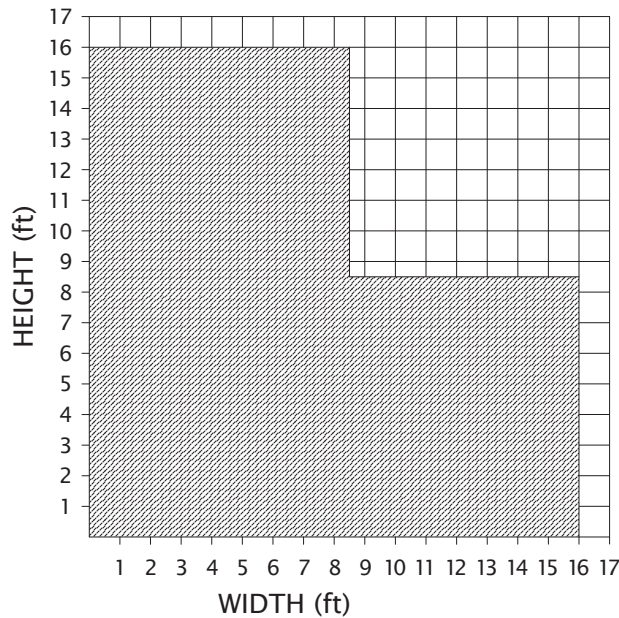
PRODUCT FEATURES

- Manufactured from architectural bronze alloy 385
- Welded and gusset reinforced corners and muntin intersections
- Accepts up to 1" thick insulating glass
- Double integral groove weatherstripping
- Hook-on glazing beads
- Solid brass or bronze hardware
- A variety of finishes available — consult Hope's for details

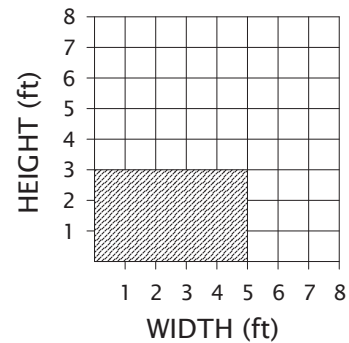


Details are full scale.

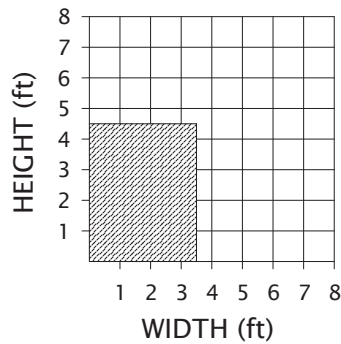
FIXED WINDOWS



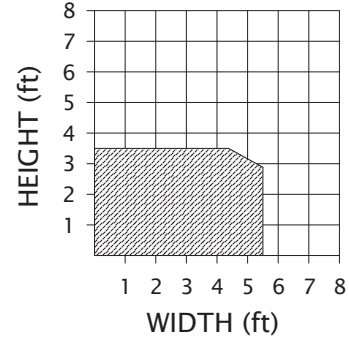
PROJECT-IN VENTILATORS



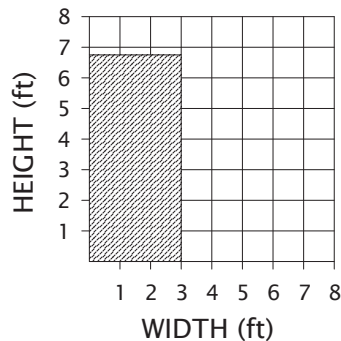
PROJECT-OUT VENTILATORS



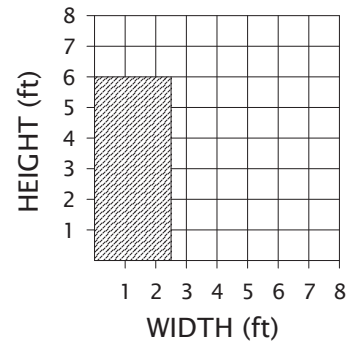
MOTORIZED OPERATOR



CASEMENT VENTILATORS

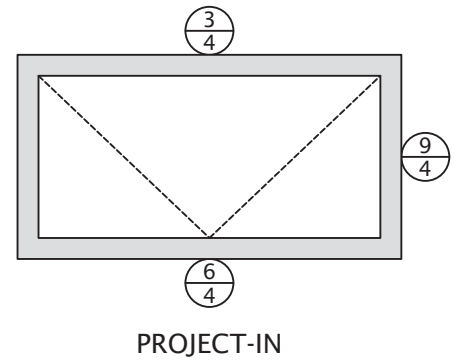
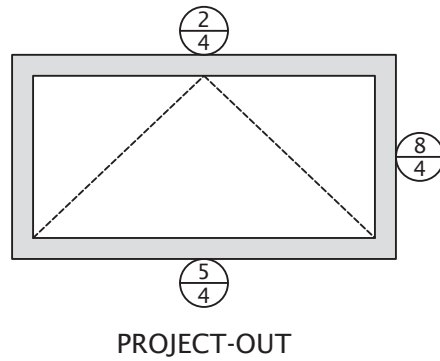
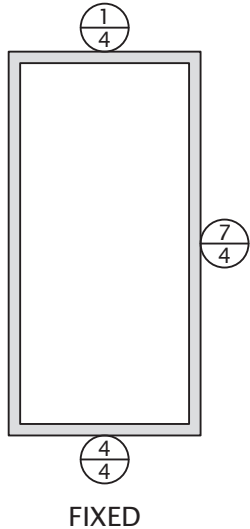


ROTO OPERATOR

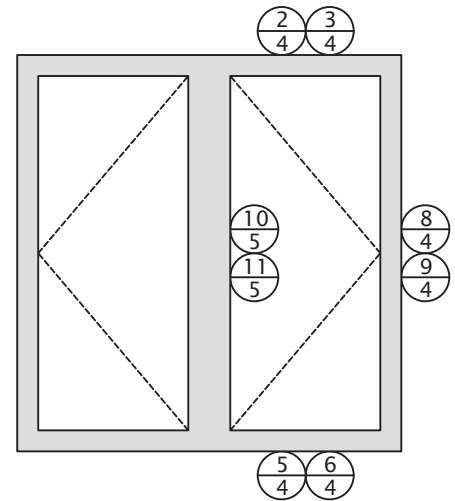
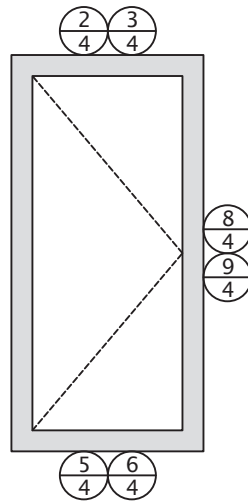
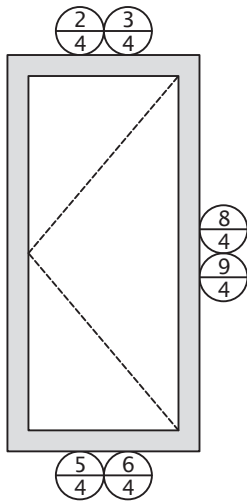


NOTE: Casements over 60" tall
limited to 20° opening

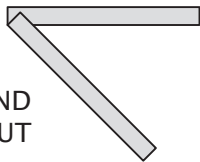
Size based on 1" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



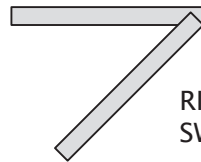
SIDE HUNG-OUT / SIDE HUNG-IN CASEMENT



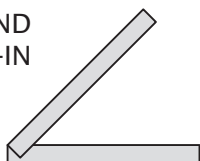
LEFT HAND
SWING-OUT



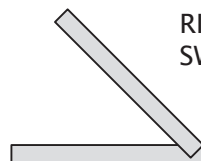
RIGHT HAND
SWING-OUT



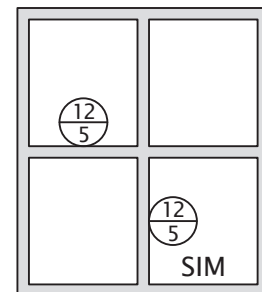
LEFT HAND
SWING-IN



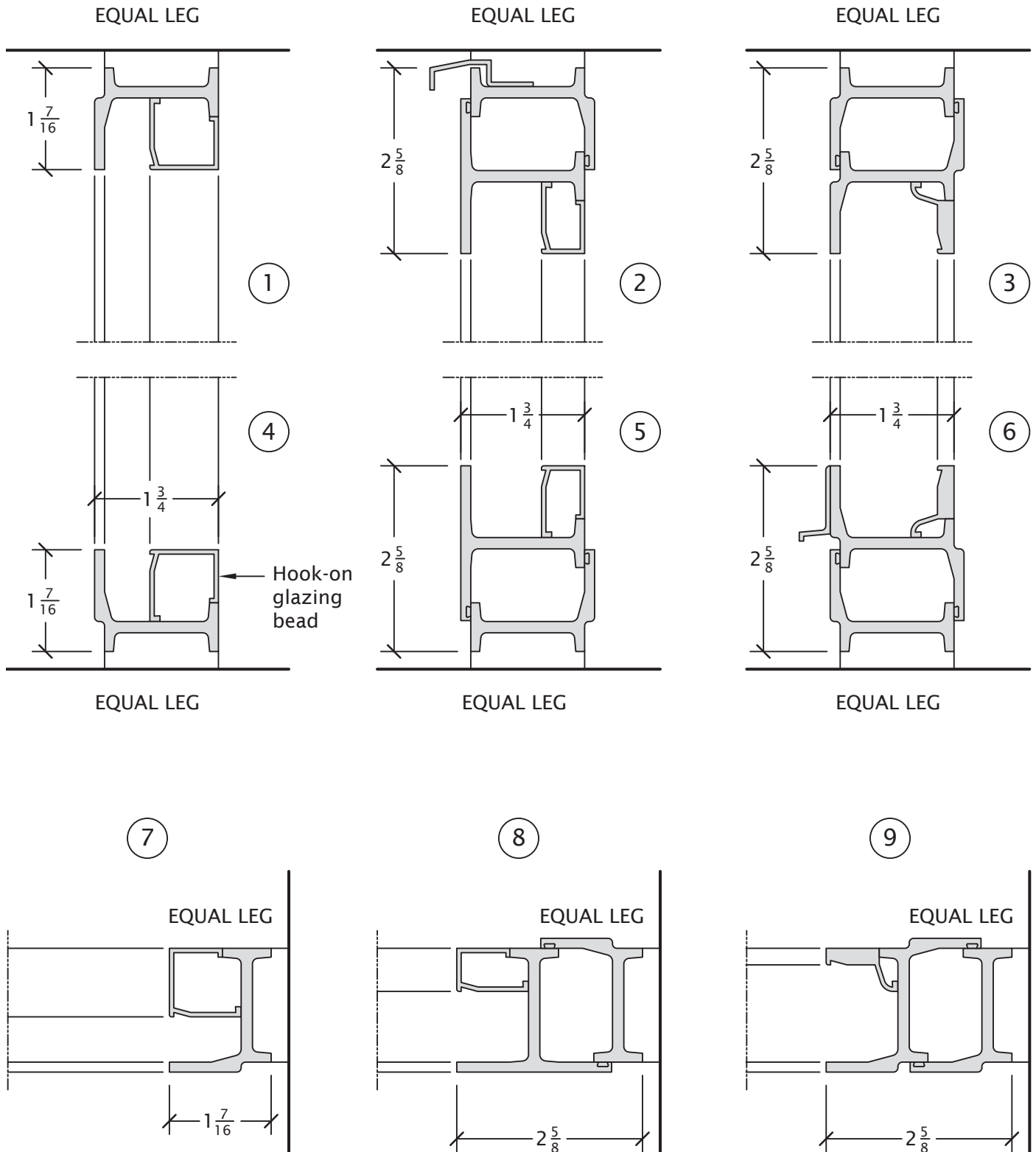
RIGHT HAND
SWING-IN



TRUE DIVIDED
LITES (TDL)



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All Hope's products are custom manufactured for your specific project requirements.

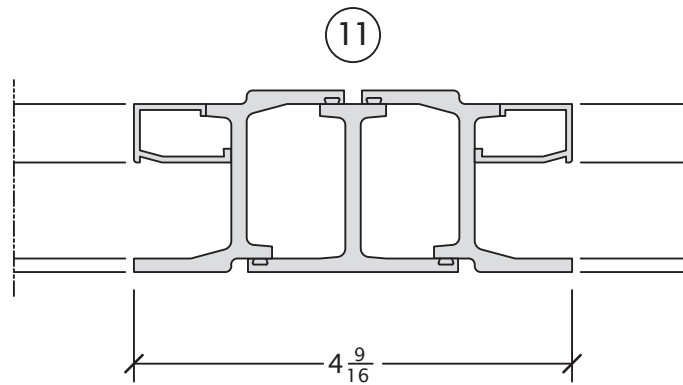
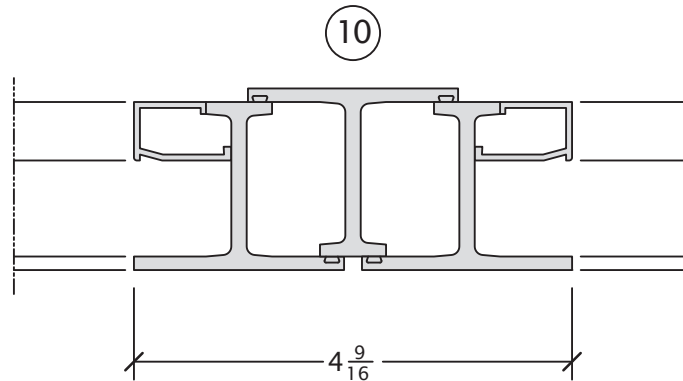


Details are half scale and shown inside glazed with 1/4", 5/8" and 1" glass.
See page 6 for further glazing bead options.

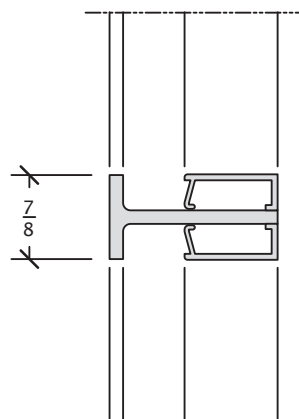
HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

Fixed, Projected and Casement Bronze Window
Details and Muntins

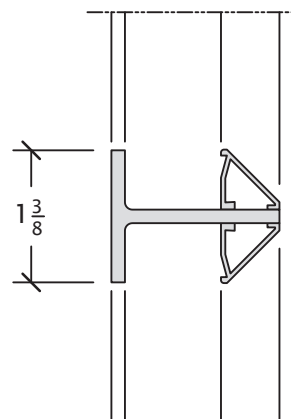
MEETING RAILS



TRUE DIVIDED LITE MUNTINS



#BZT875L
ACCEPTS 1/4" GLASS
ONLY

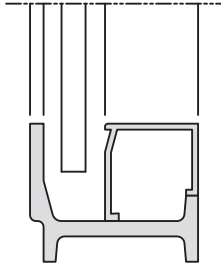


#BZT138L
ACCEPTS UP TO
3/4" INSULATING GLASS

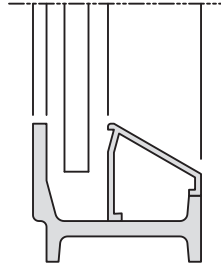
Details are half scale and shown inside glazed with 1/4" and 5/8" glass.
See page 6 for further glazing bead options.

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

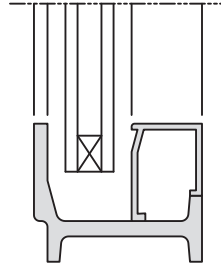
Fixed, Projected and Casement Bronze Window
Glazing Beads



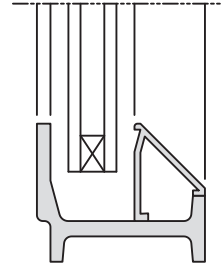
1/4" GLASS
#BZ306 BEAD



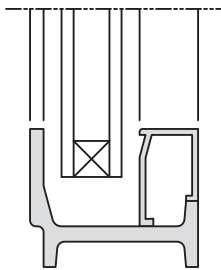
1/4" GLASS
#BZ307 BEAD



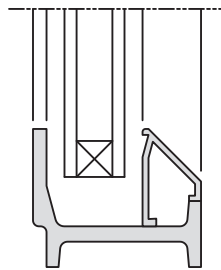
1/2" GLASS
#BZ308 BEAD



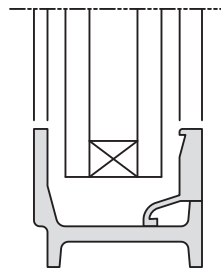
1/2" GLASS
#BZ309 BEAD



5/8" GLASS
#BZ294 BEAD



5/8" GLASS
#BZ296 BEAD



1" GLASS
#BZ298 BEAD

GLAZING BEAD NOTES

Hope's offers various types of glazing beads. Consult Hope's for other options.

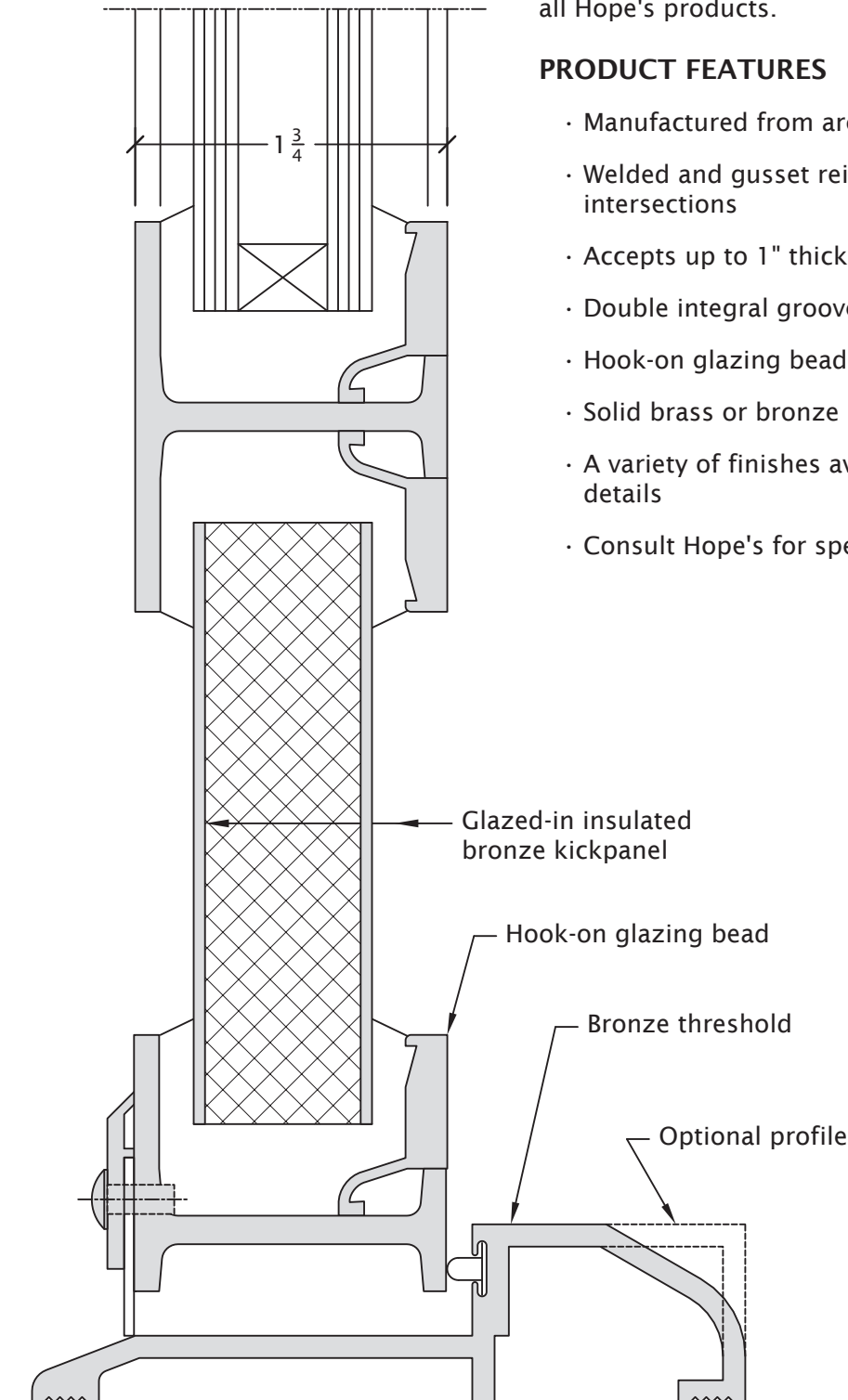
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

Hope's Empire Bronze doors offer the ageless beauty of solid bronze with the elegant sightlines, durability and meticulous manufacturing techniques synonymous with all Hope's products.

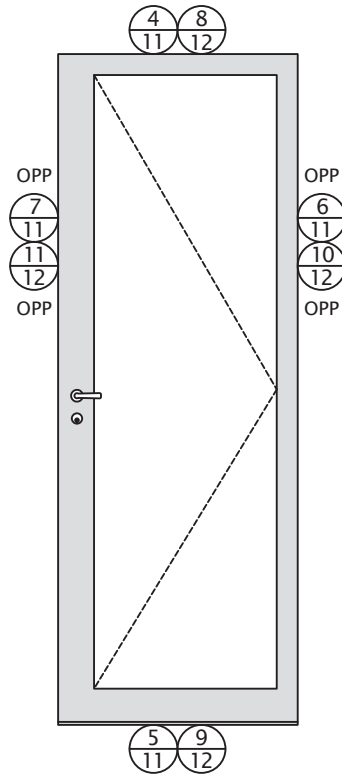
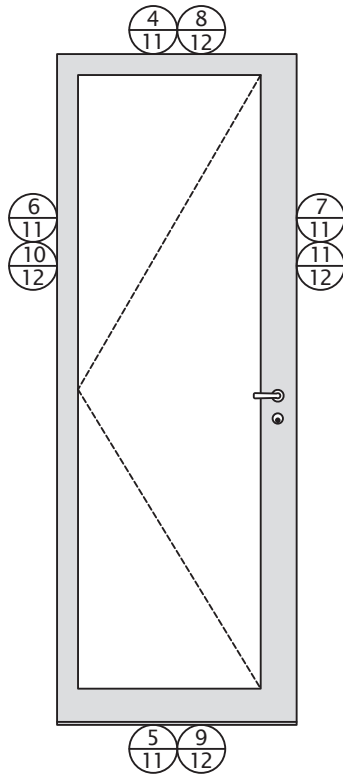
PRODUCT FEATURES

- Manufactured from architectural bronze alloy 385
- Welded and gusset reinforced corners and muntin intersections
- Accepts up to 1" thick insulating glass
- Double integral groove weatherstripping
- Hook-on glazing beads
- Solid brass or bronze hardware
- A variety of finishes available — consult Hope's for details
- Consult Hope's for special application bronze doors

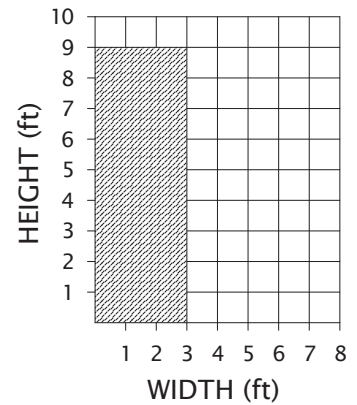


THRESHOLD DETAIL

Details are full scale.

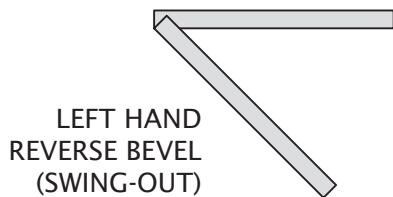


RECOMMENDED SIZES

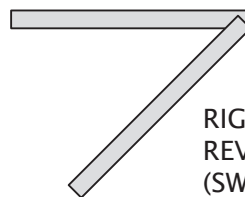


Size based on 1" insulating glass with 1/4" panes.

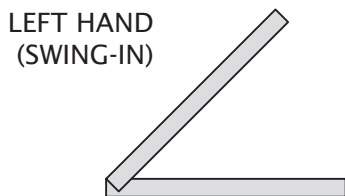
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



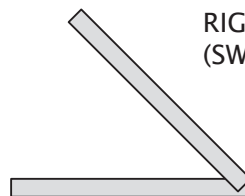
LEFT HAND
REVERSE BEVEL
(SWING-OUT)



RIGHT HAND
REVERSE BEVEL
(SWING-OUT)



LEFT HAND
(SWING-IN)

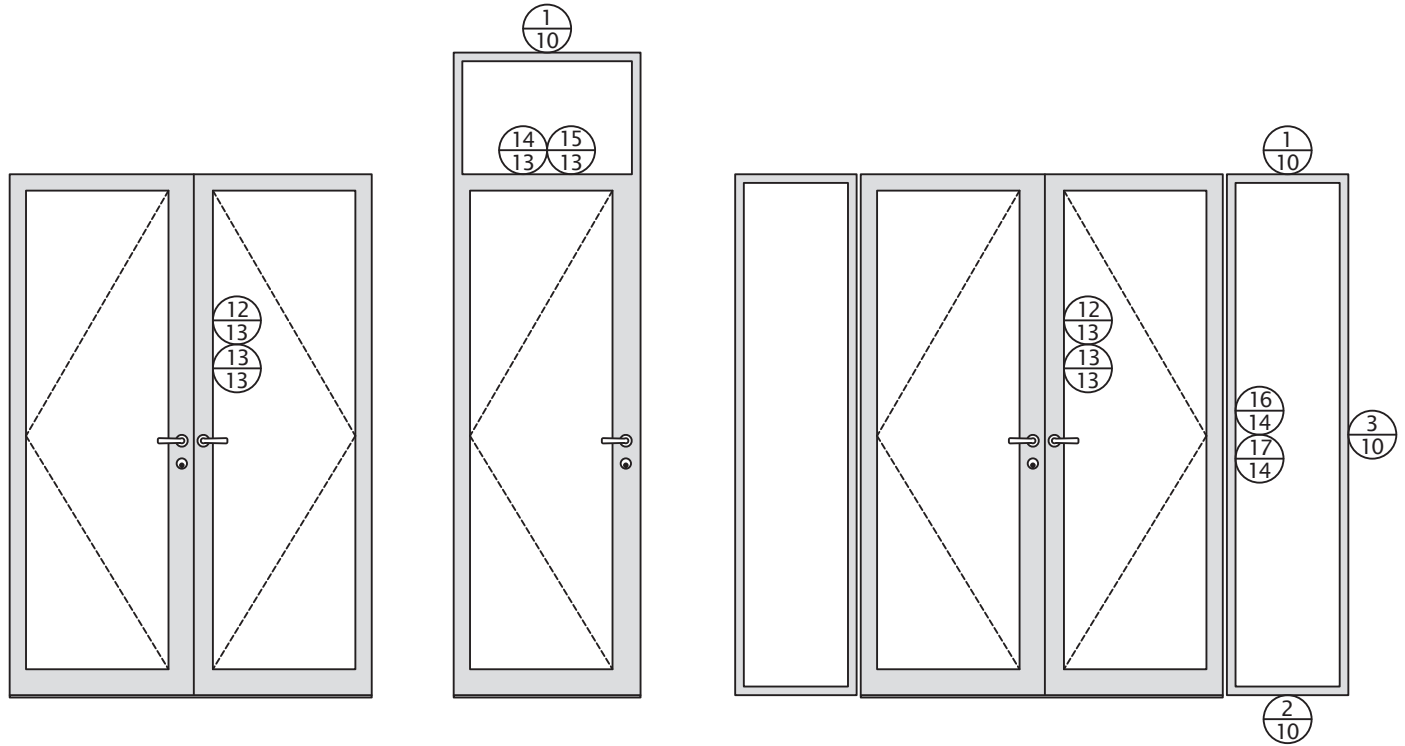


RIGHT HAND
(SWING-IN)

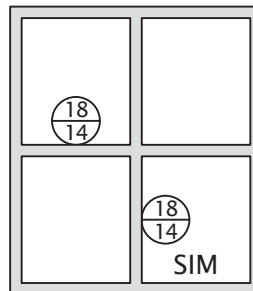
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

Swing Bronze Door
Sample Elevations



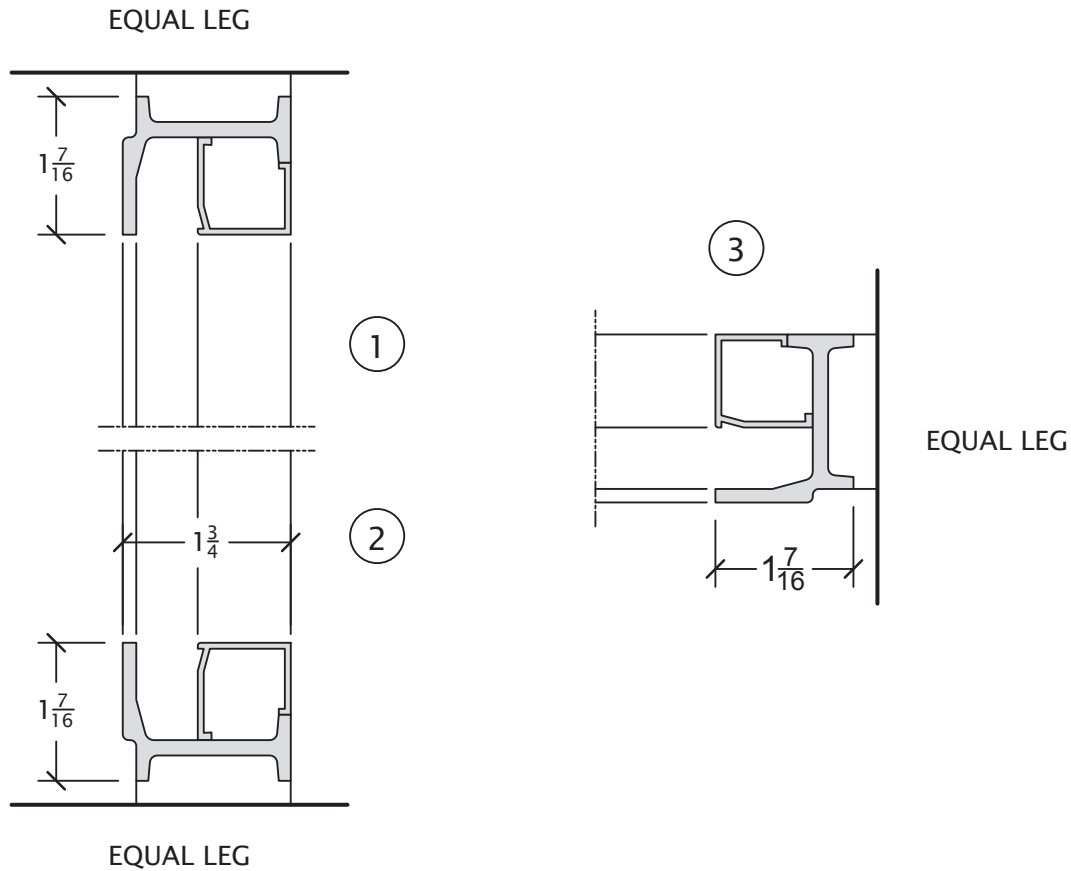
TRUE DIVIDED
LITES (TDL)



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

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

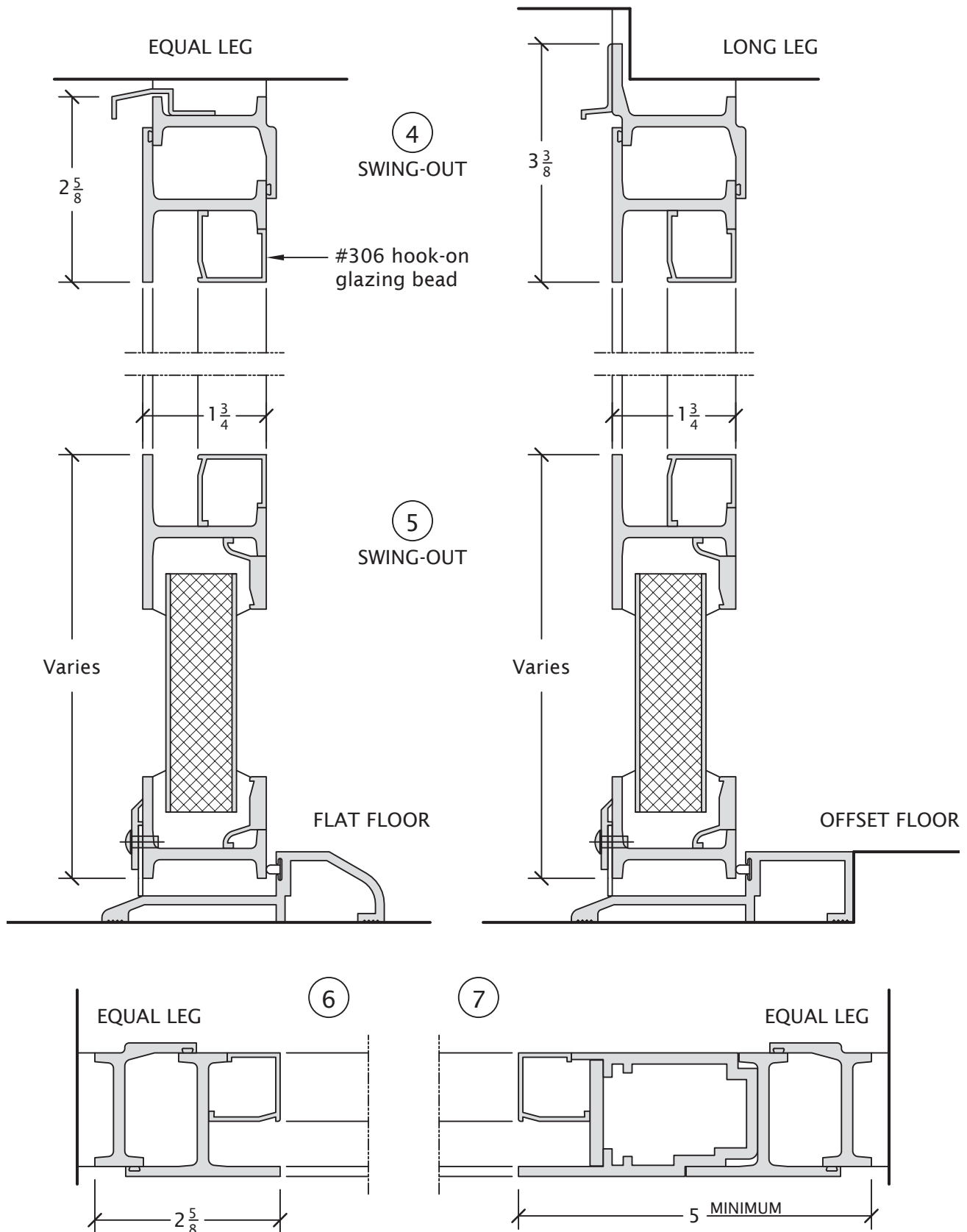
Swing Bronze Door
Details



Details are half scale and shown inside glazed with 1/4" glass.
See page 15 for further glazing bead options.

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

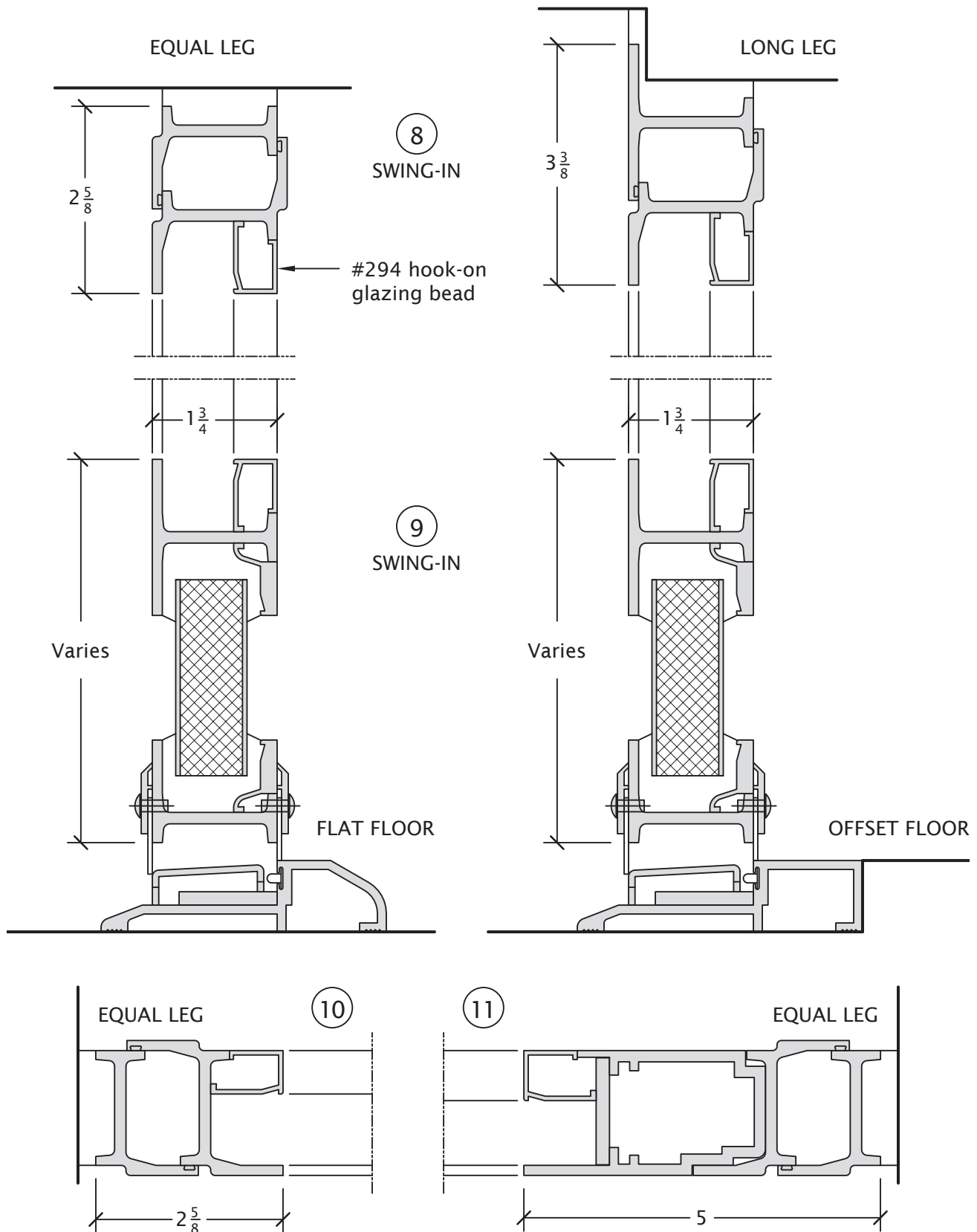
Swing Bronze Door
Details



Details are half scale and shown inside glazed with 1/4" glass.
See page 15 for further glazing bead options.

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

Swing Bronze Door
Details

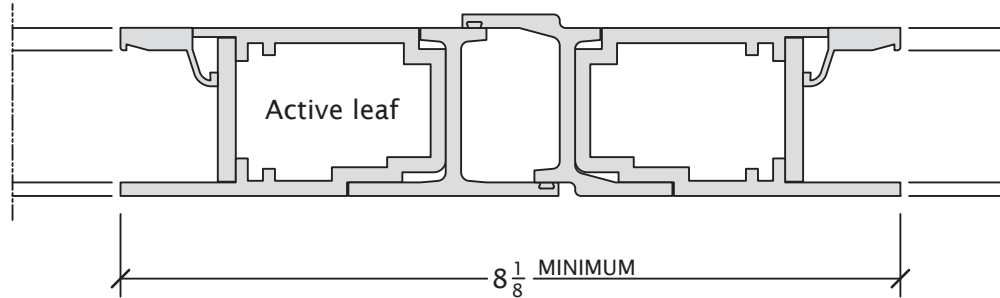


Details are half scale and shown inside glazed with 5/8" glass.
See page 15 for further glazing bead options.

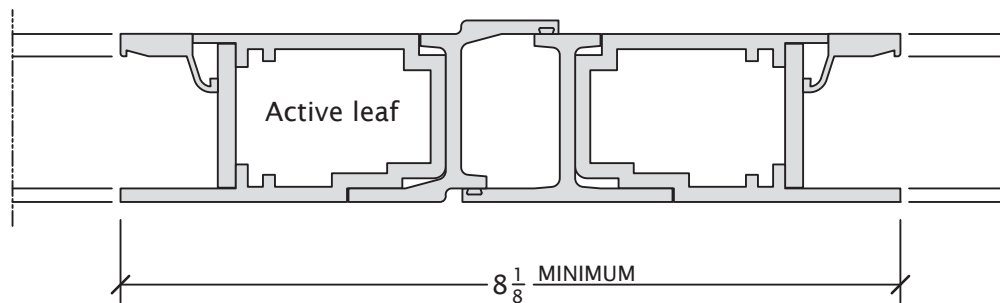
HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

Swing Bronze Door
Details

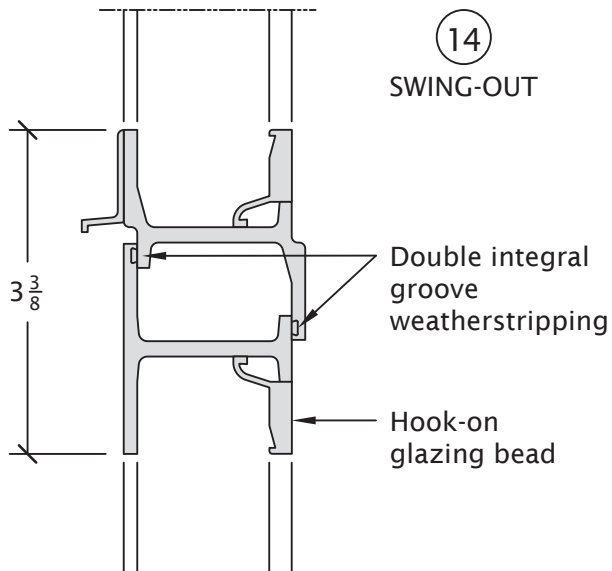
⑫
SWING-OUT



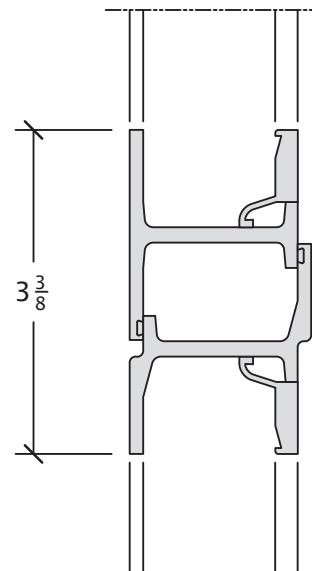
⑬
SWING-IN



⑭
SWING-OUT



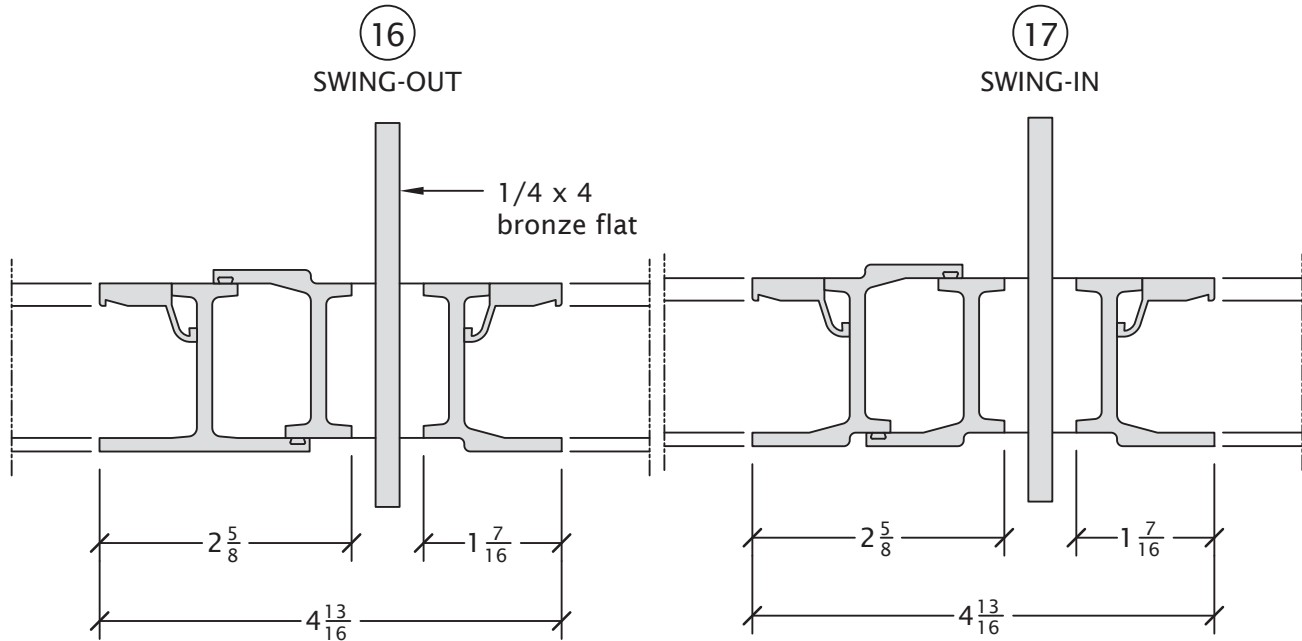
⑮
SWING-IN



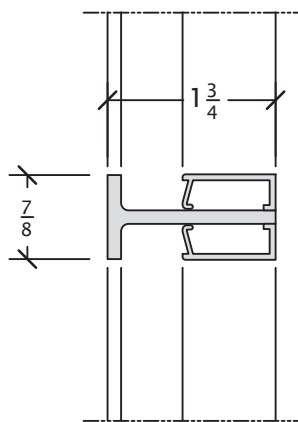
Details are half scale and shown inside glazed with 1" glass.
See page 15 for further glazing bead options.

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

Swing Bronze Door
Details

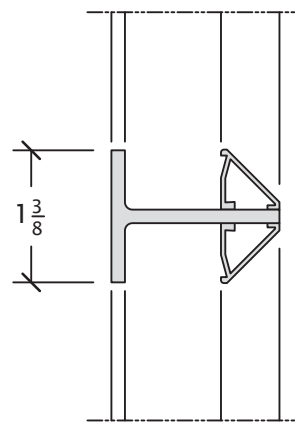


TRUE DIVIDED LITE MUNTINS



#BZT875L
ACCEPTS $\frac{1}{4}$ " GLASS
ONLY

(18) ALL MUNTIN DETAILS

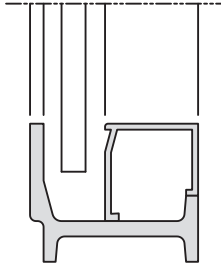


#BZT138L
ACCEPTS UP TO
 $\frac{3}{4}$ " INSULATING GLASS

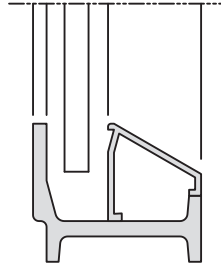
Details are half scale and shown inside glazed with 1" glass.
See page 15 for further glazing bead options.

HOPE'S® EMPIRE BRONZE™ JAMESTOWN175™ SERIES

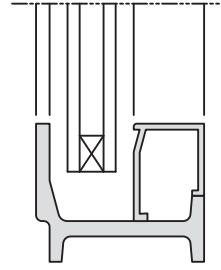
Swing Bronze Door
Glazing Beads



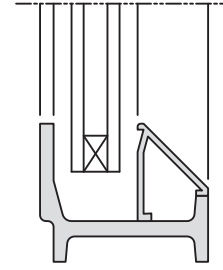
1/4" GLASS
#BZ306 BEAD



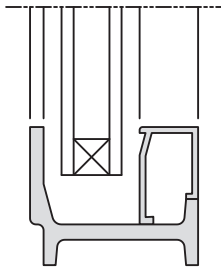
1/4" GLASS
#BZ307 BEAD



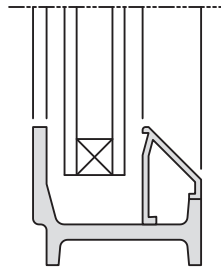
1/2" GLASS
#BZ308 BEAD



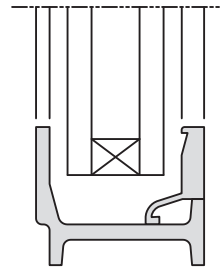
1/2" GLASS
#BZ309 BEAD



5/8" GLASS
#BZ294 BEAD



5/8" GLASS
#BZ296 BEAD



1" GLASS
#BZ298 BEAD

GLAZING BEAD NOTES

Hope's offers various types of glazing beads. 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.

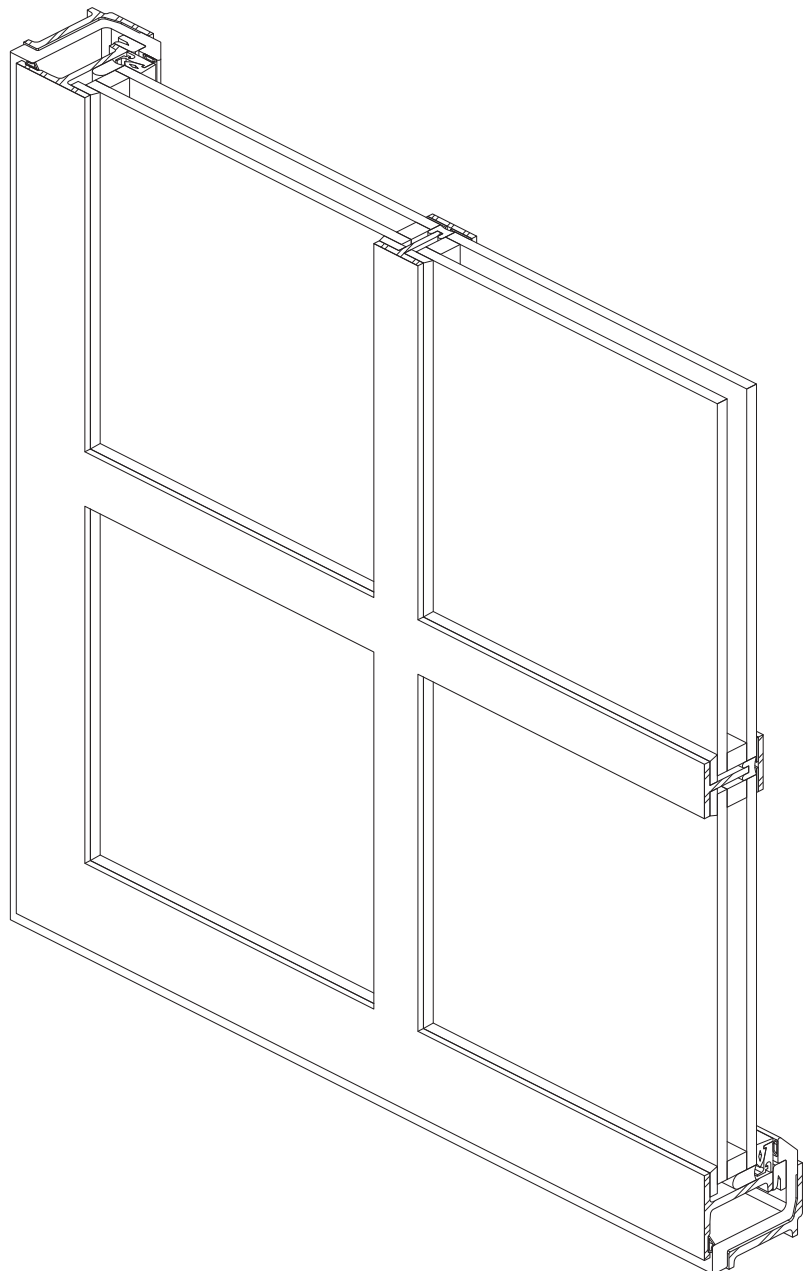
INTENTIONALLY LEFT BLANK

Hope's hot-rolled steel windows are synonymous with elegance, precision manufacturing and impeccable performance. With Hope's **Thermal Evolution™ Technology**, we continue to maintain all the proven characteristics of traditional fully welded solid hot-rolled steel windows and that of old-world craftsmanship. All the intrinsic strengths of solid hot-rolled steel are maintained along with enhanced thermal efficiency exceeding the most stringent thermal codes.

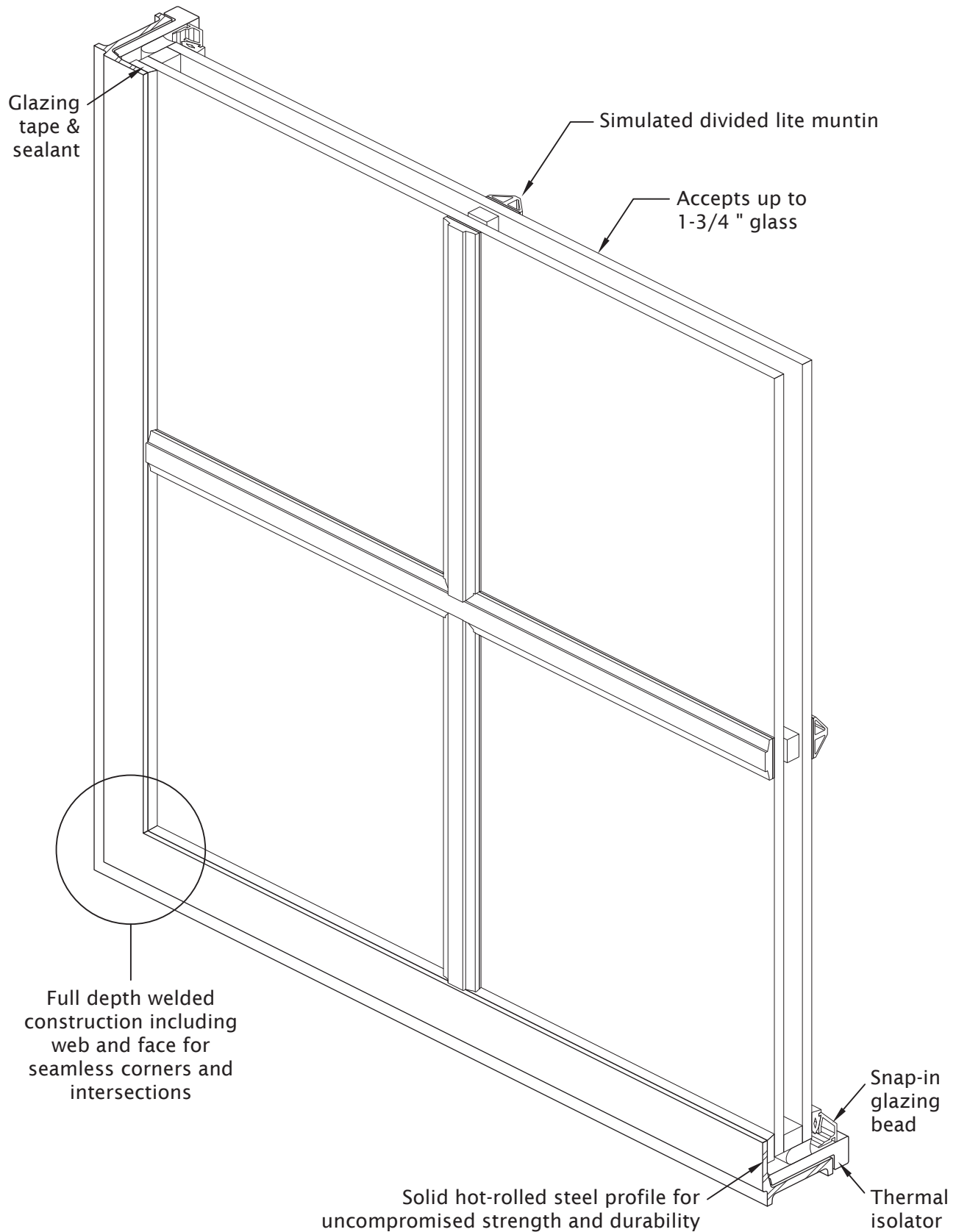
Hope's Landmark175™ Series thermal steel window design, U.S. Patent No. 8484902 for operable windows.

PRODUCT FEATURES

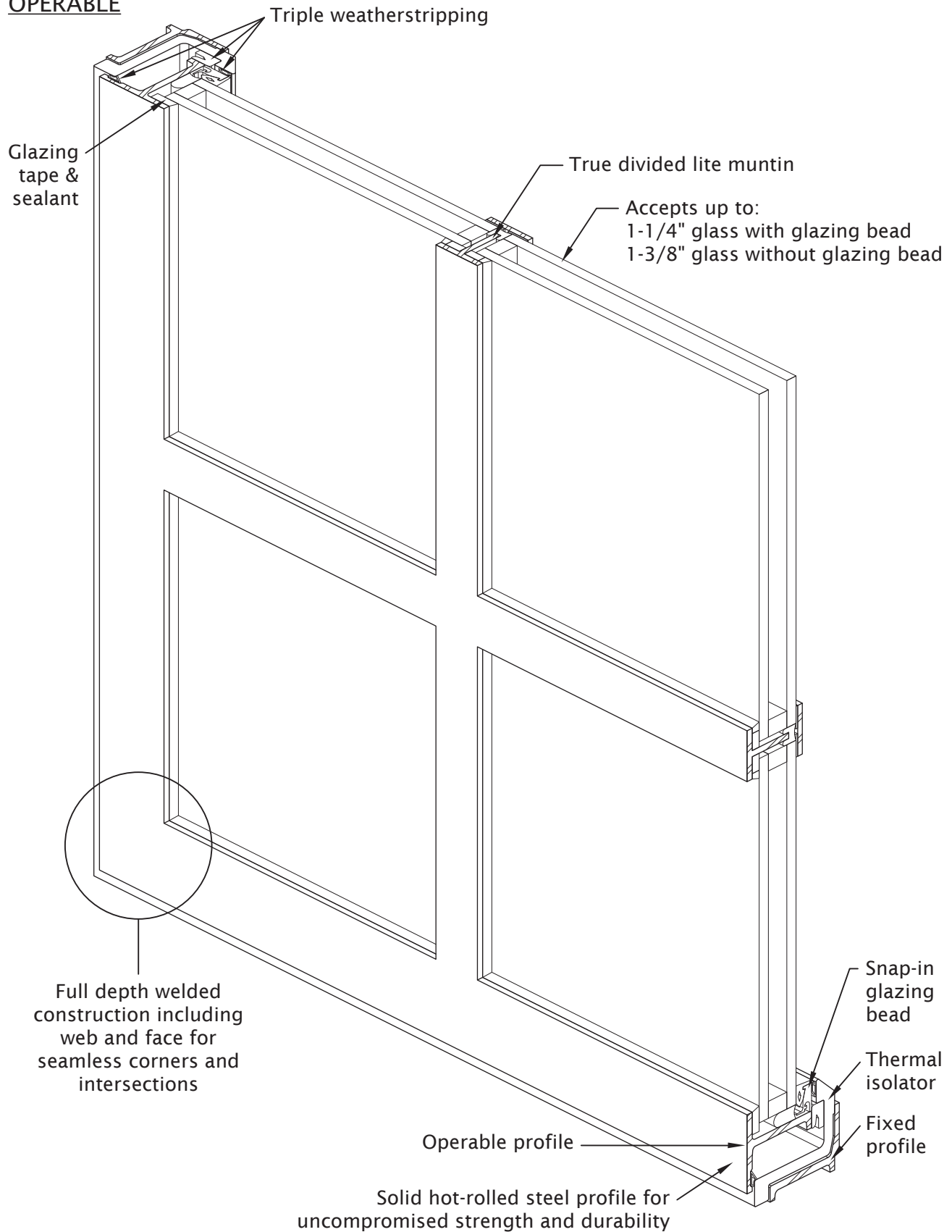
- Strength and life cycle of solid hot-rolled steel profiles
- Thermal break
- Thermal Evolution™ Technology - U-values tested to as low as **0.210** for fixed windows and **0.310** for casement windows
- NFRC certified for thermal performance
- Fully welded construction (including web and face)
- Narrow sightlines
- Fixed windows accept up to 1-3/4" thick insulating glass
- Casement windows accept up to 1-3/8" thick insulating glass
- ASTM tested for Air, Water and Structural
- Hope's Power of 5 Finishing System
- Hope's Signature Collection solid brass hardware



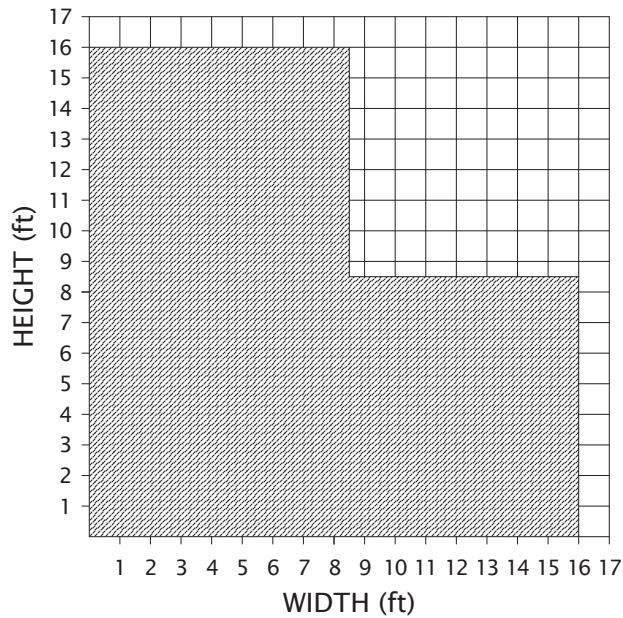
FIXED



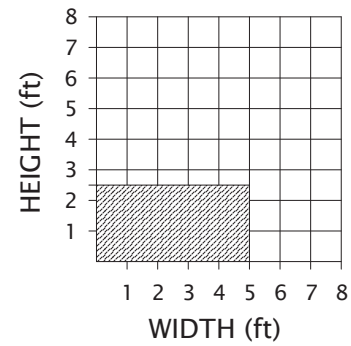
OPERABLE



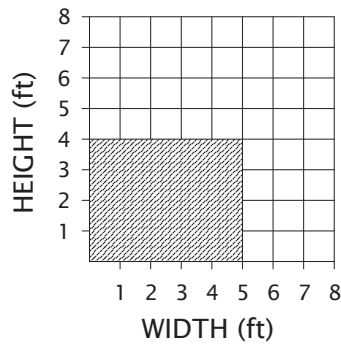
FIXED WINDOWS



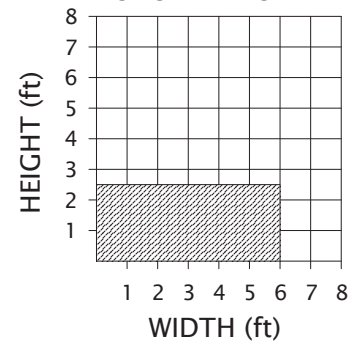
PROJECT-IN VENTILATORS



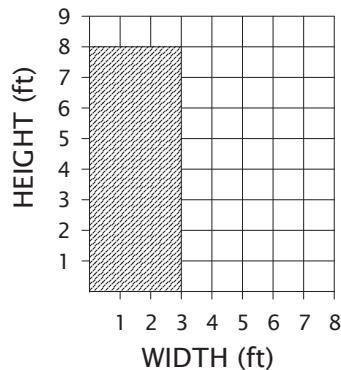
PROJECT-OUT VENTILATORS



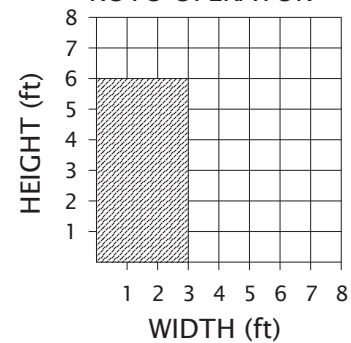
MOTORIZED OPERATOR



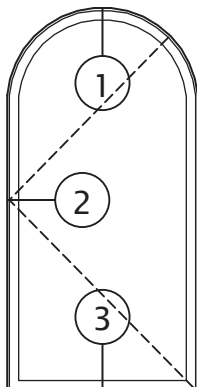
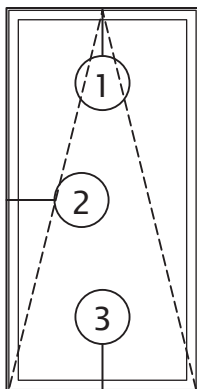
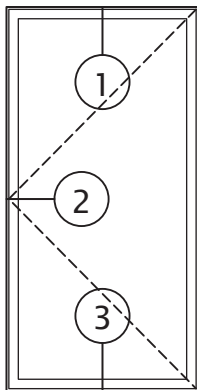
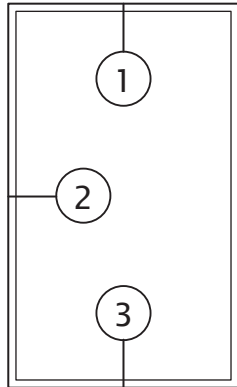
CASEMENT VENTILATORS



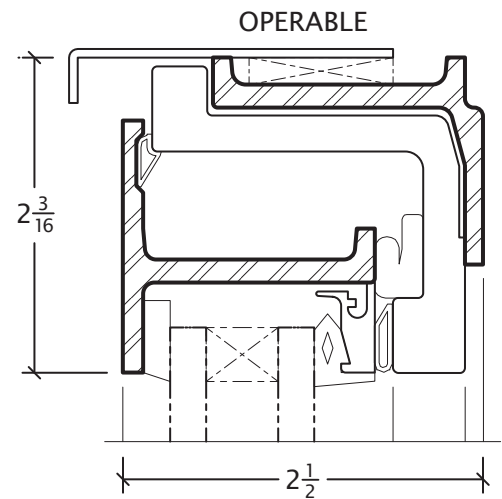
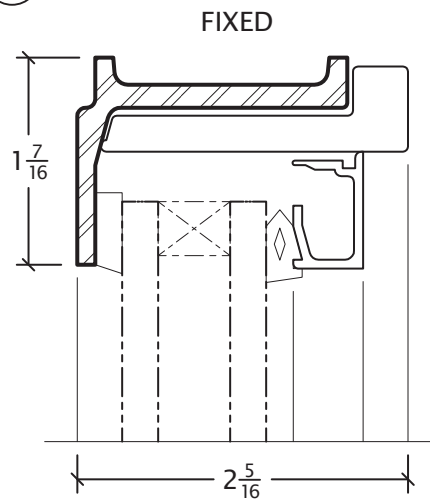
ROTO OPERATOR



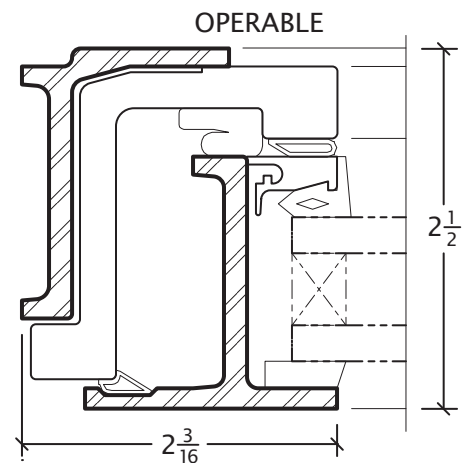
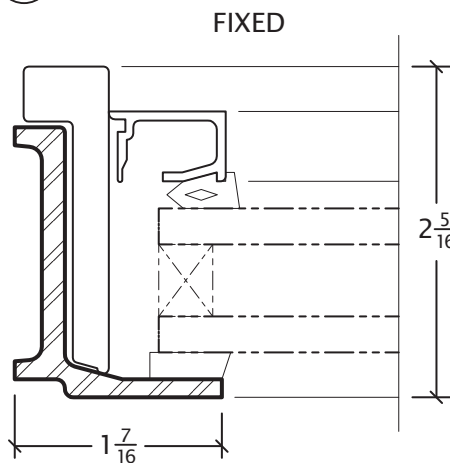
Size based on 1" insulating glass with 1/4" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



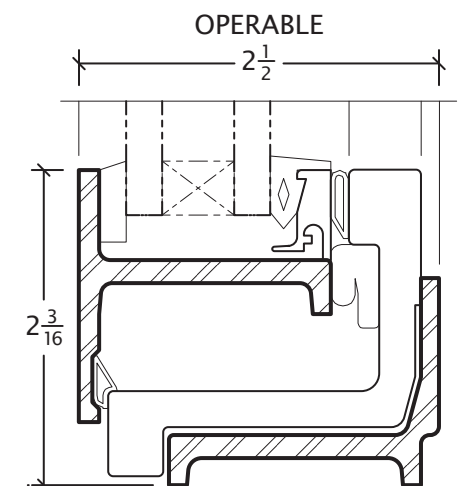
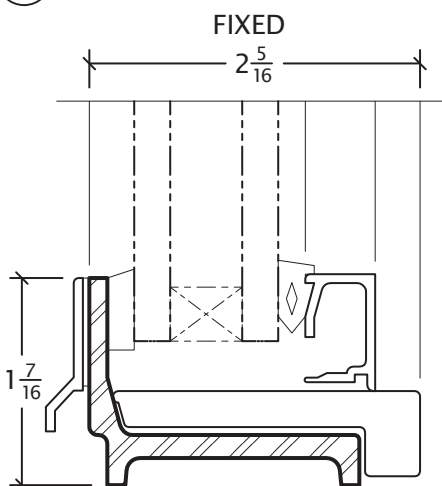
1 HEAD



2 JAMB

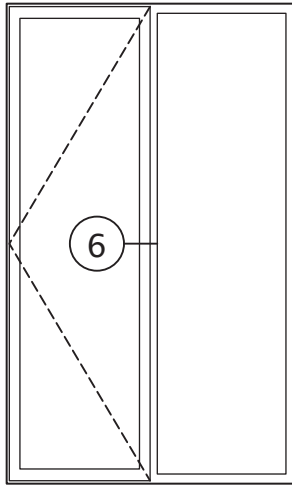


3 SILL

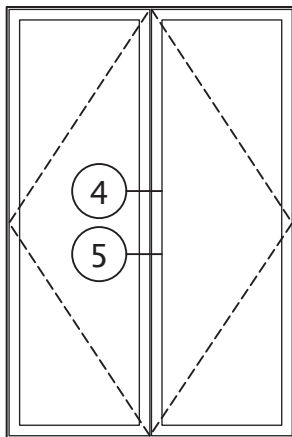
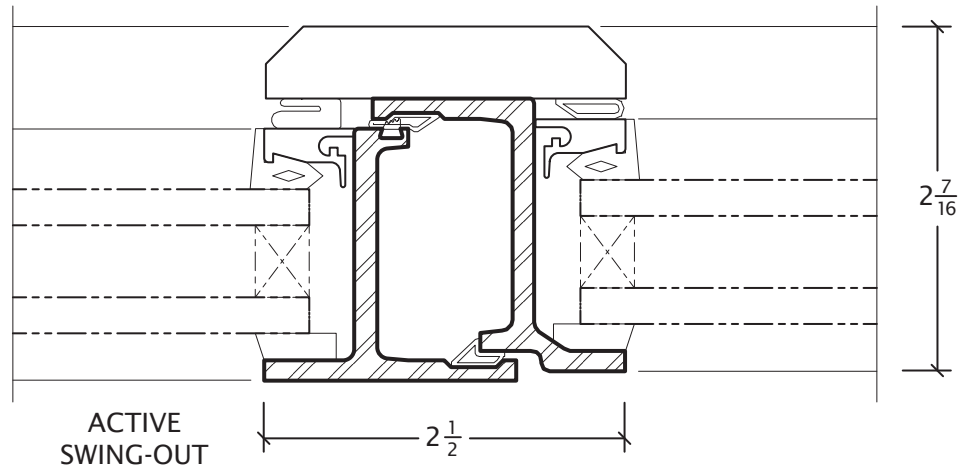


Details are 3/4 scale.

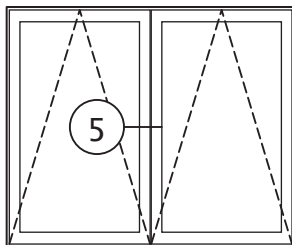
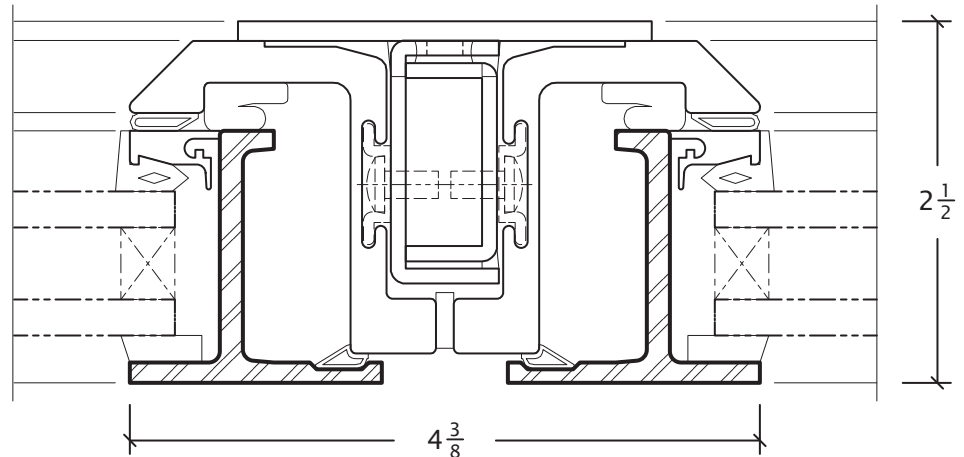
All Hope's products are custom manufactured to your specific project requirements.



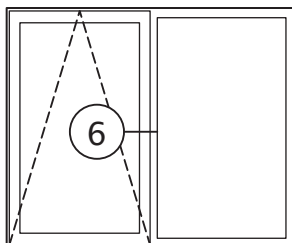
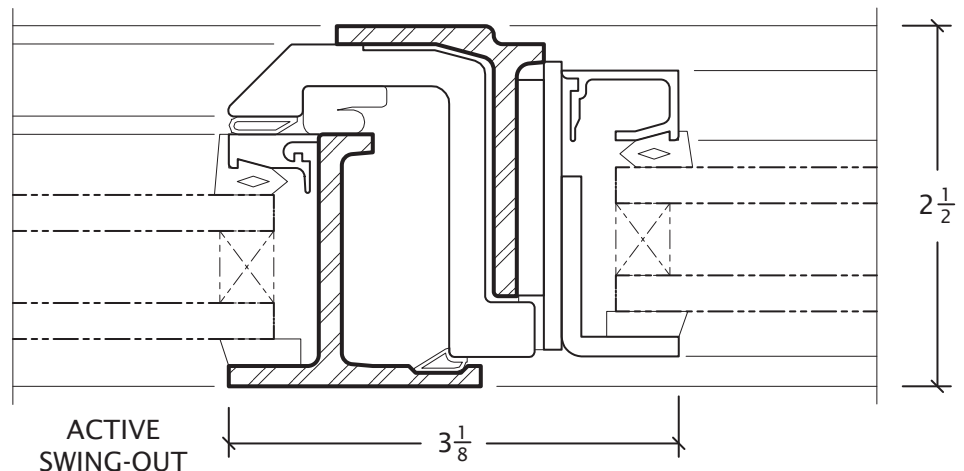
④ DOUBLE FOLDING VERTICAL MEETING RAIL



⑤ DOUBLE OPERABLE VERTICAL MEETING RAIL

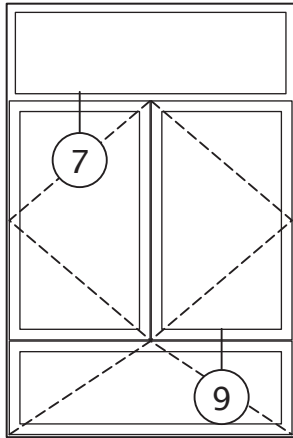


⑥ SINGLE OPERABLE VERTICAL MEETING RAIL

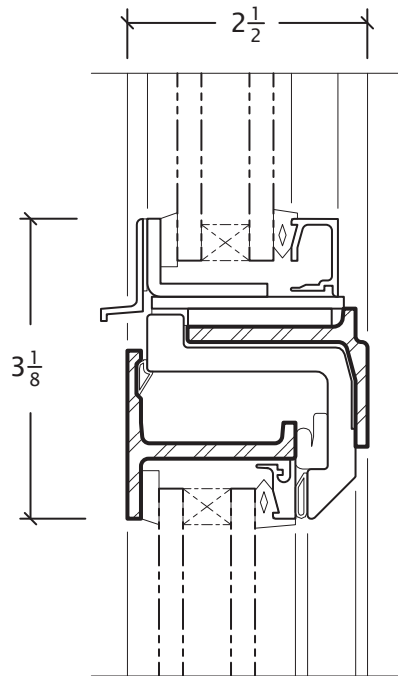


Details are 3/4 scale.

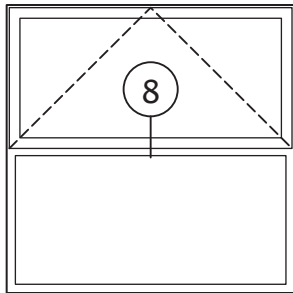
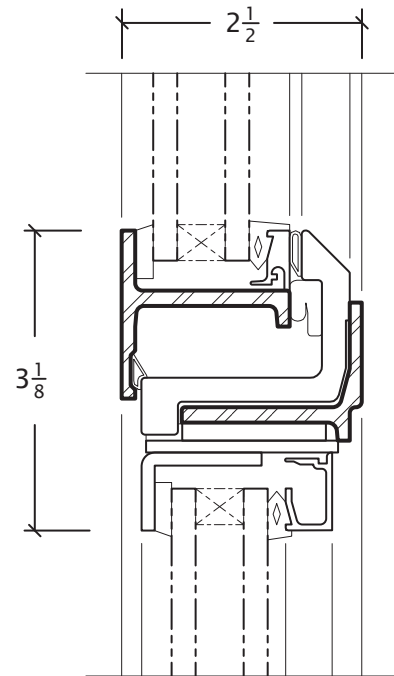
All Hope's products are custom manufactured to your specific project requirements.



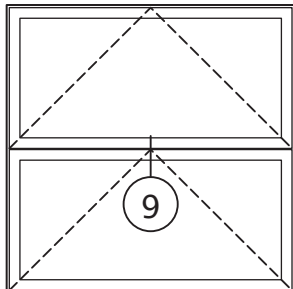
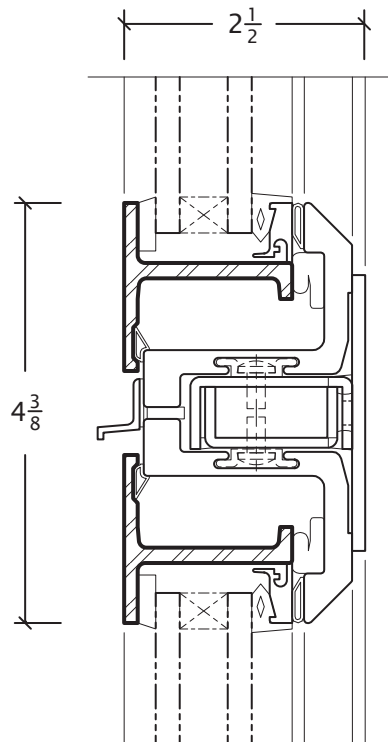
⑦ FIXED ABOVE OPERABLE
HORIZONTAL RAIL



⑧ OPERABLE ABOVE FIXED
HORIZONTAL RAIL

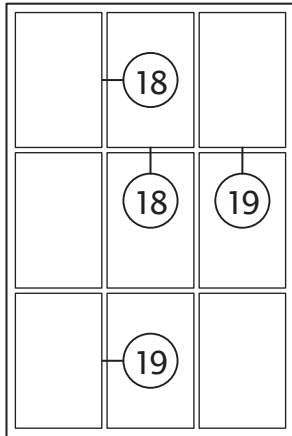


⑨ DOUBLE OPERABLE HORIZONTAL RAIL

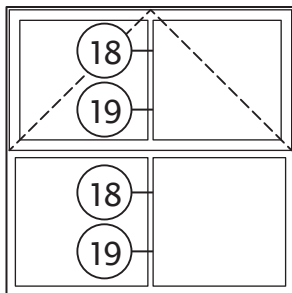
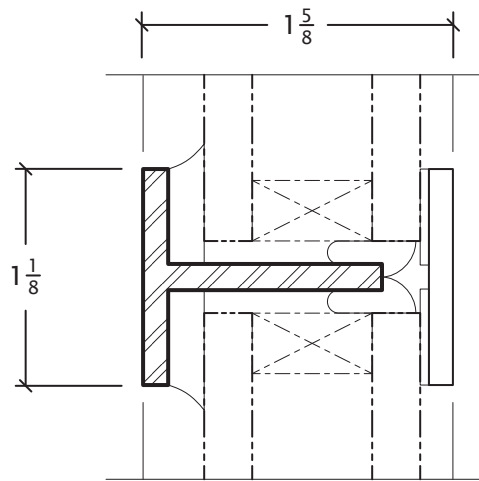


Details are half scale.

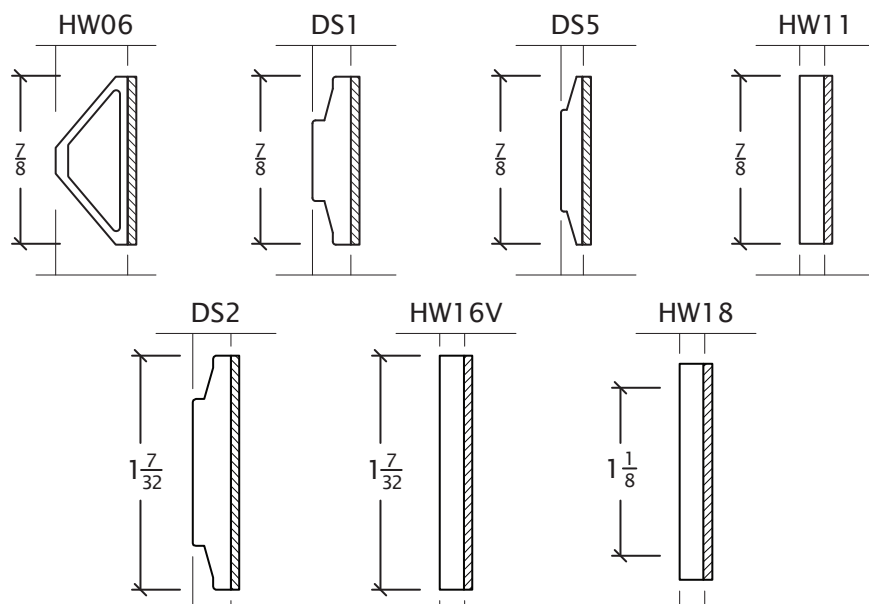
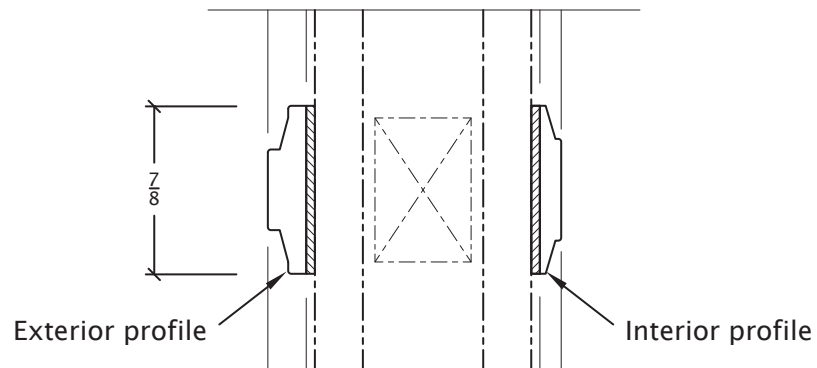
All Hope's products are custom manufactured to your specific project requirements.



18 TRUE DIVIDED LITE MUNTIN PROFILE



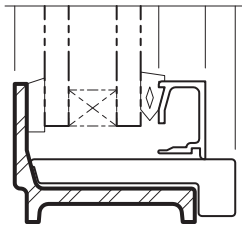
19 SIMULATED DIVIDED LITE MUNTIN PROFILES



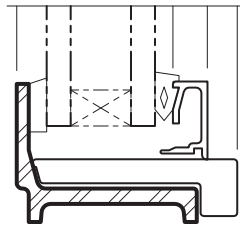
Details are full scale.

All Hope's products are custom manufactured to your specific project requirements.

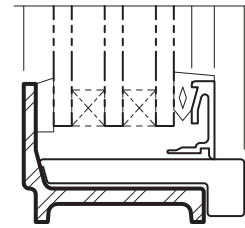
FIXED GLAZING BEAD OPTIONS



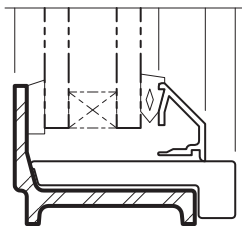
1" GLASS
#355 SQUARE BEAD



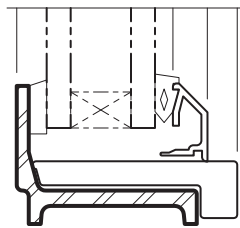
1-1/8" GLASS
#46 SQUARE BEAD



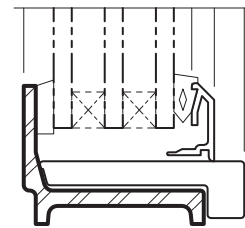
1-1/4" GLASS
#47 SQUARE BEAD



1" GLASS
#356 SLOPED BEAD

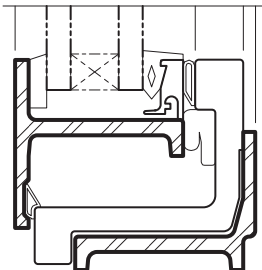


1-1/8" GLASS
#357 SLOPED BEAD

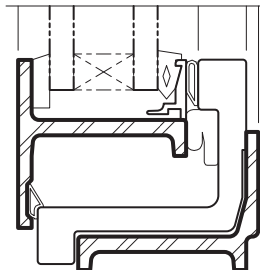


1-1/4" GLASS
#247 SLOPED BEAD

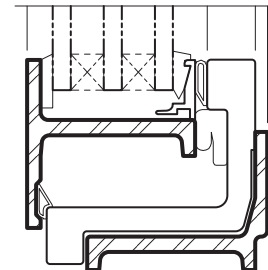
OPERABLE GLAZING BEAD OPTIONS



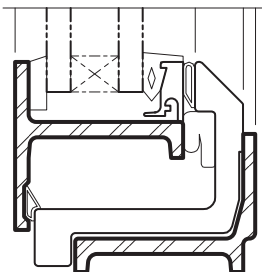
1" GLASS
SQUARE PROFILE
#42 BEAD



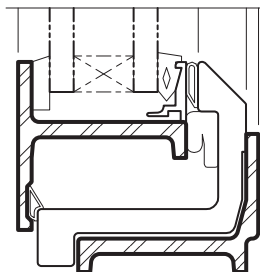
1-1/8" GLASS
SQUARE PROFILE
#24112-1 BEAD



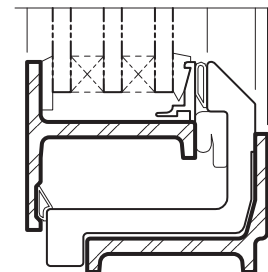
1-1/4" GLASS
SQUARE PROFILE
#24112-1 BEAD



1" GLASS
SLOPED PROFILE
#42 BEAD



1-1/8" GLASS
SLOPED PROFILE
#24112-1 BEAD



1-1/4" GLASS
SLOPED PROFILE
#24112-1 BEAD

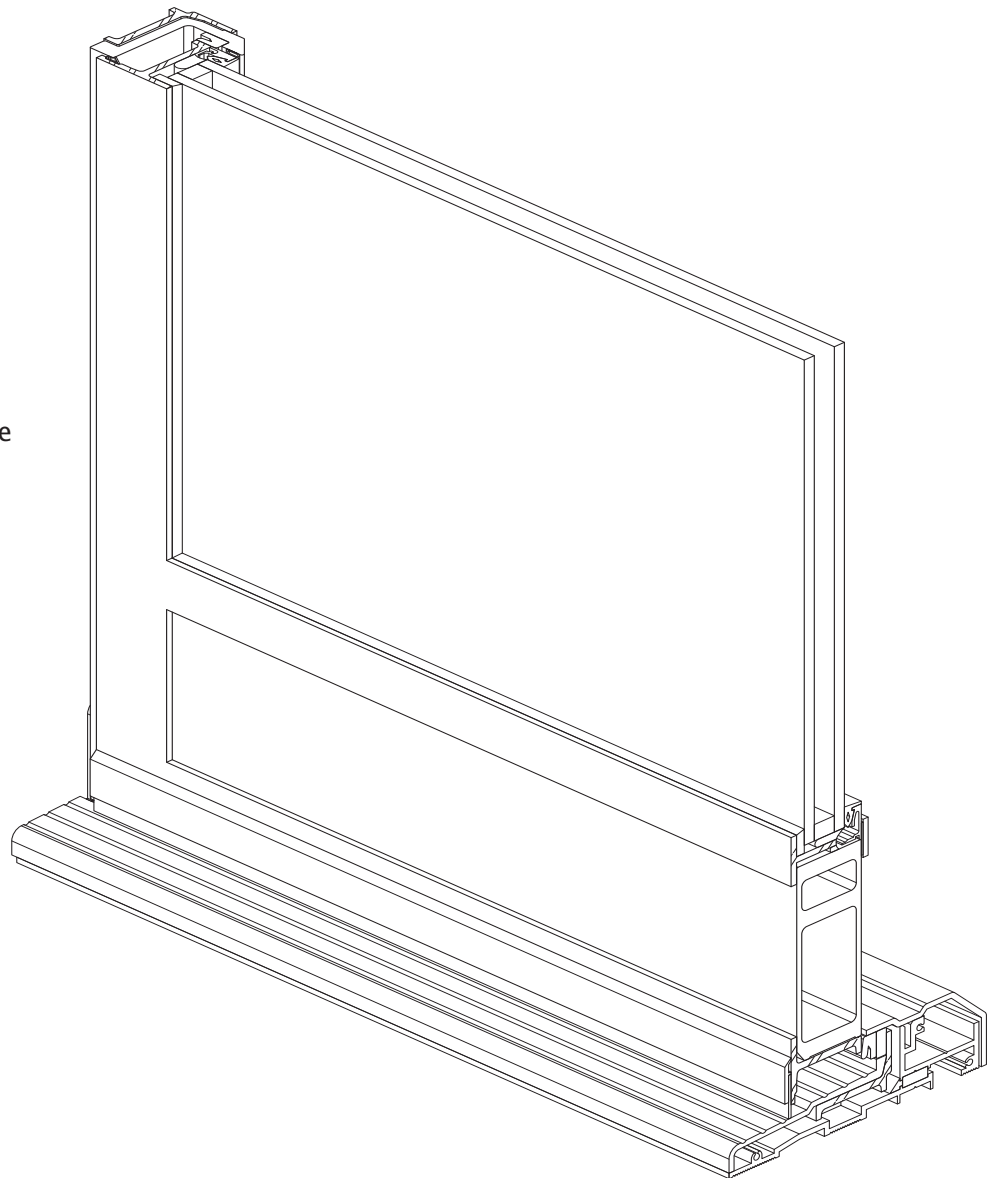
Details are half scale and shown inside glazed.

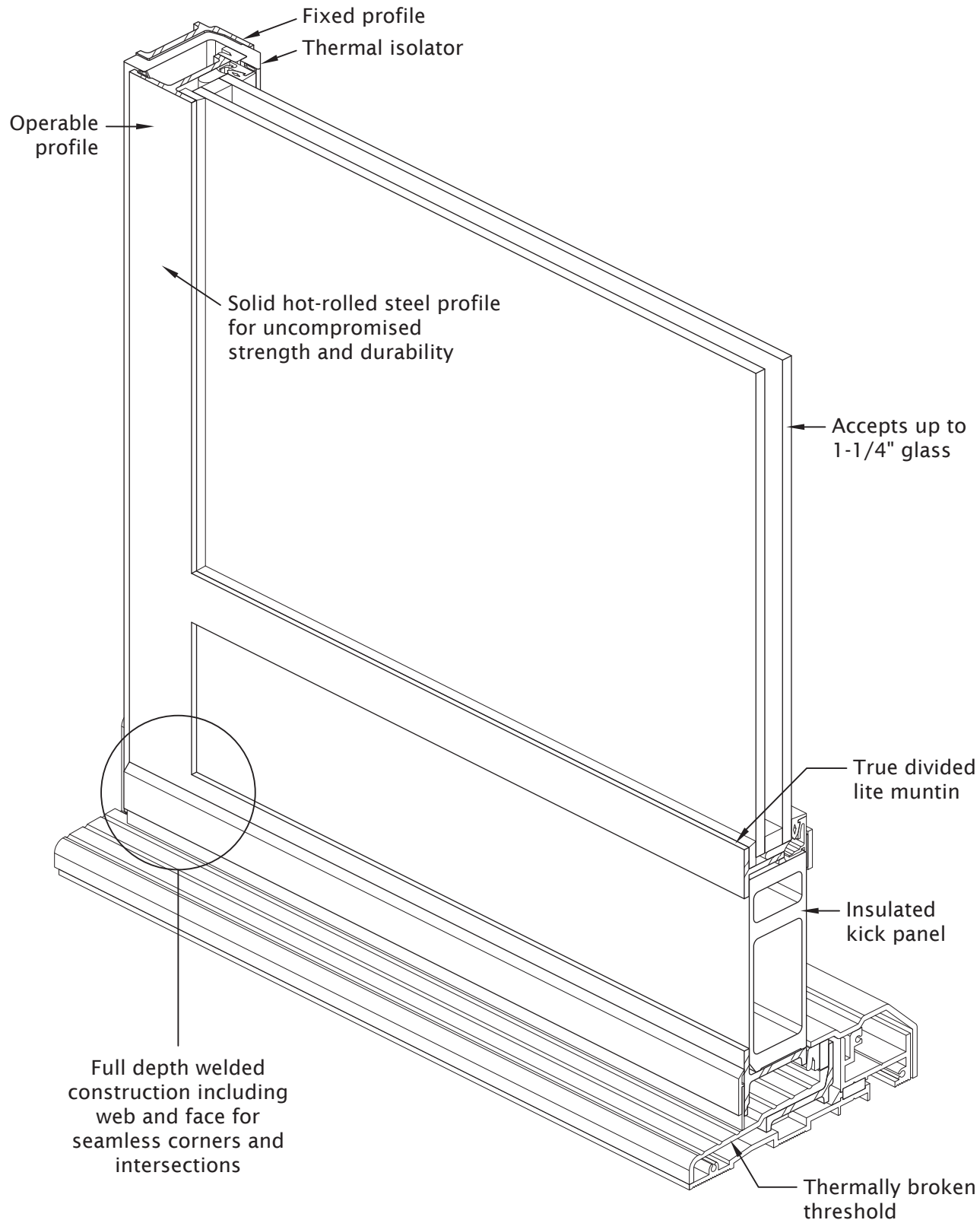
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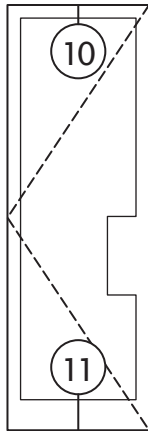
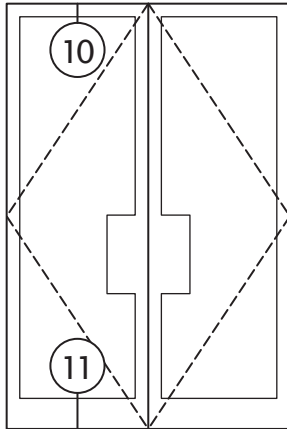
Hope's **Thermal Evolution™ Technology** is a superior solution for creating a thermal break for solid hot-rolled steel doors. All the proven characteristics and aesthetics of steel are maintained while offering a greater degree of thermal efficiency. U.S. Patent No. 8484902.

PRODUCT FEATURES

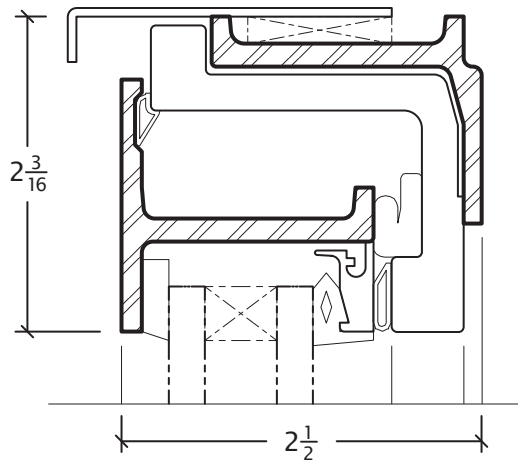
- Strength and life cycle of solid hot-rolled steel profiles
- Thermal break
- Thermal Evolution™ Technology - U-value tested to as low as **0.370**
- NFRC certified for thermal performance
- Fully welded construction (including web and face)
- Narrow sightlines
- Accepts up to 1-1/4" thick insulating glass
- ASTM tested for Air, Water and Structural
- Hope's Power of 5 Finishing System
- Hope's Signature Collection solid brass door hardware
- Available with mortise, multipoint, and cremone lock options



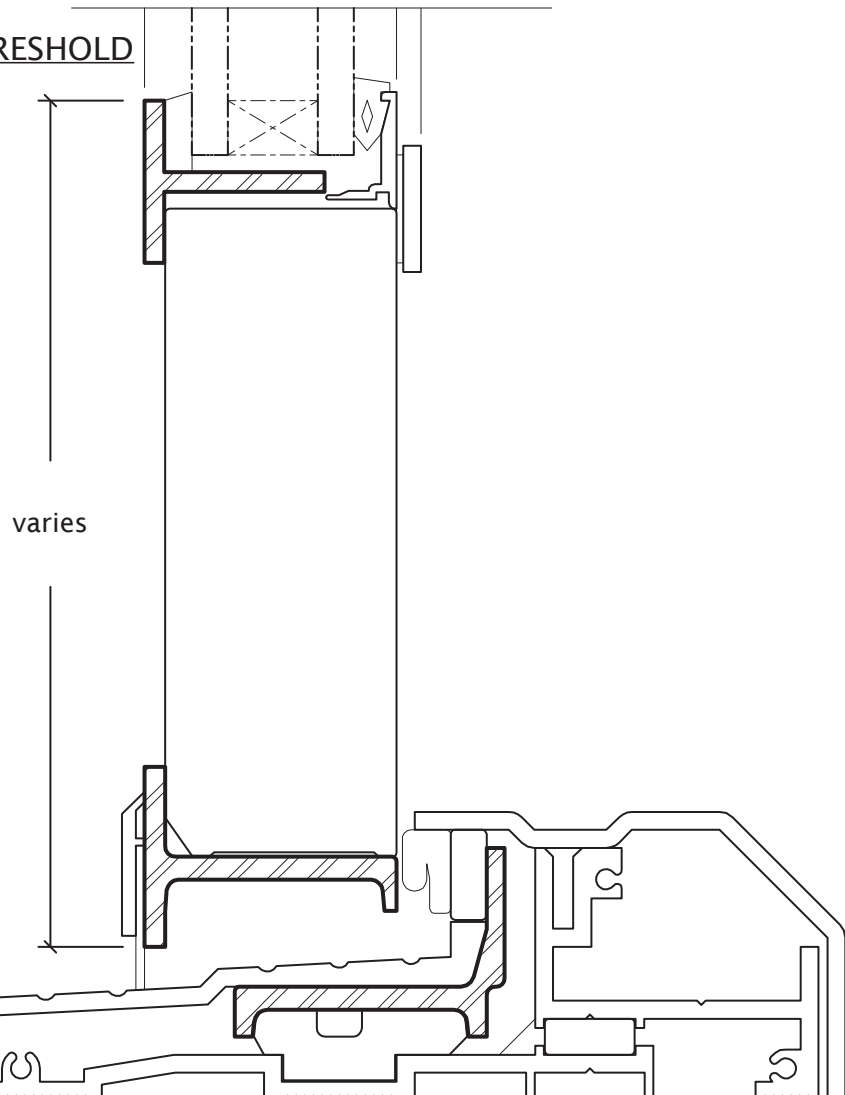




⑩ HEAD

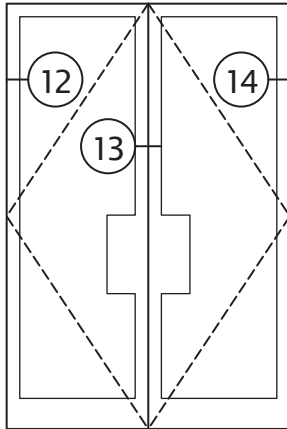


⑪ THRESHOLD

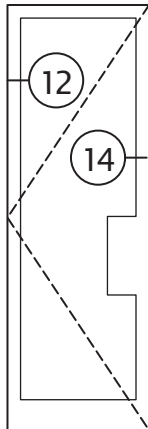
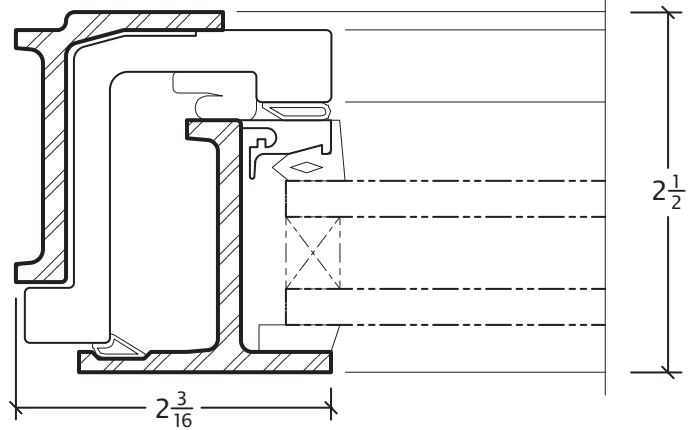


Details are 3/4 scale.

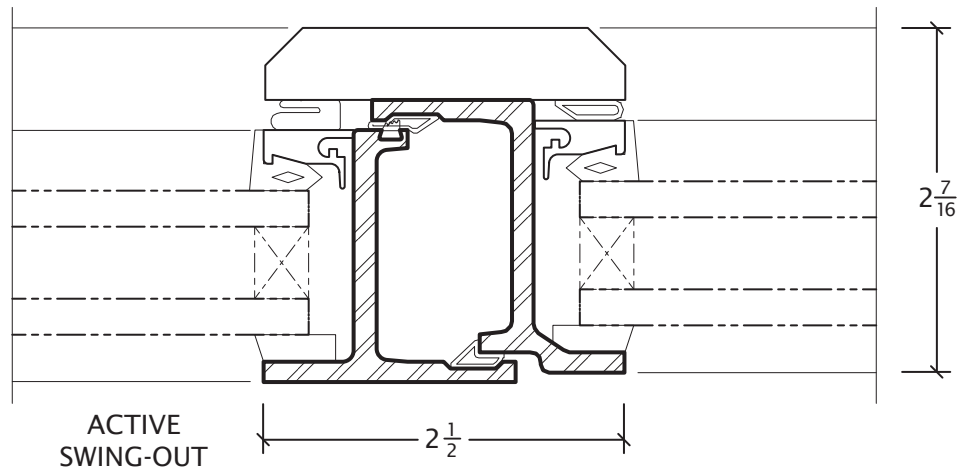
All Hope's products are custom manufactured to your specific project requirements.



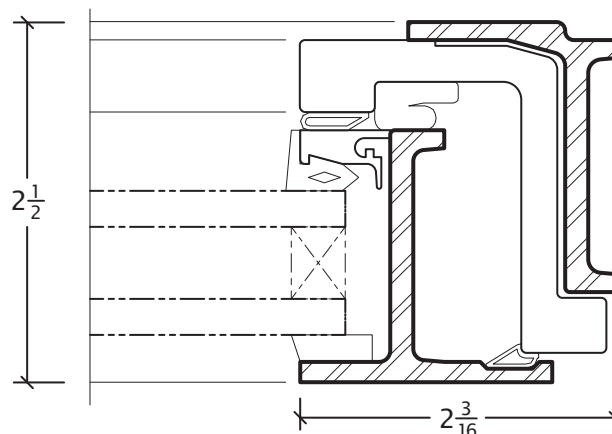
12 JAMB



13 DOUBLE FOLDING MEETING RAIL

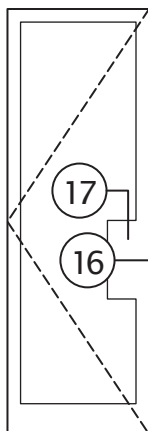
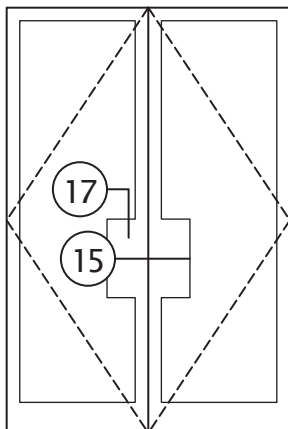


14 JAMB

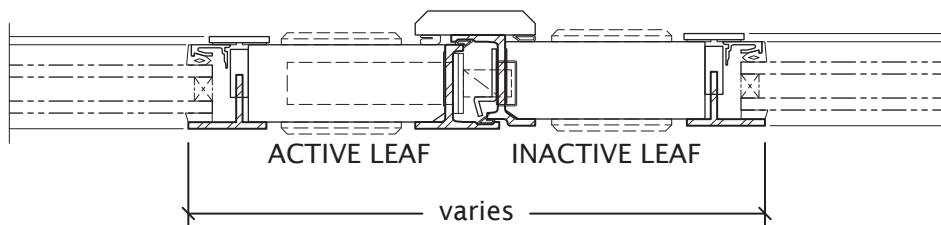


Details are 3/4 scale.

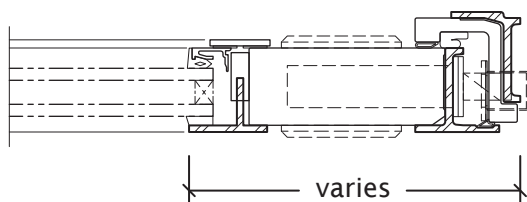
All Hope's products are custom manufactured to your specific project requirements.



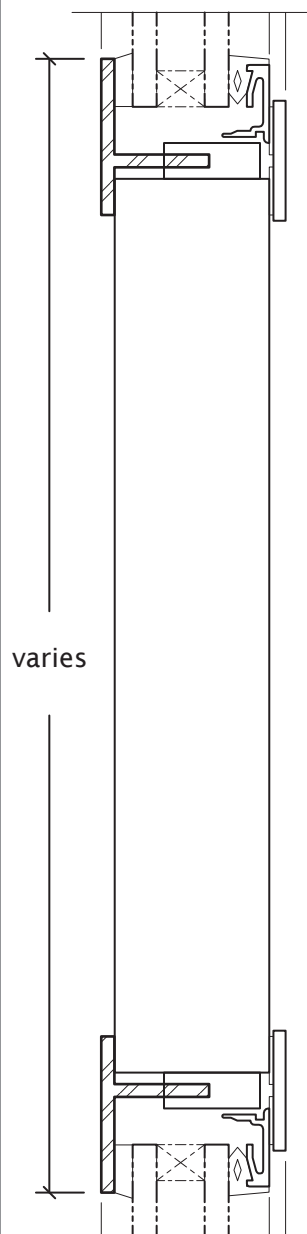
⑮ LOCKBOX AT DOUBLE FOLDING MEETING RAIL



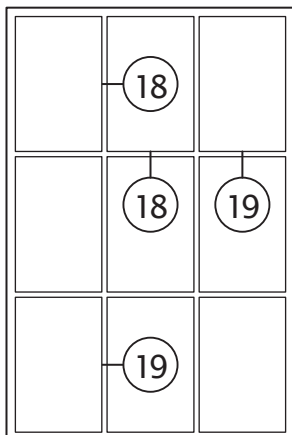
⑯ LOCKBOX AT JAMB



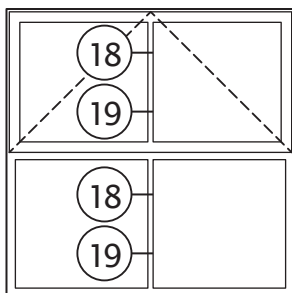
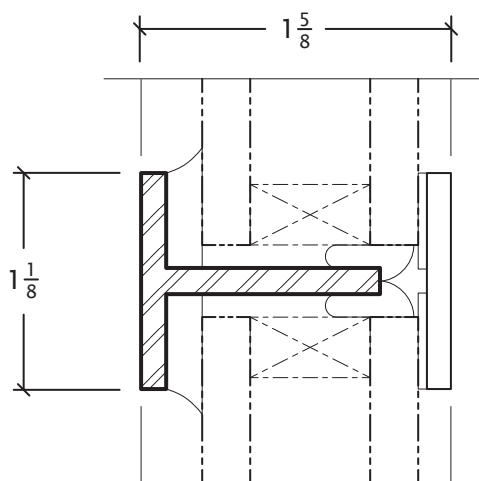
⑰ LOCKBOX



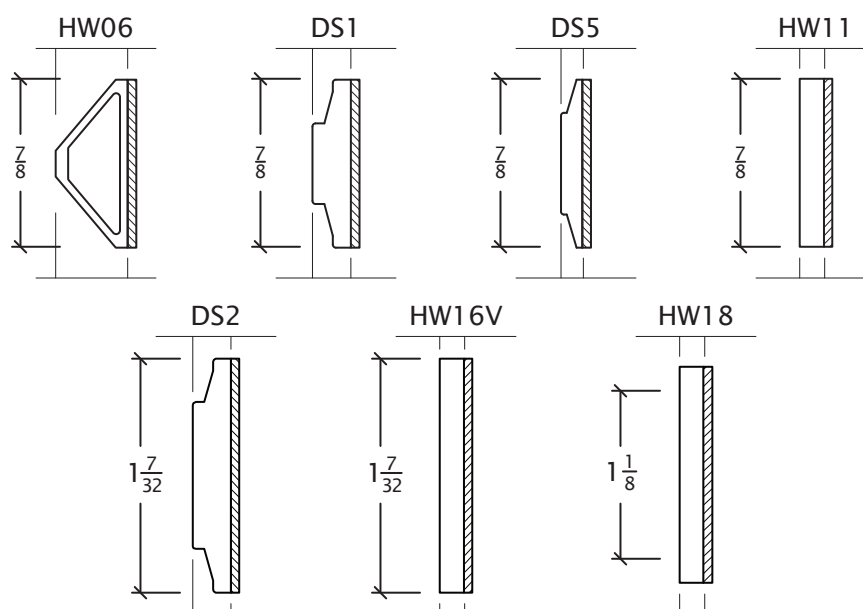
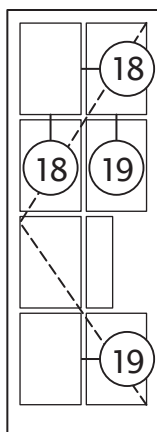
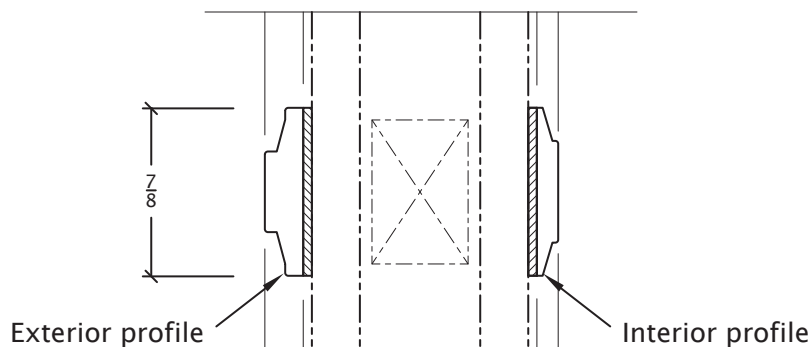
Details #15 and #16 are 1/4 scale. Detail #17 is half scale.
All Hope's products are custom manufactured to your specific project requirements.



18 TRUE DIVIDED LITE MUNTIN PROFILE

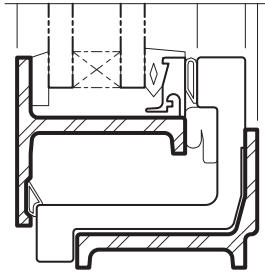


19 SIMULATED DIVIDED LITE MUNTIN PROFILES

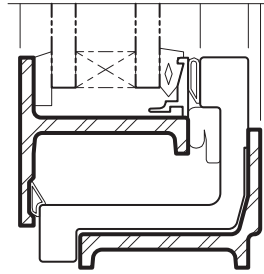


Details are full scale.

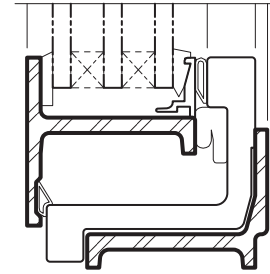
All Hope's products are custom manufactured to your specific project requirements.



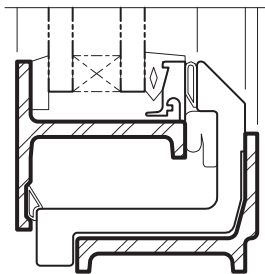
1" GLASS
SQUARE PROFILE
#42 BEAD



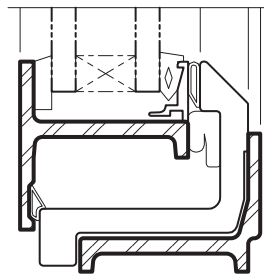
1-1/8" GLASS
SQUARE PROFILE
#24112-1 BEAD



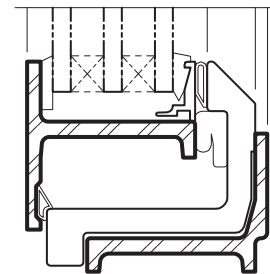
1-1/4" GLASS
SQUARE PROFILE
#24112-1 BEAD



1" GLASS
SLOPED PROFILE
#42 BEAD



1-1/8" GLASS
SLOPED PROFILE
#24112-1 BEAD



1-1/4" GLASS
SLOPED PROFILE
#24112-1 BEAD

Details are half scale and shown inside glazed.

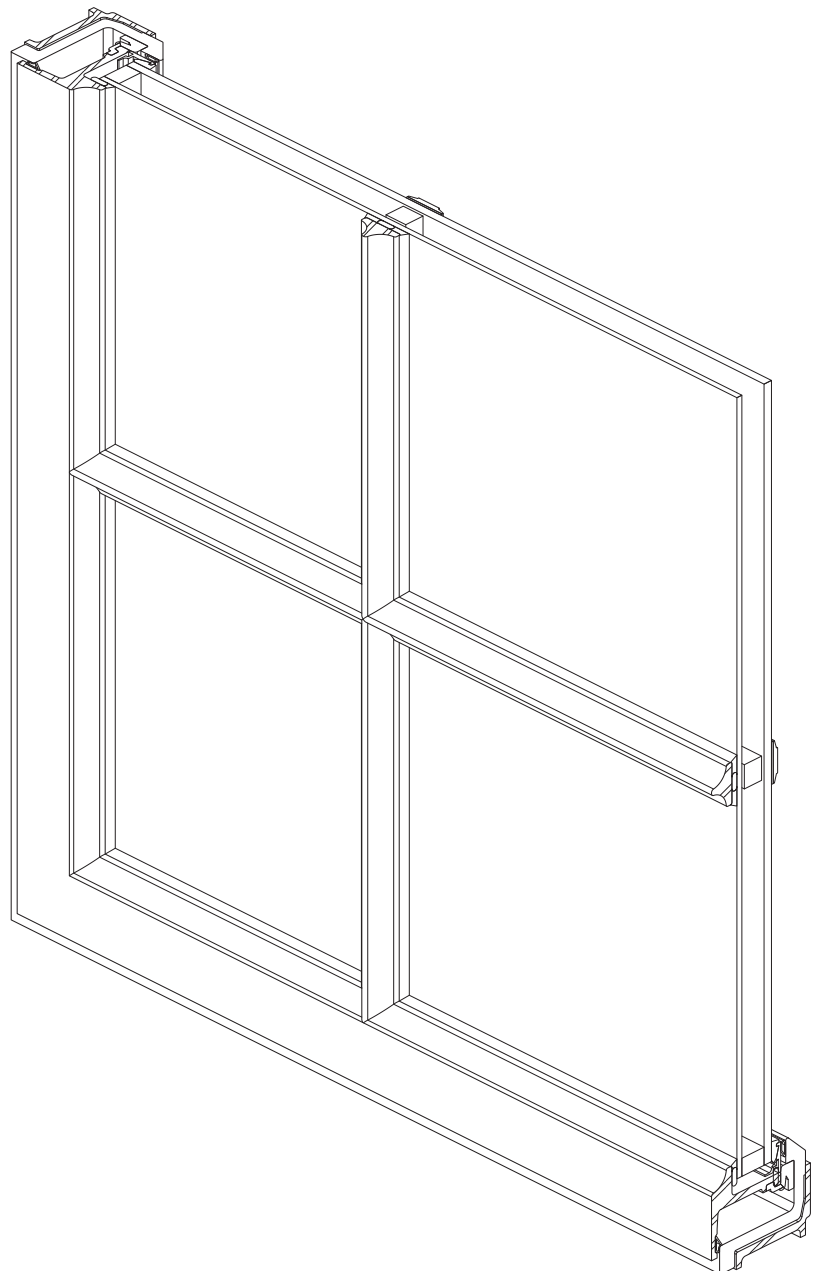
INTENTIONALLY LEFT BLANK

Hope's One55™ Series steel window profiles replicate the aesthetic of historic, industrial steel windows with elegant arrow-shaped profiles and delicate sightlines. With Hope's **Thermal Evolution™ Technology**, all the intrinsic strengths of solid hot-rolled steel are maintained along with enhanced thermal efficiency, exceeding the most stringent thermal codes.

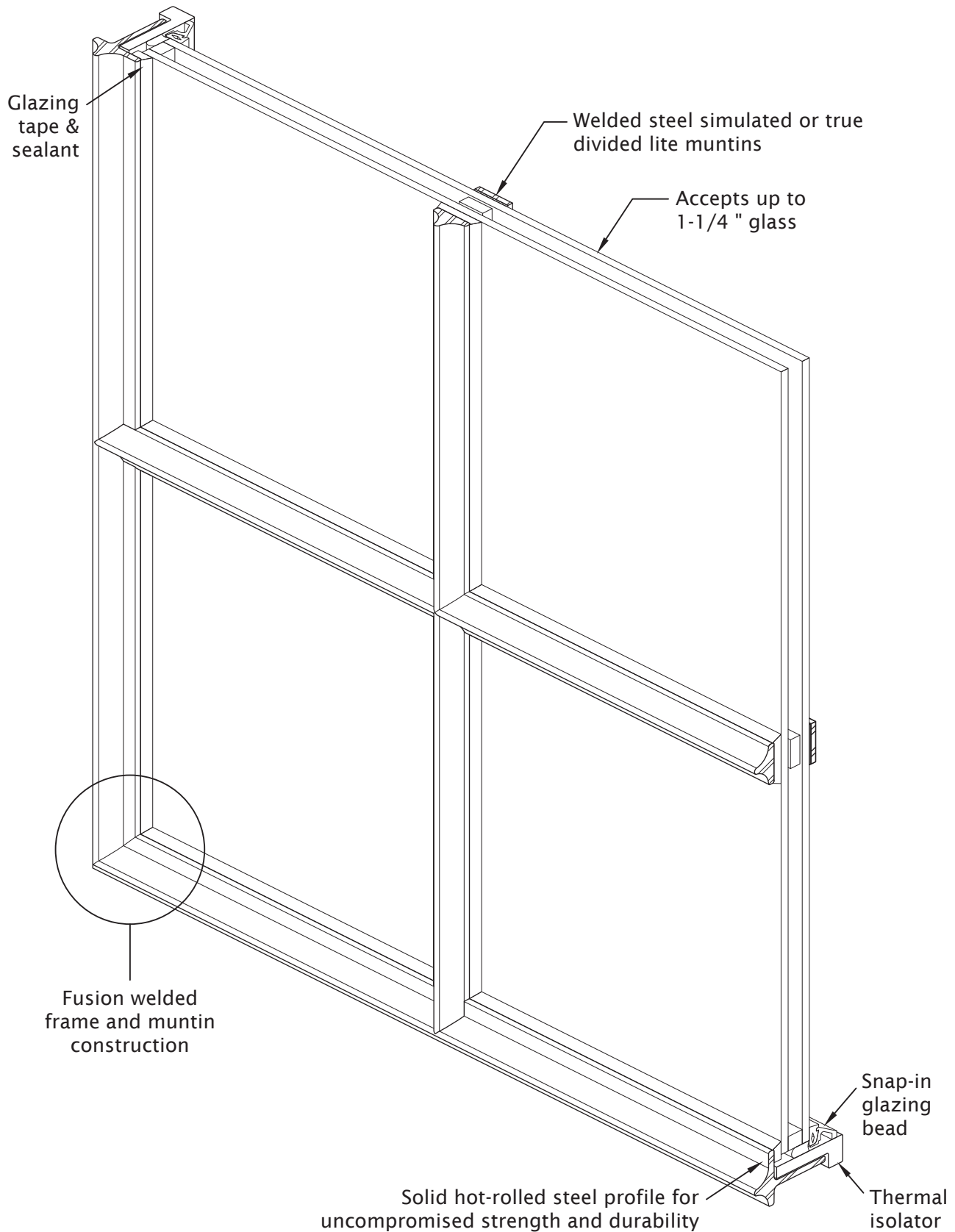
Hope's One55 Series thermal steel windows can be glazed with monolithic or insulated glass for energy efficiency. The unique window profiles and very narrow sightlines are ideal for new buildings as well as replacement projects.

PRODUCT FEATURES

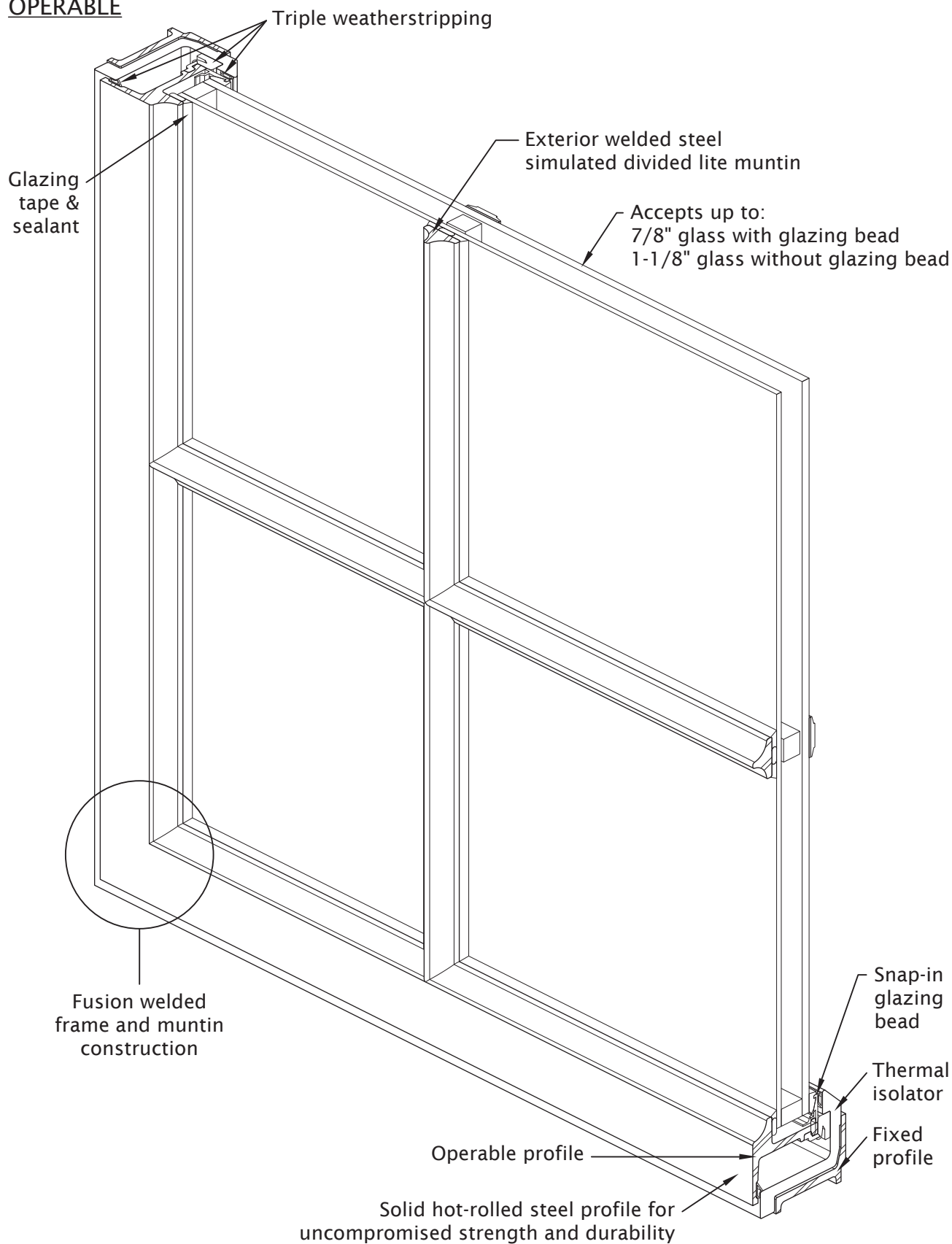
- Strength and life cycle of solid hot-rolled steel profiles
- Thermal break
- Thermal Evolution™ Technology - U-value tested to as low as **0.216**
- NFRC certified for thermal performance
- Fusion welded frame and muntin construction
- Historically accurate sightlines
- Fixed windows accept up to 1-1/4" thick insulating glass
- Casement windows accept up to 7/8" thick insulating glass with glazing bead; 1-1/8" thick insulating glass without glazing bead
- ASTM tested for Air, Water and Structural
- Hope's Power of 5 Finishing System with hot-dip galvanizing pretreatment
- Hope's Signature Collection solid brass hardware



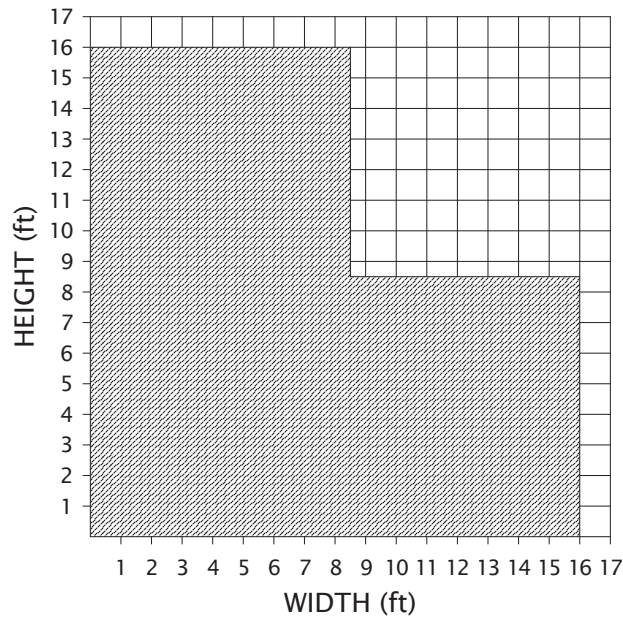
FIXED



OPERABLE

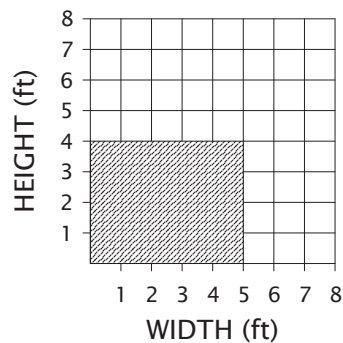


FIXED WINDOWS

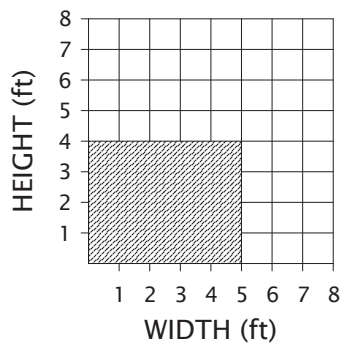


OPERABLE WINDOWS

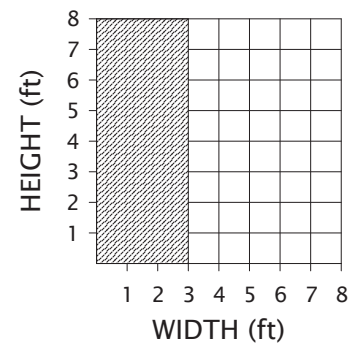
PROJECT-IN VENTILATORS



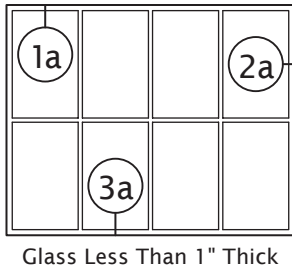
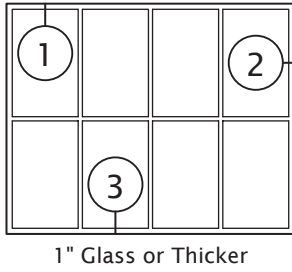
PROJECT-OUT VENTILATORS



CASEMENT VENTILATORS

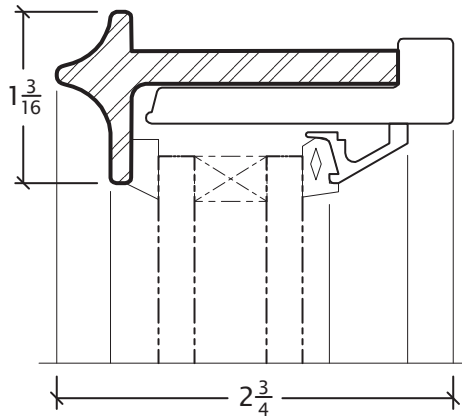


Sizes based on 5/8" insulating glass with 1/8" panes.
For requirements exceeding the sizes shown, consult Hope's for design alternatives.



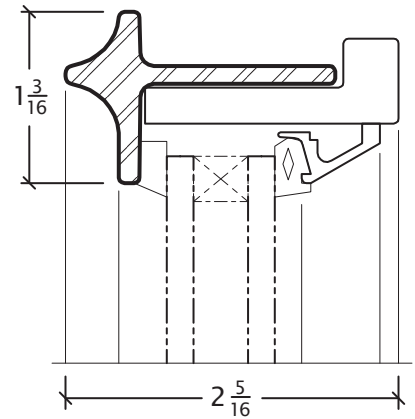
1 HEAD

FIXED
1" GLASS OR THICKER

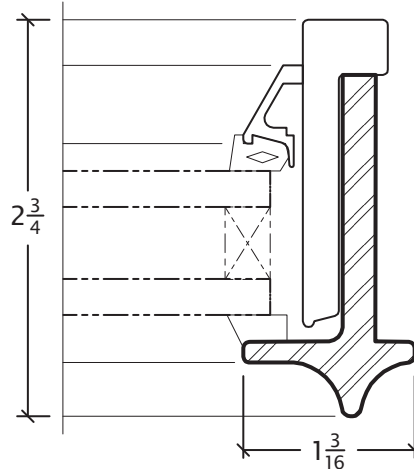


1a HEAD

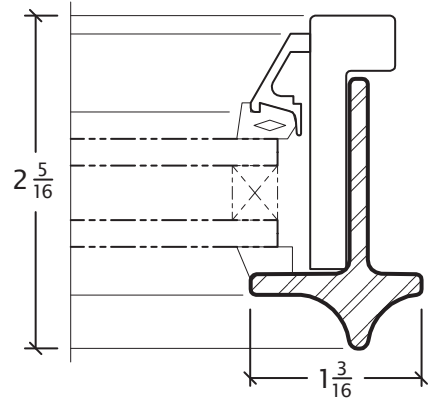
FIXED
GLASS LESS THAN 1" THICK



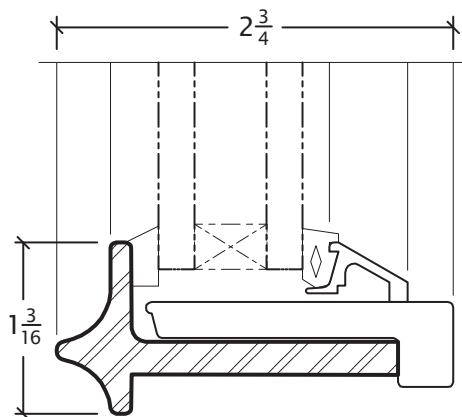
2 JAMB



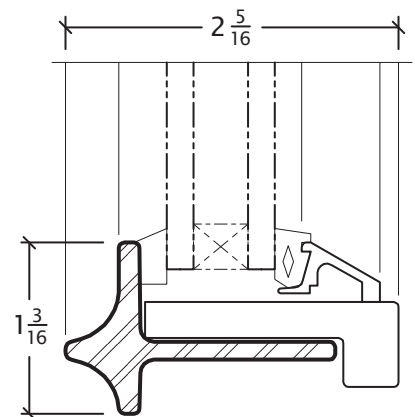
2a JAMB



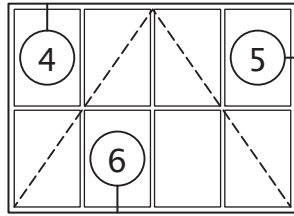
3 SILL



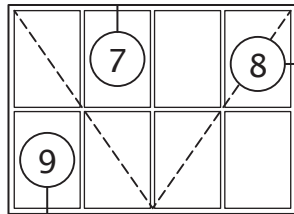
3a SILL



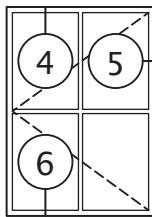
Details are 3/4 scale and shown with 1" and 3/4" thick glass respectively. See pages 26-27 for additional glass thickness and glazing bead options. All Hope's products are custom manufactured to your specific project requirements.



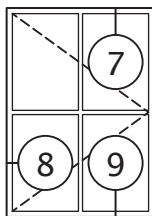
PROJECT-OUT
(Awning)



PROJECT-IN
(Hopper)



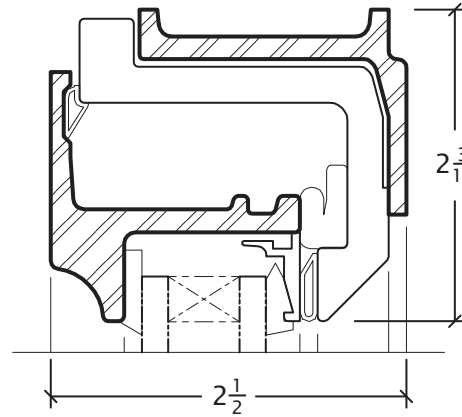
SINGLE SWING-OUT
CASEMENT



SINGLE SWING-IN
CASEMENT

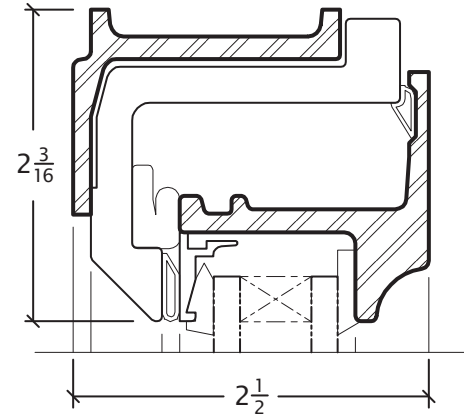
④ HEAD

OPERABLE

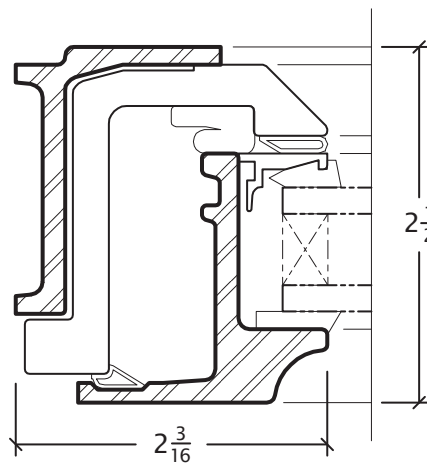


⑦ HEAD

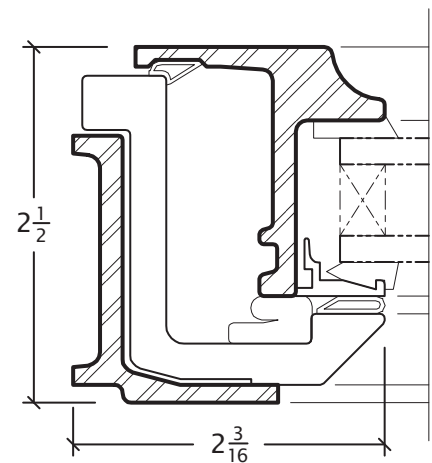
OPERABLE



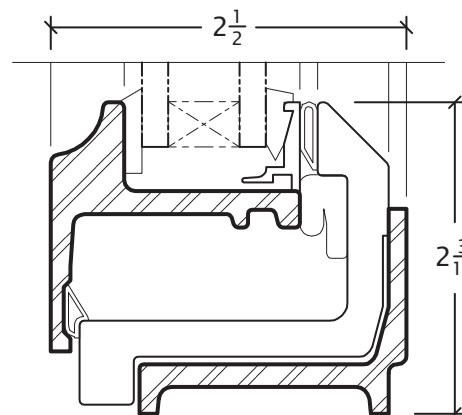
⑤ JAMB



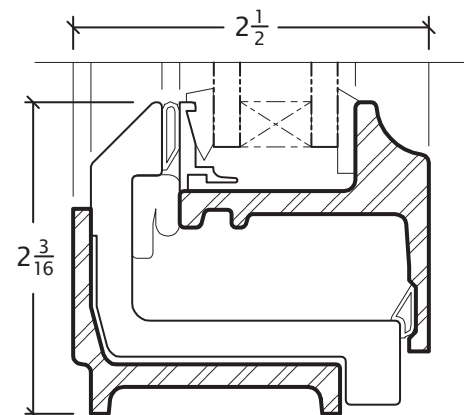
⑧ JAMB



⑥ SILL

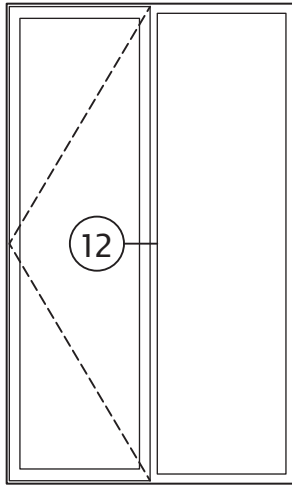


⑨ SILL

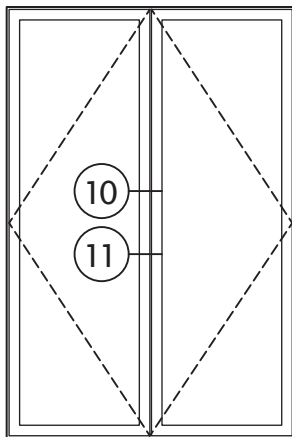
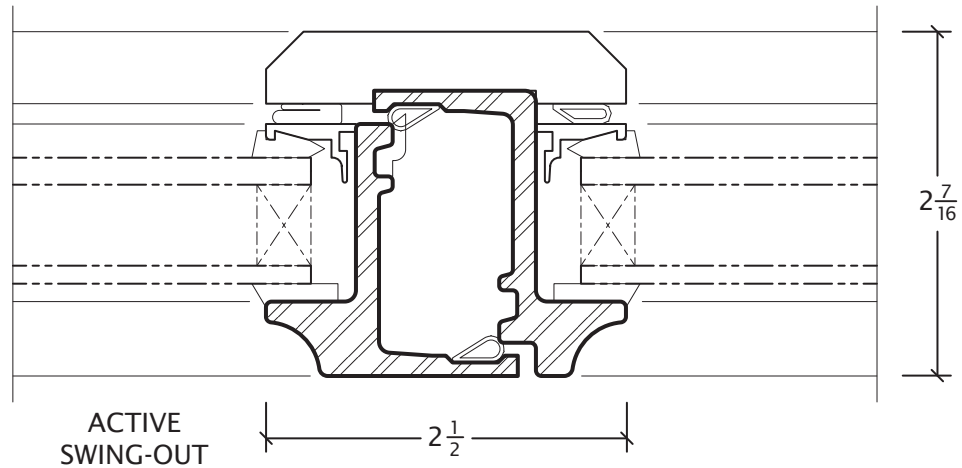


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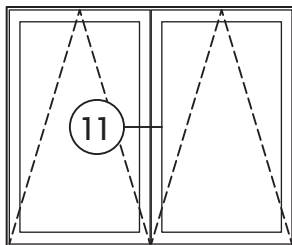
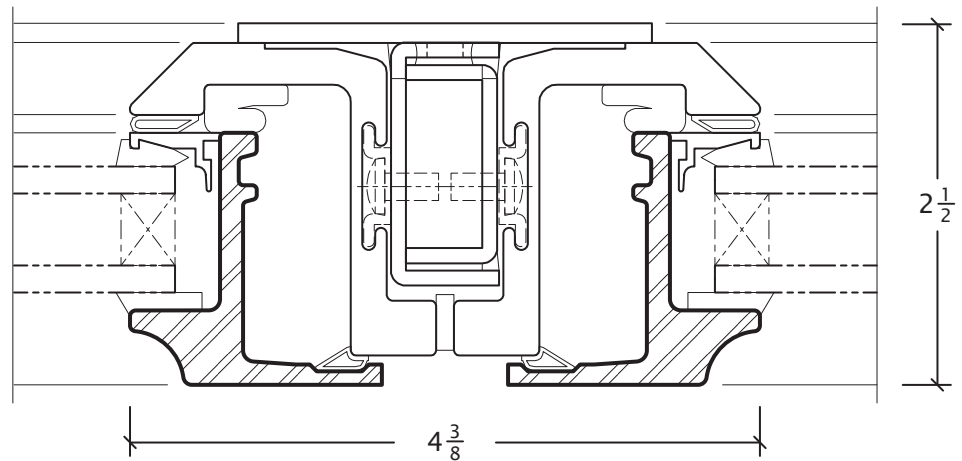
All Hope's products are custom manufactured to your specific project requirements.



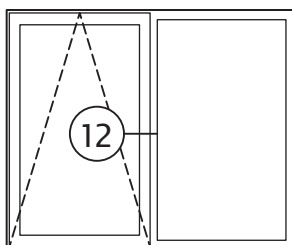
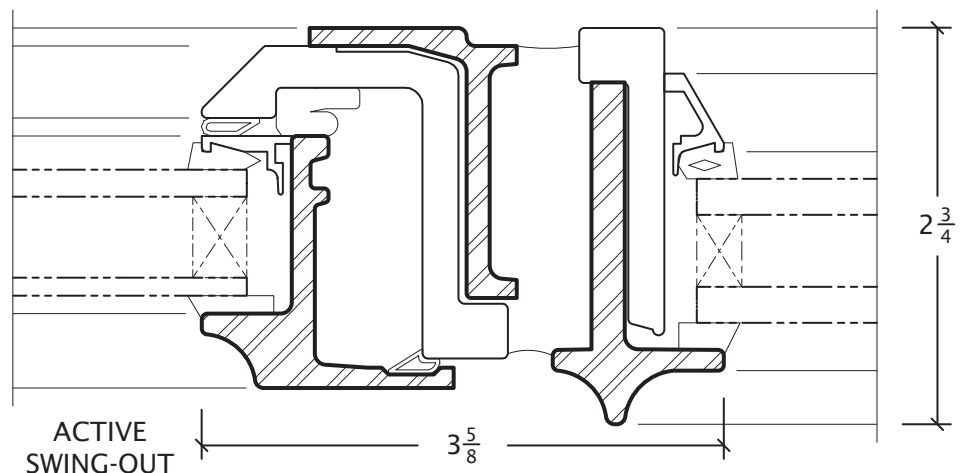
⑩ DOUBLE FOLDING VERTICAL MEETING RAIL



⑪ DOUBLE OPERABLE VERTICAL MEETING RAIL

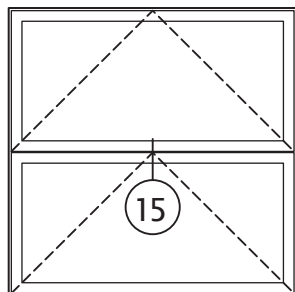
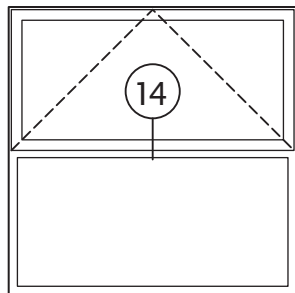
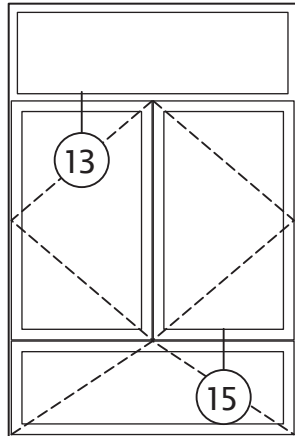


⑫ SINGLE OPERABLE VERTICAL MEETING RAIL

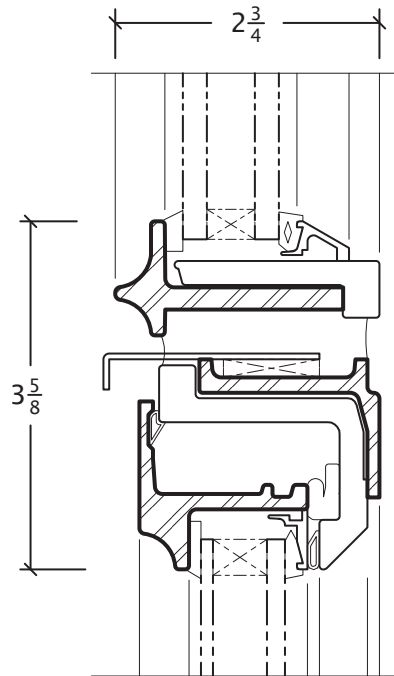


Details are 3/4 scale.

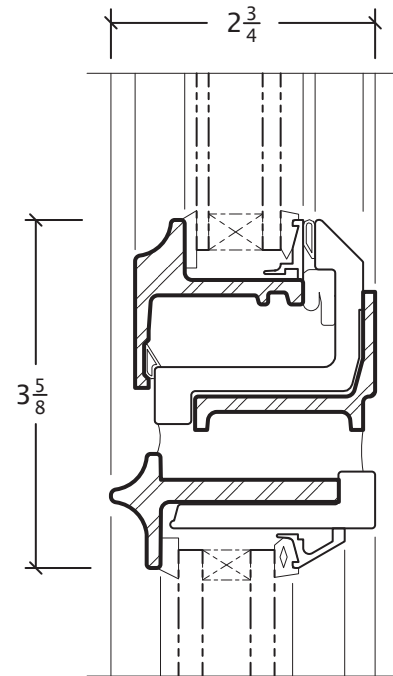
All Hope's products are custom manufactured to your specific project requirements.



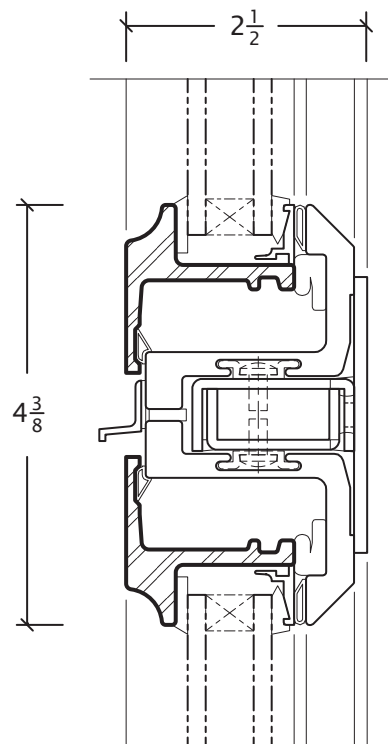
13 FIXED ABOVE OPERABLE
HORIZONTAL RAIL



14 OPERABLE ABOVE FIXED
HORIZONTAL RAIL

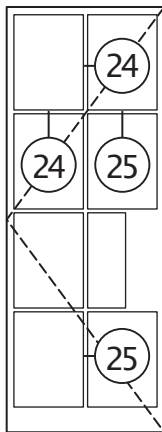
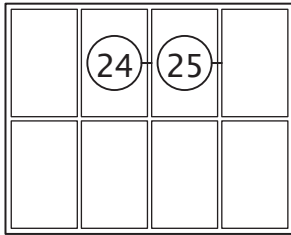


15 DOUBLE OPERABLE HORIZONTAL RAIL

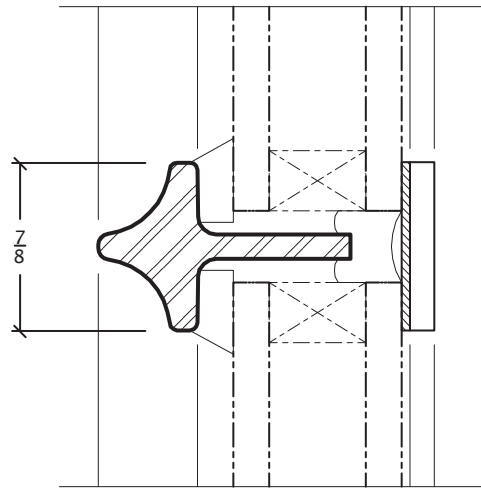


Details are half scale.

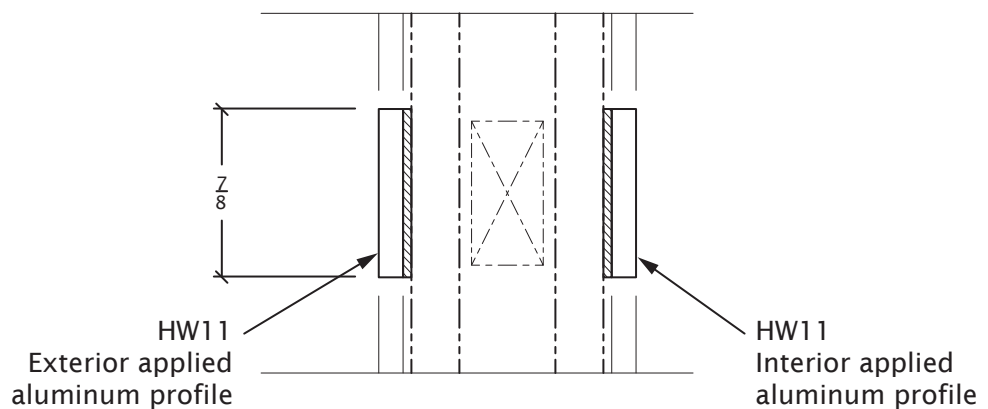
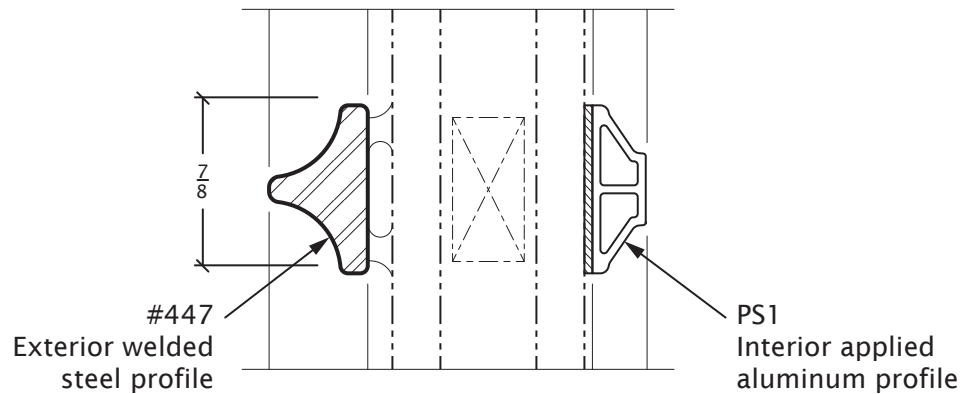
All Hope's products are custom manufactured to your specific project requirements.



24 TRUE DIVIDED LITE MUNTIN PROFILES

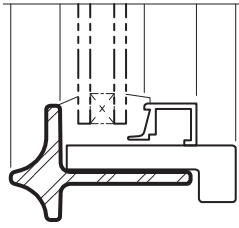


25 SIMULATED DIVIDED LITE MUNTIN PROFILES

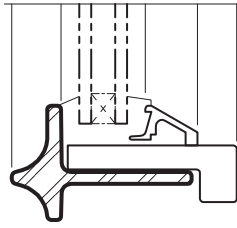


Details are full scale. Consult *Muntins, Mullions, Stacks & Deflection Channels* section of Hope's Architectural Binder for additional aluminum profile options. All Hope's products are custom manufactured to your specific project requirements.

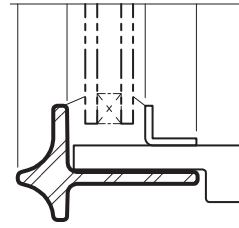
FIXED GLAZING BEAD OPTIONS



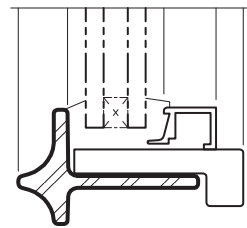
1/2" GLASS
SQUARE BEAD



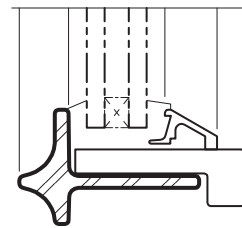
1/2" GLASS
SLOPED BEAD



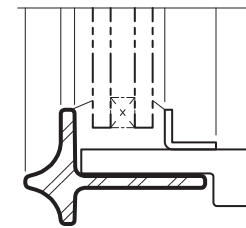
1/2" GLASS
ANGLED BEAD



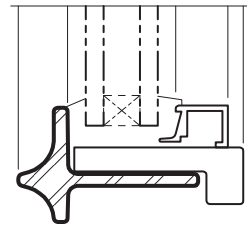
5/8" GLASS
SQUARE BEAD



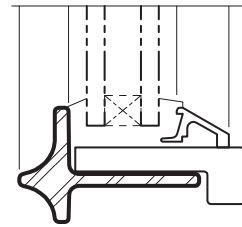
5/8" GLASS
SLOPED BEAD



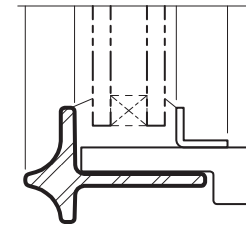
5/8" GLASS
ANGLED BEAD



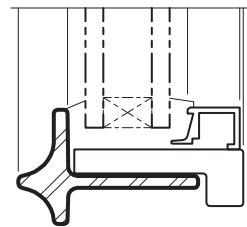
3/4" GLASS
SQUARE BEAD



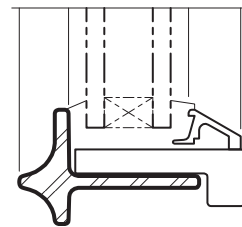
3/4" GLASS
SLOPED BEAD



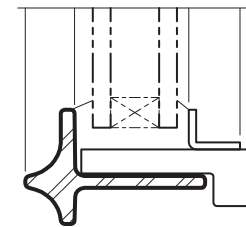
3/4" GLASS
ANGLED BEAD



7/8" GLASS
SQUARE BEAD



7/8" GLASS
SLOPED BEAD



7/8" GLASS
ANGLED BEAD

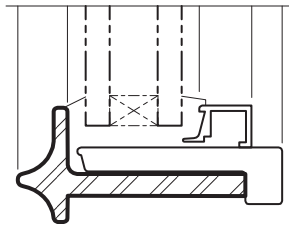
GLAZING BEAD NOTES

Hope's offers various types of glazing beads including: snap-in and tape-on. Consult Hope's for other options.

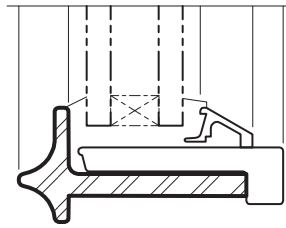
All true divided lite muntins have corresponding glazing beads to match the perimeter profiles.

Details are half scale and shown inside glazed.

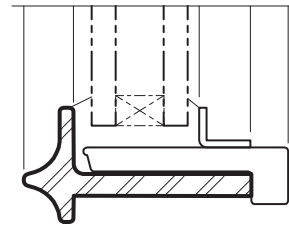
FIXED GLAZING BEAD OPTIONS



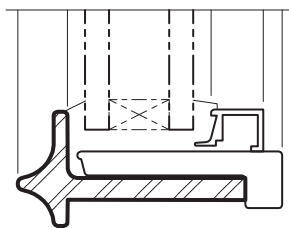
1" GLASS
SQUARE BEAD



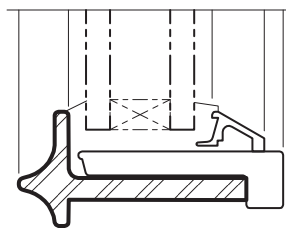
1" GLASS
SLOPED BEAD



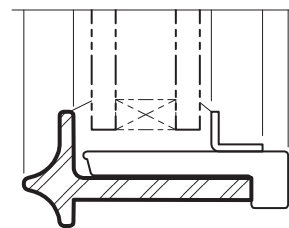
1" GLASS
ANGLED BEAD



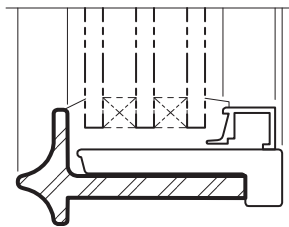
1-1/8" GLASS
SQUARE BEAD



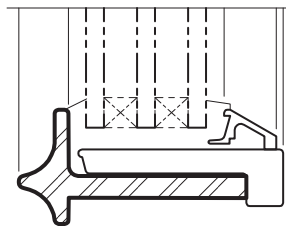
1-1/8" GLASS
SLOPED BEAD



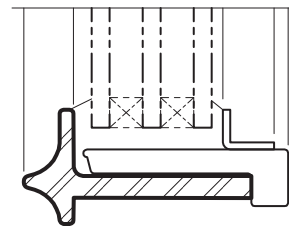
1-1/8" GLASS
ANGLED BEAD



1-1/4" GLASS
SQUARE BEAD



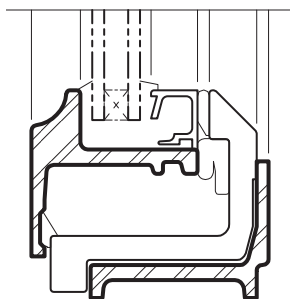
1-1/4" GLASS
SLOPED BEAD



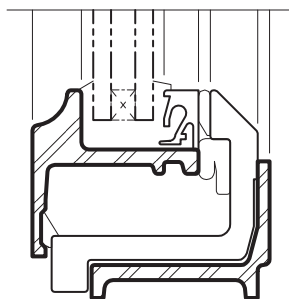
1-1/4" GLASS
ANGLED BEAD

Details are half scale and shown inside glazed.

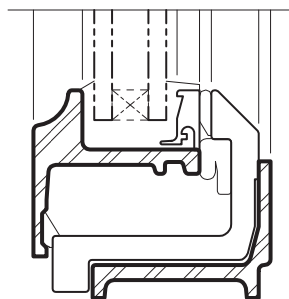
OPERABLE GLAZING BEAD OPTIONS



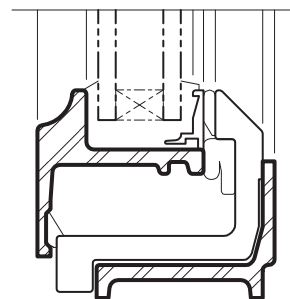
1/2" GLASS
SLOPED PROFILE
#339 BEAD



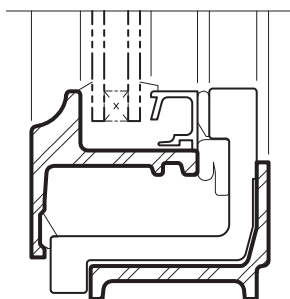
5/8" GLASS
SLOPED PROFILE
#41 BEAD



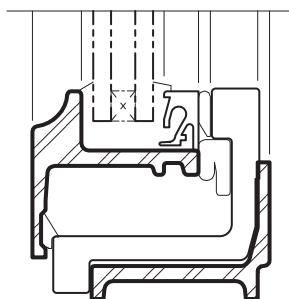
3/4" GLASS
SLOPED PROFILE
#42 BEAD



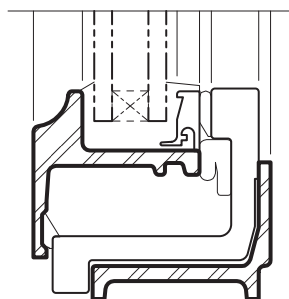
7/8" GLASS
SLOPED PROFILE
#24112-1 BEAD



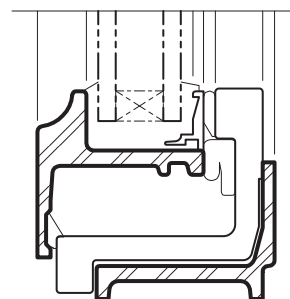
1/2" GLASS
SQUARE PROFILE
#339 BEAD



5/8" GLASS
SQUARE PROFILE
#41 BEAD



3/4" GLASS
SQUARE PROFILE
#42 BEAD



7/8" GLASS
SQUARE PROFILE
#24112-1 BEAD

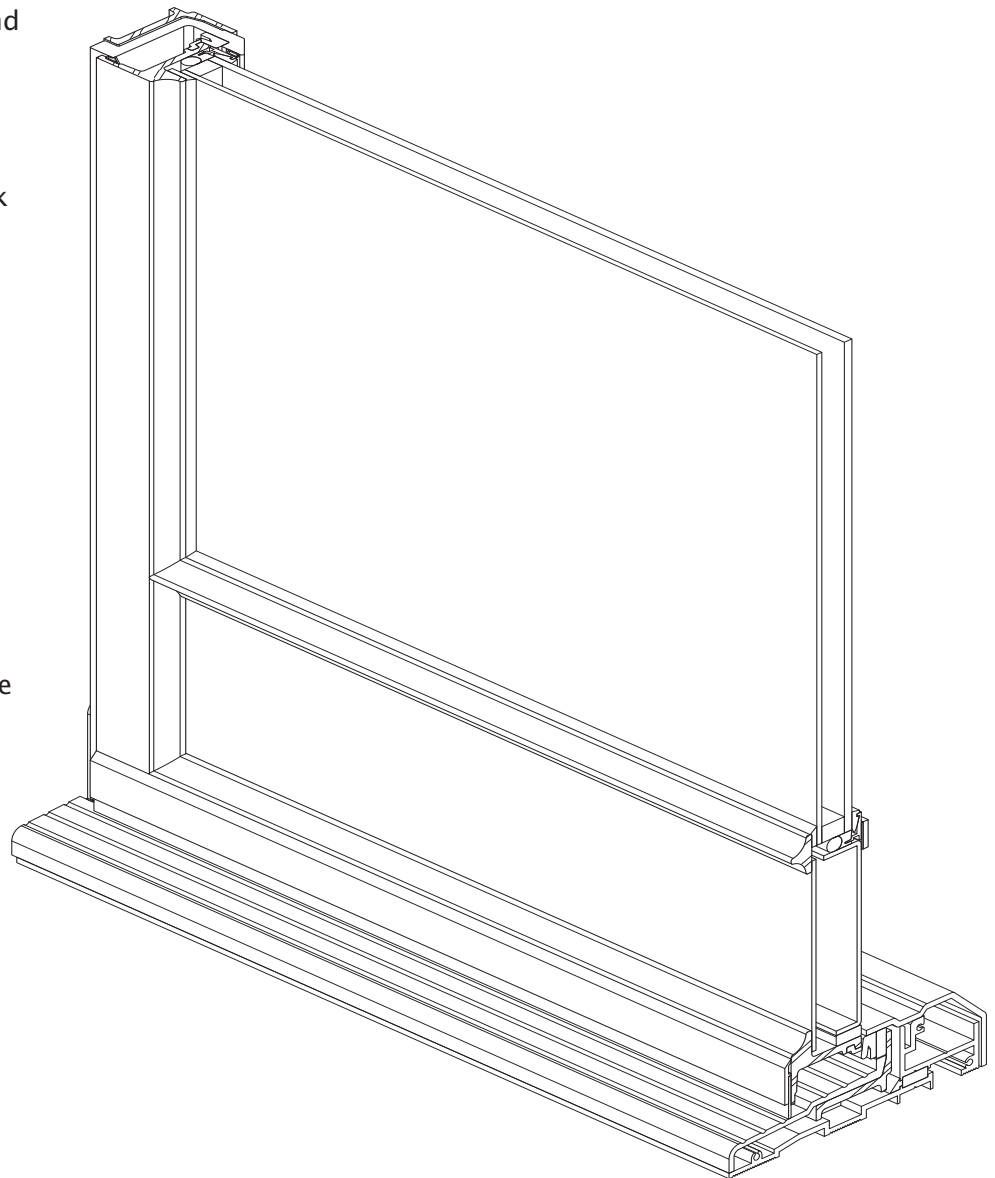
Details are half scale and shown inside glazed.

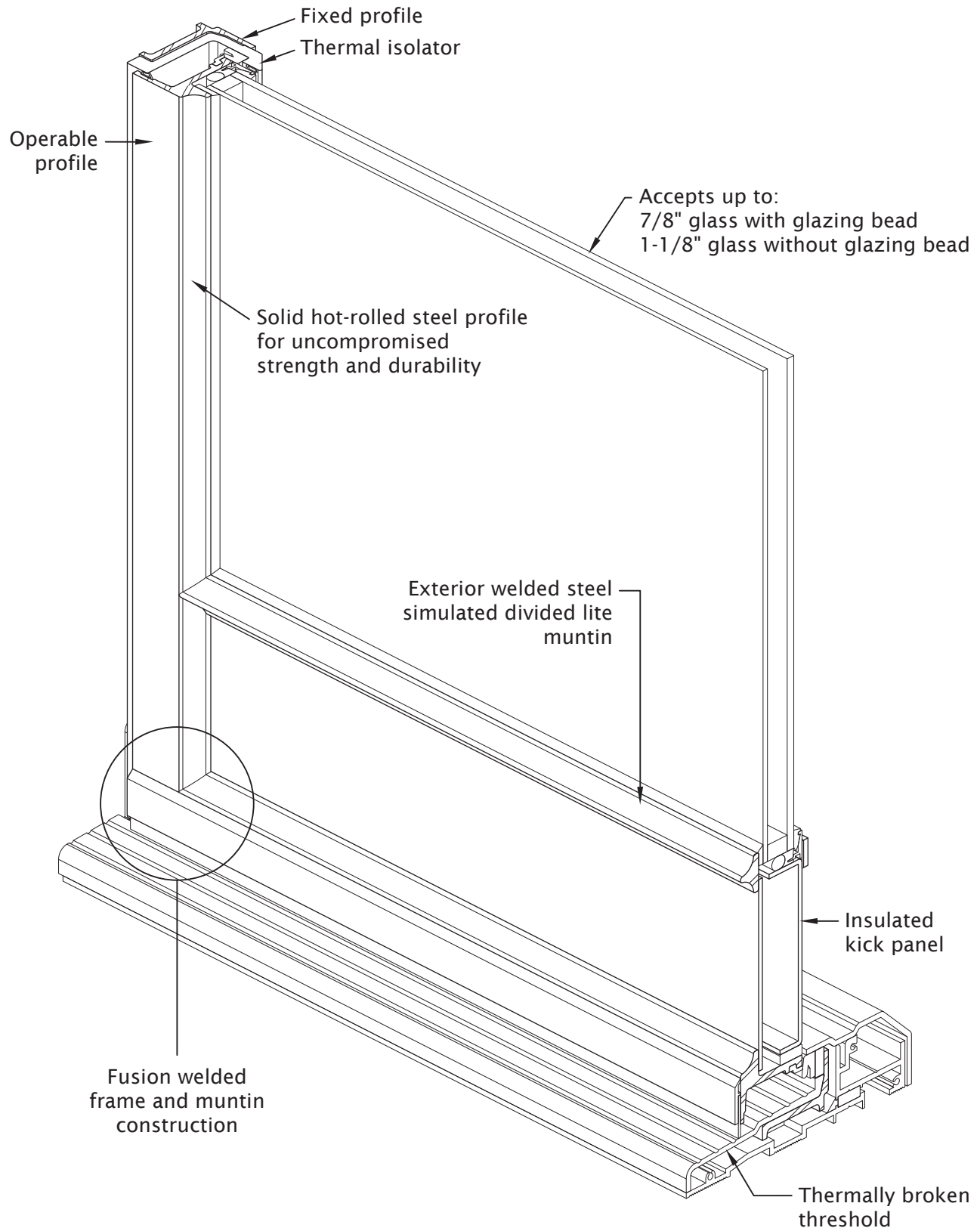
Hope's One55™ Series steel door profiles replicate the aesthetic of historic, industrial steel doors with elegant arrow-shaped profiles and delicate sightlines. With Hope's **Thermal Evolution™ Technology**, all the intrinsic strengths of solid hot-rolled steel are maintained along with enhanced thermal efficiency, exceeding the most stringent thermal codes.

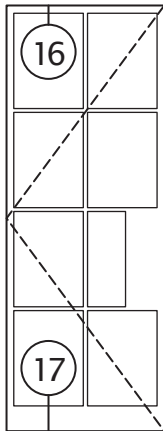
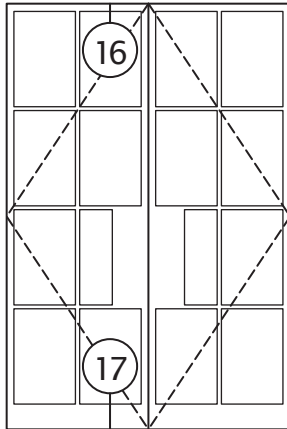
Hope's One55 Series thermal steel doors can be glazed with monolithic or insulated glass for energy efficiency. The unique steel profiles and very narrow sightlines are ideal for new buildings as well as replacement projects.

PRODUCT FEATURES

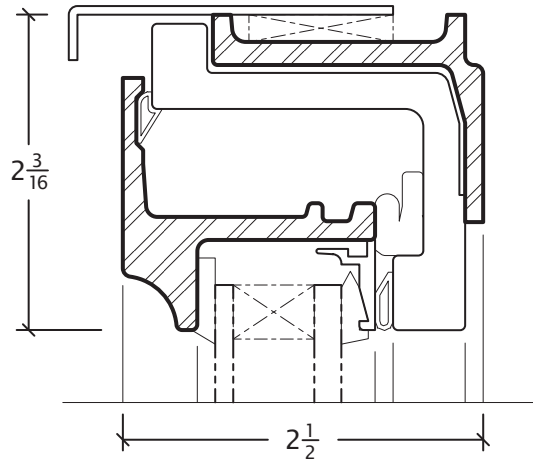
- Strength and life cycle of solid hot-rolled steel profiles
- Thermal break
- Thermal Evolution™ Technology
- Fusion welded frame and muntin construction
- Historically accurate sightlines
- Accepts up to 7/8" thick insulating glass with glazing bead; 1-1/8" thick insulating glass without glazing bead
- Hope's Power of 5 Finishing System with hot-dip galvanizing pretreatment
- Hope's Signature Collection solid brass door hardware
- Available with mortise, multipoint, and cremone lock options



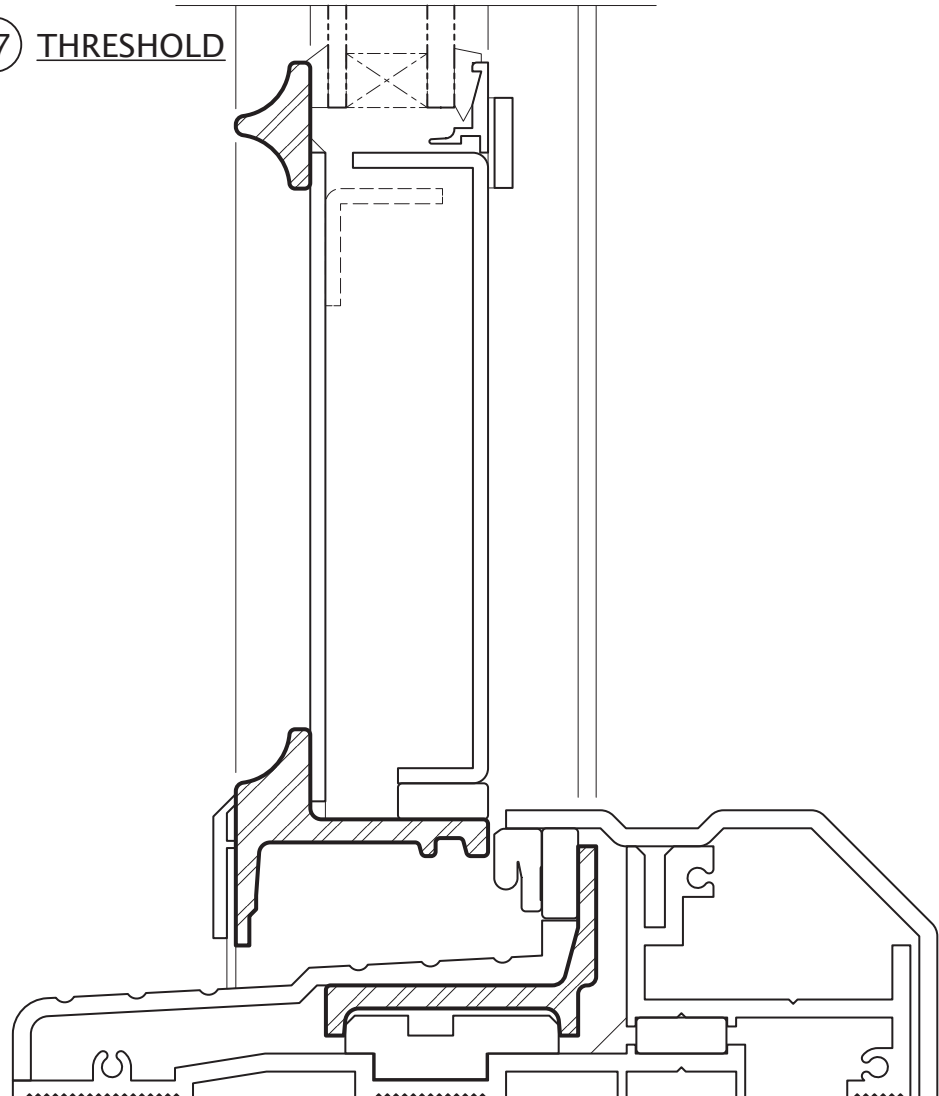




①6 HEAD

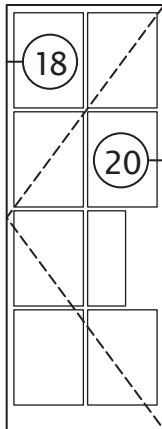
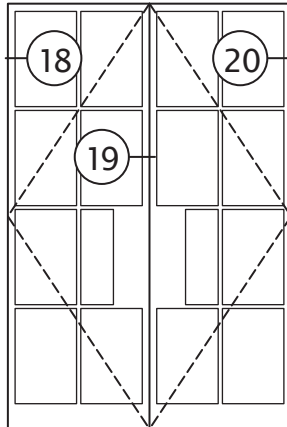


①7 THRESHOLD

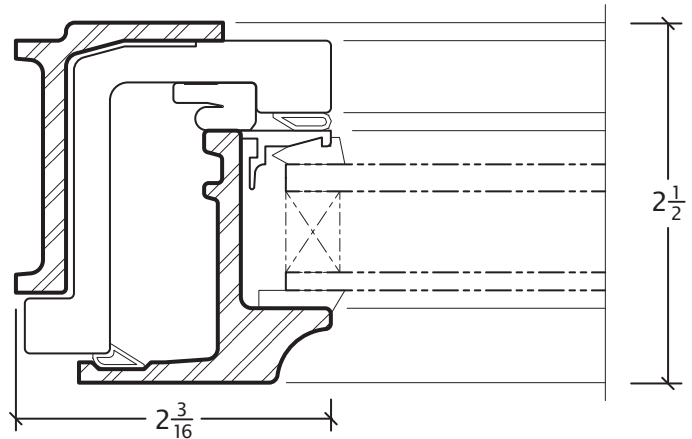


Details are 3/4 scale.

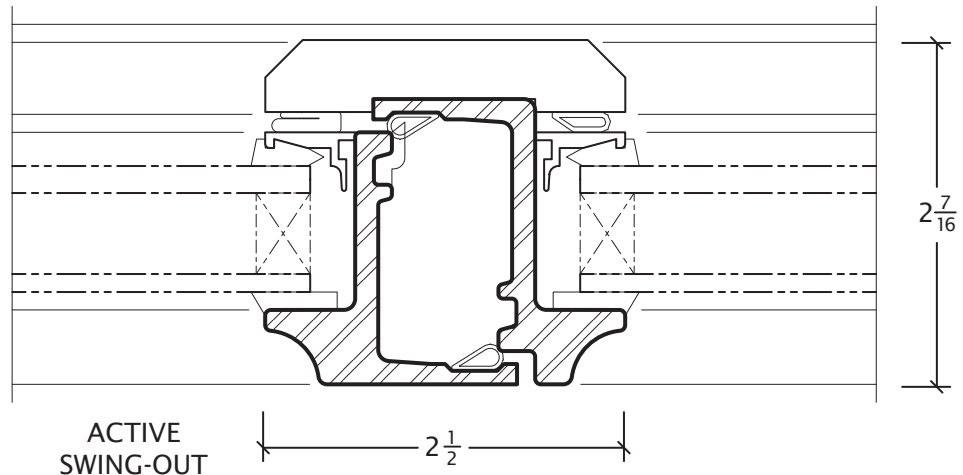
All Hope's products are custom manufactured to your specific project requirements.



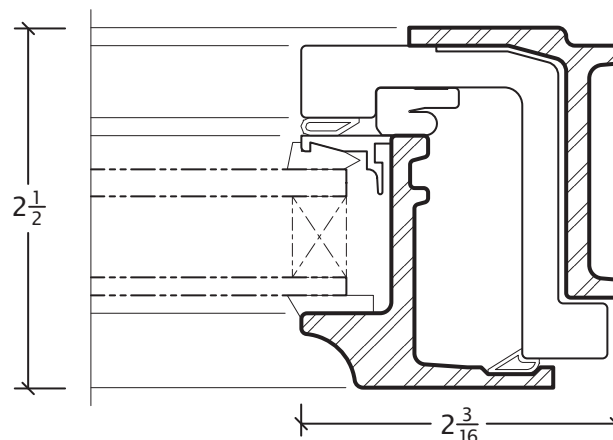
18 JAMB



19 DOUBLE FOLDING MEETING RAIL

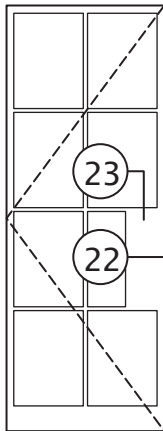
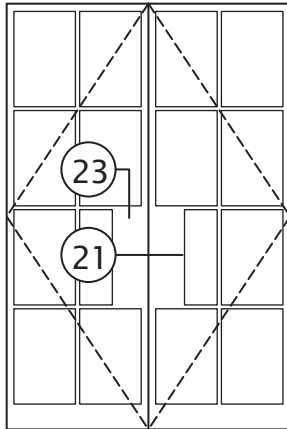


20 JAMB

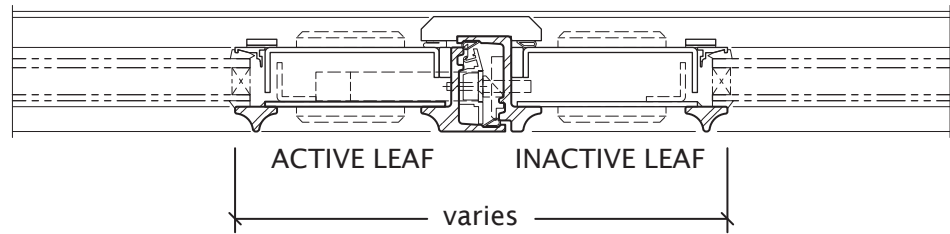


Details are 3/4 scale.

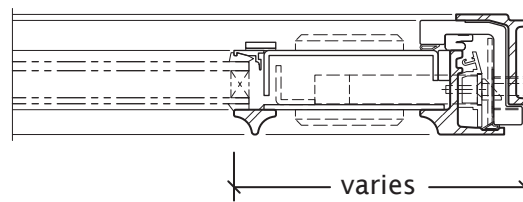
All Hope's products are custom manufactured to your specific project requirements.



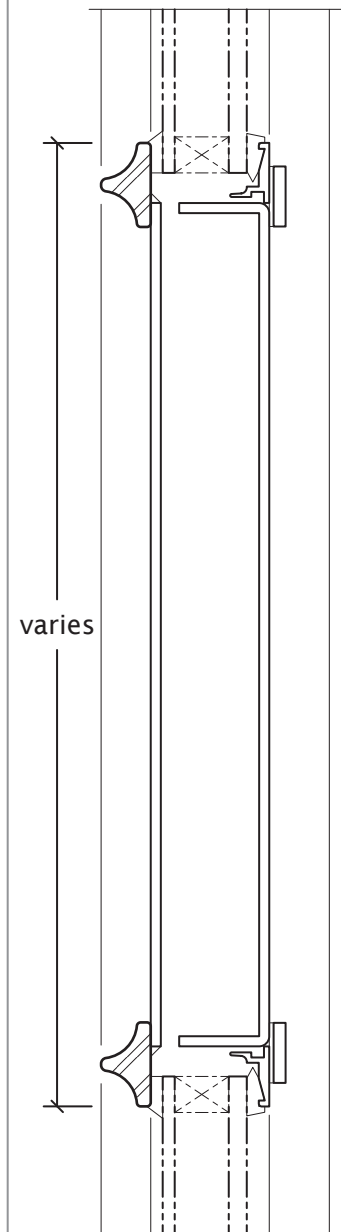
(21) LOCKBOX AT DOUBLE FOLDING MEETING RAIL



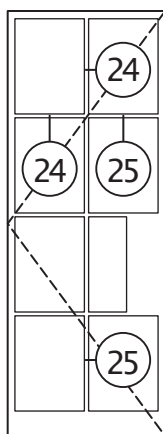
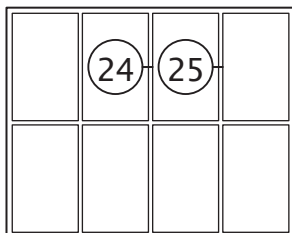
(22) LOCKBOX AT JAMB



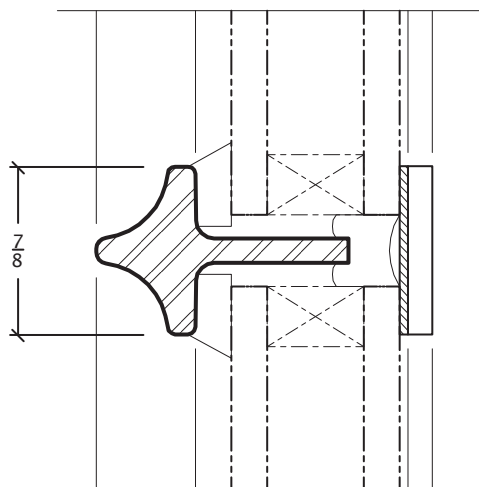
(23) LOCKBOX



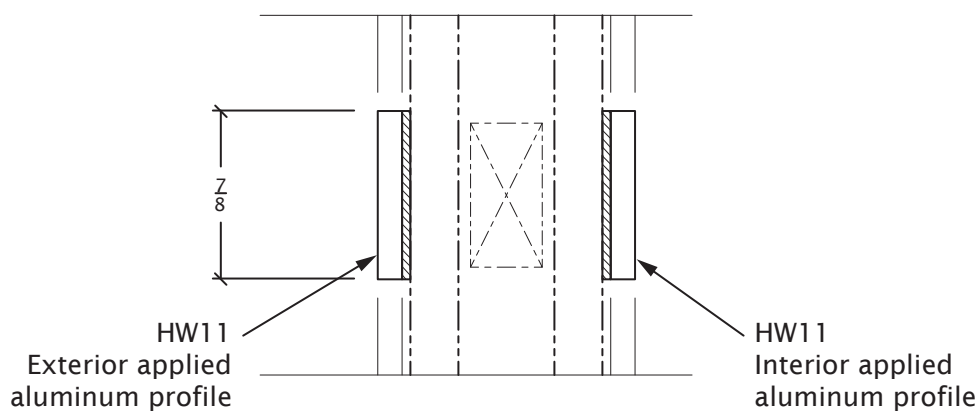
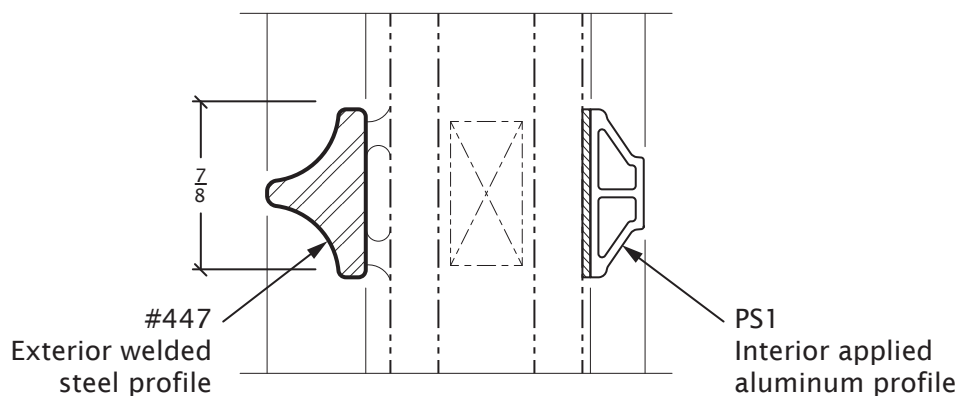
Details #21 and #22 are 1/4 scale. Detail #23 is 1/2 scale.
All Hope's products are custom manufactured to your specific project requirements.



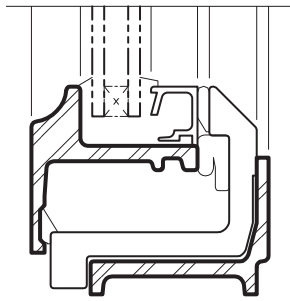
24 TRUE DIVIDED LITE MUNTIN PROFILES



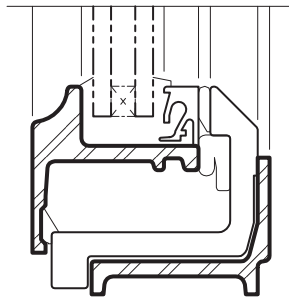
25 SIMULATED DIVIDED LITE MUNTIN PROFILES



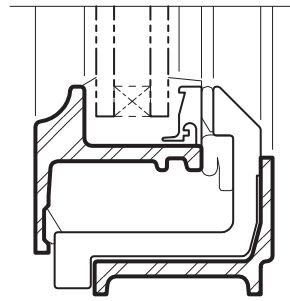
Details are full scale. Consult *Muntins, Mullions, Stacks & Deflection Channels* section of Hope's Architectural Binder for additional aluminum profile options. All Hope's products are custom manufactured to your specific project requirements.



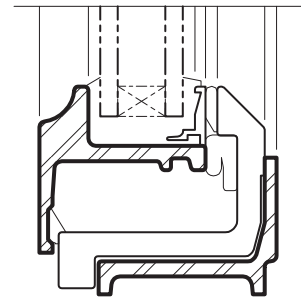
1/2" GLASS
SLOPED PROFILE
#339 BEAD



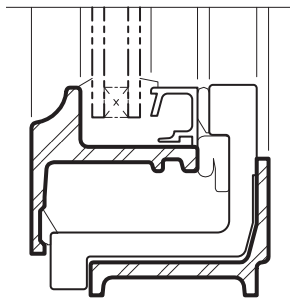
5/8" GLASS
SLOPED PROFILE
#41 BEAD



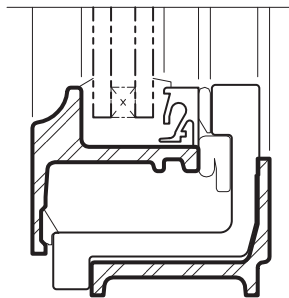
3/4" GLASS
SLOPED PROFILE
#42 BEAD



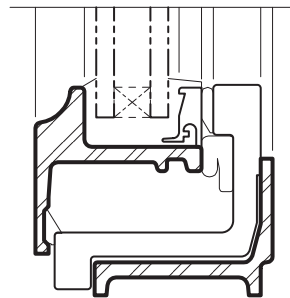
7/8" GLASS
SLOPED PROFILE
#24112-1 BEAD



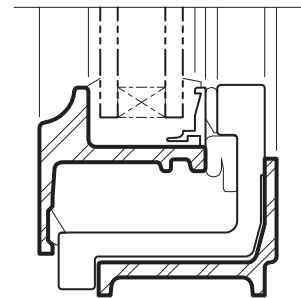
1/2" GLASS
SQUARE PROFILE
#339 BEAD



5/8" GLASS
SQUARE PROFILE
#41 BEAD



3/4" GLASS
SQUARE PROFILE
#42 BEAD



7/8" GLASS
SQUARE PROFILE
#24112-1 BEAD

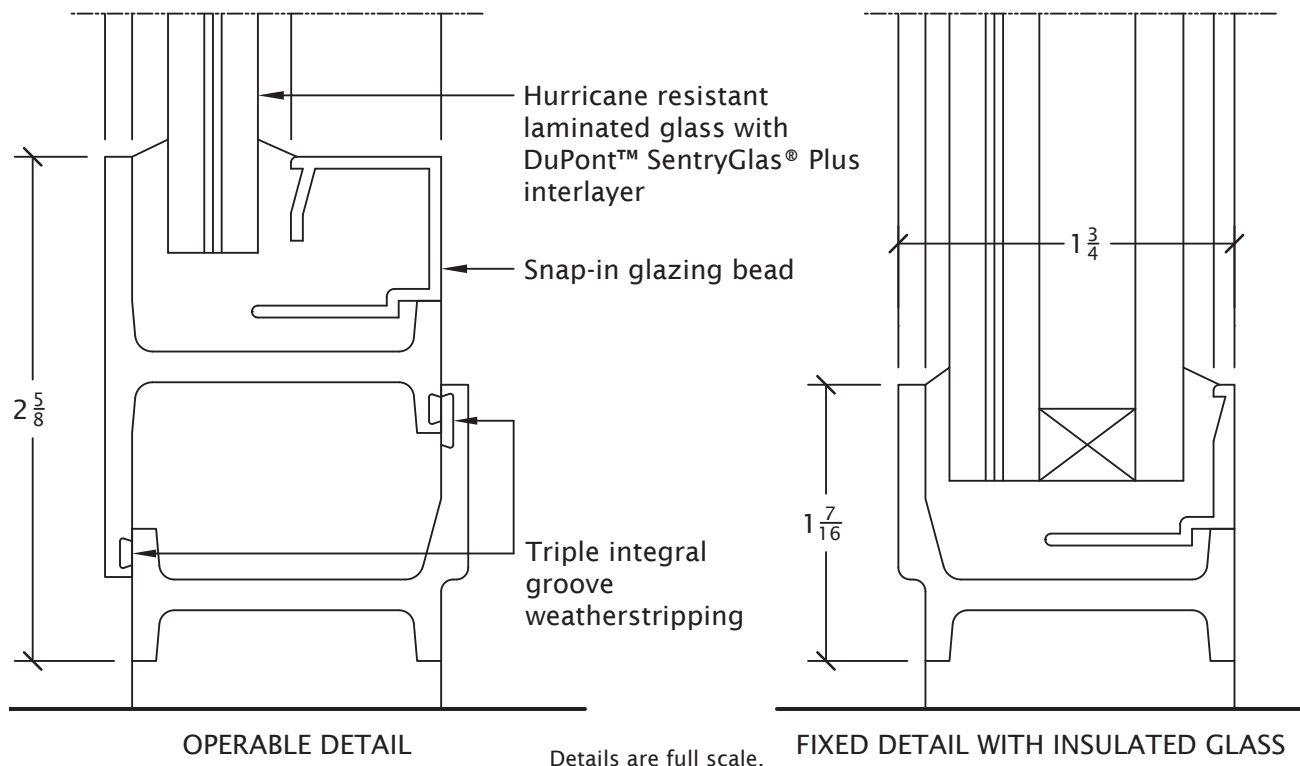
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

Hope's Jamestown175 Series impact approved steel window for hurricane resistant applications is manufactured from hot-rolled, heavy custom steel profiles. Fixed, side hung-out casement and project-out windows have been tested and exceed the ASTM hurricane testing protocols: ASTM 330 (structural), ASTM E1886 (cycle), ASTM E1996 (impact) and Florida Building Code (FBC) High Velocity Hurricane Zone (HVHZ) protocols: TAS 201 (impact), TAS 202 (air, water, structural) and TAS 203 (cyclic) for large missile impact. These windows do not require hurricane shutters.

PRODUCT FEATURES

- Unique narrow profiles and seamless, handcrafted construction
- Tested in compliance with the International Building Code (IBC), the International Residential Code (IRC), the Florida Building Code (FBC) including High Velocity Hurricane Zone (HVHZ) and the Dade County Product Control Division
- Pressure rating up to 80 psf, both positive and negative
- Solidly fusion welded, seamless corners for superior strength and water tightness
- Accepts hurricane resistant laminated glass and insulating glass up to 1-7/32" thick
- Triple integral groove weatherstripping
- Solid brass or bronze hardware
- Impact Resistant Product Approval labels attached to all products where such certification is required
- Florida Building Code (FBC) product approval for both impact and non-impact situations (including HVHZ areas)
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



MAXIMUM WINDOW SIZES AND DESIGN PRESSURE RATINGS

Hope's is continually testing additional products and larger sizes. Please contact Hope's for the most up to date information.

GLAZING

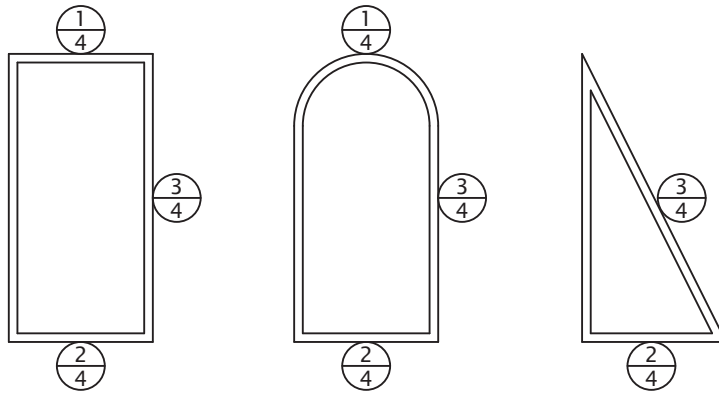
- 15/32" laminated glass or 1-7/32" insulating glass
- DuPont™ SentryGlas® Plus interlayer
- Snap-in glazing beads
- Dow Corning® #995 Structural Silicone sealant
- Interior or exterior glazing

ANCHORING

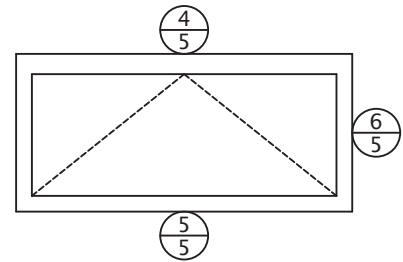
- Equal leg or long leg
- Wood or masonry construction
- Direct fastening or anchor clips

ALL WINDOWS MUST BE MANUFACTURED, INSTALLED AND GLAZED
IN STRICT ACCORDANCE WITH HOPE'S SHOP DRAWINGS.

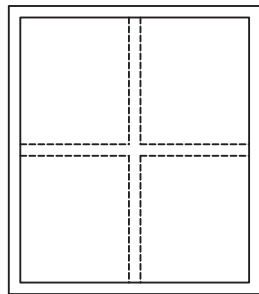
FIXED



PROJECT OUT

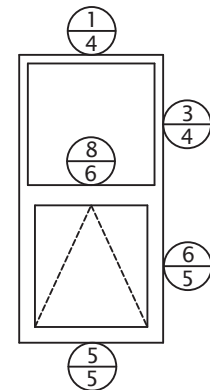


MUNTINS

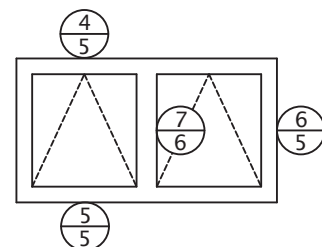
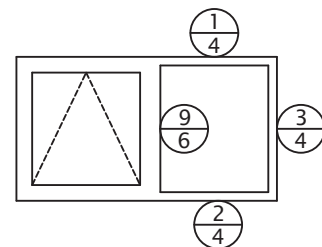
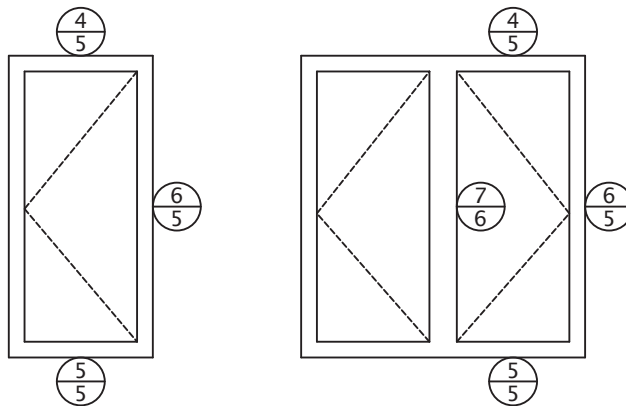


SIMULATED DIVIDED LITES (SDL)
(MUNTIN GRIDS)

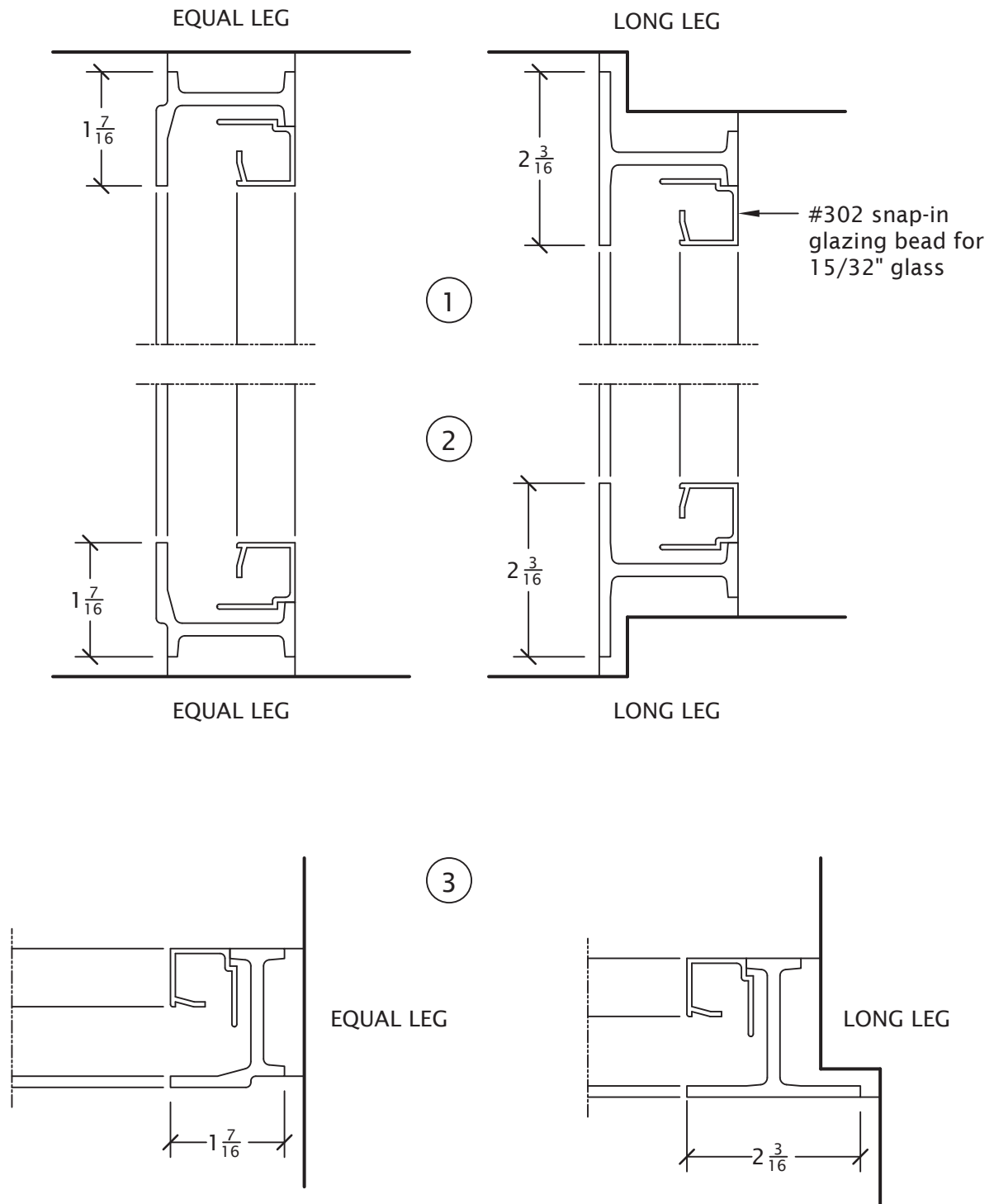
(Consult Hiope's for true divided lite
muntin options)



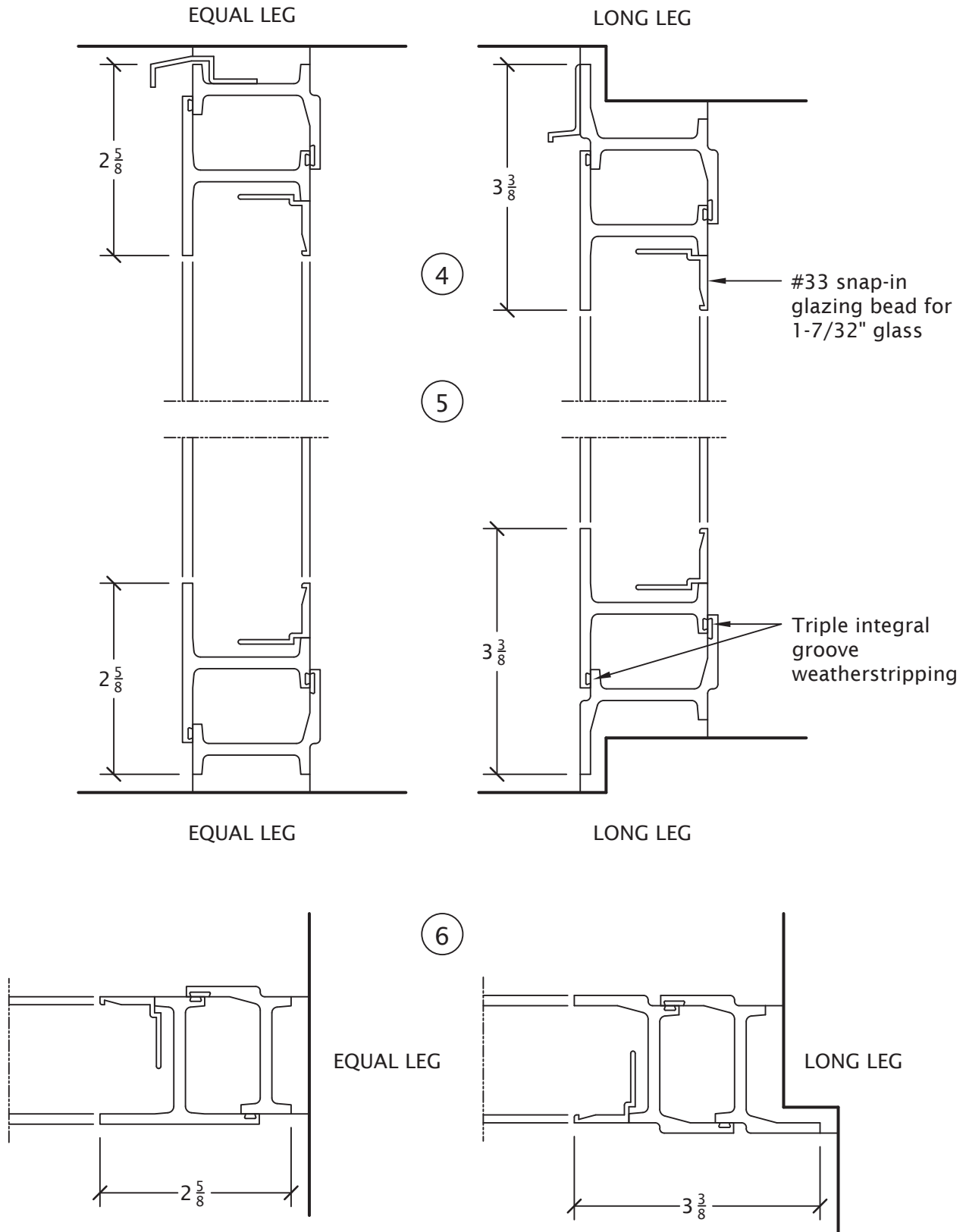
SIDE HUNG-OUT CASEMENT



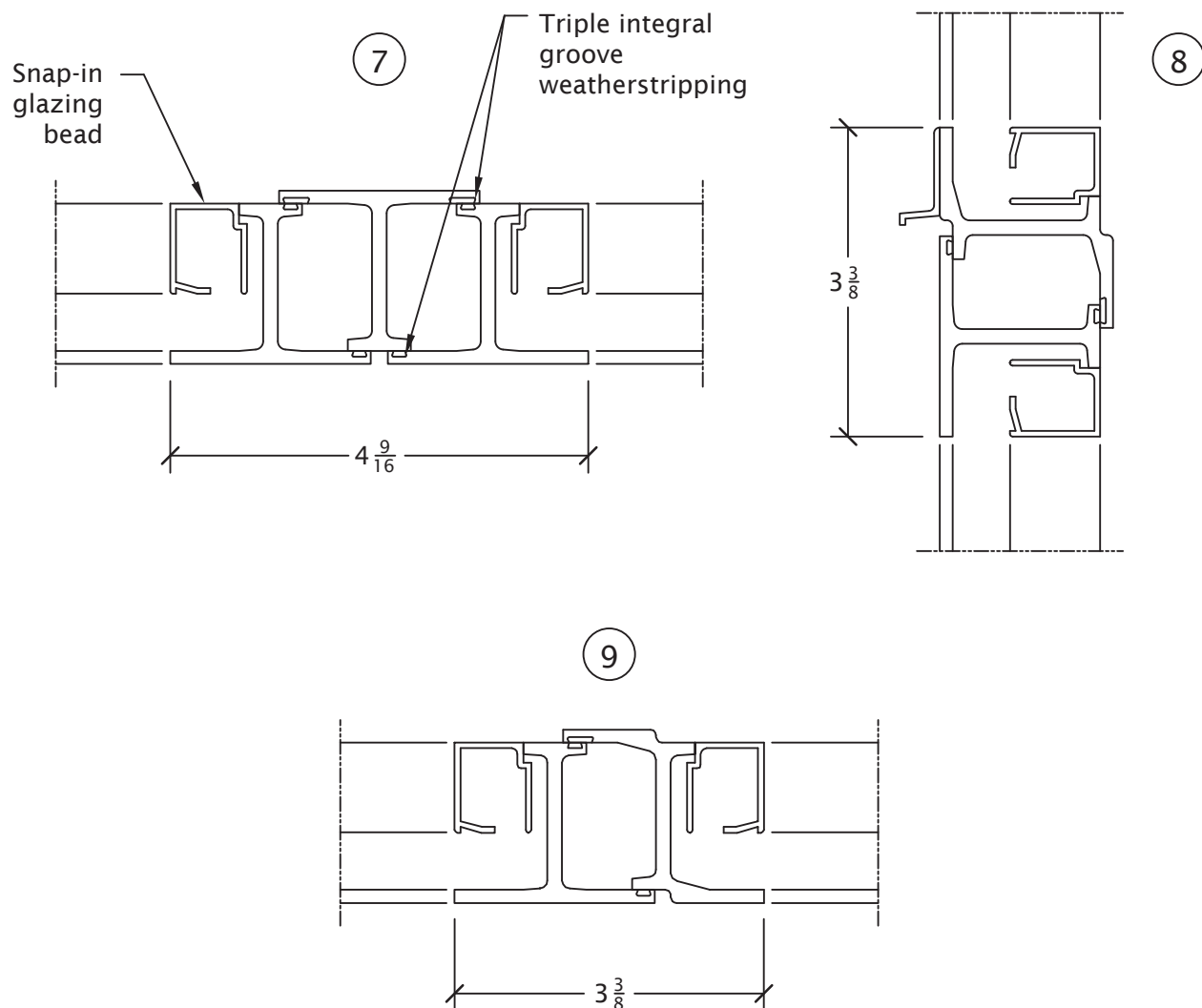
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



Details are half scale and shown with 15/32" glass.
See page 6 for further glazing bead options.

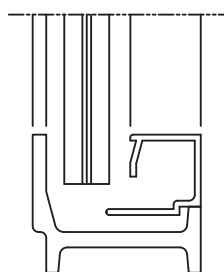


Details are half scale and shown with 1-7/32" glass.
See page 6 for further glazing bead options.

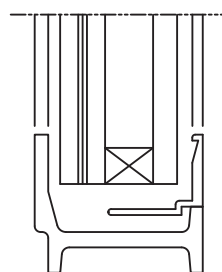


Details are half scale and shown with 5/16" glass.

SNAP-IN GLAZING BEADS



15/32" GLASS
#302 BEAD



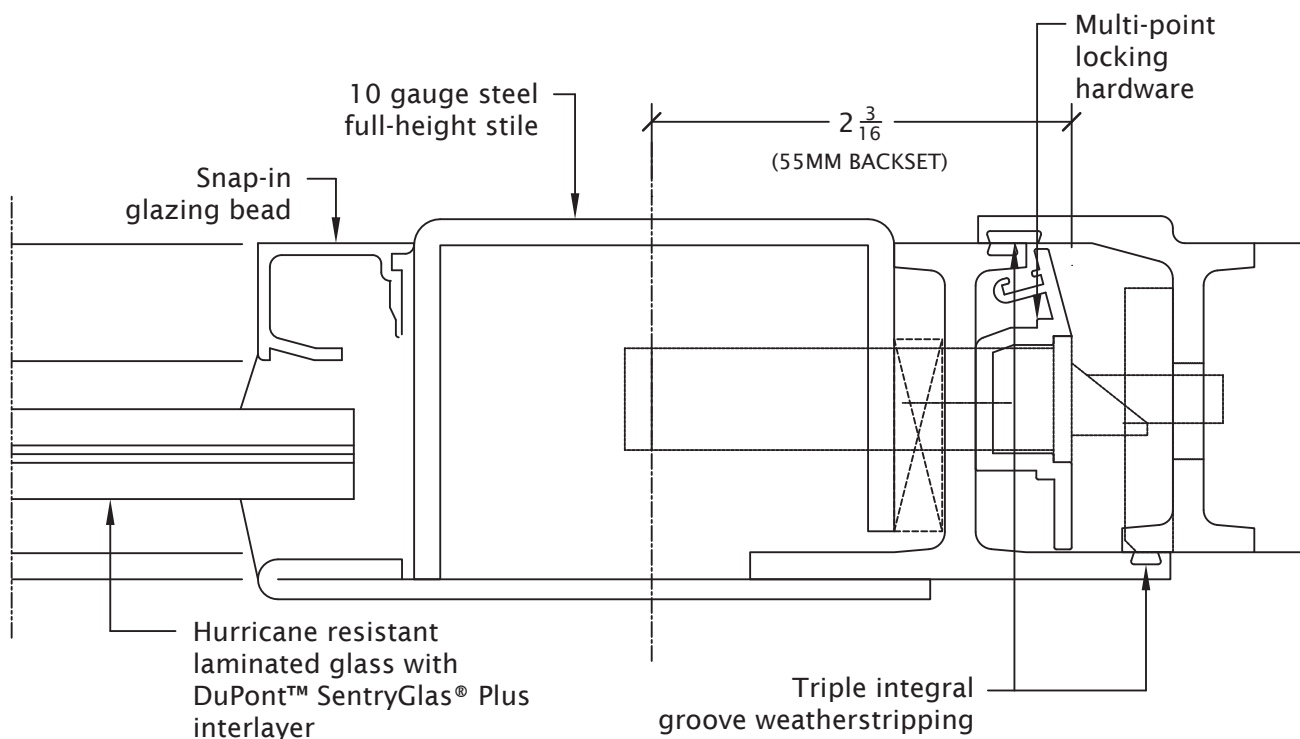
1-7/32" INSULATING GLASS
#33 BEAD

Details are half scale and shown inside glazed.

Hope's Jamestown175 Series impact approved steel doors for hurricane resistant applications are manufactured from hot-rolled, heavy custom steel profiles. Swing-out doors have been tested and exceed the ASTM hurricane testing protocols: ASTM 330 (structural), ASTM E1886 (cycle), ASTM E1996 (impact) and Florida Building Code (FBC) High Velocity Hurricane Zone (HVHZ) protocols: TAS 201 (impact), TAS 202 (air, water, structural) and TAS 203 (cyclic) for large missile impact. These doors do not require hurricane shutters.

PRODUCT FEATURES

- Unique narrow profiles and seamless, handcrafted construction
- Tested in compliance with the International Building Code (IBC), the International Residential Code (IRC), the Florida Building Code (FBC) including High Velocity Hurricane Zone (HVHZ) and the Dade County Product Control Division
- Pressure rating meets or exceeds FBC (HVHZ)/Miami-Dade product approval requirements
- Solidly fusion welded, seamless corners for superior strength and water tightness
- Accepts hurricane resistant laminated glass and insulating glass up to 1-7/32" thick
- Triple integral groove weatherstripping
- Solid brass or bronze hardware
- Impact Resistant Product Approval labels attached to all products where such certification is required
- Florida Building Code (FBC) product approval for both impact and non-impact situations (including HVHZ areas)
- 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.

MAXIMUM DOOR SIZES AND DESIGN PRESSURE RATINGS

Hope's is continually testing additional products and larger sizes. Please contact Hope's for the most up to date information.

GLAZING

- 15/32" laminated glass or 1-7/32" insulating glass (FBC only)
- DuPont™ SentryGlas® Plus interlayer
- Snap-in glazing beads
- Dow Corning® #995 Structural Silicone sealant
- Interior or exterior glazing

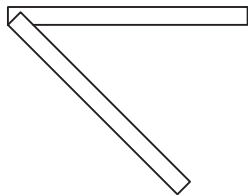
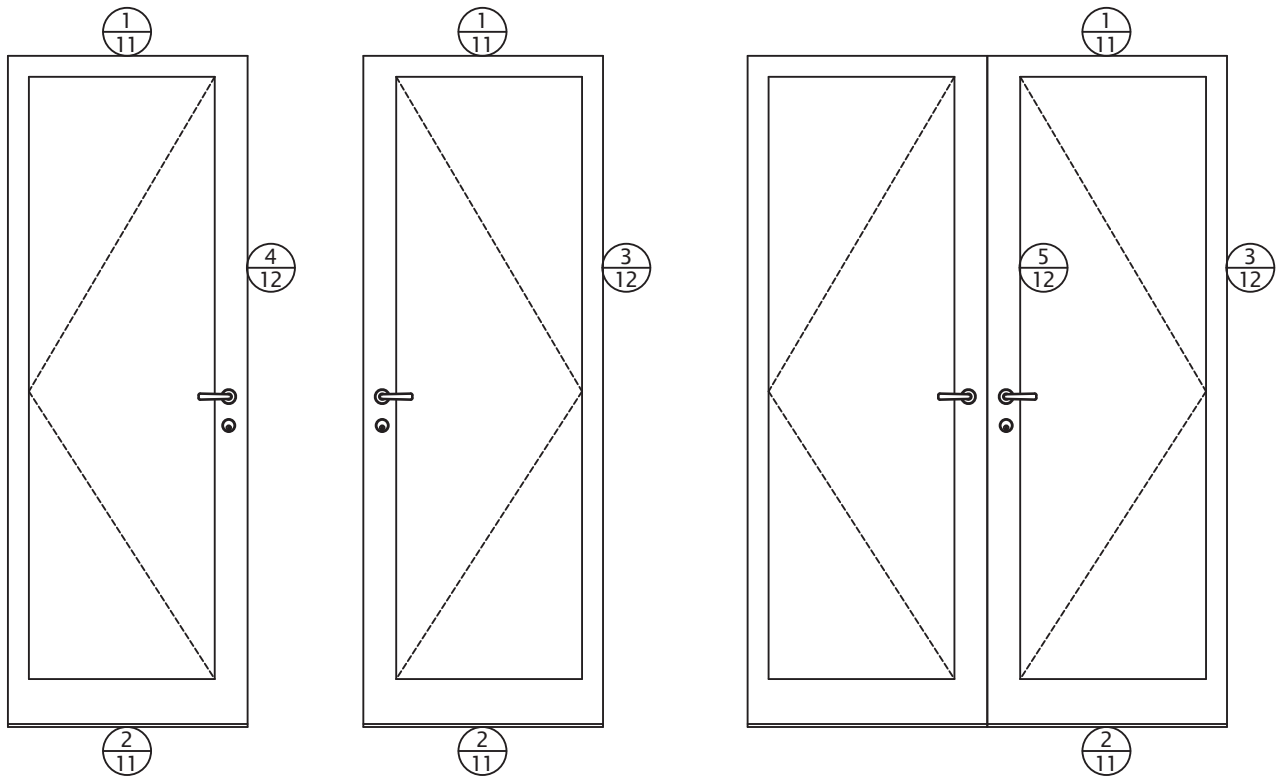
ANCHORING

- Equal leg or long leg
- Wood or masonry construction
- Direct fastening or anchor clips

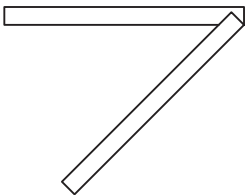
ALL DOORS MUST BE MANUFACTURED, INSTALLED AND GLAZED
IN STRICT ACCORDANCE WITH HOPE'S SHOP DRAWINGS.

SINGLE DOOR

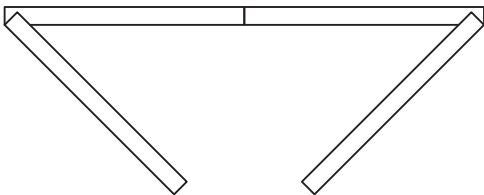
DOUBLE DOOR



LEFT HAND
(SWING-OUT)

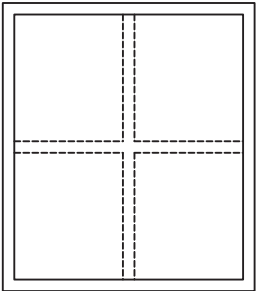


RIGHT HAND
(SWING-OUT)



LEFT HAND
(SWING-OUT)

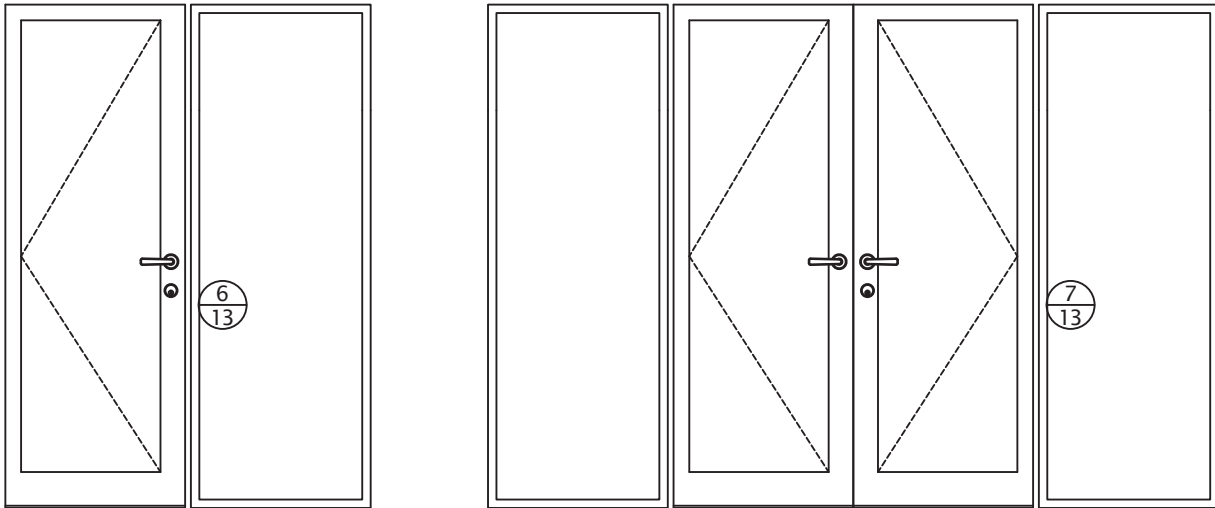
RIGHT HAND
(SWING-OUT)



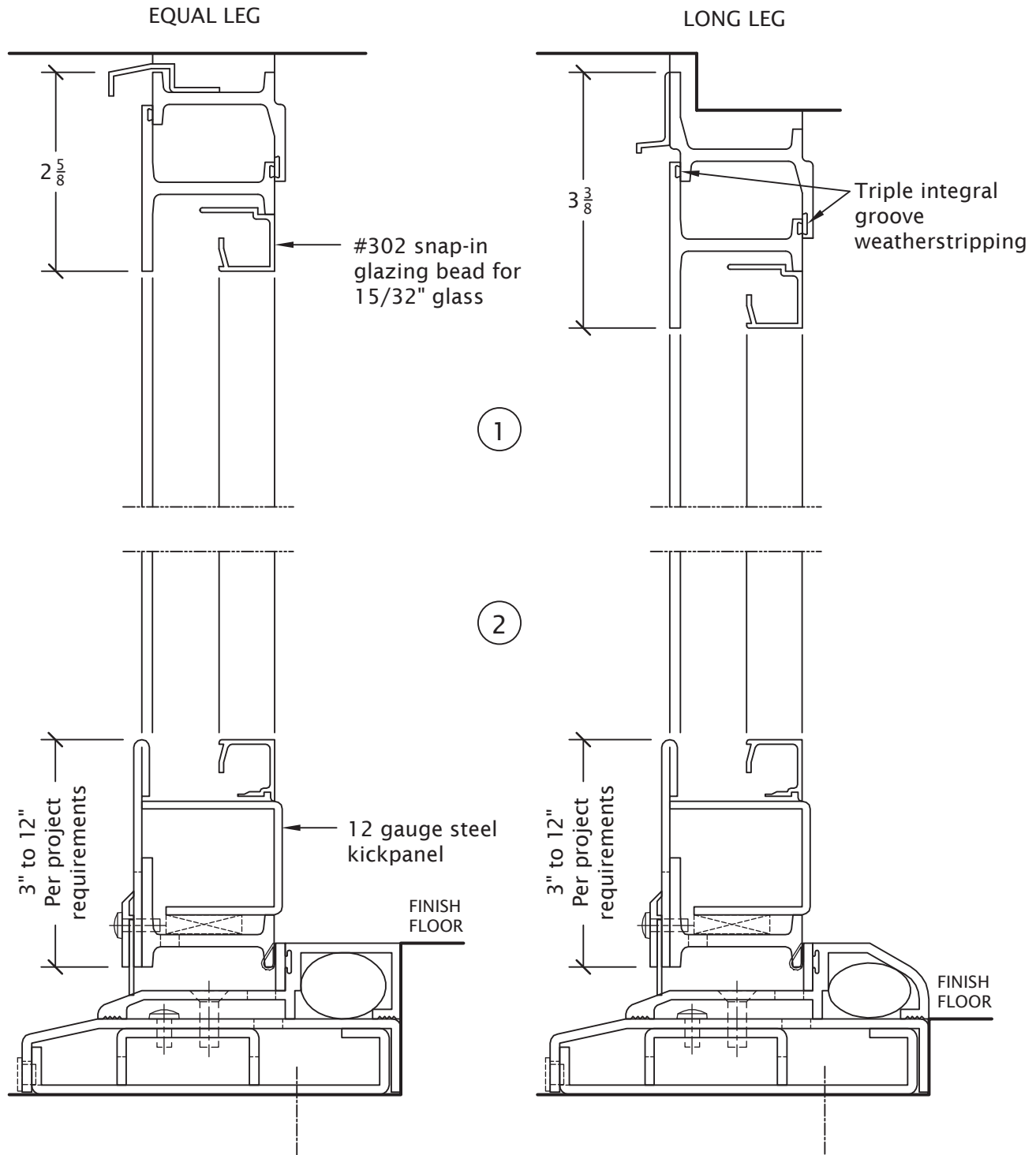
SIMULATED DIVIDED LITES (SDL)
(MUNTIN GRIDS)

(Consult Hiope's for true divided lite
muntin options)

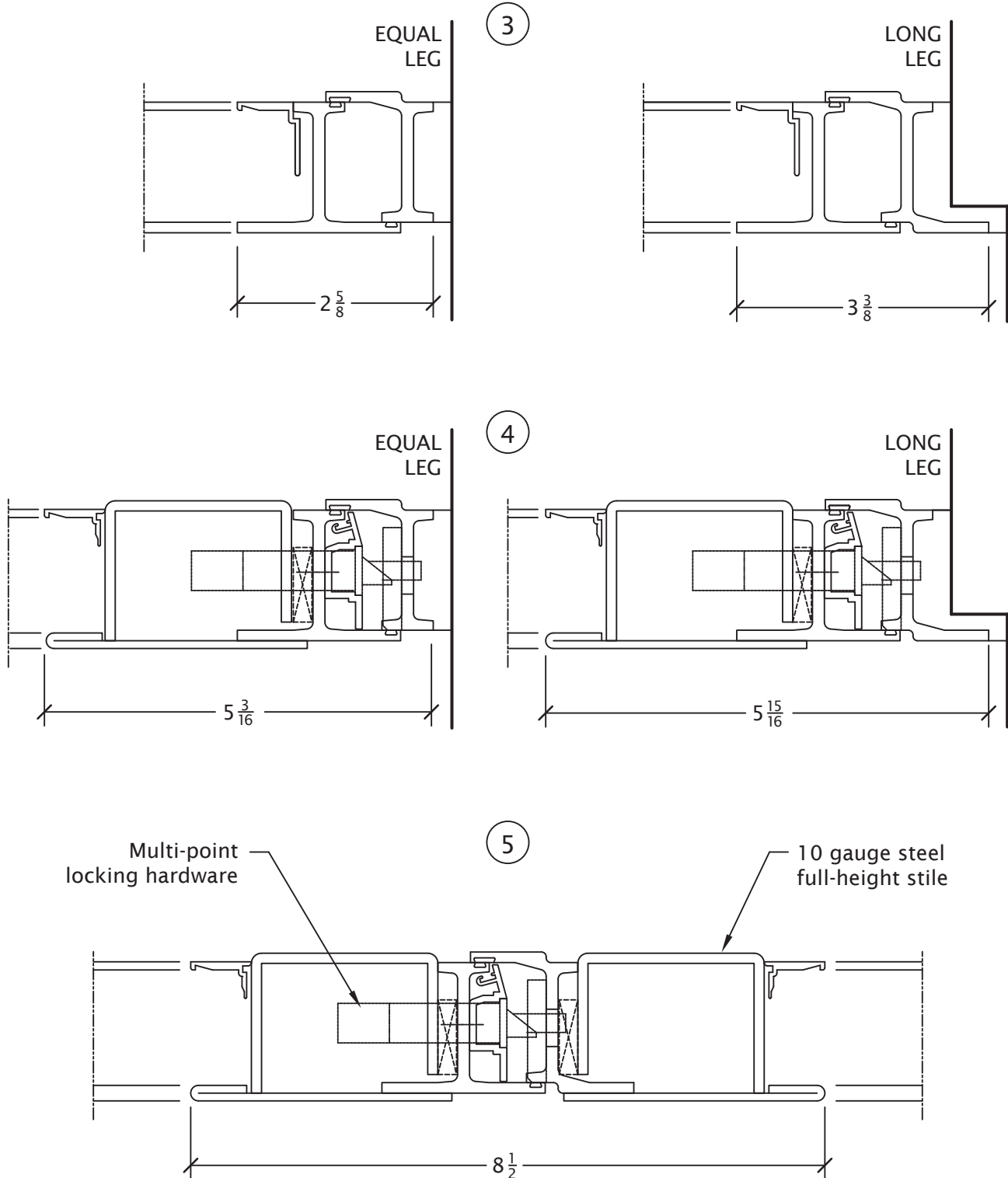
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



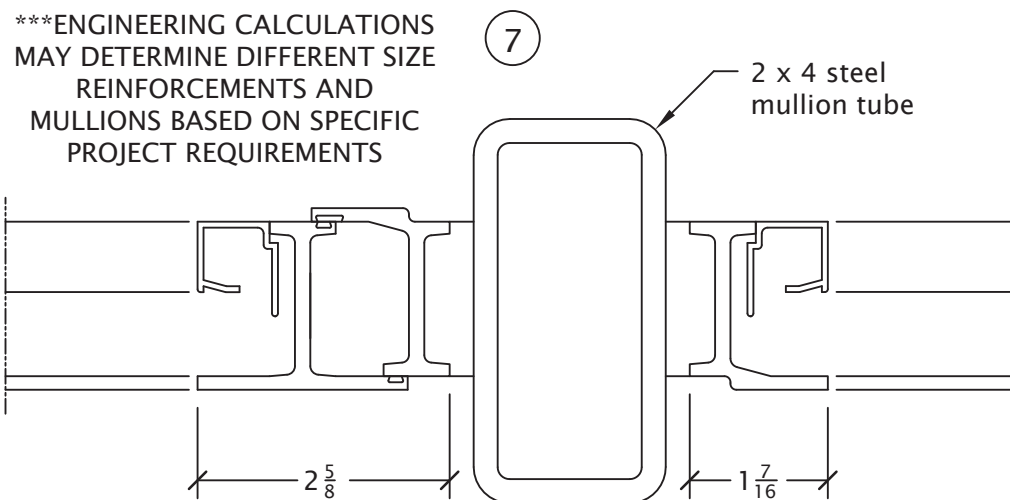
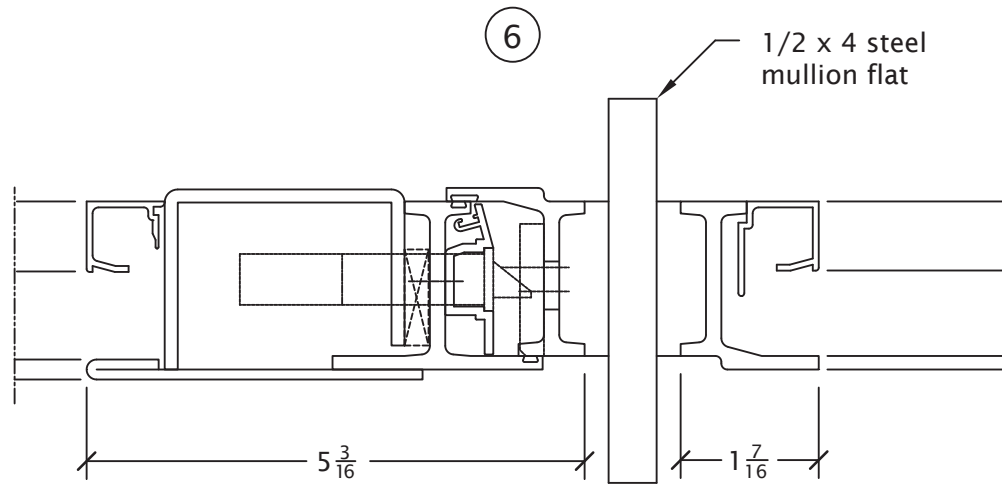
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



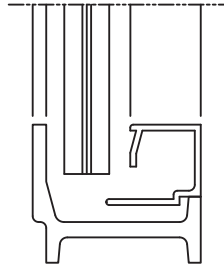
Details are half scale and shown inside glazed with 15/32" glass.
See page 14 for further glazing bead options.



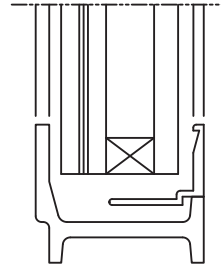
Details are half scale and shown inside glazed with 1-7/32" glass.
See page 14 for further glazing bead options.



Details are half scale and shown inside glazed with 15/32" glass.
See page 14 for further glazing bead options.



1 5/32" GLASS
#302 BEAD



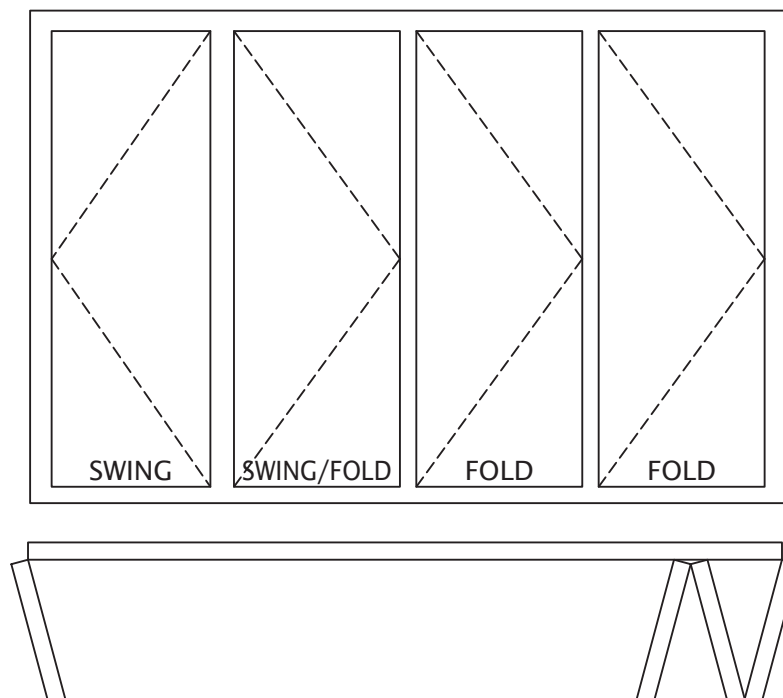
1 7/32" INSULATING GLASS
#33 BEAD

Details are half scale and shown inside glazed.

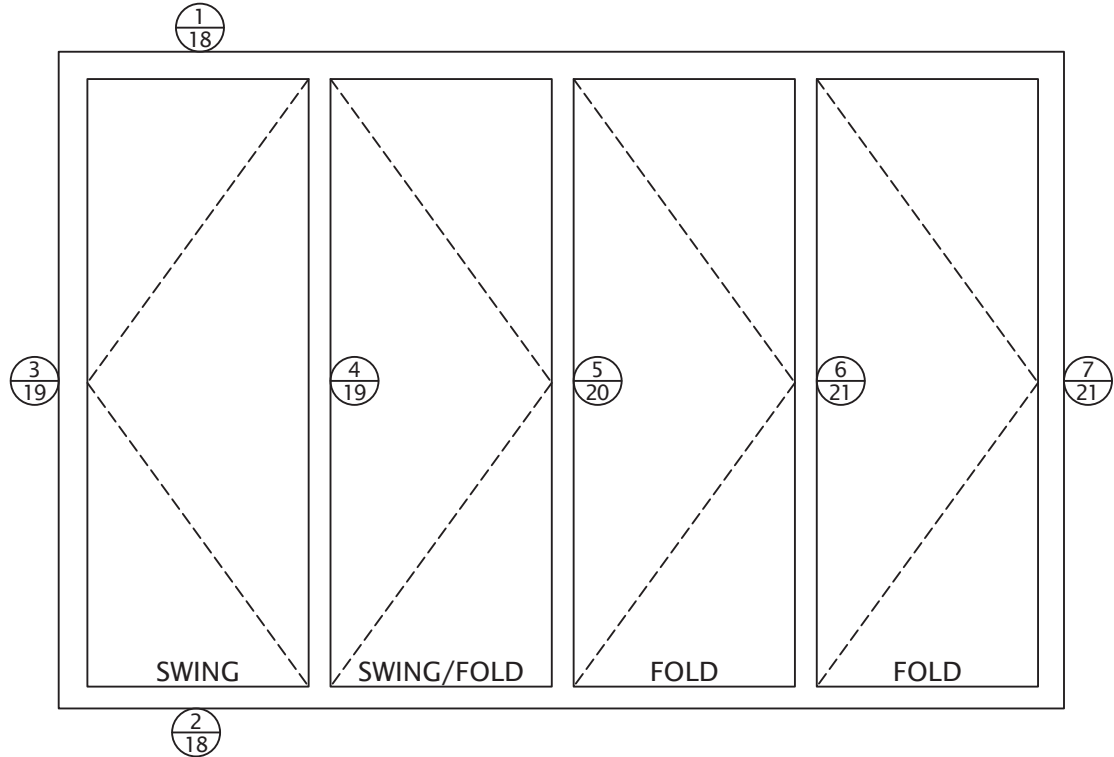
Hope's Hopkins Series impact resistant slide and fold door frames are custom formed steel for luxury residential or commercial projects. All configurations include a single active swing leaf that can be used for passage in addition to the folding leaves that can be opened to achieve a maximum clear opening. Operable hardware include a 4-wheel overhead carriage and track system with corresponding 2-wheel sill guides for smooth operation and multi-point locking gears. Top and bottom bolts are applied to secure the folding leaves to the frame. Hope's Hopkins Series impact resistant slide and fold doors can also complement the Jamestown175™ Series windows and doors.

PRODUCT FEATURES

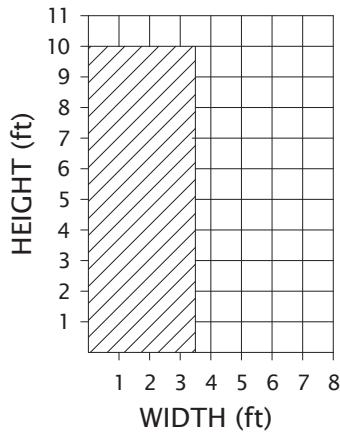
- Unique narrow profiles and seamless, handcrafted construction
- Tested in compliance with the International Building Code (IBC), the International Residential Code (IRC), and the Florida Building Code (FBC) including High Velocity Hurricane Zone (HVHZ)/Miami-Dade requirements
- Solidly fusion welded, seamless corners for superior strength and water tightness
- Accepts hurricane resistant 19/32" thick laminated glass
- Solid brass or bronze levers, rosette and escutcheon trim sets
- Impact Resistant Product Approval labels attached to all products where such certification is required
- Florida Building Code (FBC) product approval for impact situations
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



Elevations are not to scale.
See page 17 for typical configurations.

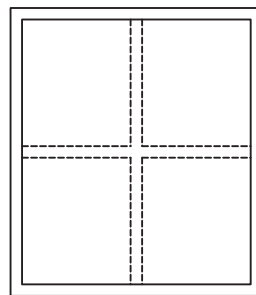
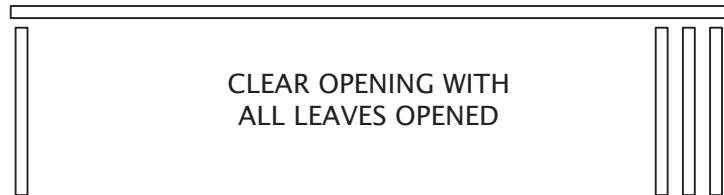


RECOMMENDED SIZES



Weight limit per panel - 264 lbs

NOTE: Hope's is continually testing additional products and larger sizes. Please contact Hope's for the most up to date information.



SIMULATED
DIVIDED LITES (SDL)
(MUNTIN GRIDS)

MUNTINS

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

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

NOTE: SEE BELOW FOR
CONFIGURATIONS
OPPOSITE TO THOSE
SHOWN ON THE LEFT

SCHEME 3L
3 TOTAL LEAVES
2 FOLDING / 1 SWING
0 SWING



SCHEME 3R
3 TOTAL LEAVES
0 SWING
2 FOLDING / 1 SWING

SCHEME 3L1R
4 TOTAL LEAVES
2 FOLDING / 1 SWING
1 SWING



SCHEME 1L3R
4 TOTAL LEAVES
1 SWING
2 FOLDING / 1 SWING

SCHEME 5L
5 TOTAL LEAVES
4 FOLDING / 1 SWING
0 SWING



SCHEME 5R
5 TOTAL LEAVES
0 SWING
4 FOLDING / 1 SWING

SCHEME 3L3R
6 TOTAL LEAVES
2 FOLDING / 1 SWING
2 FOLDING / 1 SWING

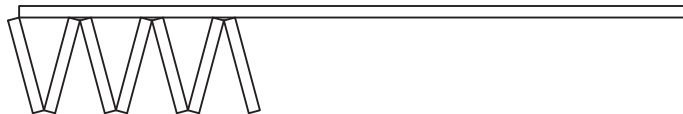


SCHEME 5L1R
6 TOTAL LEAVES
4 FOLDING / 1 SWING
1 SWING



SCHEME 1L5R
6 TOTAL LEAVES
1 SWING
4 FOLDING / 1 SWING

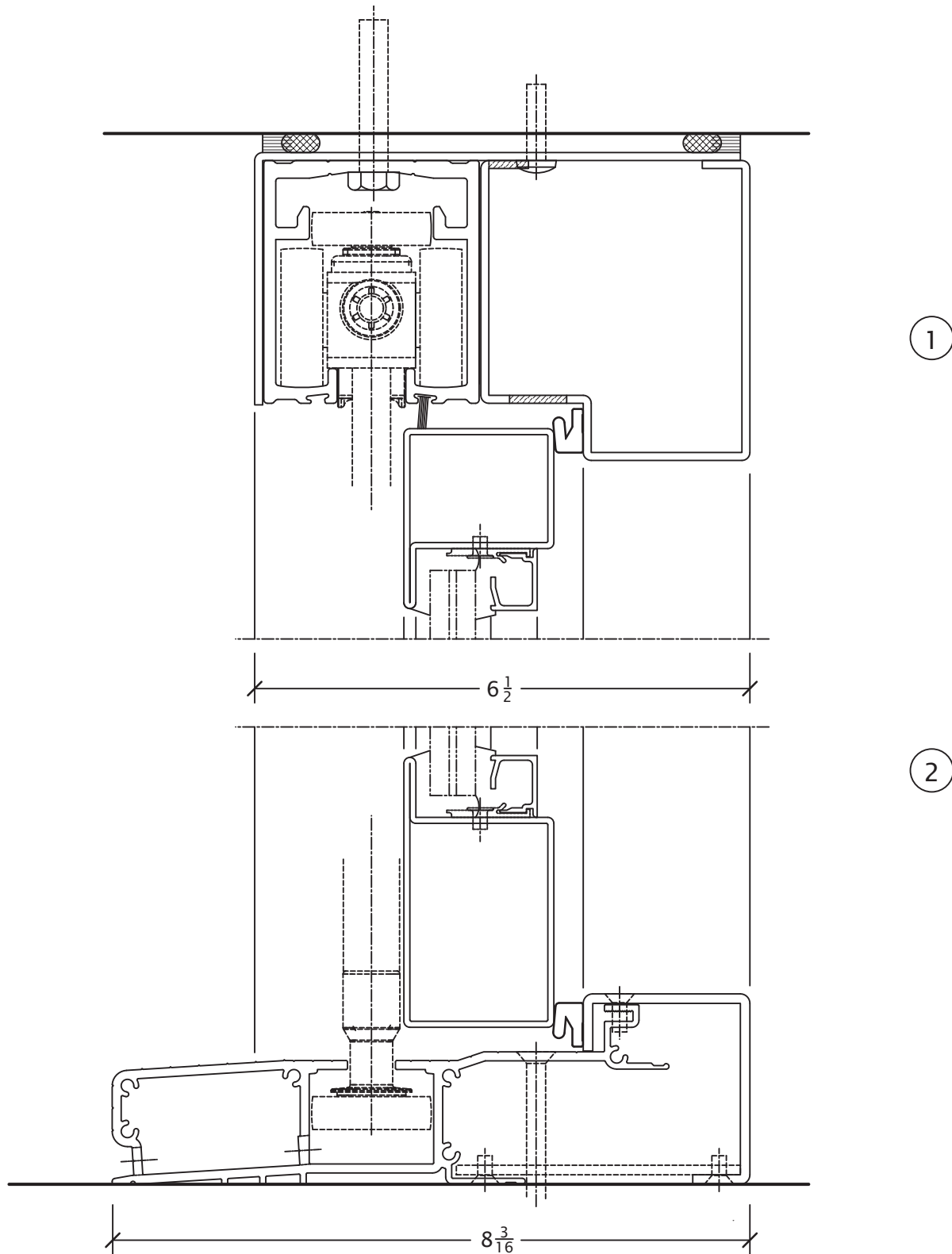
SCHEME 7L
7 TOTAL LEAVES
6 FOLDING / 1 SWING
0 SWING



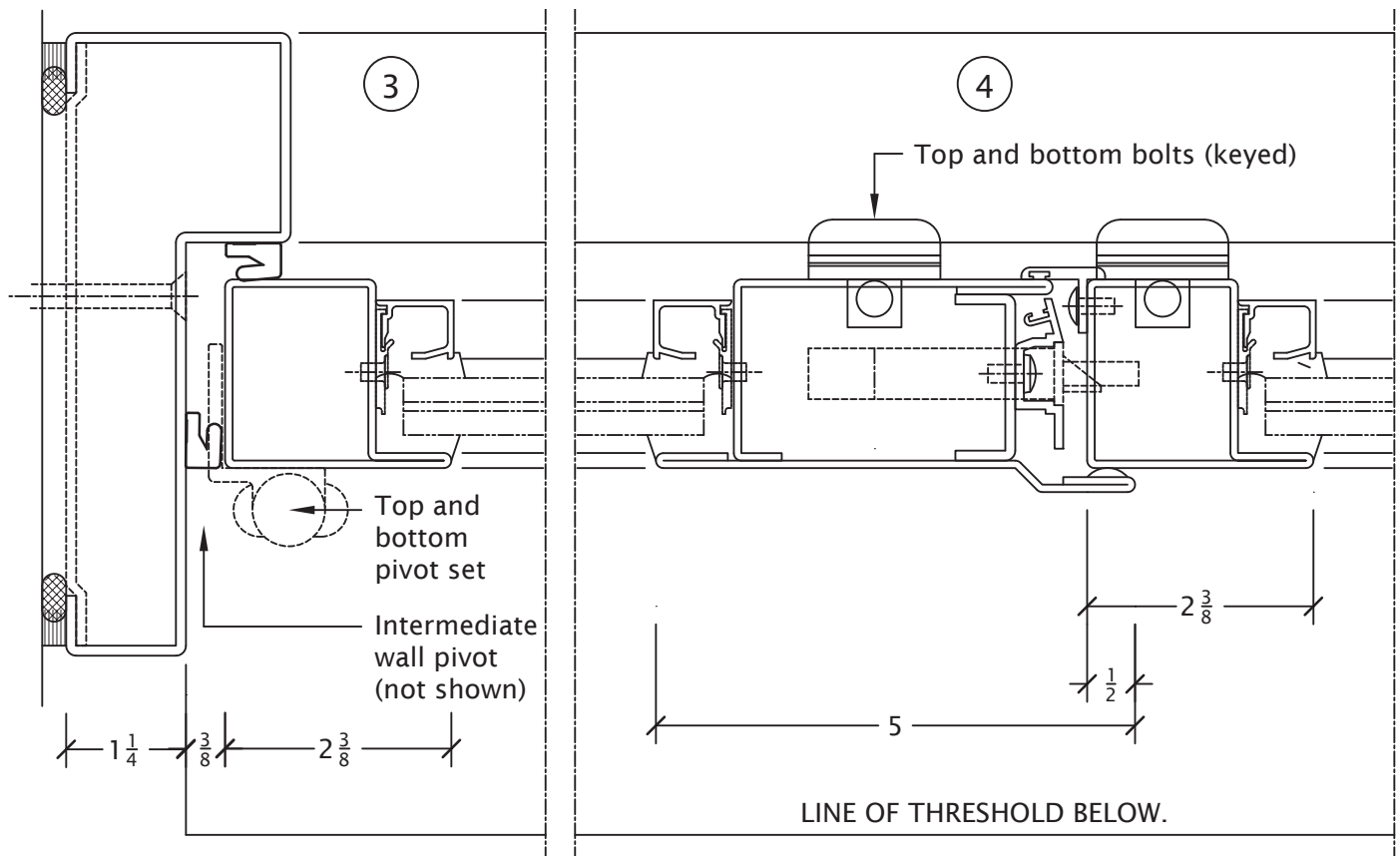
SCHEME 7R
7 TOTAL LEAVES
0 SWING
6 FOLDING / 1 SWING

Other configurations are available. Please consult Hope's.

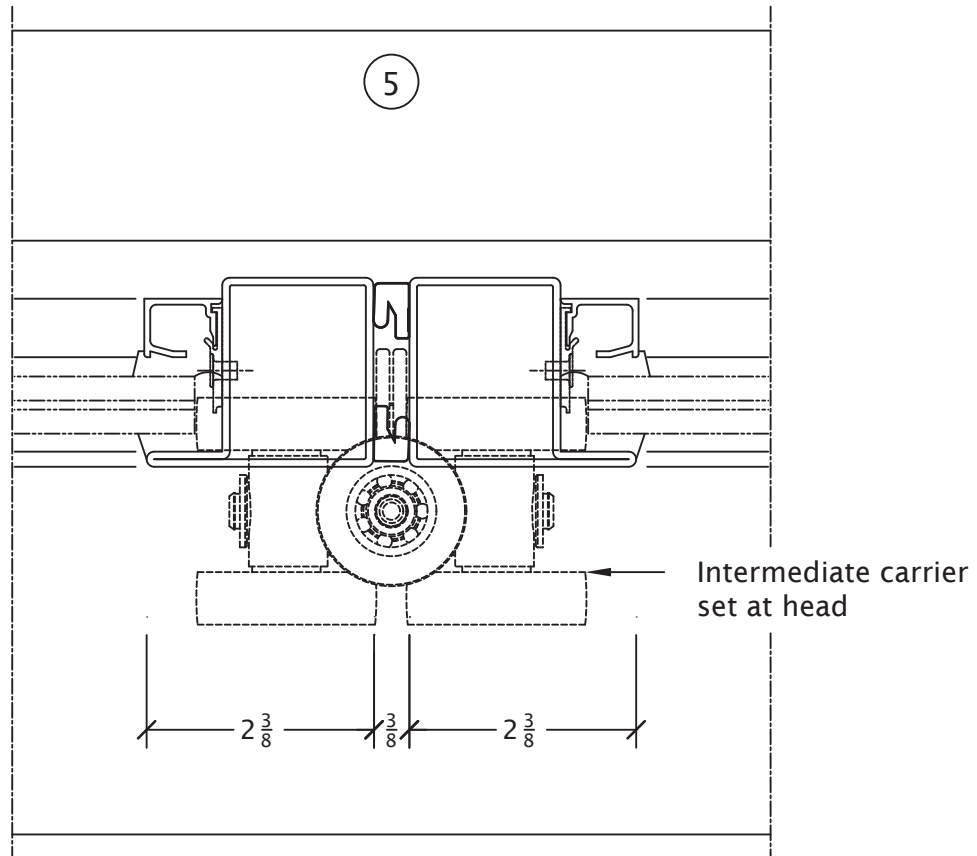
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



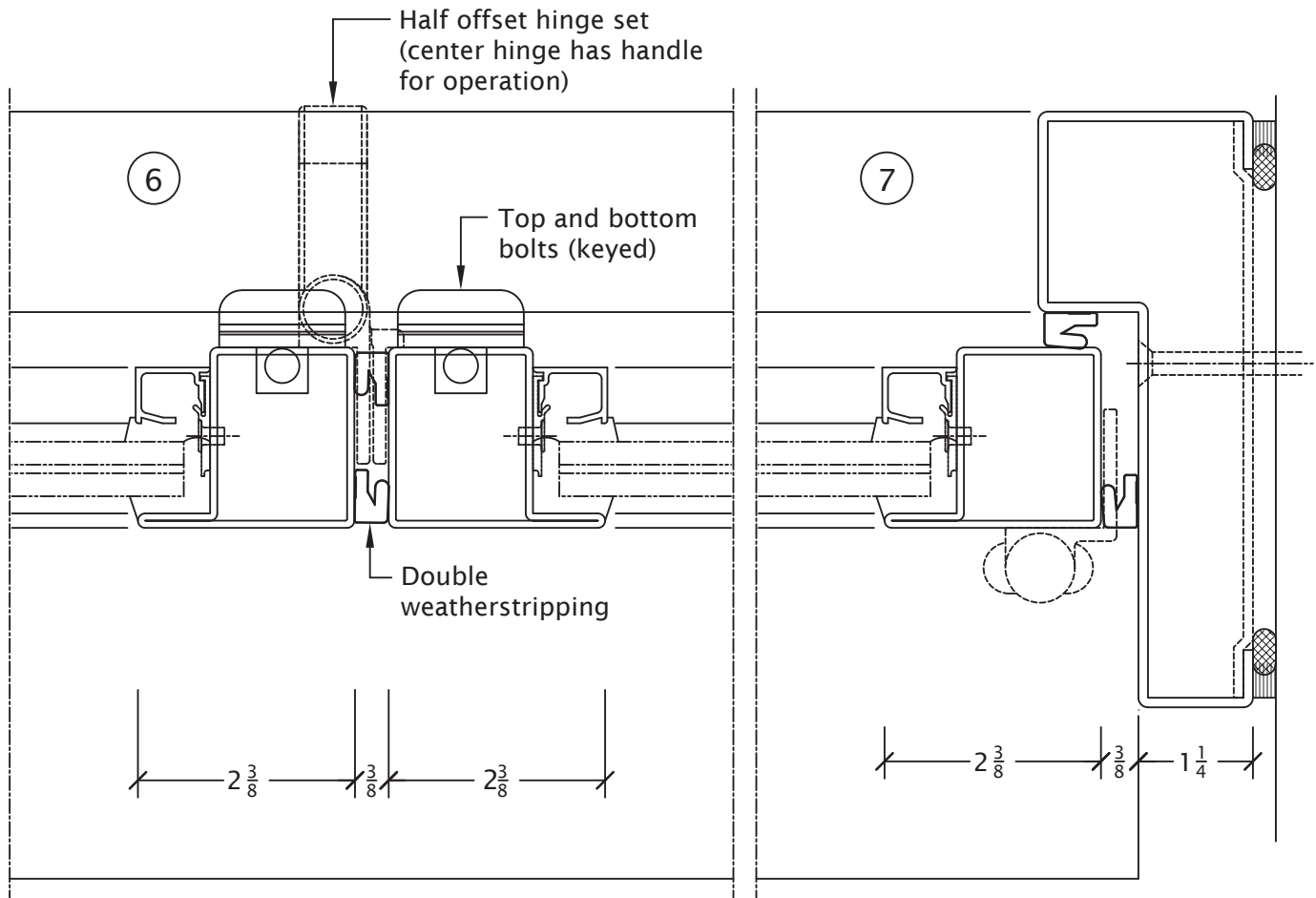
Details are half scale and shown inside glazed with 19/32" laminated glass.



Details are half scale and shown inside glazed with 19/32" laminated glass.



Details are half scale and shown inside glazed with 19/32" laminated glass.



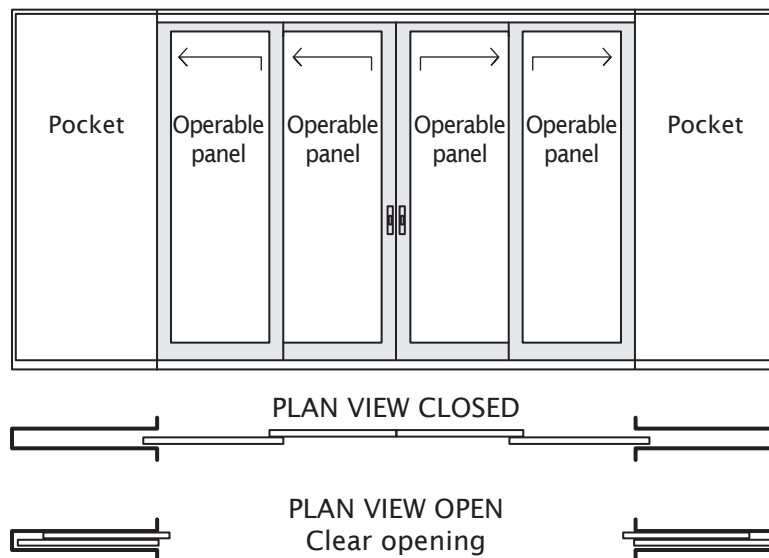
Details are half scale and shown inside glazed with 19/32" laminated glass.

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Hope's 5000 Series Lift and Slide steel doors are impact tested and approved for hurricane resistant applications and are manufactured from custom formed steel profiles that maintain the elegance and narrow sightlines associated with steel windows and doors. Lift and slide doors have been tested and exceed the ASTM hurricane testing protocols: ASTM 330 (structural), ASTM E1886 (cycle), ASTM E1996 (impact) and Florida Building Code (FBC) High Velocity Hurricane Zone (HVHZ) protocols: TAS 201 (impact), TAS 202 (air, water, structural) and TAS 203 (cyclic) for large missile impact. These doors do not require hurricane shutters.

PRODUCT FEATURES

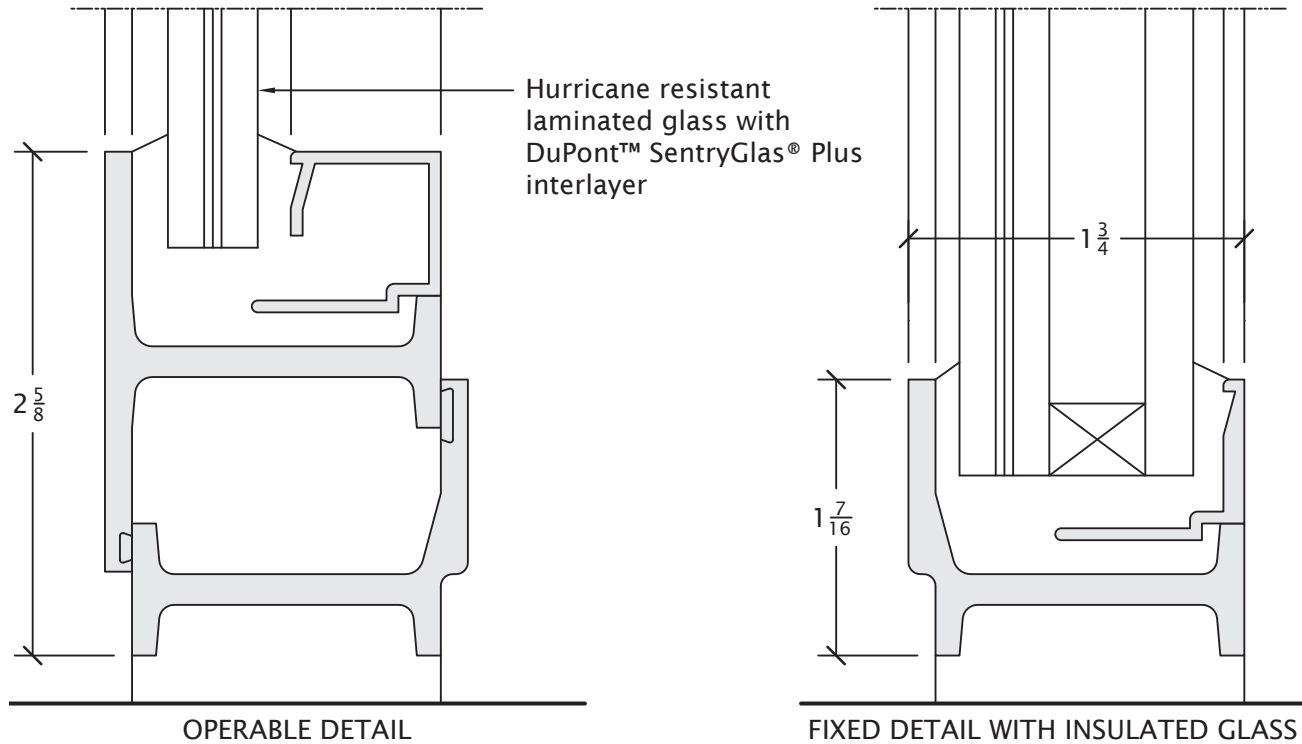
- Narrow sightlines
- Handcrafted construction
- Tested in compliance with the International Building Code (IBC), the International Residential Code (IRC), the Florida Building Code (FBC) including High Velocity Hurricane Zone (HVHZ) and the Dade County Product Control Division
- Pressure rating meets or exceeds FBC (HVHZ)/Miami-Dade product approval requirements
- Welded corners for superior strength and water tightness
- Accepts hurricane resistant laminated glass and insulating glass up to 1-7/32" thick
- Pocketing and fixed sidelite configurations; multiple panel configurations
- Solid brass or bronze hardware
- Impact Resistant Product Approval labels attached to all products where such certification is required
- Florida Building Code (FBC) product approval for both impact and non-impact situations (including HVHZ areas)
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



Elevations are not to scale.

INTENTIONALLY LEFT BLANK

The ageless beauty and elegance of solid bronze windows and doors are the ultimate complement to elite properties while providing the tranquility of proven hurricane protection. With the successful completion of certified hurricane impact testing, Hope's is proud to offer the unique opportunity of impact approved solid bronze windows and doors that have been tested in accordance with the stringent hurricane requirements of the Florida Building Code, including the High Velocity Hurricane Zone, impact product requirements.

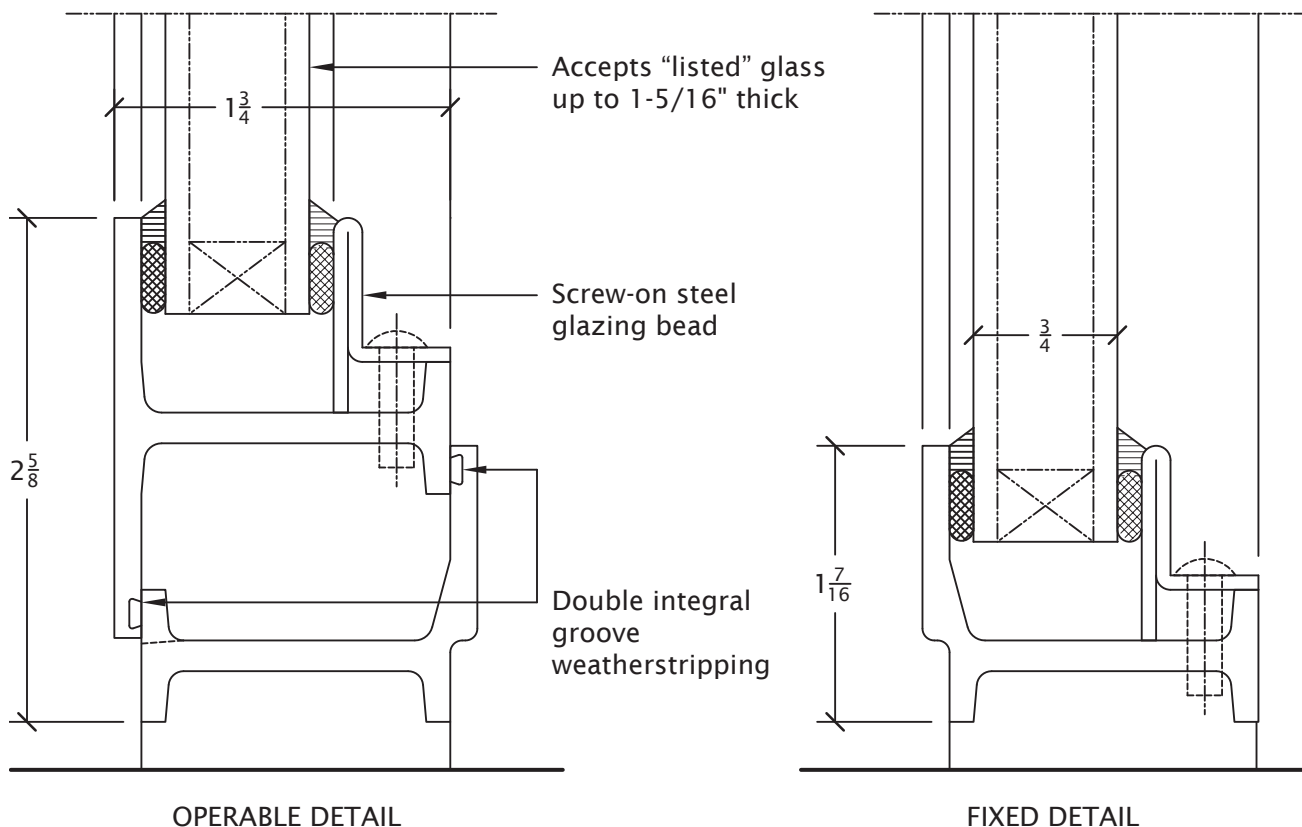


Details are full scale.

INTENTIONALLY LEFT BLANK

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.

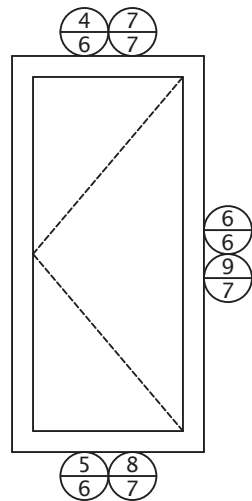
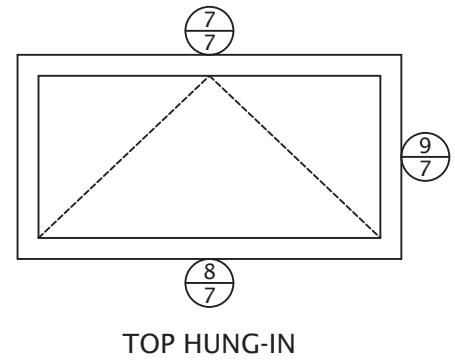
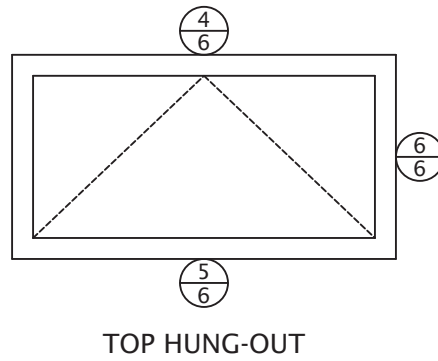
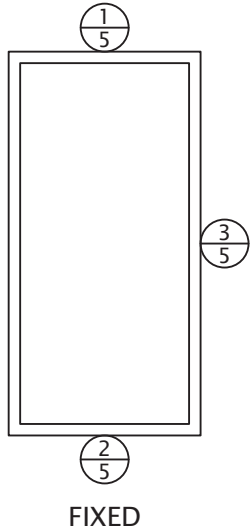
- Maximum Glass Area: 4,164 sq. in.
- Maximum Dimension (HT): 95-3/16"
- Maximum Dimension (WD): 58-5/8"

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.

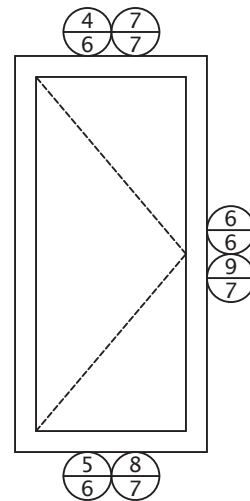
EXAMPLES

- 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.

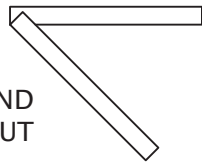
Consult Hope's for assistance in determining between the glass manufacturer's size limitations and Hope's window limitations.



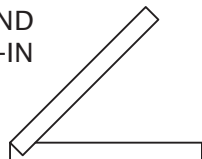
SIDE HUNG-IN
CASEMENT



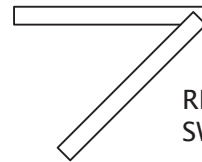
LEFT HAND
SWING-OUT



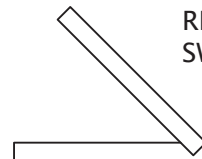
LEFT HAND
SWING-IN



RIGHT HAND
SWING-OUT

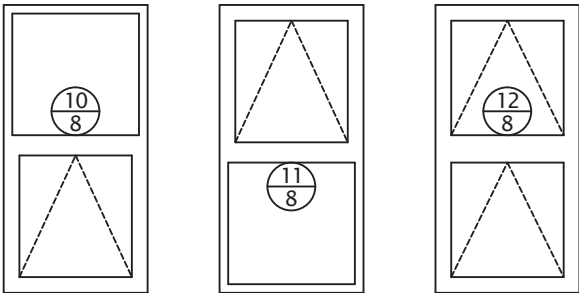


RIGHT HAND
SWING-IN

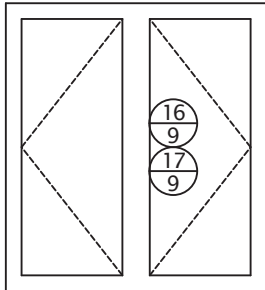
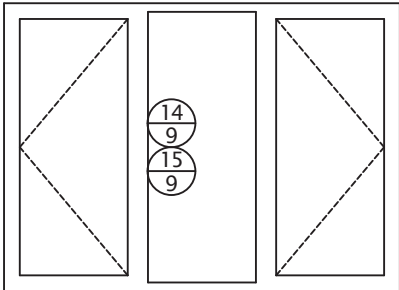
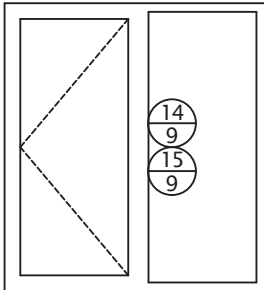
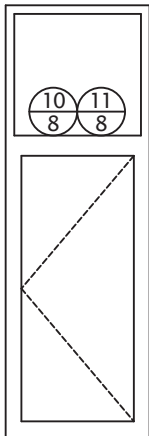
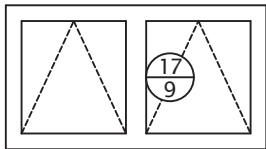
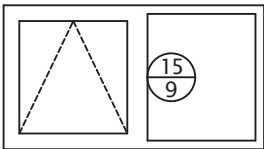
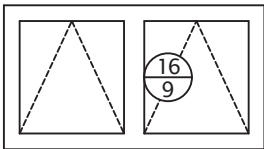
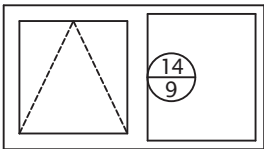
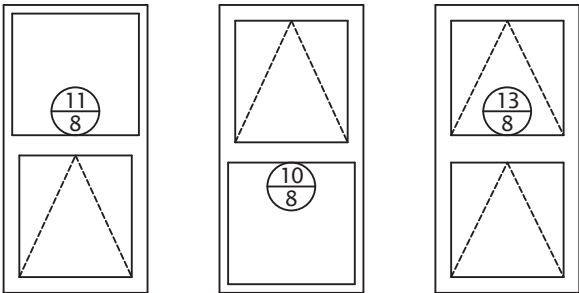


Elevations are for detail reference only. Elevations are not to scale.
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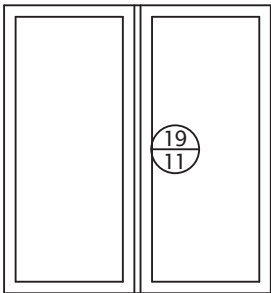
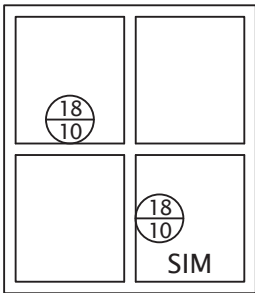
SWING-OUT



SWING-IN

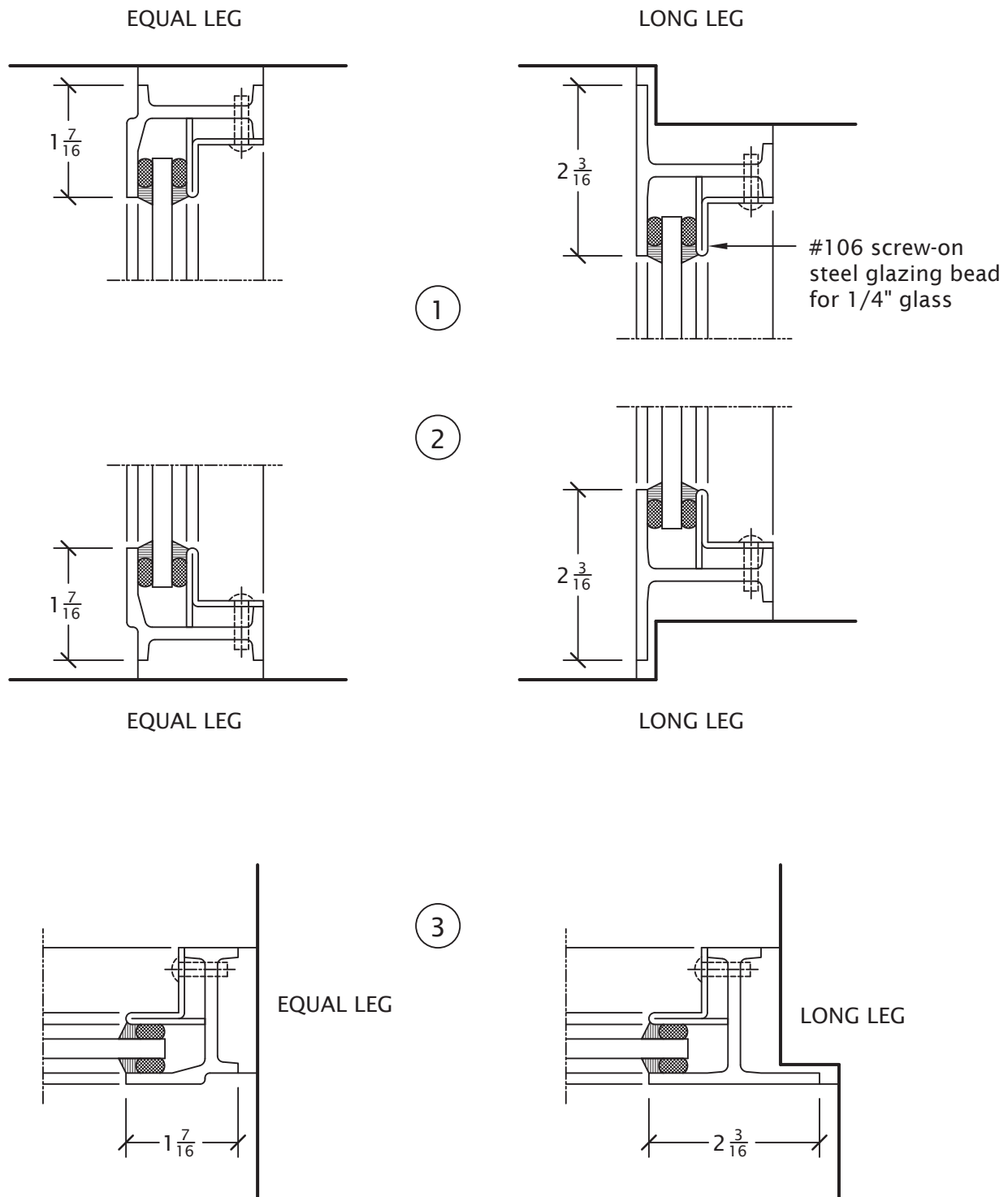


TRUE
DIVIDED
LITES (TDL)

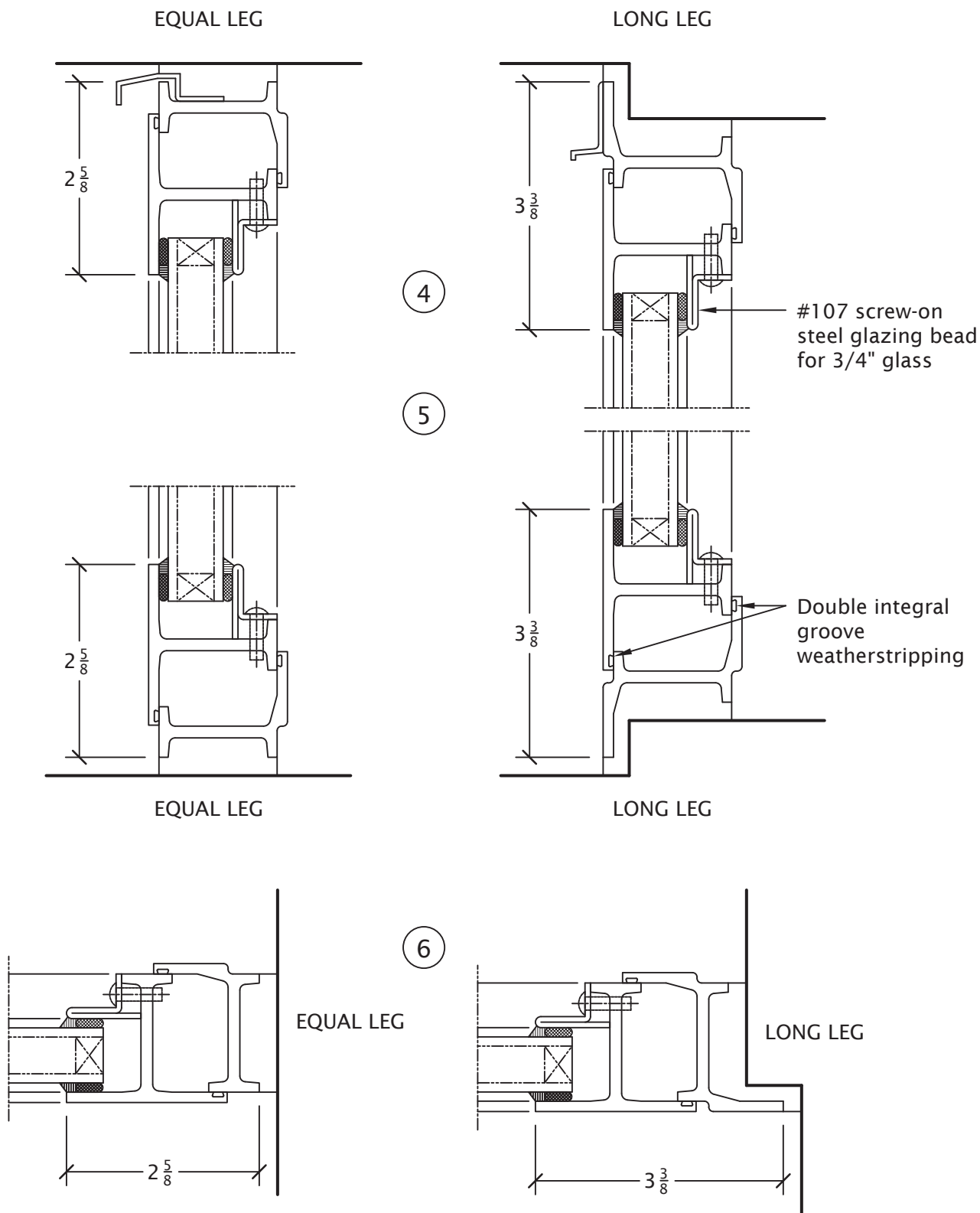


MULLION
DETAILS

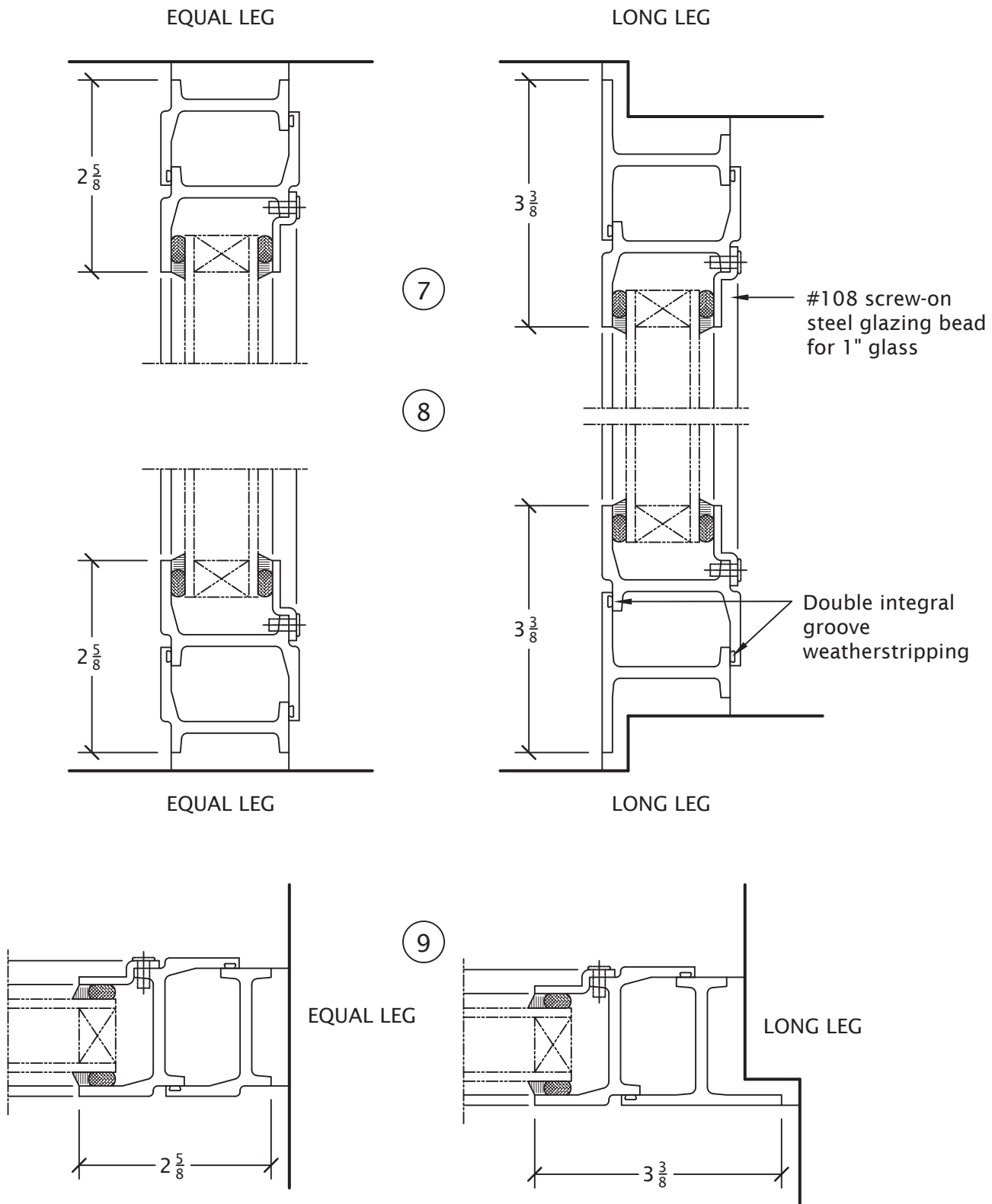
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



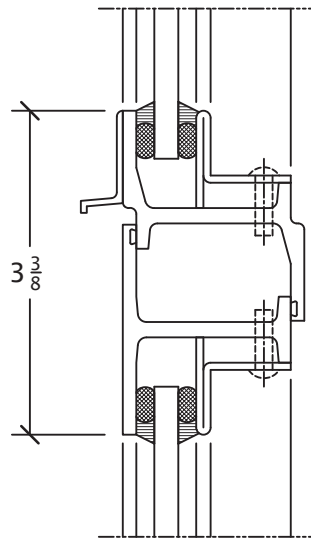
Details are half scale and shown inside glazed with 1/4" glass.
See page 12 for further glazing bead options.



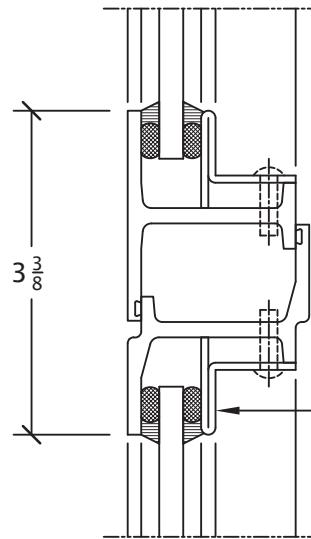
Details are half scale and shown inside glazed with 3/4" glass.
See page 12 for further glazing bead options.



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

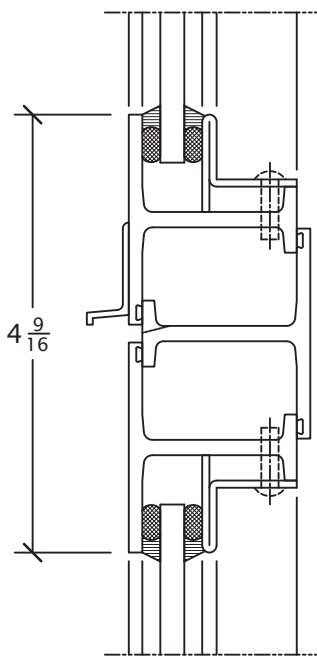


10

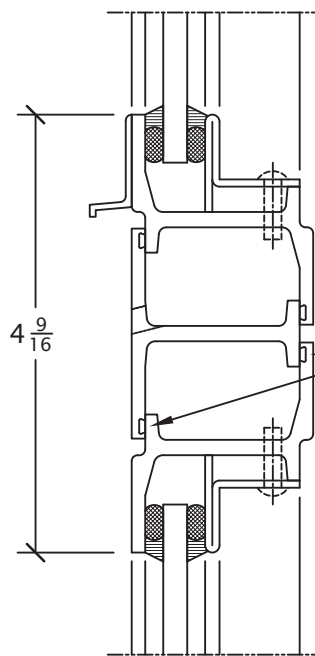


11

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



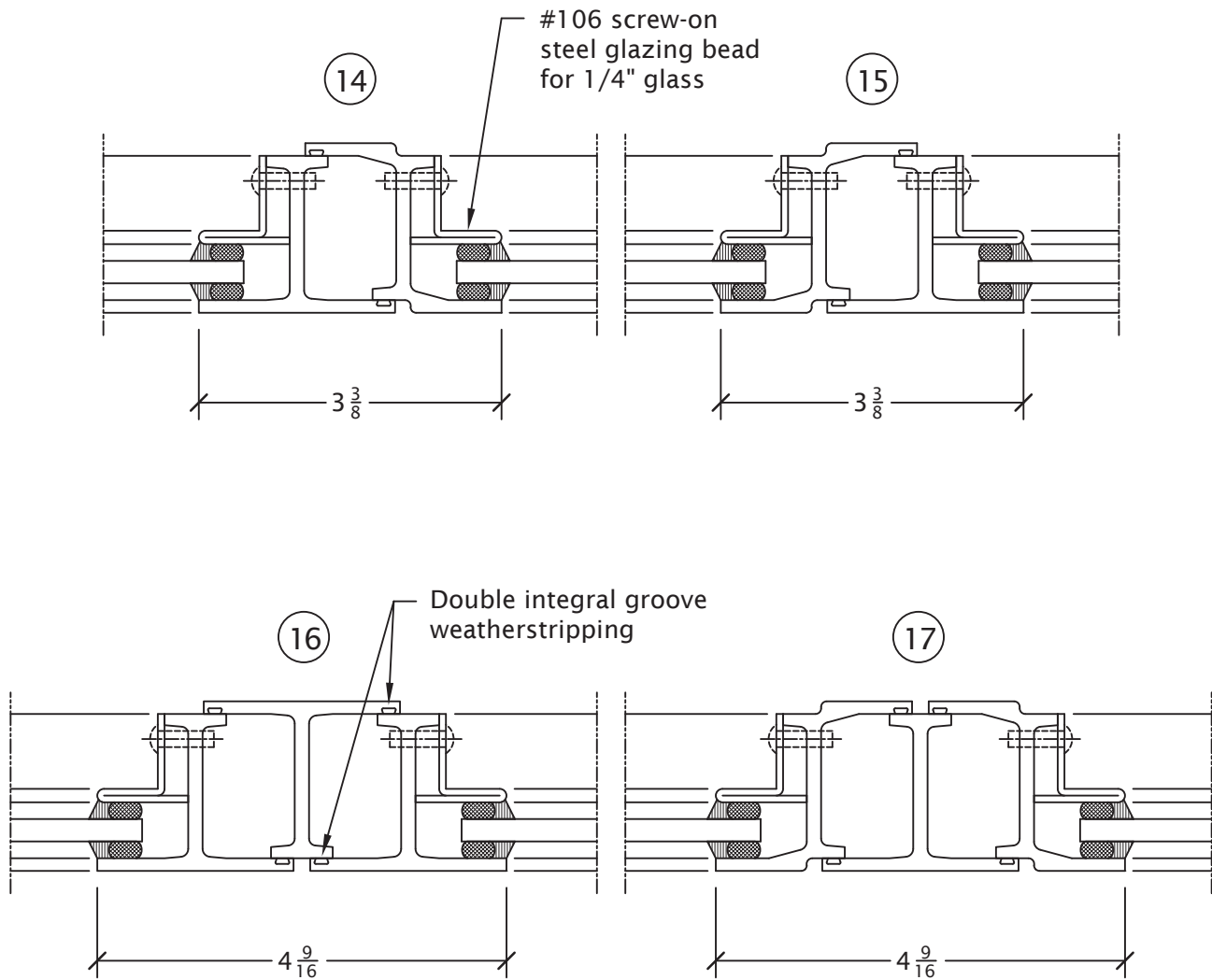
12



13

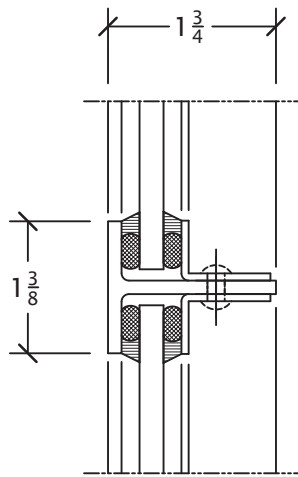
Double integral
groove
weatherstripping

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

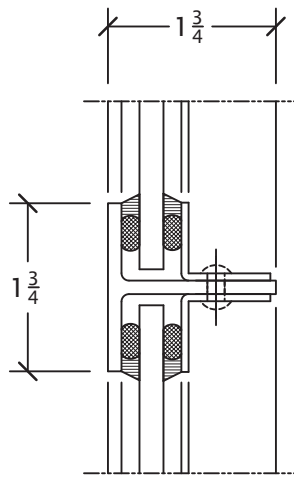


Details are half scale and shown inside glazed.
See page 12 for further glazing bead options.

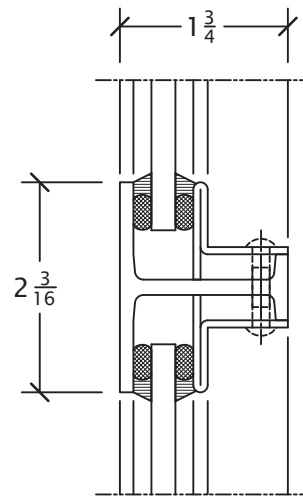
TRUE DIVIDED LITE MUNTINS (INSIDE GLAZED WITH 1/4" GLASS)



#T138L
ACCEPTS UP TO
3/4" GLASS



#T175L
ACCEPTS UP TO
3/4" GLASS

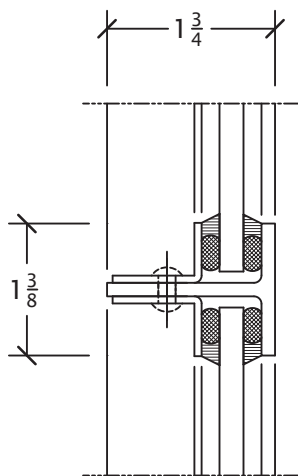


#T175M

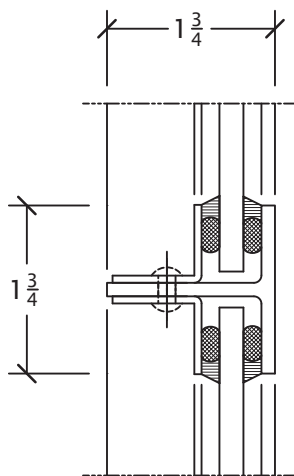
18

ALL DETAILS ON THIS SHEET

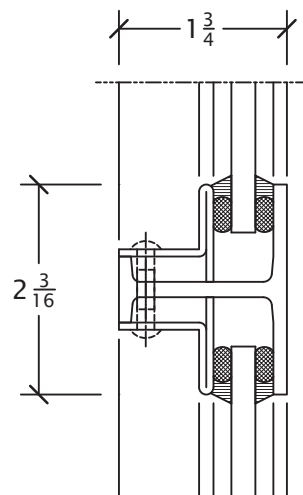
TRUE DIVIDED LITE MUNTINS (OUTSIDE GLAZED WITH 1/4" GLASS)



#T138L
ACCEPTS UP TO
3/4" GLASS

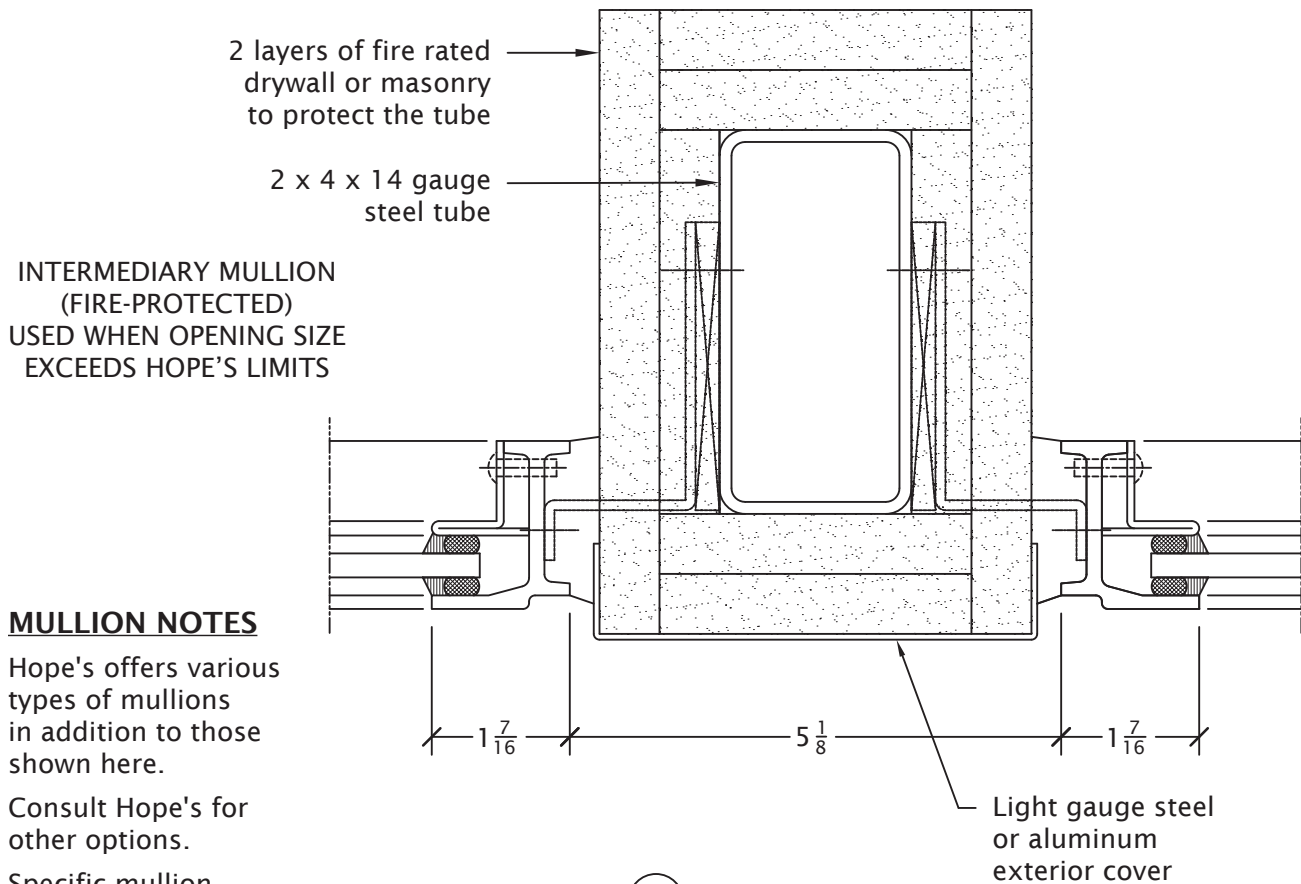
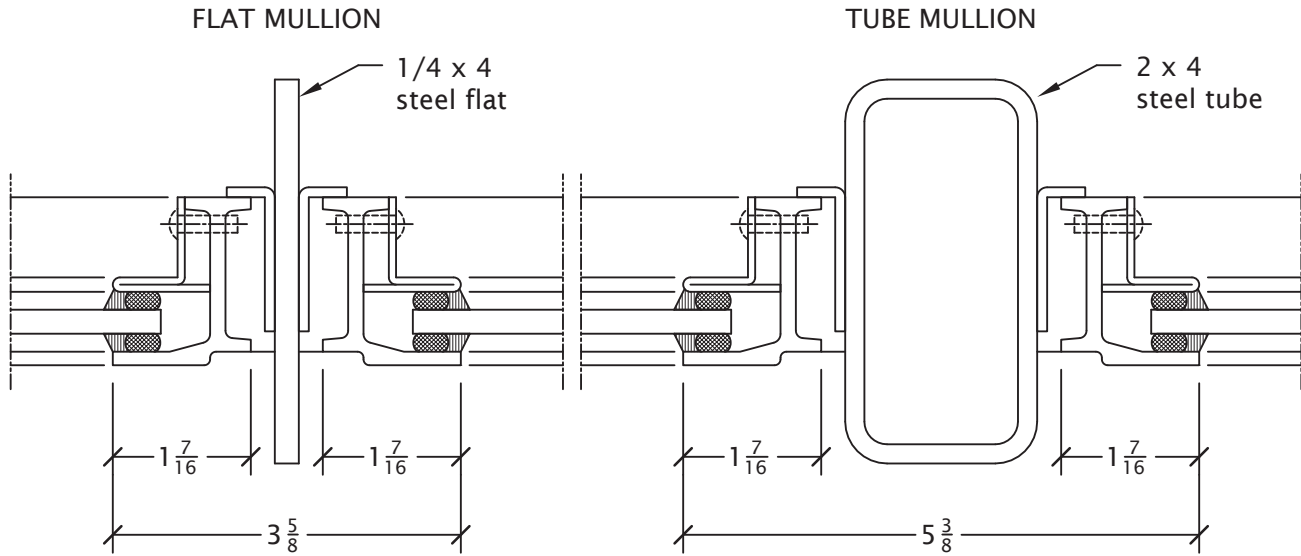


#T175L
ACCEPTS UP TO
3/4" GLASS



#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.

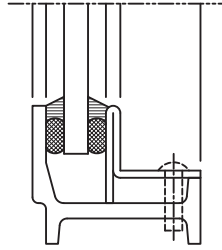
Consult Hope's for other options.

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

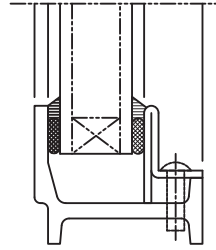
19

ALL DETAILS ON THIS SHEET

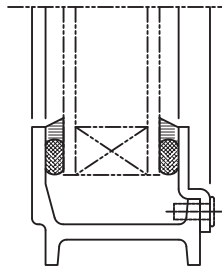
Details are half scale and shown inside glazed with 1/4" glass.
See page 12 for further glazing bead options.



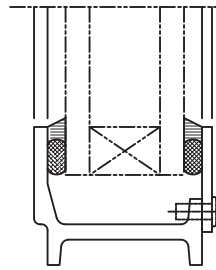
3/16" to 3/8" GLASS
#106 BEAD



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.

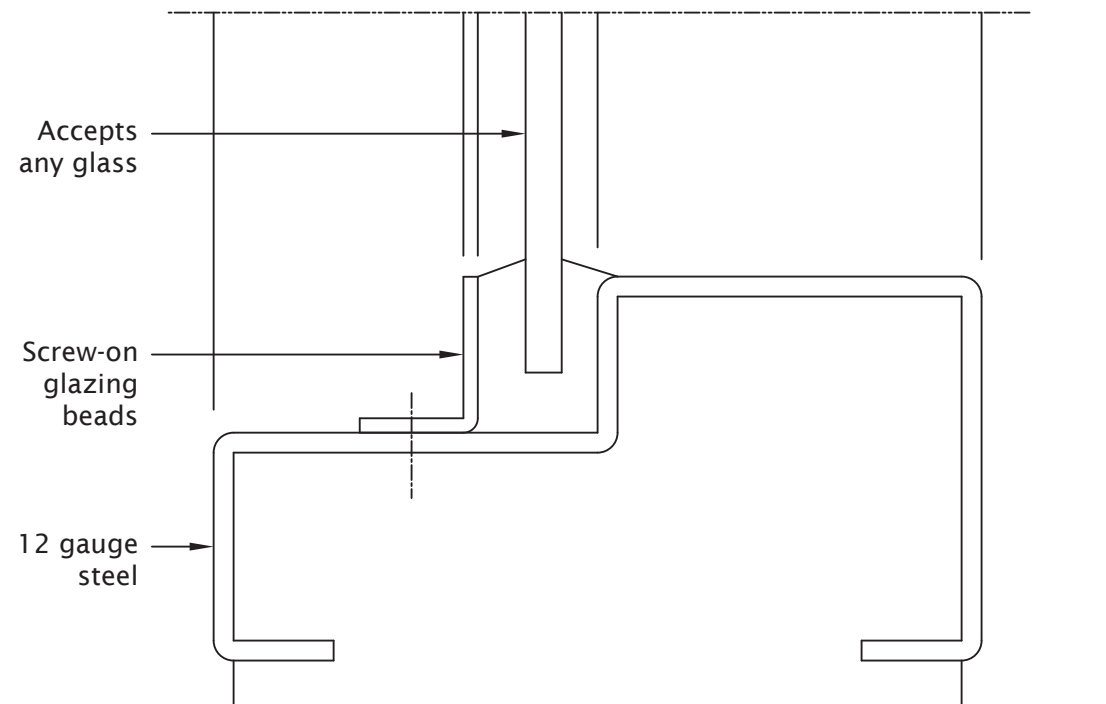
All glazing beads are attached with 8/32 or 10/24 stainless steel or plated steel screws at a maximum spacing of 12" on center.

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.

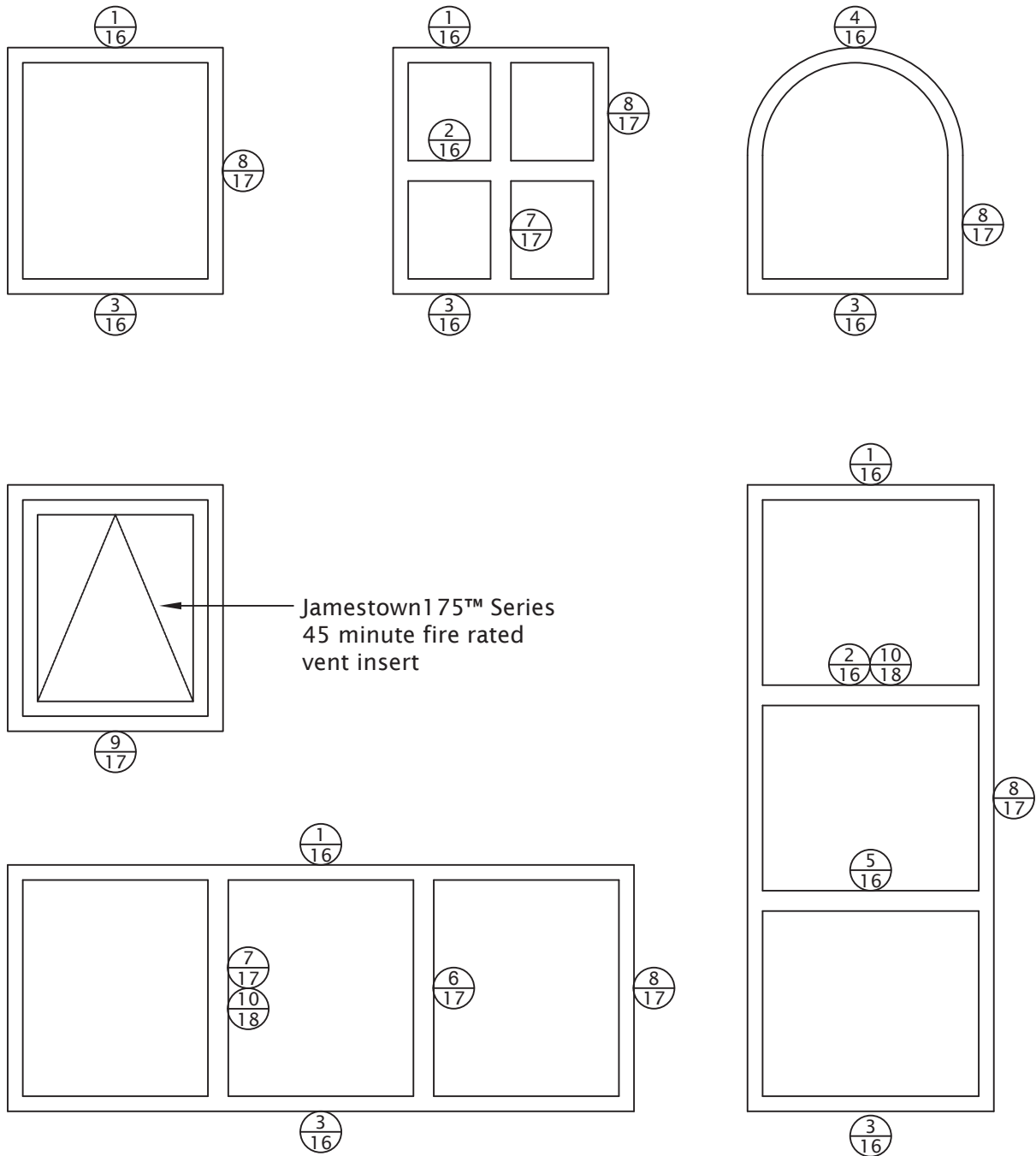
- Maximum Glass Area: 4,164 sq. in.
- Maximum Dimension (HT): 95-3/16"
- Maximum Dimension (WD): 58-5/8"

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.

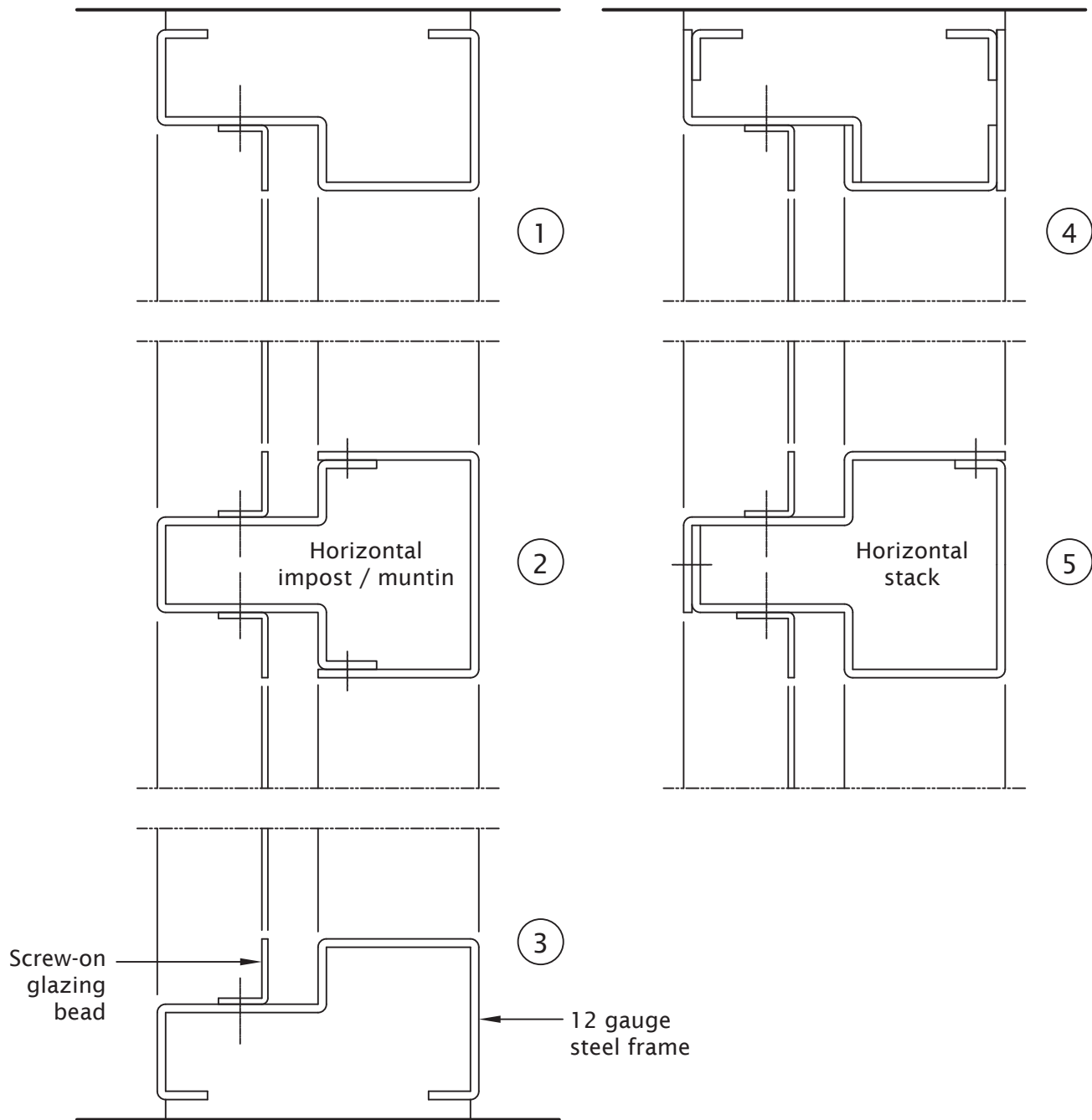
EXAMPLES

- 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.

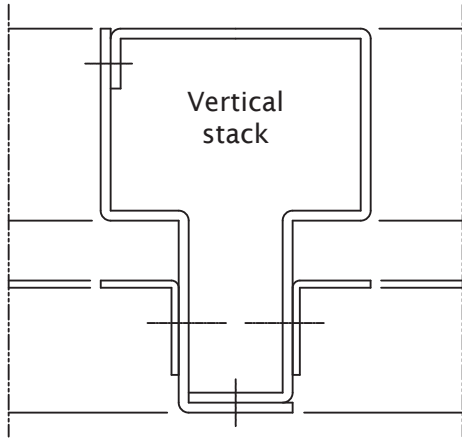


Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.

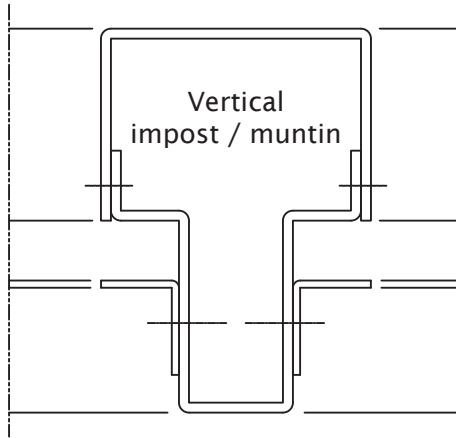


Details are half scale and shown outside glazed with 1" glass.
See page 18 for further glazing bead options.

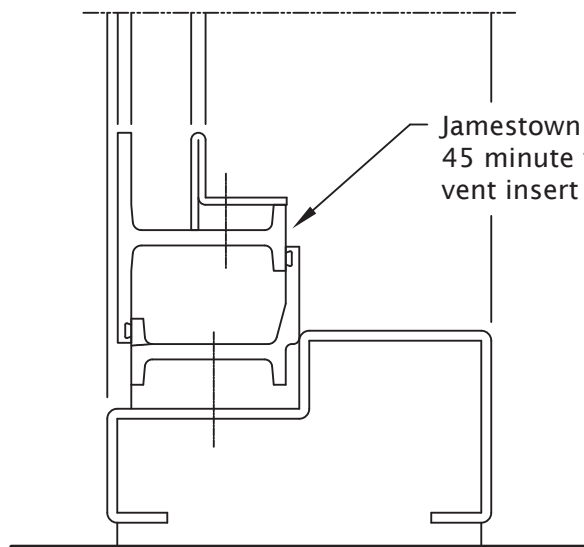
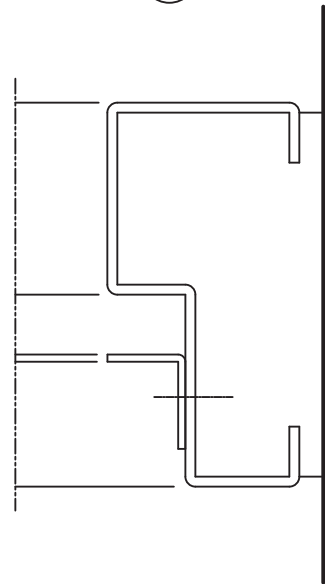
6



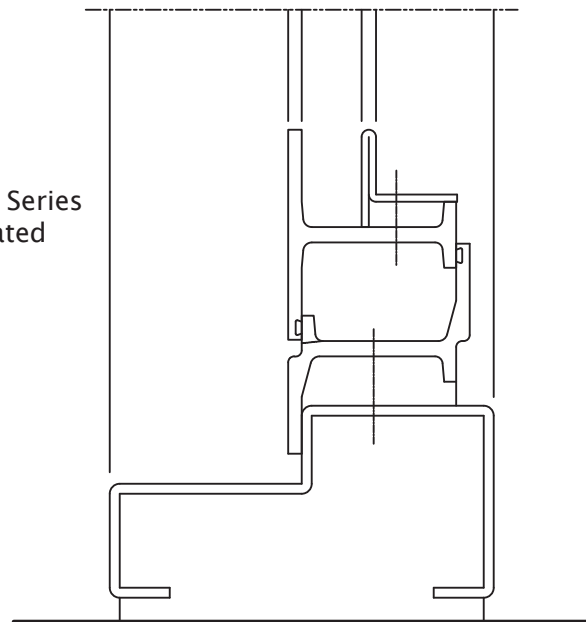
7



8



EQUAL LEG



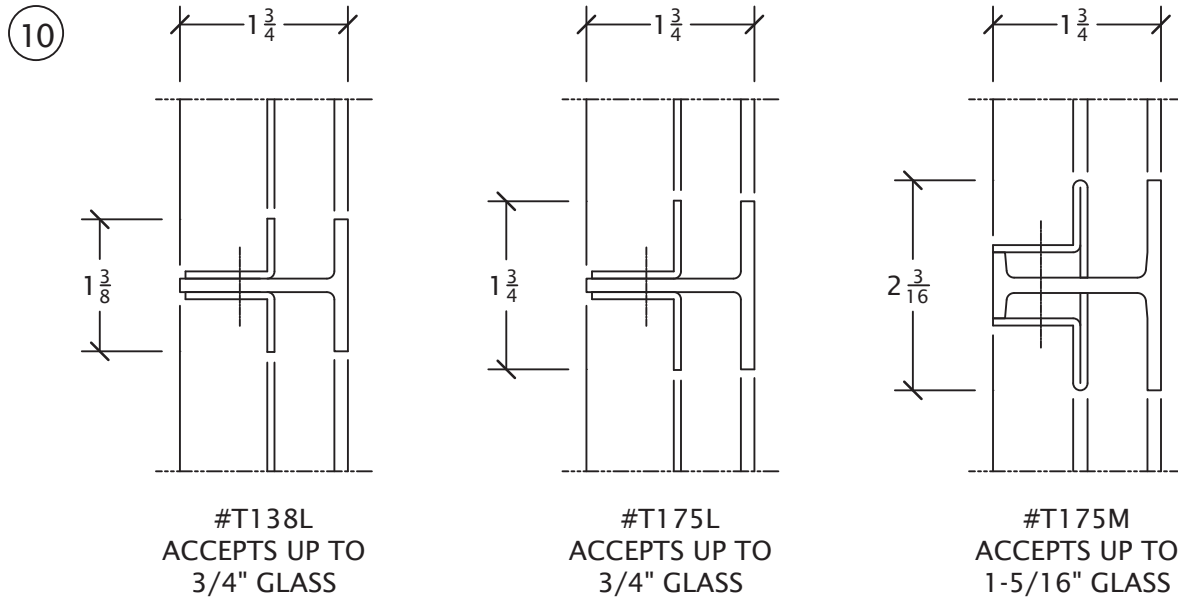
LONG LEG

9

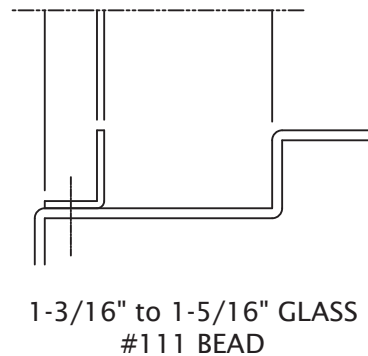
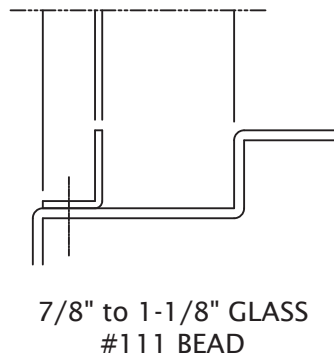
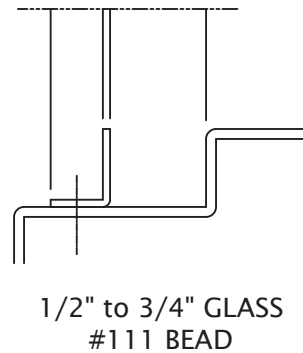
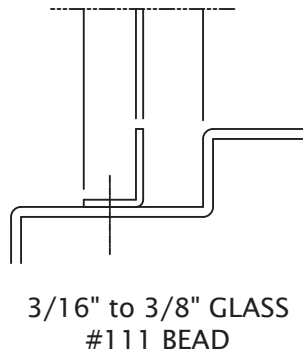
TYPICAL HEAD,
JAMB AND SILL

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

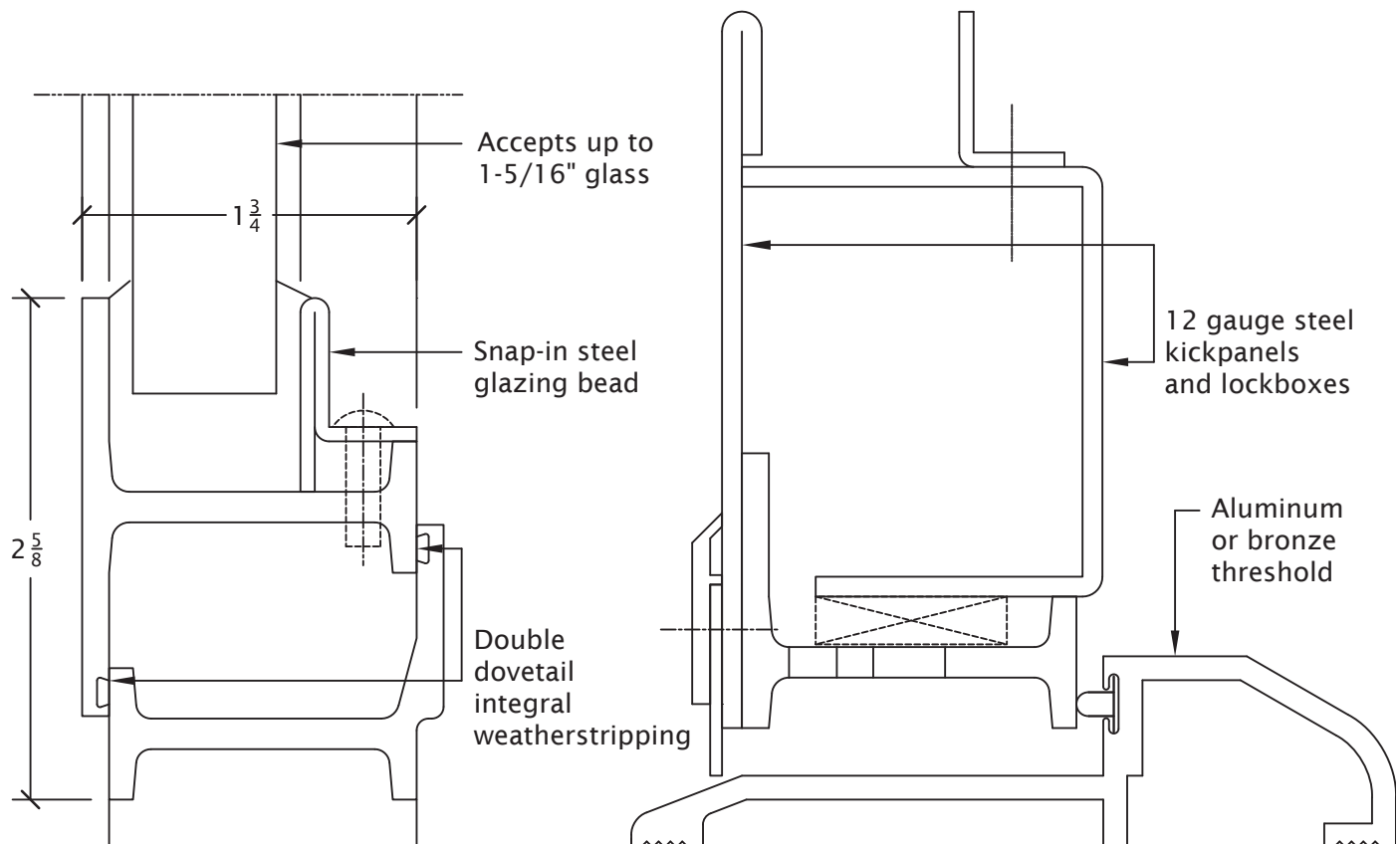


Details are half scale and shown outside glazed.

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.

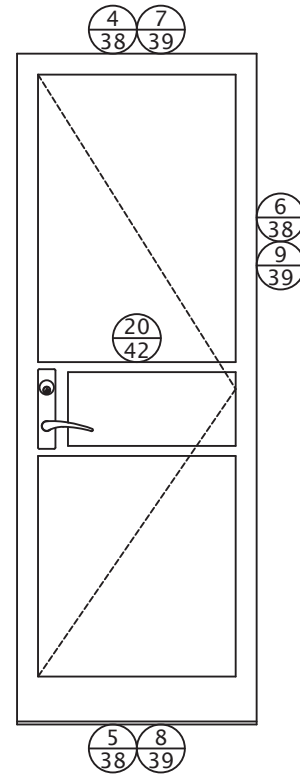
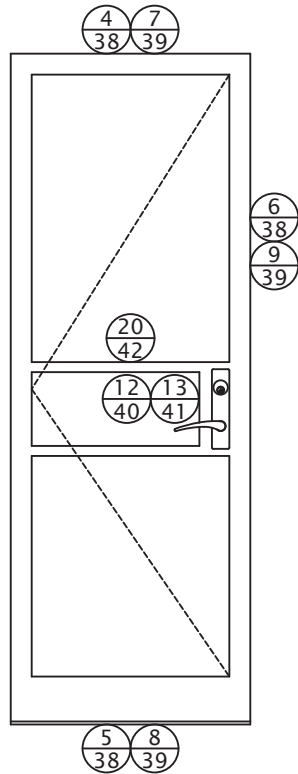
EXAMPLES

- 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.

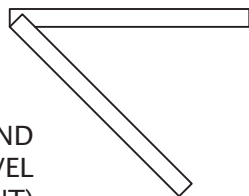
Consult Hope's for assistance in determining between the glass manufacturer's size limitations and Hope's door limitations.

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

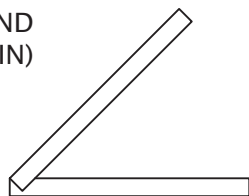
- Jamestown175™ Series 45 Minute Fire Rated Steel Windows
- 5000 Series™ 45 Minute Fire Rated Steel Windows



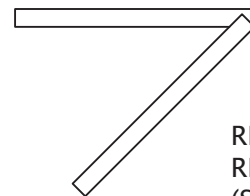
LEFT HAND
REVERSE BEVEL
(SWING-OUT)



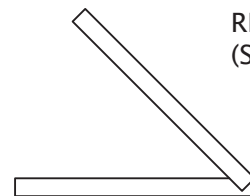
LEFT HAND
(SWING-IN)



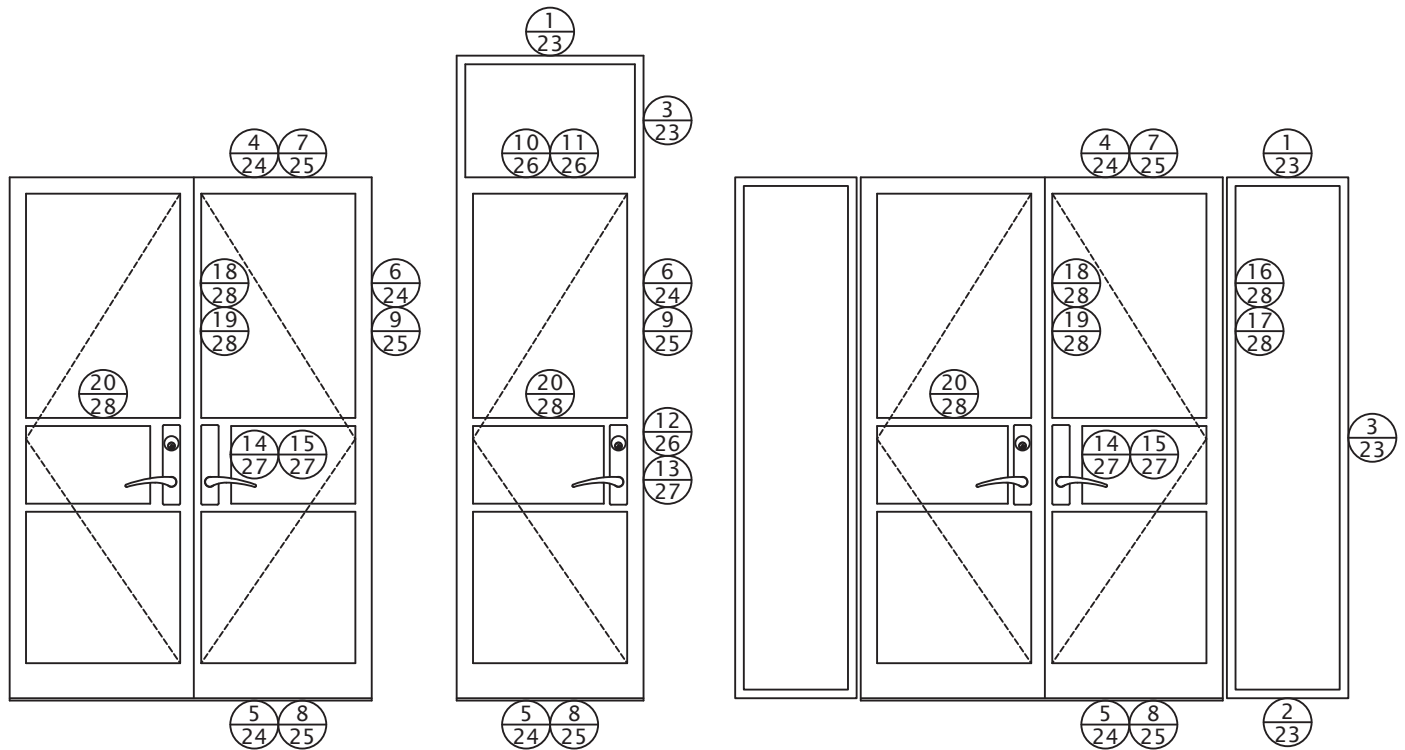
RIGHT HAND
REVERSE BEVEL
(SWING-OUT)



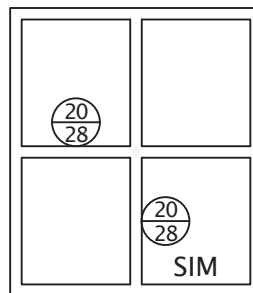
RIGHT HAND
(SWING-IN)



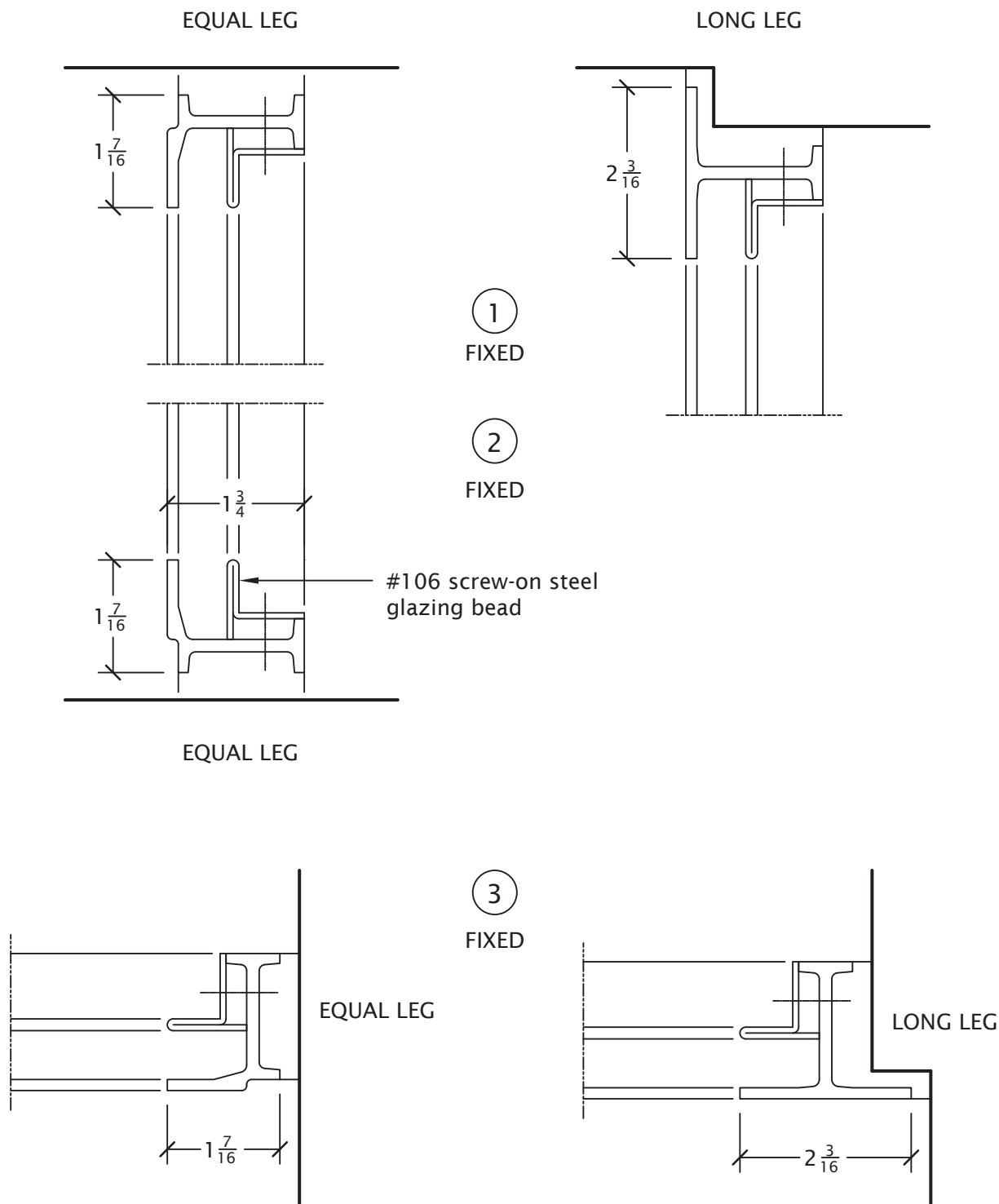
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



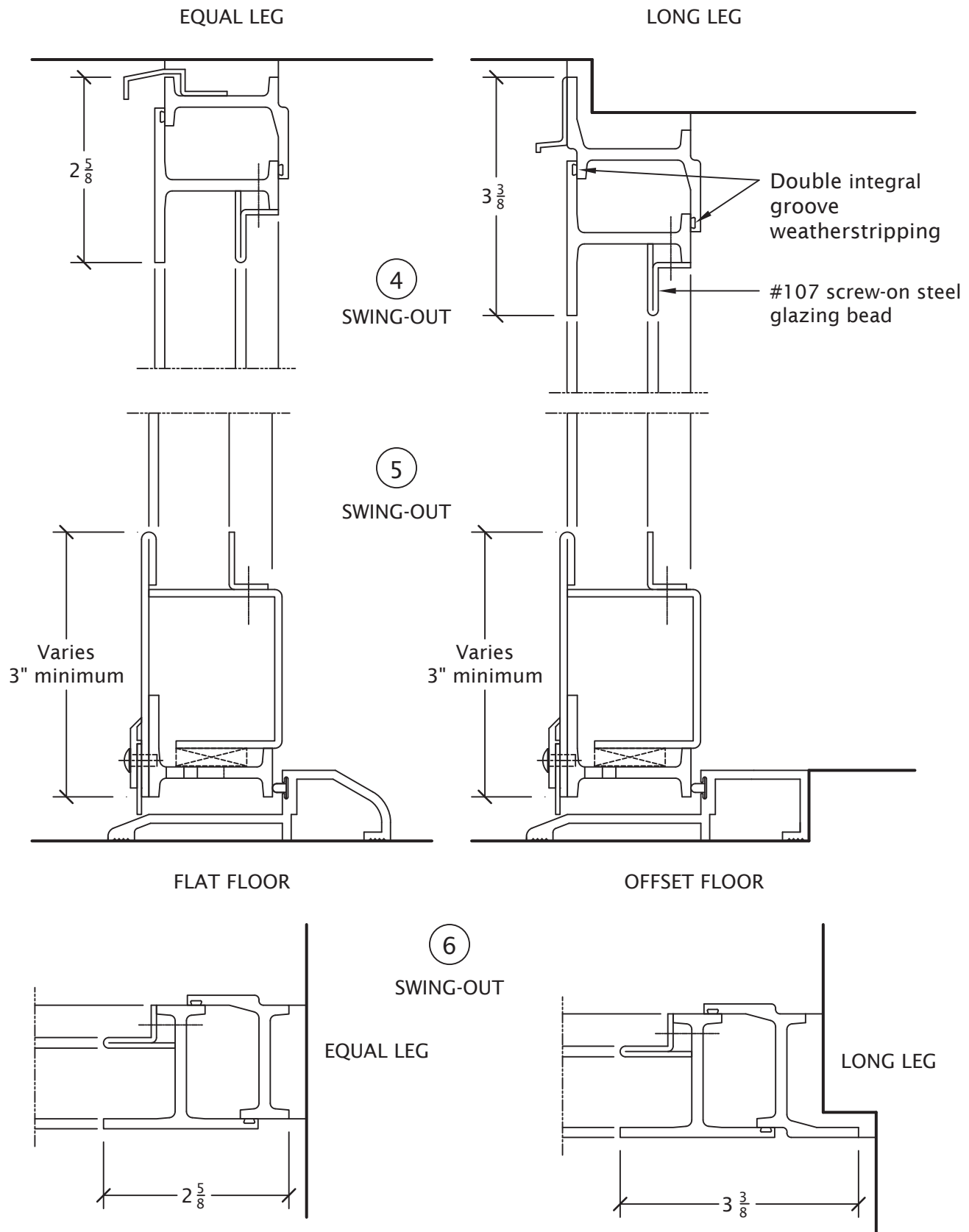
TRUE
DIVIDED
LITES (TDL)



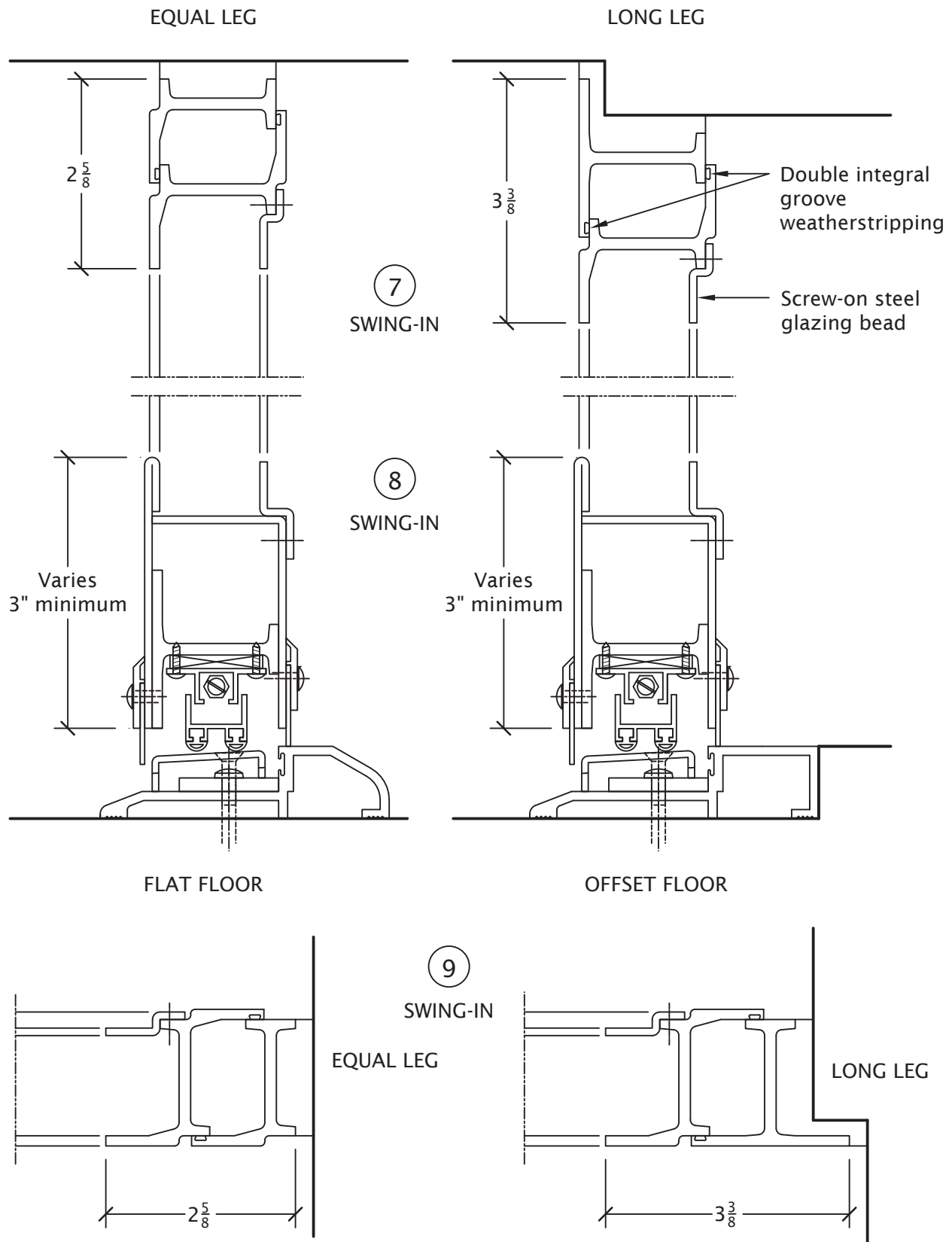
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



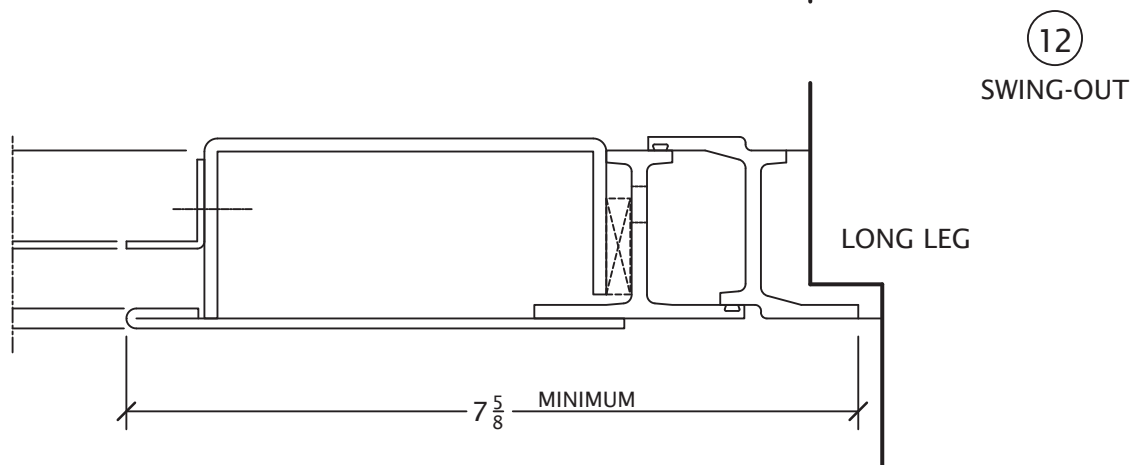
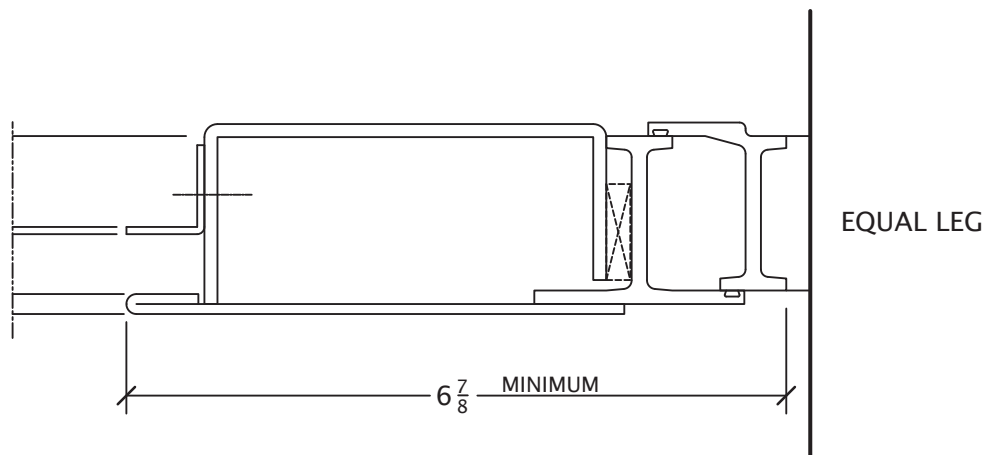
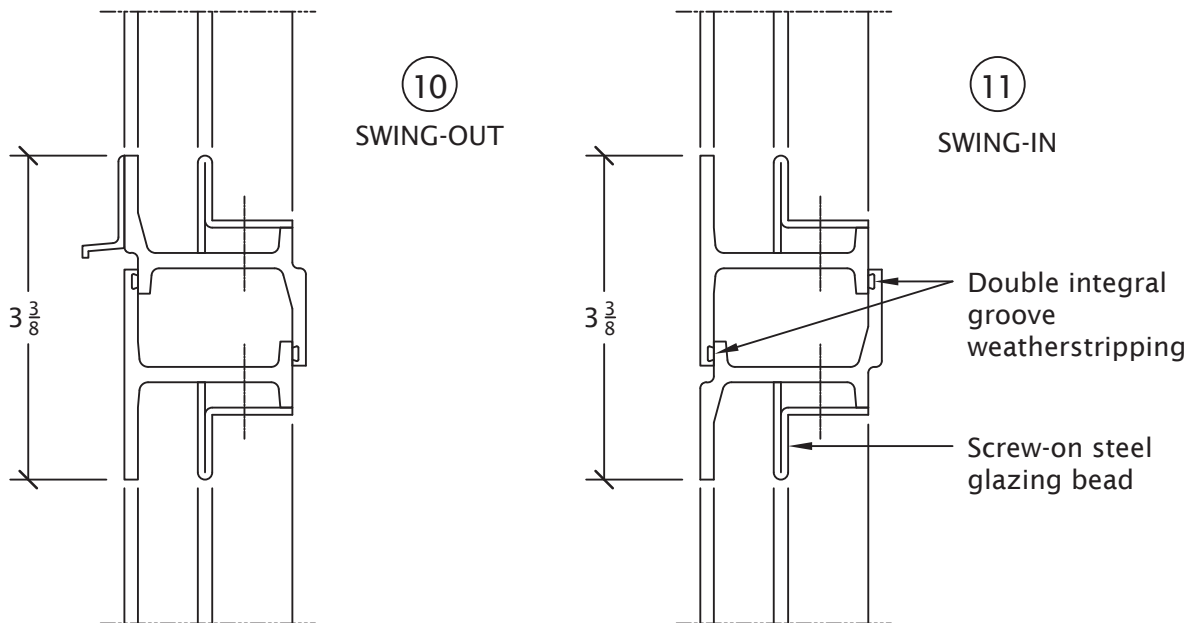
Details are half scale and shown inside glazed with 1/4" glass.
See page 29 for further glazing bead options.



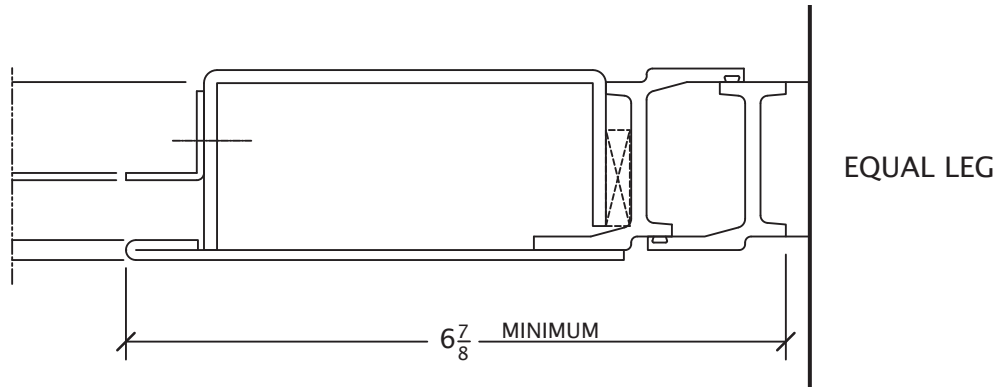
Details are half scale and shown inside glazed with 3/4" glass.
See page 29 for further glazing bead options.



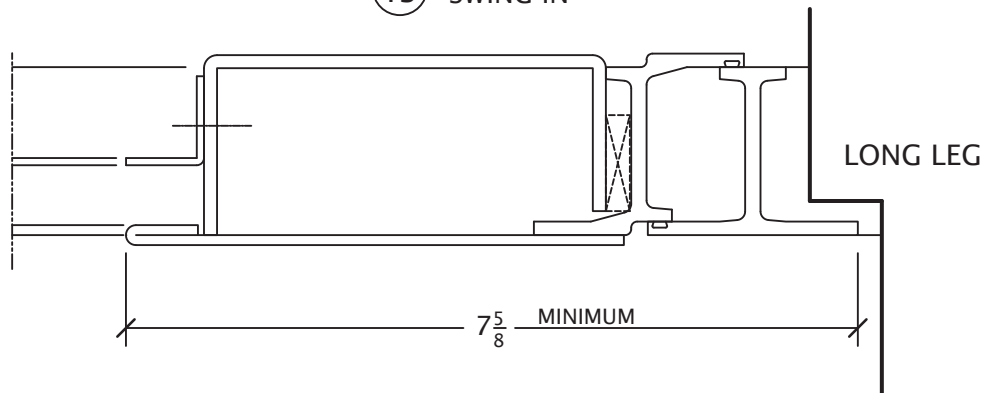
Details are half scale and shown inside glazed with 1" glass.
See page 29 for further glazing bead options.



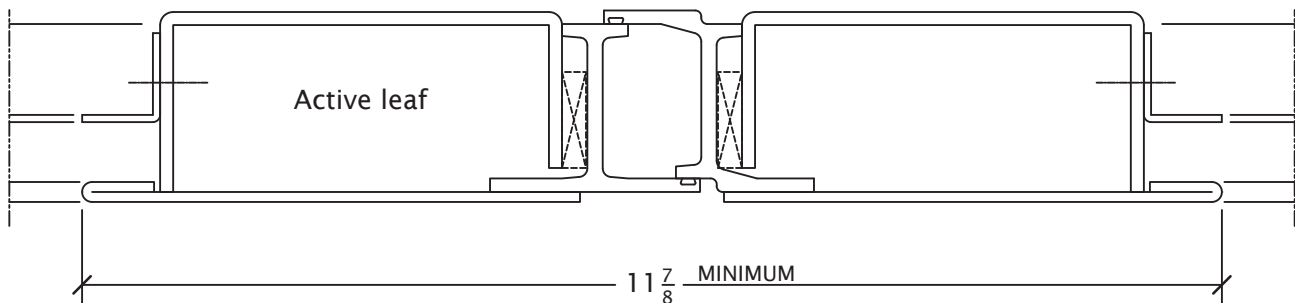
Details are half scale and shown inside glazed with 1/4" glass.
See page 29 for further glazing bead options.



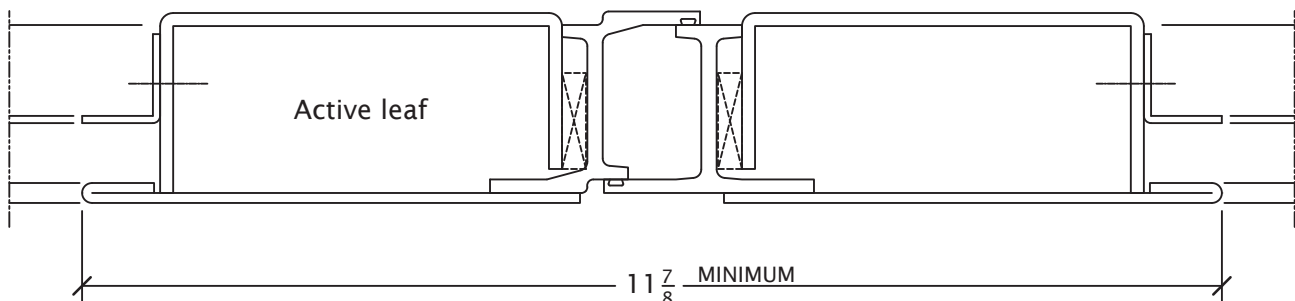
⑬ SWING-IN



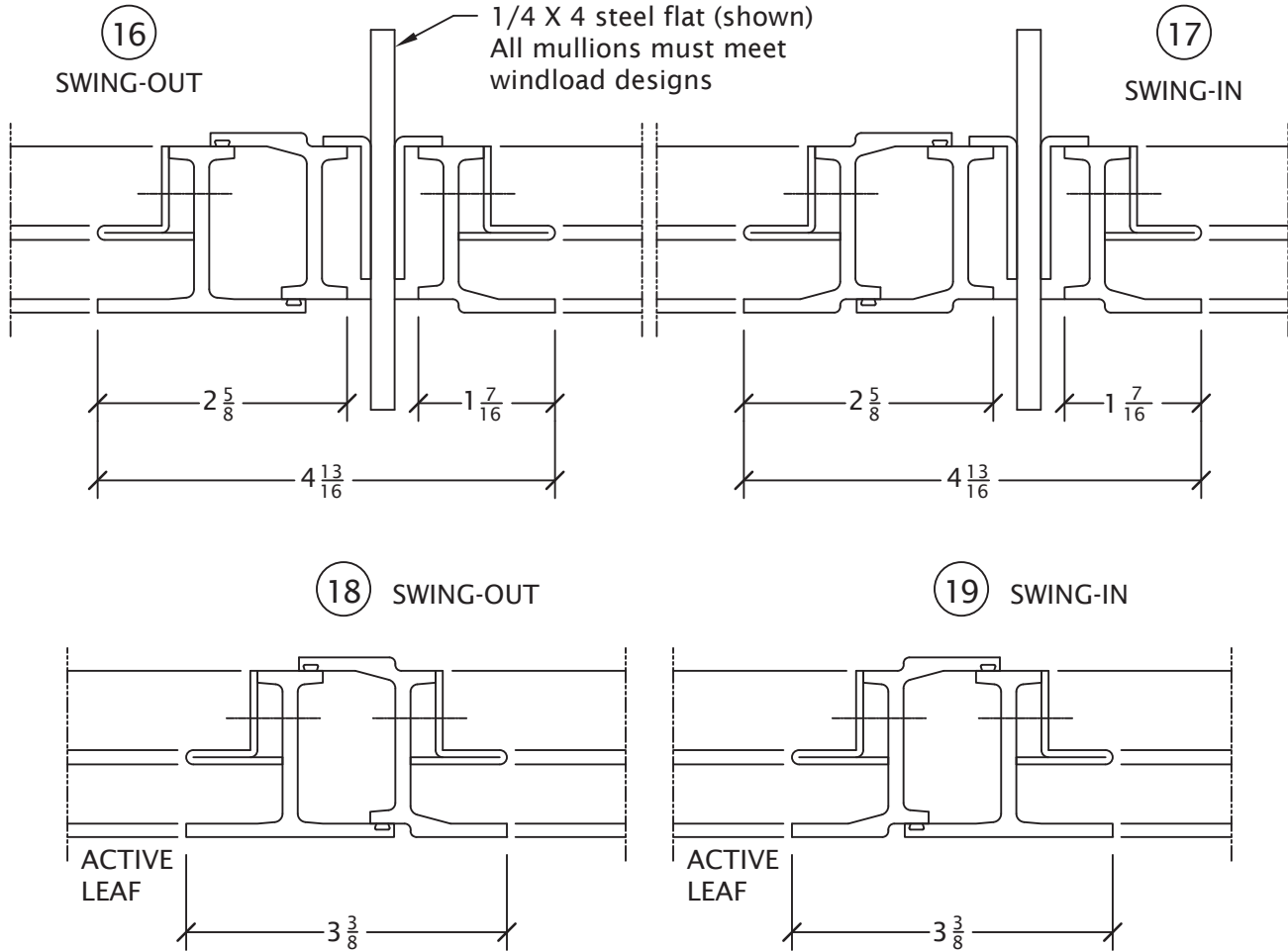
⑭ SWING-OUT



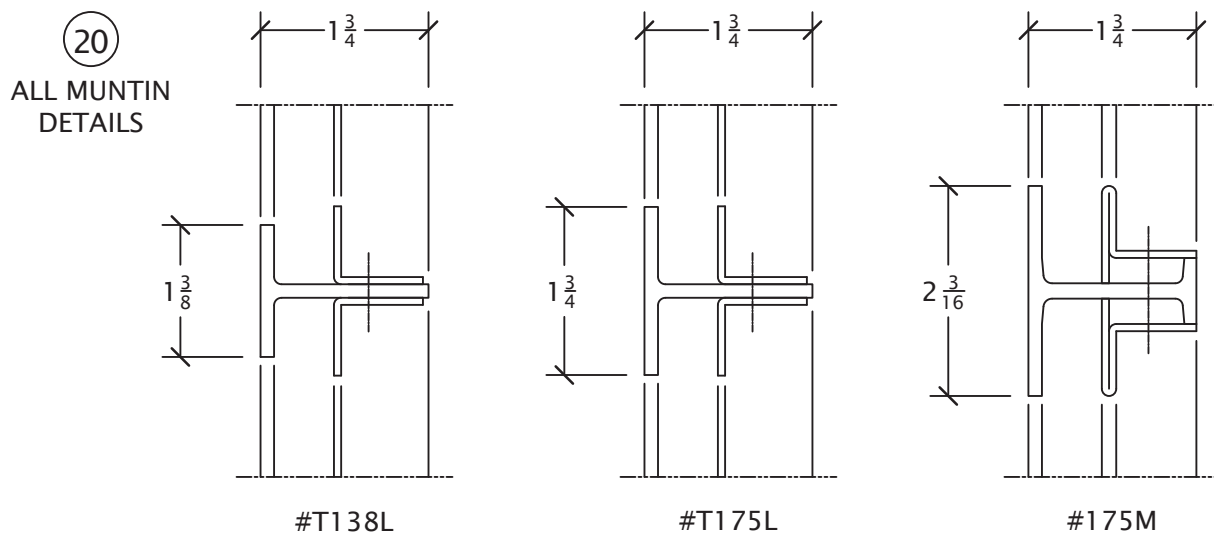
⑮ SWING-IN



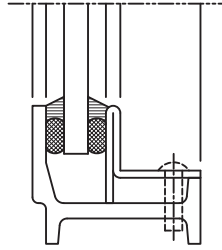
Details are half scale and shown inside glazed with 1/4" glass.
See page 29 for further glazing bead options.



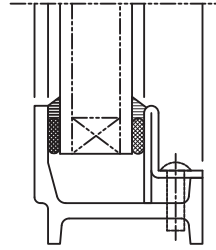
TRUE DIVIDED LITE MUNTINS (INSIDE GLAZED WITH 1/4" GLASS)



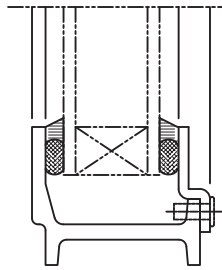
Details are half scale and shown inside glazed with 1/4" glass.



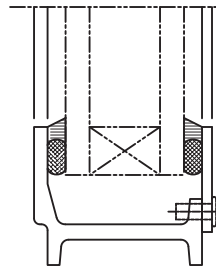
3/16" to 3/8" GLASS
#106 BEAD



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.

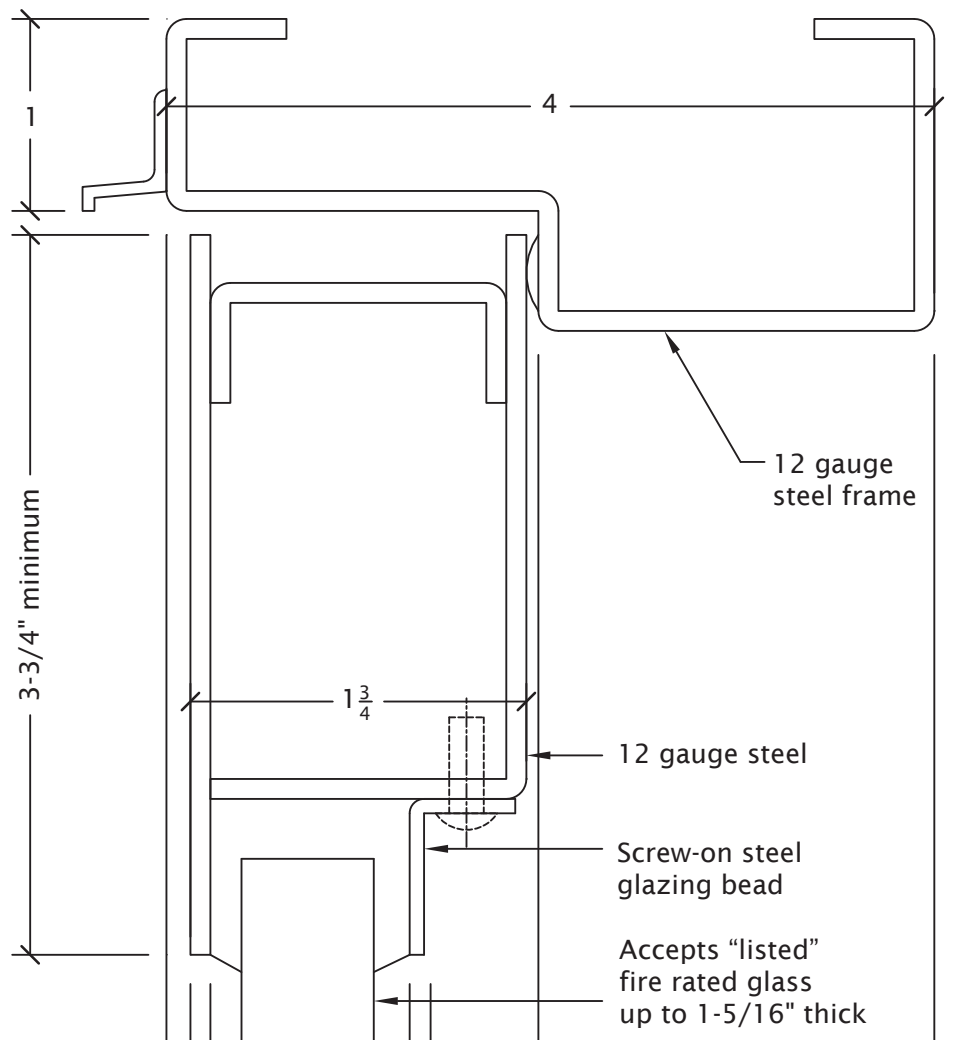
Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK

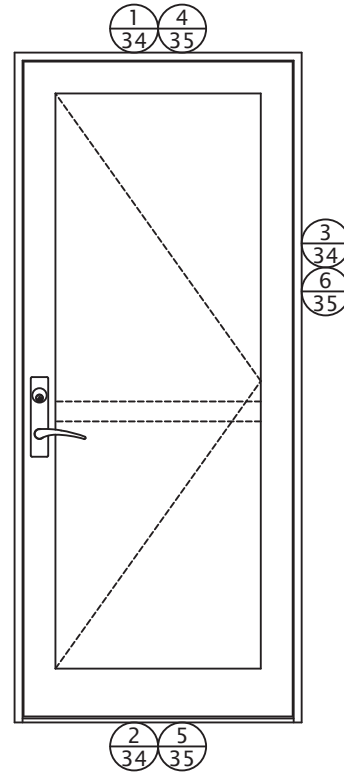
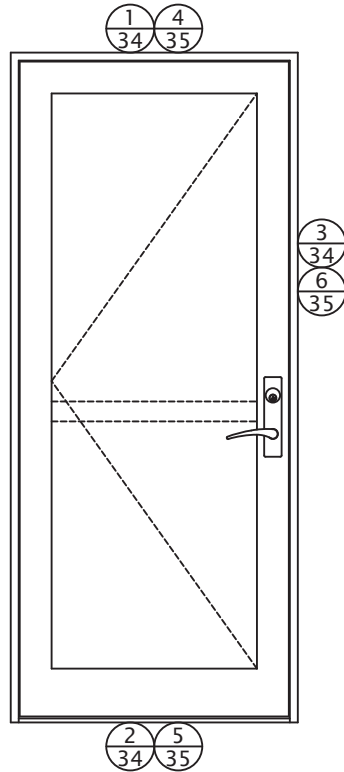
Hope's 5000 Series 45 minute fire rated doors are manufactured from 12 gauge galvanized steel, and fully welded for superior strength and durability. This door product can accommodate any "listed" fire rated hardware including mortise locks, exit devices, closers, etc. They can be manufactured in larger sizes than the Jamestown175™ Series hot-rolled steel doors.

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 472
- Underwritten by Warnock Hersey
- Solidly face welded and ground smooth joints for a uniform appearance, superior strength and water tightness
- Hope's traditional hot-rolled muntins can be utilized for true divided lite applications
- Accepts "listed" glass up to 1-5/16" thick with screw-on steel glazing beads
- Flexibility to accept "listed" fire rated hardware
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat

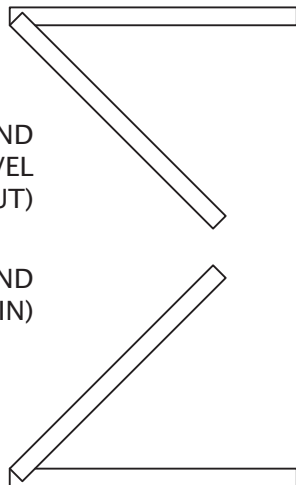


Details are full scale.



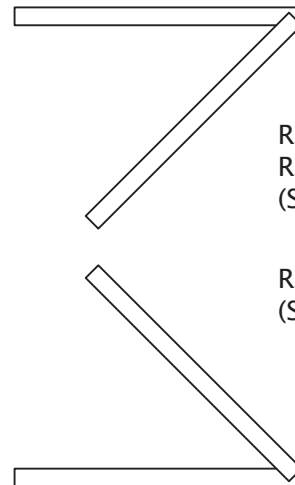
LEFT HAND
REVERSE BEVEL
(SWING-OUT)

LEFT HAND
(SWING-IN)

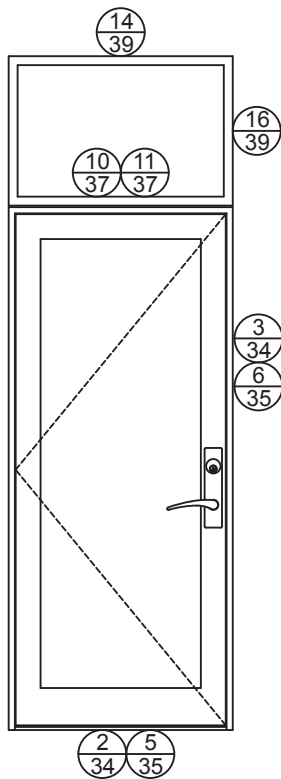
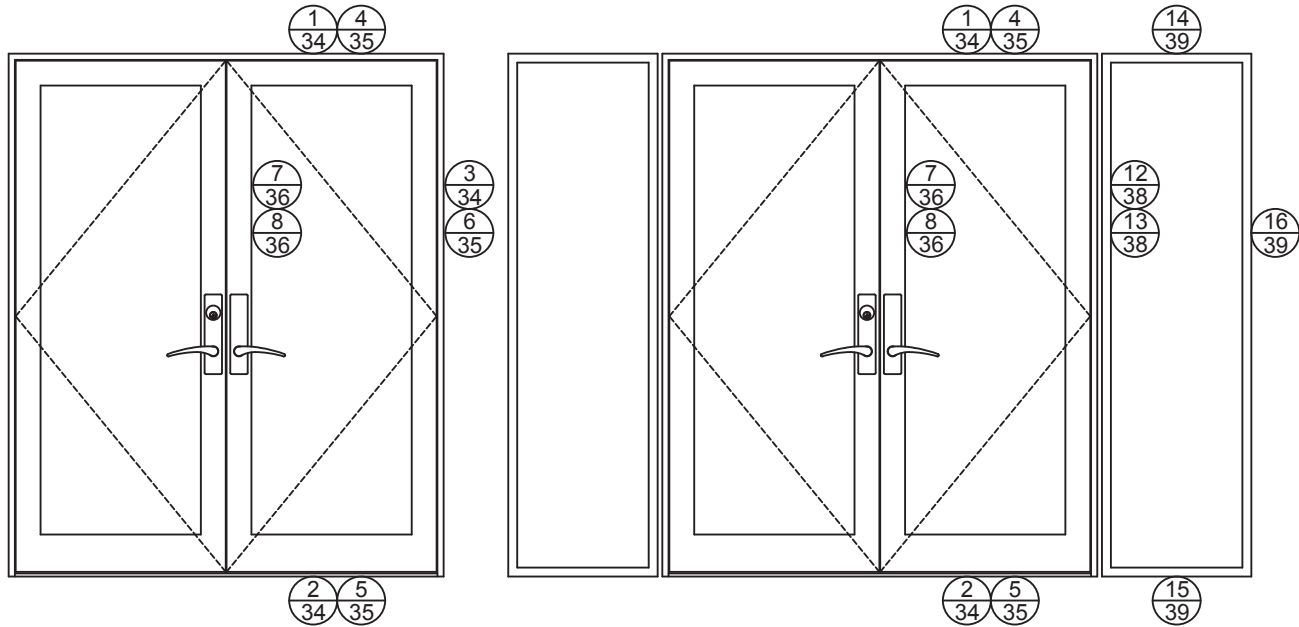


RIGHT HAND
REVERSE BEVEL
(SWING-OUT)

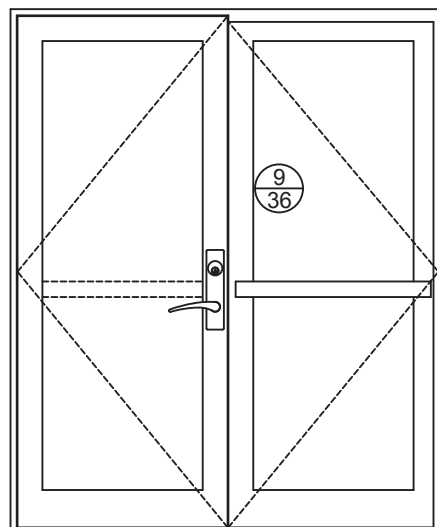
RIGHT HAND
(SWING-IN)



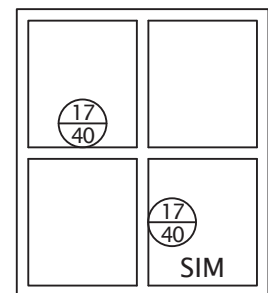
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



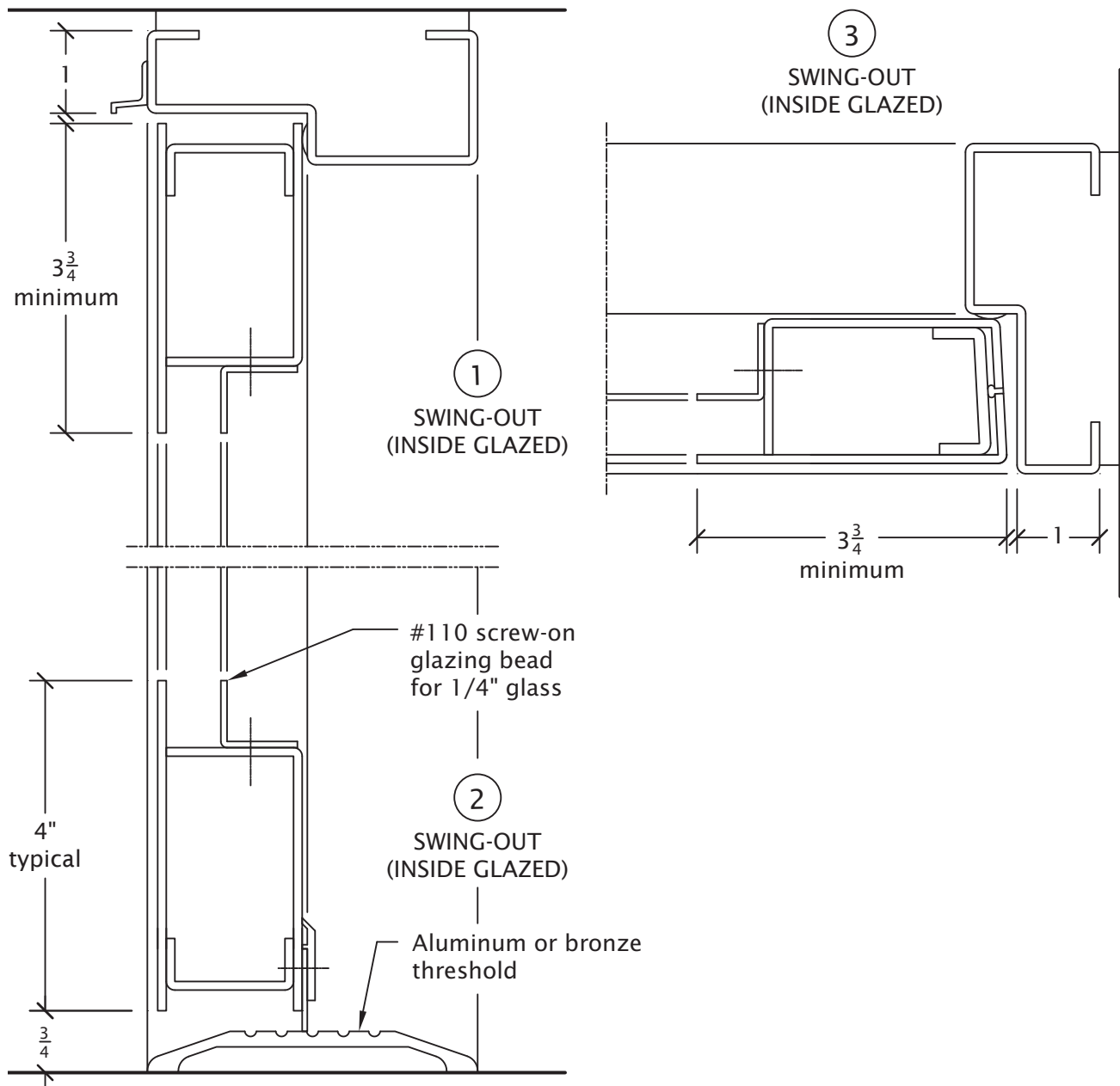
DOUBLE EGRESS DOOR
Consult Hope's for additional details



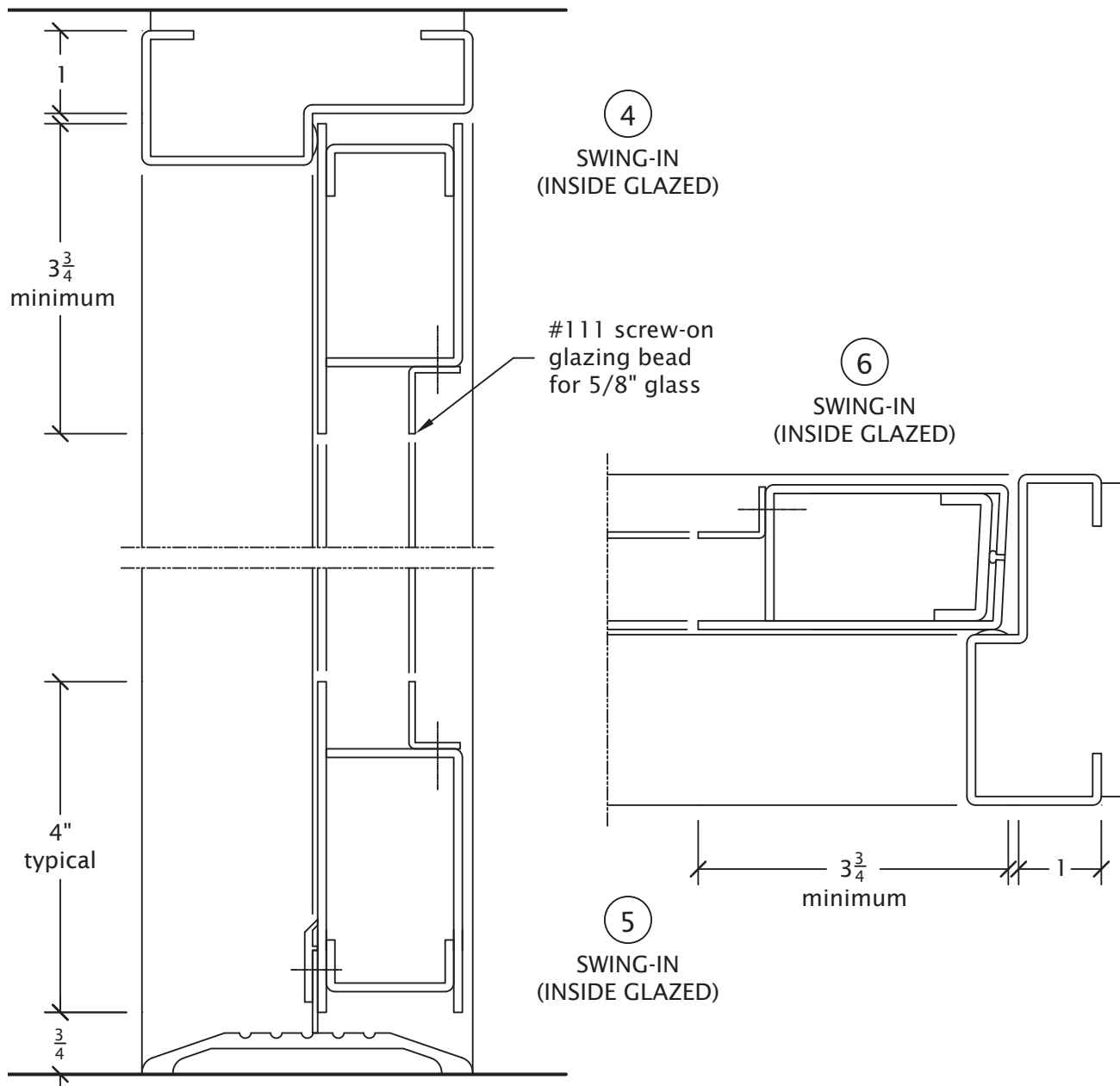
TRUE DIVIDED LITES (TDL)



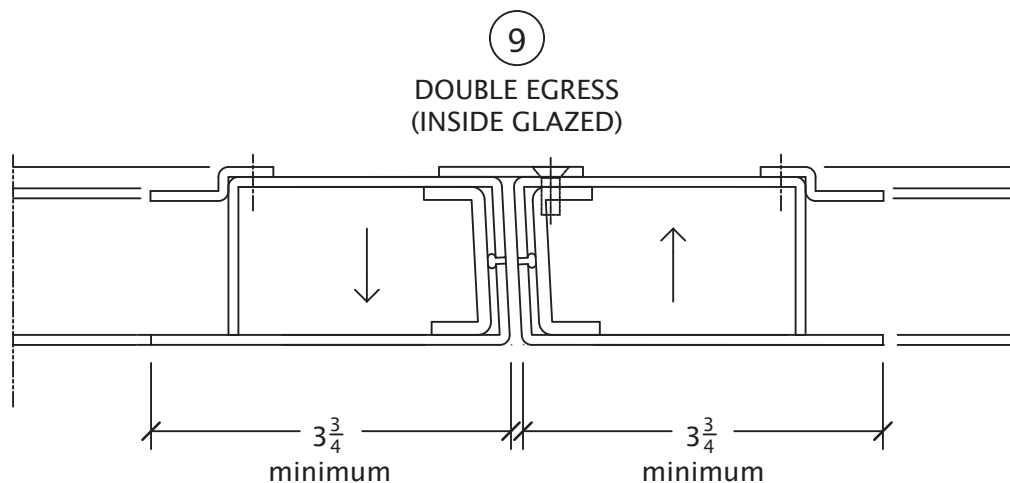
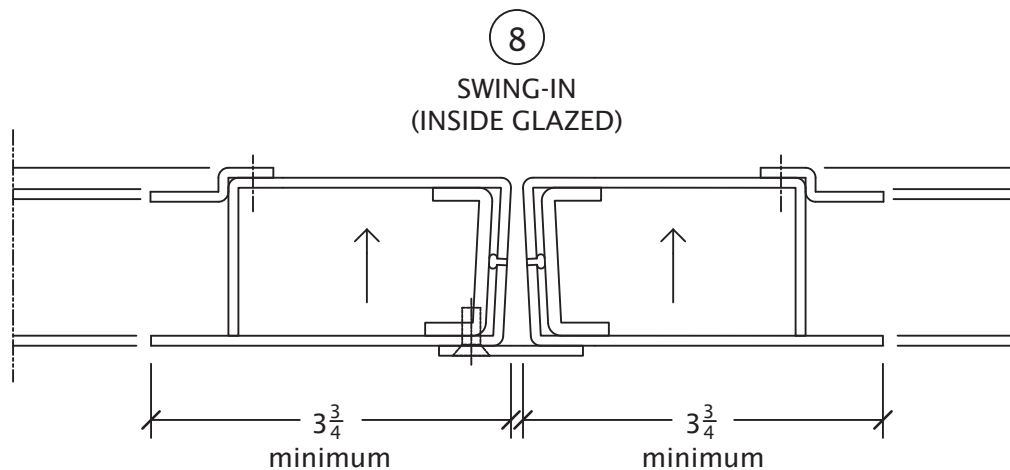
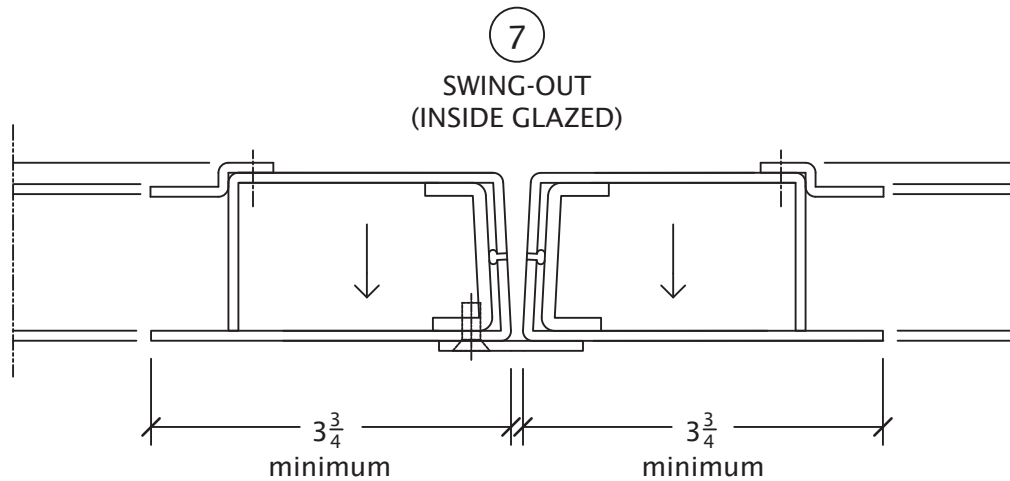
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



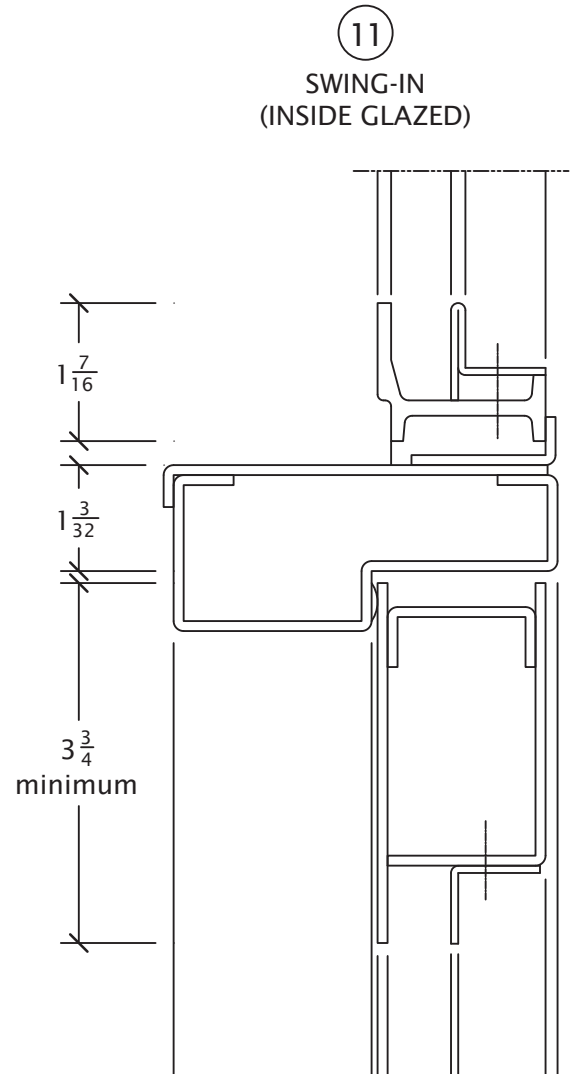
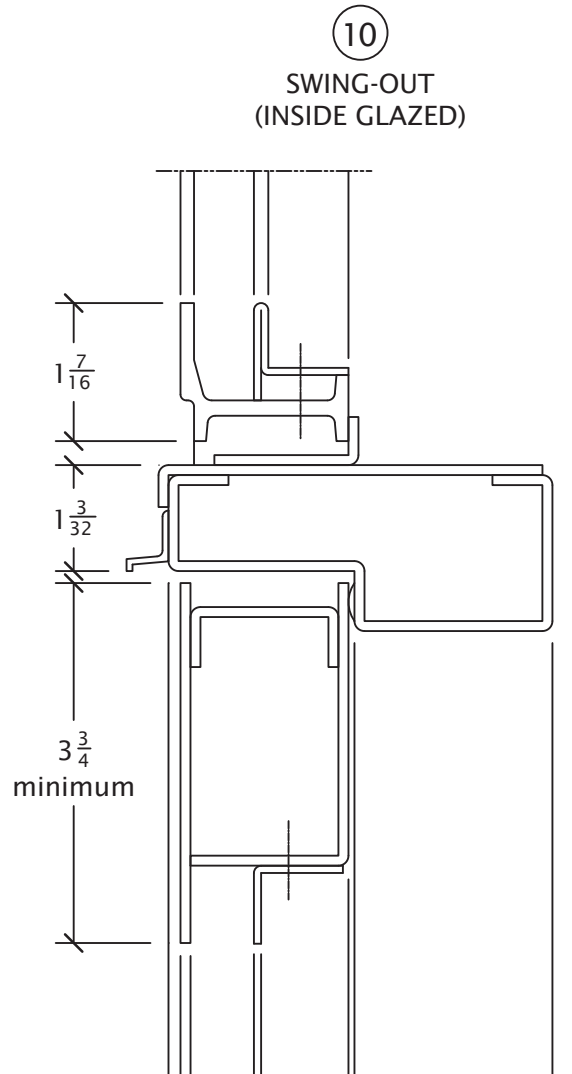
Details are half scale and shown inside glazed with 1/4" glass.
See page 41 for further glazing bead options.



Details are half scale and shown inside glazed with 1/2" glass.
See page 41 for further glazing bead options.



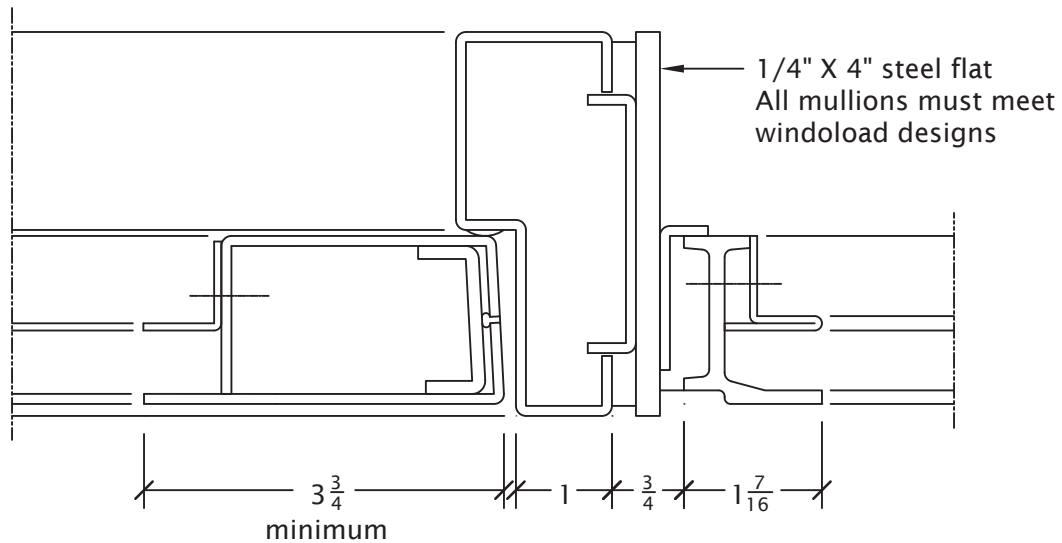
Details are half scale and shown inside glazed with 1" glass.
See page 41 for further glazing bead options.



Details are half scale and shown inside glazed with 1/4" glass.
See page 41 for further glazing bead options.

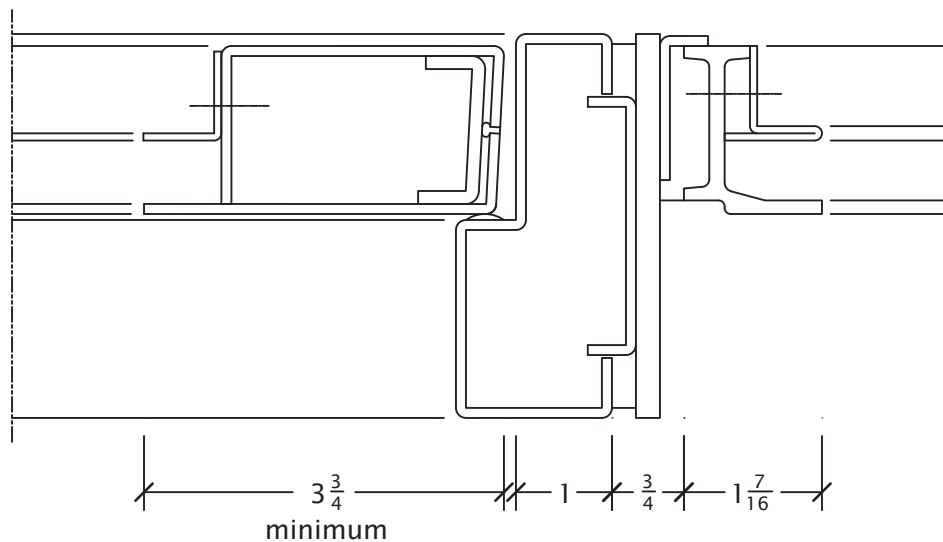
12

SWING-OUT
(INSIDE GLAZED)

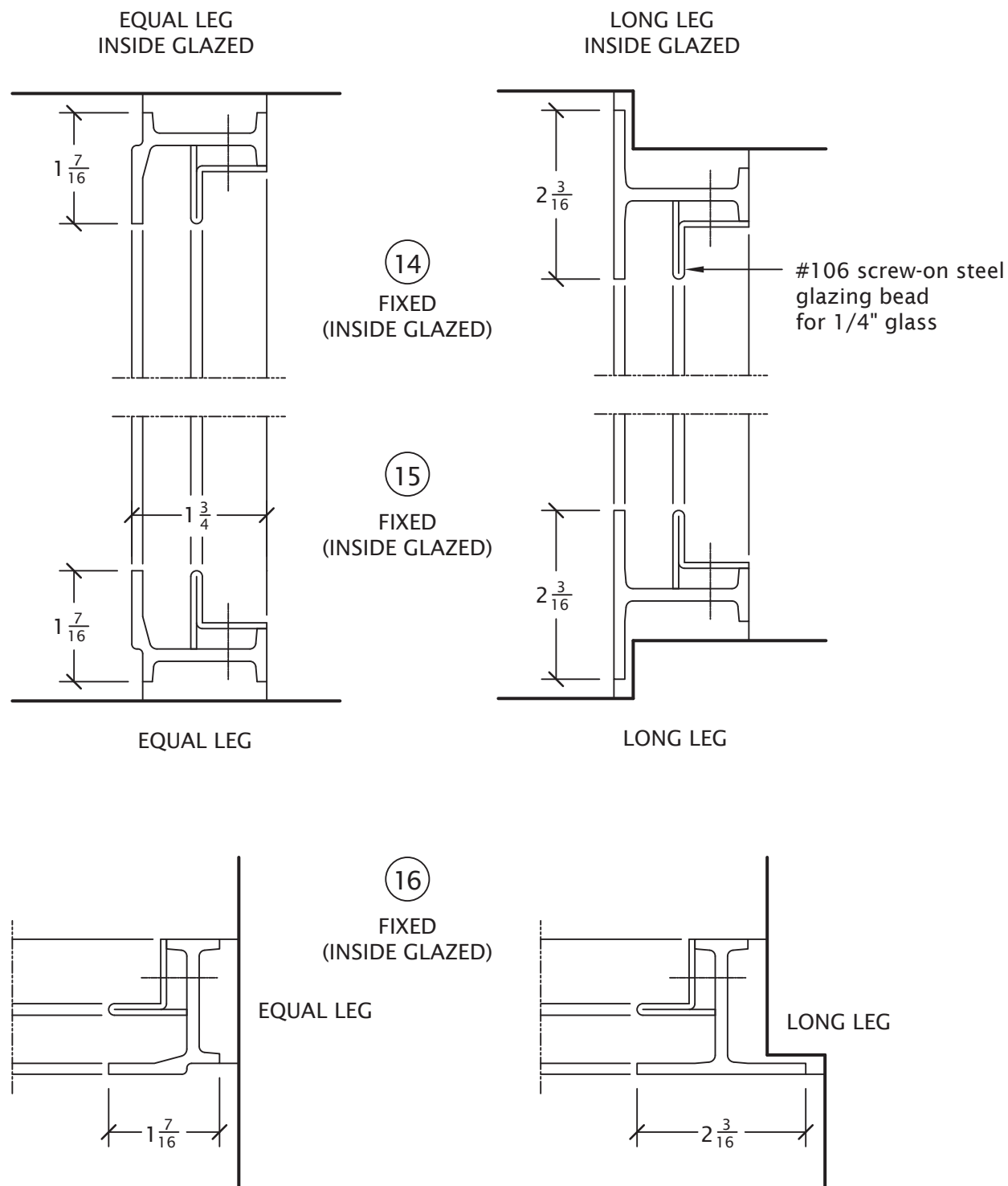


13

SWING-IN
(INSIDE GLAZED)

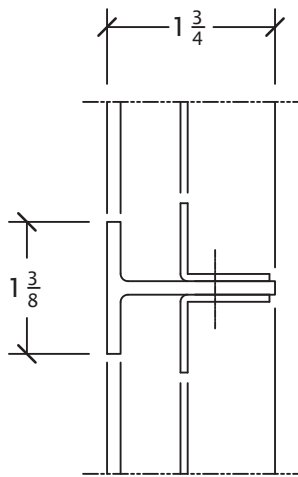


Details are half scale and shown inside glazed with 1/4" glass.
See page 41 for further glazing bead options.

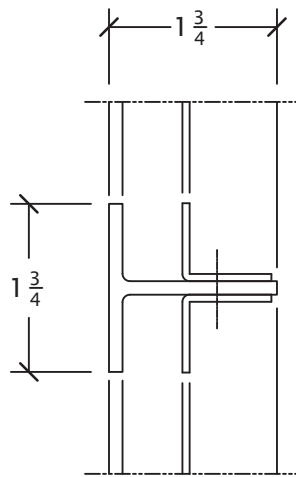


Details are half scale and shown inside glazed with 1/4" glass.
See page 41 for further glazing bead options.

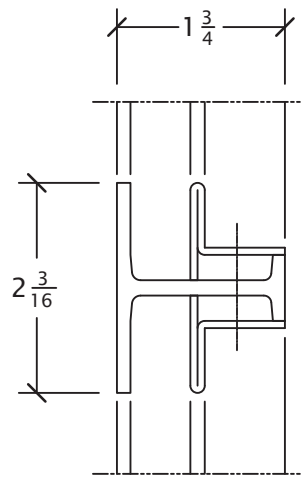
TRUE DIVIDED LITE MUNTINS (INSIDE GLAZED WITH 1/4" GLASS)



#T138L
ACCEPTS UP TO
3/4" GLASS



#T175L
ACCEPTS UP TO
3/4" GLASS

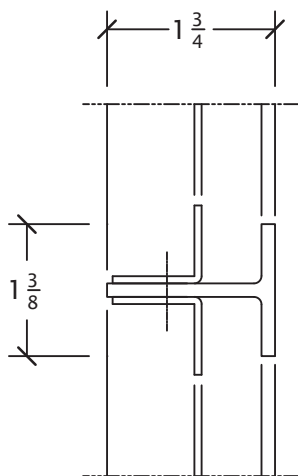


#T175M

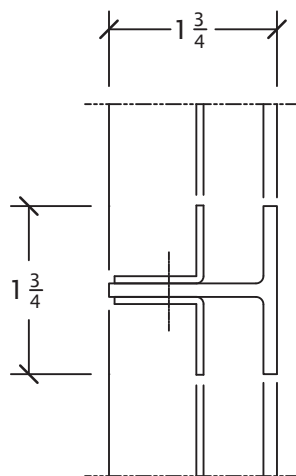
17

ALL DETAILS ON THIS SHEET

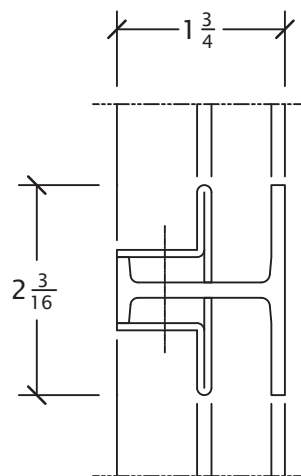
TRUE DIVIDED LITE MUNTINS (OUTSIDE GLAZED WITH 1/4" GLASS)



#T138L
ACCEPTS UP TO
3/4" GLASS

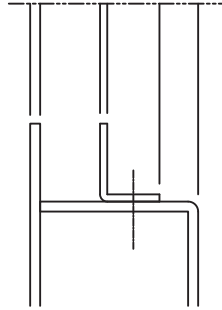


#T175L
ACCEPTS UP TO
3/4" GLASS

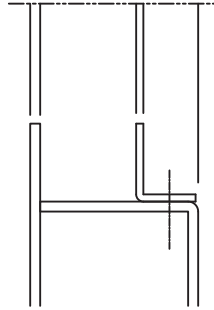


#T175M

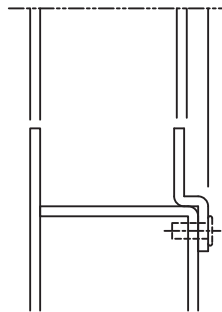
Details are half scale and shown with 1/4" glass.
See page 41 for further glazing bead options.



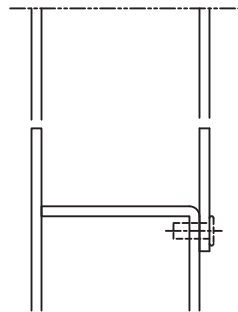
3/16" to 3/8" GLASS
#110 BEAD



1/2" to 3/4" GLASS
#111 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 10/46 stainless steel or plated steel screws at a maximum spacing of 12" on center.

All glazing beads are cut short and slotted at each bead screw location for expansion in the event of a fire.

Details are half scale and shown inside glazed.

INTENTIONALLY LEFT BLANK



Signature Residential Hardware

HOPE'S COLLECTION

Signature Residential Hardware

HOPE'S COLLECTION

Index

HOPE'S SIGNATURE HARDWARE

How to select your options.....2

Finish Guide.....3

Hope's Standard Finishes4

HOPE'S ONE COLLECTION 5



HOPE'S TWO COLLECTION ... 11



WATER STREET DOOR HARDWARE COLLECTIONS.... 17

How to select your options

We provide the elegant styling of Hope's signature residential hardware collections. You provide the details. Follow these steps to complete your design ...

STEP 1

Choose your finish and color using the Finish Guide on pages 3 and 4.

STEP 2

Choose your residential window and door hardware collection. Refer to shop drawings for hardware components included in your project.

STEP 3

Choose your specific styling options using the descriptions and instructions with each piece as a guide. Note that some options are not available for all window and door types.

FINISH GUIDE

RESIDENTIAL HARDWARE

Hope's has partnered with Water Street Brass to offer beautiful hardware finishes to complement your Hope's Signature Residential Hardware. The following information is provided to guide your selection based on your desired aesthetic – from long-lasting color to naturally aging patinas.

Terminology

PATINA

A color film that develops on the surface of a part over time by oxidation. Often green on copper, brown on brass and bronze, gray or black on silver finishes.

PLATING

The process of permanently adhering a thin but durable coating of an alternate metal directly to the surface of the hardware. Parts are submerged into an electrically charged chemical bath. As the electrons flow through this solution, molecules of the new metal are deposited and fused onto the brass hardware host.

TARNISH

The natural aging of metals through exposure to humidity in the air, moisture and even hand oils deposited on hardware with use.

WEATHERED

The purposeful exposure of hardware to scratching or denting agents to create an old feel and appearance.



Finishes Change Over Time

It is important to note that finishes may change over time. When choosing a finish, it is advisable to consider the environment where your hardware will be used. Factors like humidity, exposure to weather or ultraviolet (UV) light, and frequency of use will all play a role in how the appearance of your hardware evolves. It is for this reason that Hope's Windows, Inc. does not warrant finishes against discoloration and change.

Depending on your taste and style, a naturally aging, or *living finish*, can be a rich addition to your project. In many cases, the patina of a part is considered highly desirable and should not be looked upon as a negative development.

Uncoated Finishes

Uncoated finishes, also known as living finishes, change over time depending on factors like humidity, salinity, and general use. Uncoated finishes allow the aging process to occur naturally.

Lacquer Finishes

A clear protective coating is sprayed onto the hardware and cured to a hard finish after the coloring or plating process. The lacquer coating prolongs the factory finish by providing a barrier between the finish and the environmental factors that cause the natural aging process. This clear coating may be subject to crazing (the formation of very fine cracks or lines on the surface) due to exposure to UV light, moisture and cold.

Physical Vapor Deposition (PVD) Finishes

The hardware is electroplated with a thin layer of copper followed by palladium nickel to fortify the surface. PVD is then applied with an environmentally friendly vacuum coating process. PVD finish is resistant to scratching and provides excellent protection against discoloration caused by adverse weather and coastal atmospheric conditions.

Powdercoat Finishes

A fine colored powder is applied to the hardware and exposed to a heating process that melts and adheres the color to the part providing a tough, durable finish. Powdercoat will have slightly less clarity than a lacquered or uncoated finish. It may have an irregular texture and is vulnerable to scratching in heavy traffic area.

FINISH GUIDE

RESIDENTIAL HARDWARE

Forged of solid brass, the sleek lines that characterize the Hope's One Collection, the traditional elegance that distinguish the Hope's Two Collection, and the variety of the Water Street Collections of residential hardware enhance the beauty of every room. Enrich your design with any of these standard hardware finishes ...

Uncoated or Lacquer Finish Colors for Hardware



POLISHED
BRASS



POLISHED
ANTIQUE



ANTIQUE
BRASS



WEATHERED
COPPER



POLISHED
NICKEL



SATIN
NICKEL



WEATHERED ANTIQUE
NICKEL



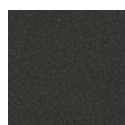
OIL RUBBED
BRONZE

Powdercoat Finish Colors for Hardware

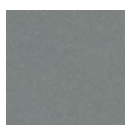
Available at additional cost.



MATTE
BLACK



Satin
Gun Metal



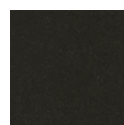
Silver
Lining



Silver
7



Bronze
PE



Bronze
Metallic



Oil Rubbed
Bronze



Oil Rubbed
Orange

Note: The powdercoat finish and process for hardware is not the same as that for window and door frames. Color-matching to frames is not available.

PVD Finish Colors for Hardware

Available at additional cost.



POLISHED
BRASS PVD



POLISHED
NICKEL PVD



SATIN
NICKEL PVD

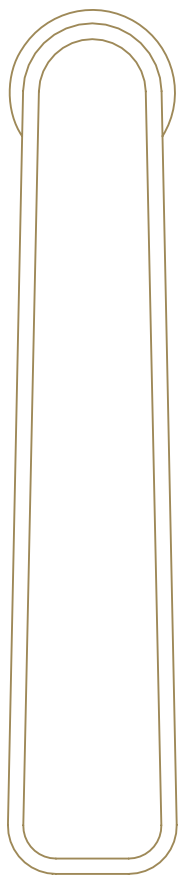


OIL RUBBED
BRONZE PVD

*Photographs are for representation purpose only and color may vary slightly.
Hope's recommends that you request physical samples during the submittal process.*

HOPE'S COLLECTION

One



Sleek Lines, Subtle Curves, Classic Style

WINDOW & DOOR HARDWARE

HOPE'S ONE COLLECTION

Window & Door Hardware Choices

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

This hardware is used for both windows and doors. Your specific hardware is determined by the window or door type.

CREMONE

Rotating handle and sliding rods used to secure the leaves of a double window or door.



FLUSH BOLTS

Top and bottom locking bolts used to secure the inactive leaf of a double window or door.



LIFT & SLIDE HARDWARE

HOPE'S ONE COLLECTION

Lift & Slide Window Hardware Choices

ESCUTCHEON STYLE

Choose square, arched or round escutcheon.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

ESCUTCHEON STYLES

1-1/2" x 8" x 1/4"

SQUARE PLATE



ARCHED PLATE



ROUND PLATE



WINDOW HARDWARE

Interior-only lever and trim plate for lift & slide vents.



Closed position



Open position

EXTERIOR HANDLE (DOORS ONLY)

Exterior recessed pull may be used with patio and passage locking functions only.

LEVER



RECESSED PULL



Lift & Slide Door Hardware Choices

ESCUTCHEON STYLE

Choose square, arched or round escutcheon.

LOCKING FUNCTION

Choose entrance, patio or passage locking function.

EXTERIOR HANDLE

Choose lever or recessed pull.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

LOCKING FUNCTIONS (DOORS ONLY)

ENTRANCE

Exterior cylinder, interior thumbturn



PATIO

Interior thumbturn only



PASSAGE

No cylinder or thumbturn



VENTED WINDOW HARDWARE

HOPE'S ONE COLLECTION

Window Hardware Choices

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

Your fastener or roto operator is determined by window type.

FASTENER (#101) with BASE PLATE (A)

Window locking handles for swing-out casement with roto operators, swing-in casement and project-in vents.



FASTENER (#102) with BASE PLATE (B)

Window locking handles for swing-out casement and project-out vents.



ROTO OPERATOR (#141)

Single arm roto type crank operators for swing-out casement vents.



ROTO OPERATOR (#142)

Dual arm roto type crank operators for project-out vents.



MORTISE DOOR HARDWARE

HOPE'S ONE COLLECTION

Mortise Door Hardware Choices

TRIM TYPE

Choose rosette or escutcheon.

ESCUTCHEON STYLE

Choose square, arched or round plate style (escutcheon trim only).

LOCKING FUNCTION

Choose entrance, patio or passage locking function.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

TRIM TYPES

ROSETTE

2-1/4" dia. × 1/4" (at lever)

1-3/4" dia. × 1/4" (at lock)



ESCUTCHEON

2-1/2" × 11" × 1/4"



ESCUTCHEON STYLES

SQUARE PLATE



ARCHED PLATE



ROUND PLATE



LOCKING FUNCTIONS

ENTRANCE

Exterior cylinder,
interior thumbturn



PATIO

Interior thumbturn
only



PASSAGE

No cylinder or
thumbturn



MULTI-POINT DOOR HARDWARE

HOPE'S ONE COLLECTION

Multi-Point Door Hardware Choices

TRIM TYPE

Choose rosette or escutcheon.

ESCUTCHEON STYLE

Choose square, arched or round plate style (escutcheon trim only).

LOCKING FUNCTION

Choose entrance, patio or passage locking function.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

TRIM TYPES

ROSETTE
2-1/4" dia. x 1/4"
(at lever and lock)



ESCUTCHEON
1-1/2" x 11" x 1/4"



ESCUTCHEON STYLES

SQUARE PLATE



ARCHED PLATE



ROUND PLATE



LOCKING FUNCTIONS

ENTRANCE
Exterior cylinder,
interior thumbturn



PATIO
Interior thumbturn
only

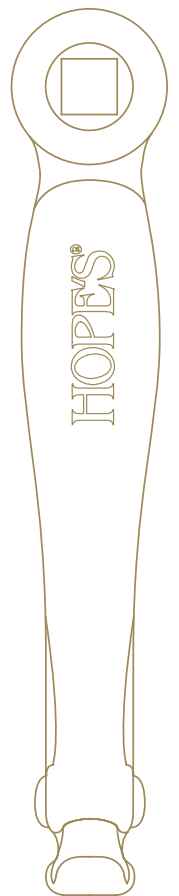


PASSAGE
No cylinder or
thumbturn



HOPE'S COLLECTION

Two



Graceful Curves, Elegant Contours, Traditional Style

WINDOW & DOOR HARDWARE

HOPE'S TWO COLLECTION

Window & Door Hardware Choices

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

This hardware is used for both windows and doors. Your specific hardware is determined by the window or door type.

CREMONE

Rotating handle and sliding rods used to secure the leaves of a double window or door.



FLUSH BOLTS

Top and bottom locking bolts used to secure the inactive leaf of a double window or door.



LIFT & SLIDE HARDWARE

HOPE'S TWO COLLECTION

Lift & Slide Window Hardware Choices

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

ESCUTCHEON STYLE

1-1/2" x 8" x 1/4"



Lift & Slide Door Hardware Choices

LOCKING FUNCTION

Choose entrance, patio or passage locking function.

EXTERIOR HANDLE

Choose lever or recessed pull.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

WINDOW HARDWARE

Interior-only lever and trim plate for lift & slide vents.



Closed position



Open position

EXTERIOR HANDLE (DOORS ONLY)

Exterior recessed pull may be used with patio and passage locking functions only.

LEVER



RECESSED PULL



LOCKING FUNCTIONS (DOORS ONLY)

ENTRANCE

Exterior cylinder, interior thumbturn



PATIO

Interior thumbturn only



PASSAGE

No cylinder or thumbturn



VENTED WINDOW HARDWARE

HOPE'S TWO COLLECTION

Window Hardware Choices

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

Your fastener or roto operator is determined by window type.

FASTENER (#103) with BASE PLATE (A)

Window locking handles for swing-out casement with roto operators, swing-in casement and project-in vents.



FASTENER (#104) with BASE PLATE (B)

Window locking handles for swing-out casement and project-out vents.



ROTO OPERATOR (#141)

Single arm roto type crank operators for swing-out casement vents.



ROTO OPERATOR (#142)

Dual arm roto type crank operators for project-out vents.



MORTISE DOOR HARDWARE

HOPE'S TWO COLLECTION

Mortise Door Hardware Choices

TRIM TYPE

Choose rosette or escutcheon.

LOCKING FUNCTION

Choose entrance, patio or passage locking function.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

TRIM TYPES

ROSETTE

2-1/4" dia. x 1/4" (at lever)

1-3/4" dia. x 1/4" (at lock)



ESCUTCHEON

2-1/2" x 11" x 1/4"



ESCUTCHEON STYLE



LOCKING FUNCTIONS

ENTRANCE

Exterior cylinder,
interior thumbturn



PATIO

Interior thumbturn
only



PASSAGE

No cylinder or
thumbturn



MULTI-POINT DOOR HARDWARE

HOPE'S TWO COLLECTION

Multi-Point Door Hardware Choices

TRIM TYPE

Choose rosette or escutcheon.

LOCKING FUNCTION

Choose entrance, patio or passage locking function.

FINISH

Choose your finish and color using the Finish Guide on pages 3 and 4.

TRIM TYPES

ROSETTE
2-1/4" dia. x 1/4"
(at lever and lock)



ESCUTCHEON
1-1/2" x 11" x 1/4"



ESCUTCHEON STYLE



LOCKING FUNCTIONS

ENTRANCE
Exterior cylinder,
interior thumbturn



PATIO
Interior thumbturn
only



PASSAGE
No cylinder or
thumbturn





WATER STREET
BRASS

DOOR COLLECTIONS

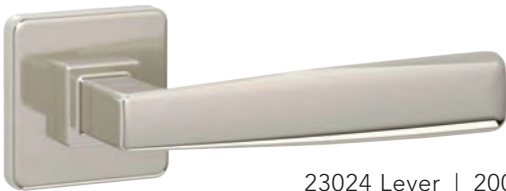
Each of these designer hardware collections comprises a full range of rosettes, escutcheons, thumbturns, levers, pulls, and knobs to create your perfect look. Choose pieces from within a single collection or mix-and-match for a truly unique selection that embodies harmony of form and function while catering to your personal style. Complete the look with your choice of finish and color using the Finish Guide on pages 3 and 4.

JAMESTOWN COLLECTION



23015 Lever | 20014 Rose

HUDSON COLLECTION



23024 Lever | 20035 Rose

PORT ROYAL COLLECTION

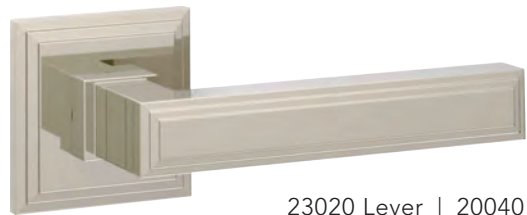


23030 Lever | 20030 Rose



23056 Lever | 20135 Rose

TERRACE COLLECTION

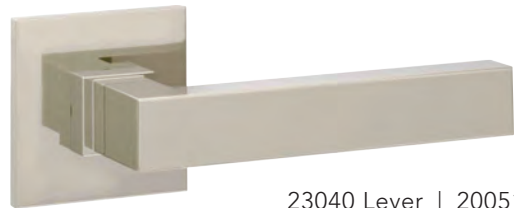


23020 Lever | 20040 Rose



23050 Lever | 20072 Rose

MANOR COLLECTION



23040 Lever | 20051 Rose



23062 Lever | 20050 Rose

HOPE'S®

Hope's has partnered with Water Street Brass to offer these additional collections of fine artisan hardware for doors. These well-appointed lines of decorative hardware are perfectly suited to fit Hope's locksets.

HOPE'S®

HOPE'S WINDOWS, INC.

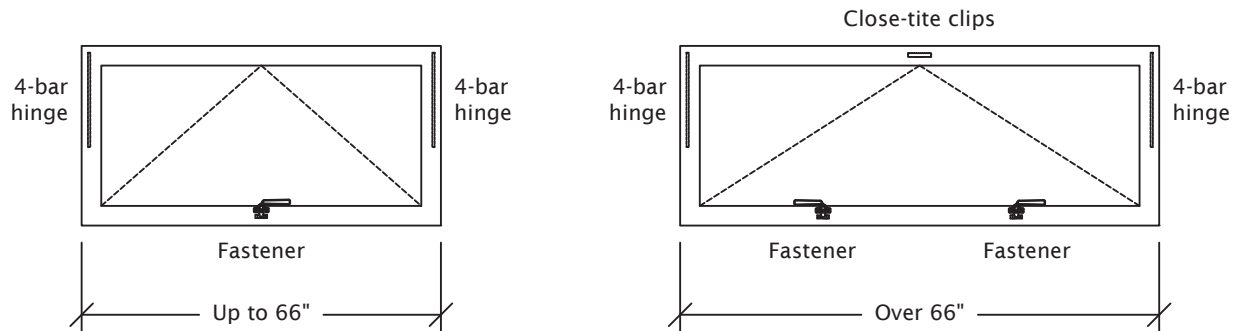
84 Hopkins Avenue • PO Box 580
Jamestown, New York • 14702-0580
716.655.5124 • Fax 716.665.3365
www.hopeswindows.com



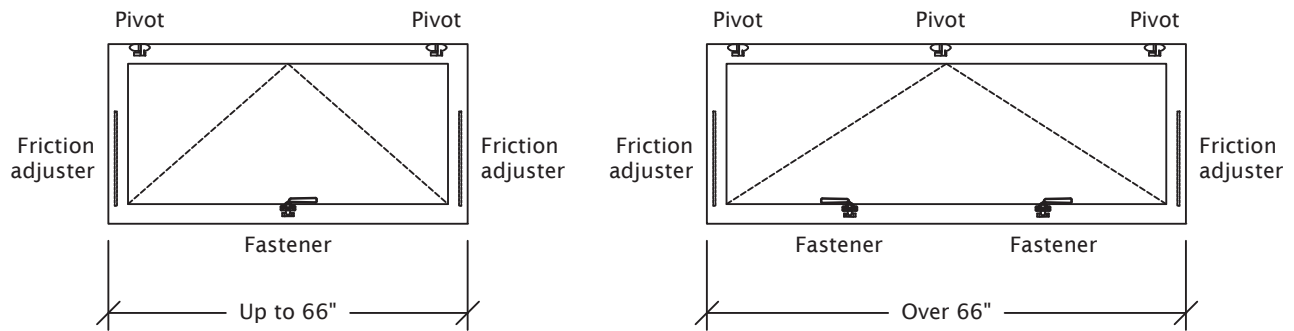
WATER STREET

4515 Gleason Road • PO Box 463
Lakewood, New York • 14750
716.763.0059 • Fax 716.763.6043
www.waterstreetbrass.com

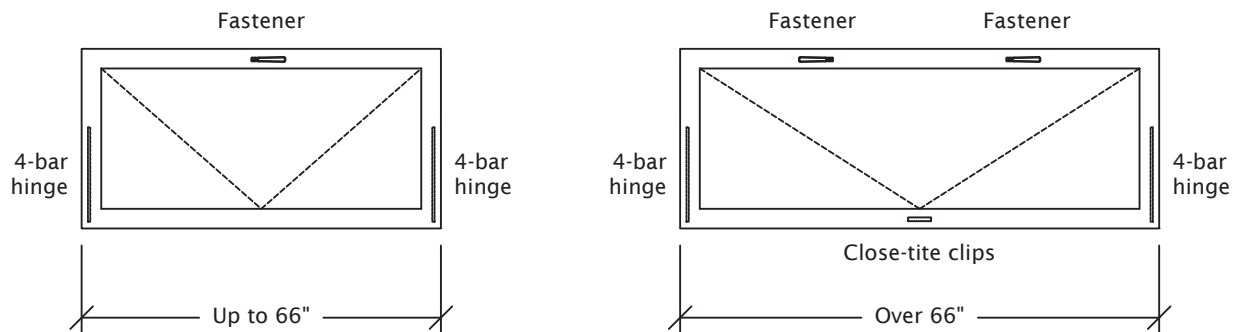
PROJECT-OUT



TOP HUNG-OUT



PROJECT-IN

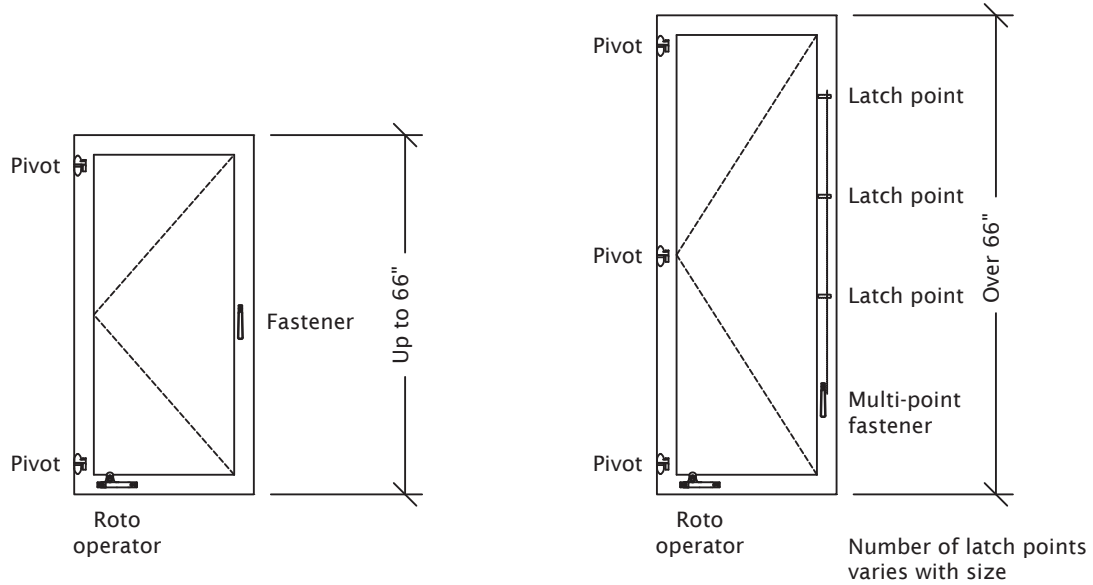


OPTIONAL HARDWARE FOR PROJECT-OUT AND TOP HUNG-OUT VENTILATORS

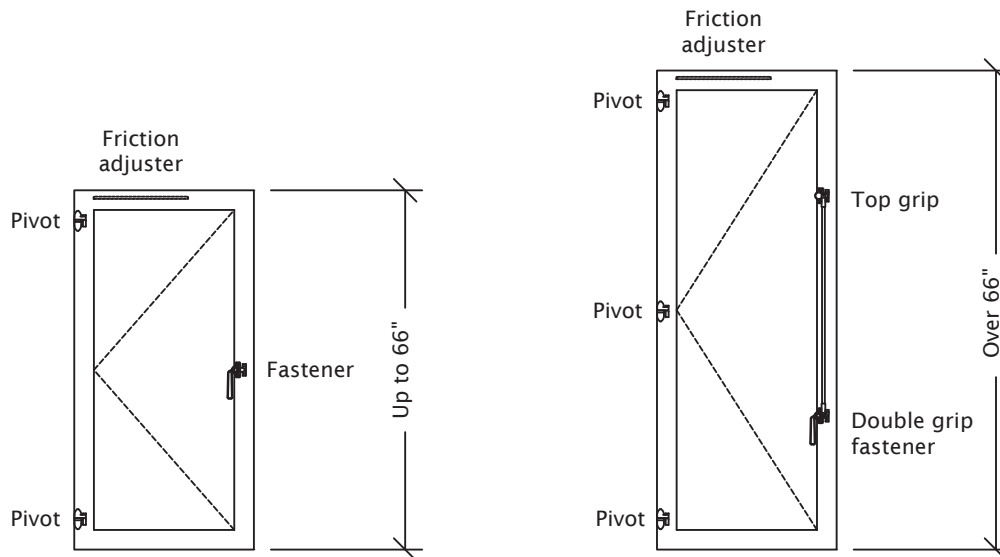
- Remote operators
- Life safety devices
- Dual arm roto operator
- Under screen push bar

Elevations are viewed from the interior. Elevations are not to scale.

SIDE HUNG-OUT (ROTO OPERATED)



SIDE HUNG-OUT (SIMPLEX OPERATED)

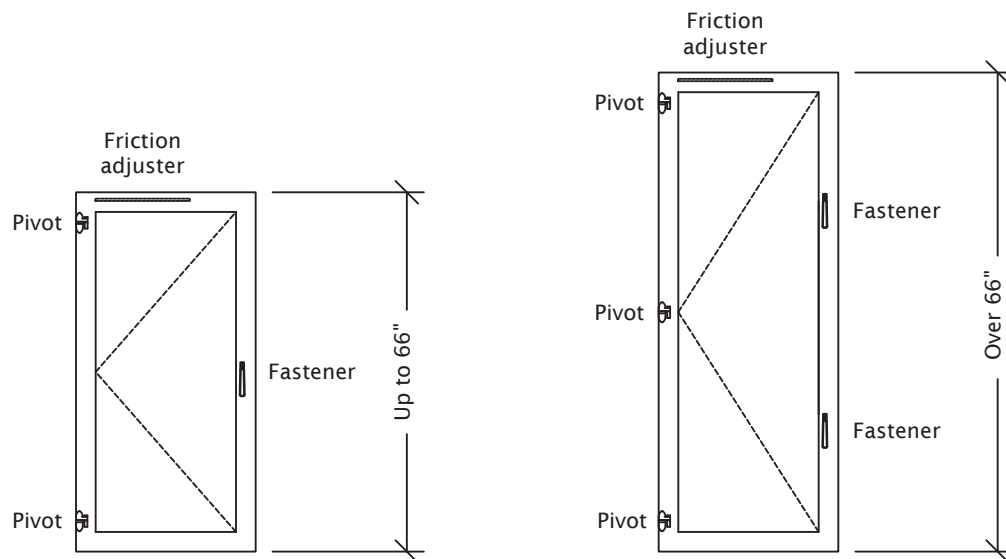


OPTIONAL HARDWARE FOR SILL OF SIMPLEX OPERATED SIDE HUNG-OUT VENTILATORS

- Double bar adjuster
- Life safety limit device

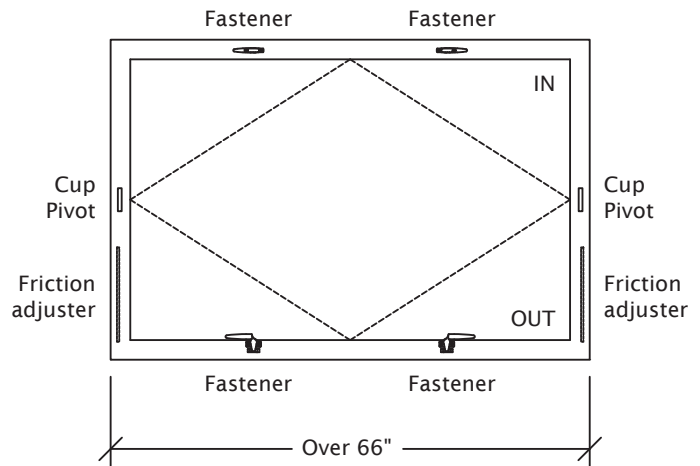
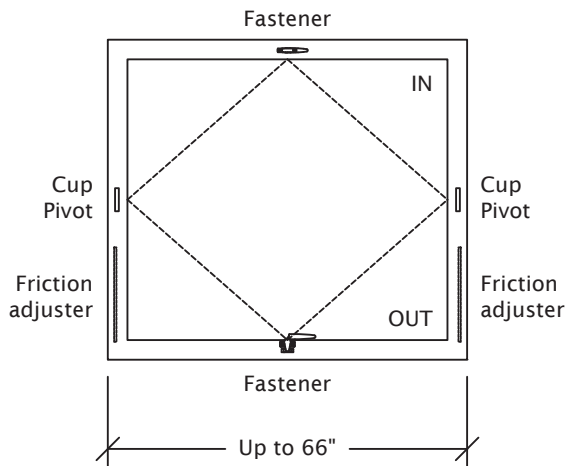
Elevations are viewed from the interior. Elevations are not to scale.

SIDE HUNG-IN

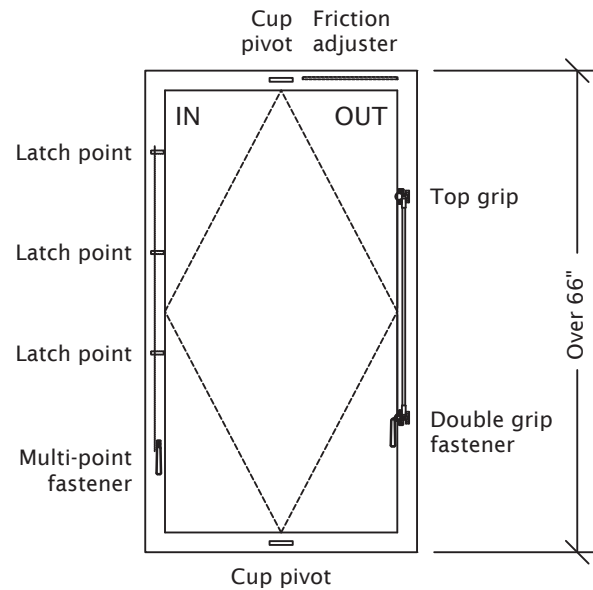
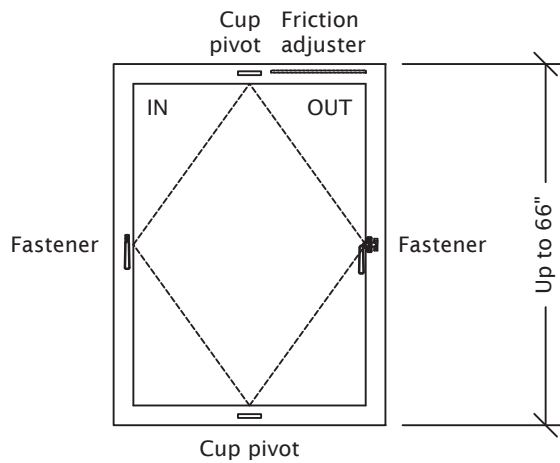


Elevations are viewed from the interior. Elevations are not to scale.

90-DEGREE HORIZONTAL PIVOTED



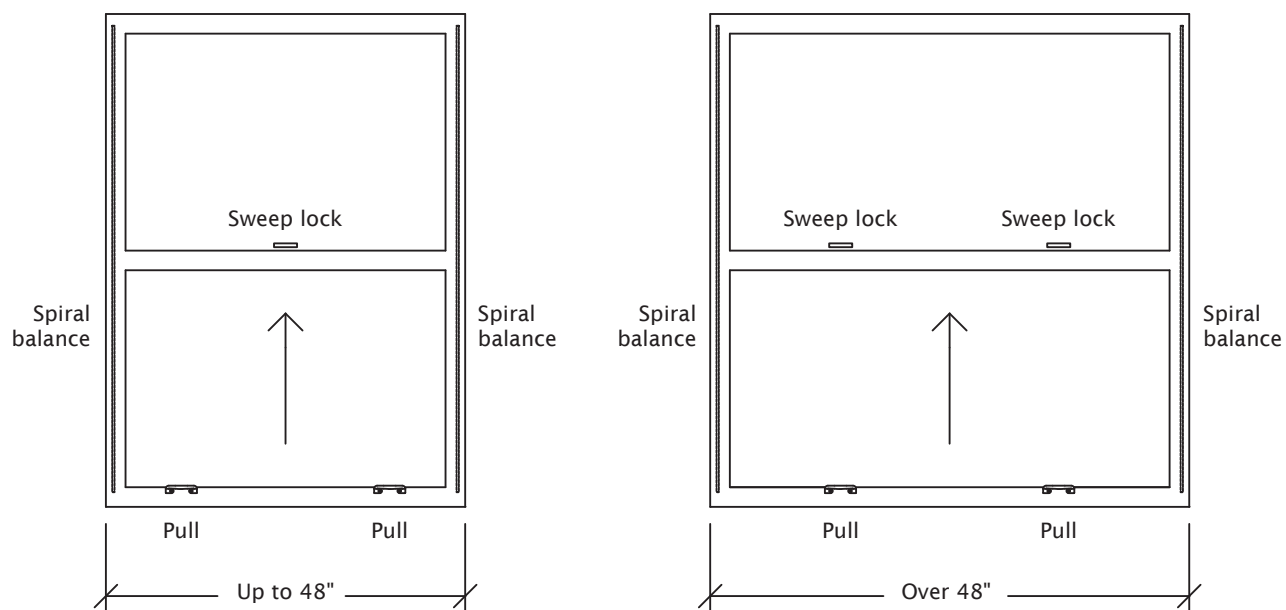
90 DEGREE VERTICAL PIVOTED



Number of latch points varies with size

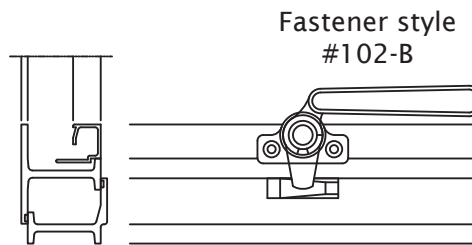
Elevations are viewed from the interior. Elevations are not to scale.

SINGLE HUNG

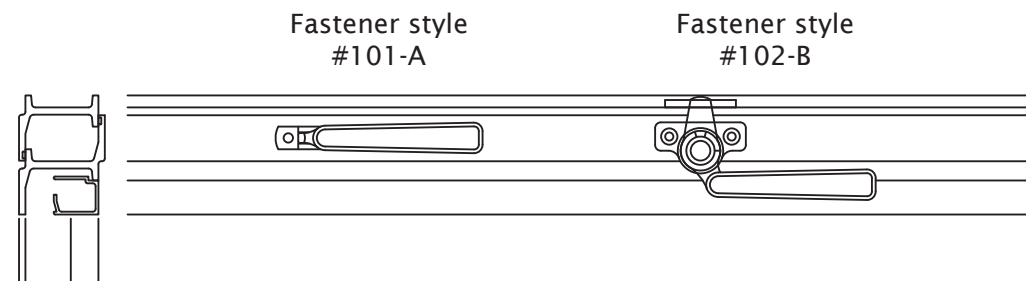


Elevations are viewed from the interior. Elevations are not to scale.

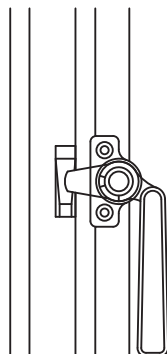
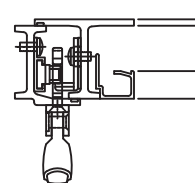
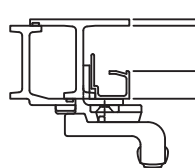
PROJECT-OUT, TOP HUNG-OUT or HORIZONTAL PIVOTED



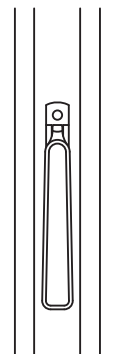
PROJECT-IN or HORIZONTAL PIVOTED



SIDE HUNG-OUT (SIMPLEX) or VERTICAL PIVOTED (OUT)



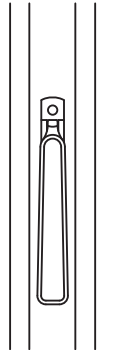
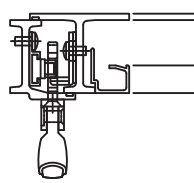
Fastener style
#102-B



Fastener style
#101-A

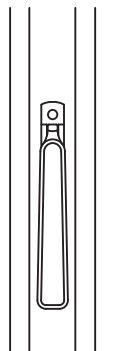
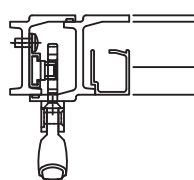
Details are 1/4 scale.

SIDE HUNG-OUT (ROTO) or VERTICAL PIVOTED (OUT)



Fastener style
#101-A

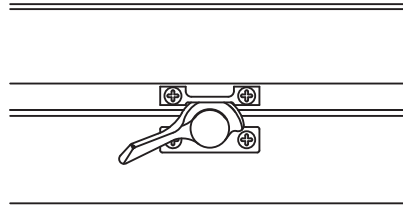
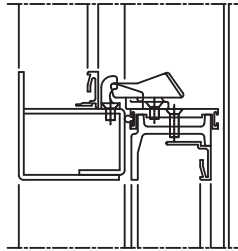
SIDE HUNG-IN or VERTICAL PIVOTED (IN)



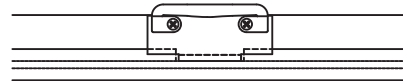
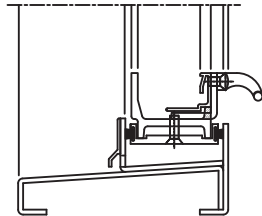
Fastener style
#101-A

Details are 1/4 scale.

SINGLE HUNG



#291-012 Sweep Lock
#204-001 Keeper



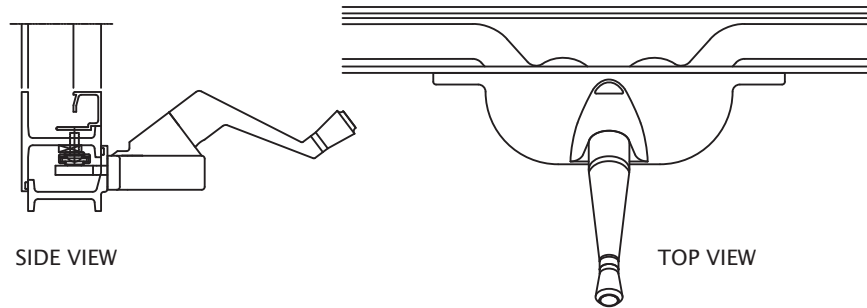
#243-001 Pull

Details are 1/4 scale.

PROJECT-OUT

#142 DUAL ARM ROTO OPERATOR

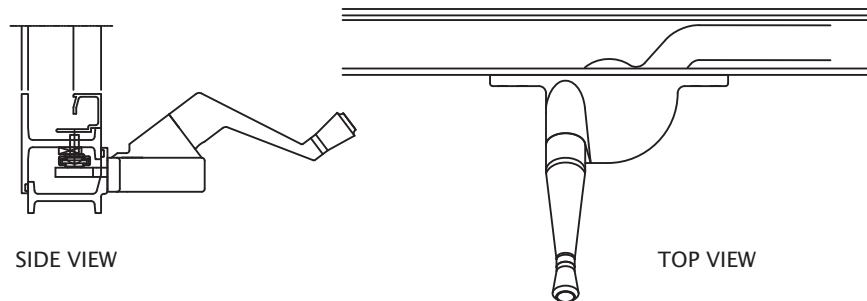
Solid brass housing and crank
Stainless steel arm
Stainless steel track



SIDE HUNG-OUT

#141 SINGLE ARM ROTO OPERATOR

Solid brass housing and crank
Stainless steel arm
Stainless steel track

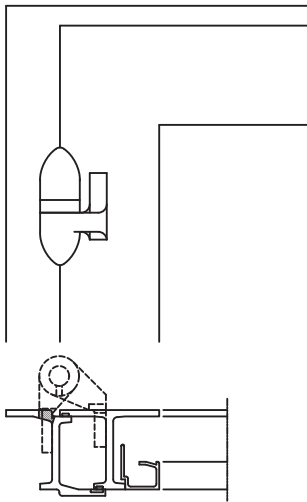


Details are 1/4 scale.

SIDE HUNG-OUT or IN

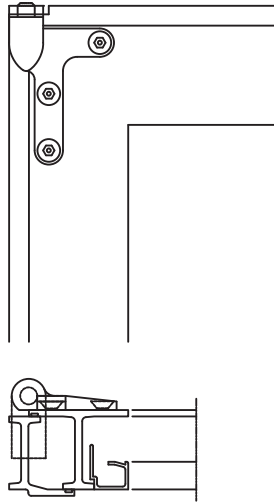
#237 PIVOT

Painted to match finish



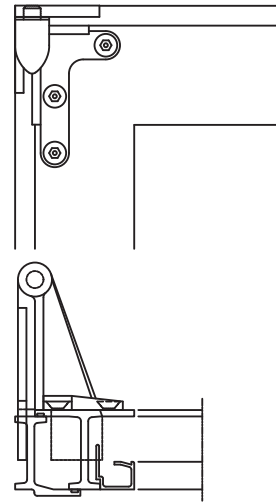
#732 CORNER PIVOT

Aluminum-bronze and
stainless steel
Painted to match finish
Stainless steel pin



#734 CORNER EXTENSION PIVOT

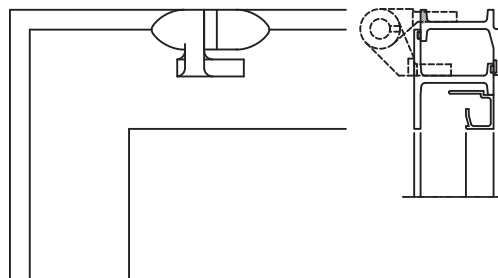
Aluminum-bronze and
stainless steel
Painted to match finish
Stainless steel pin



TOP HUNG-OUT

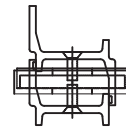
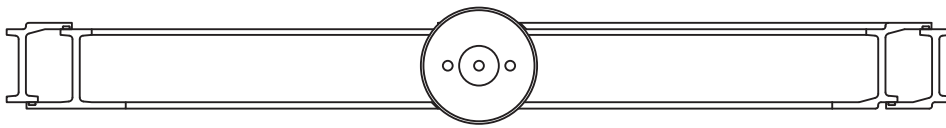
#237 PIVOT

Painted to match finish

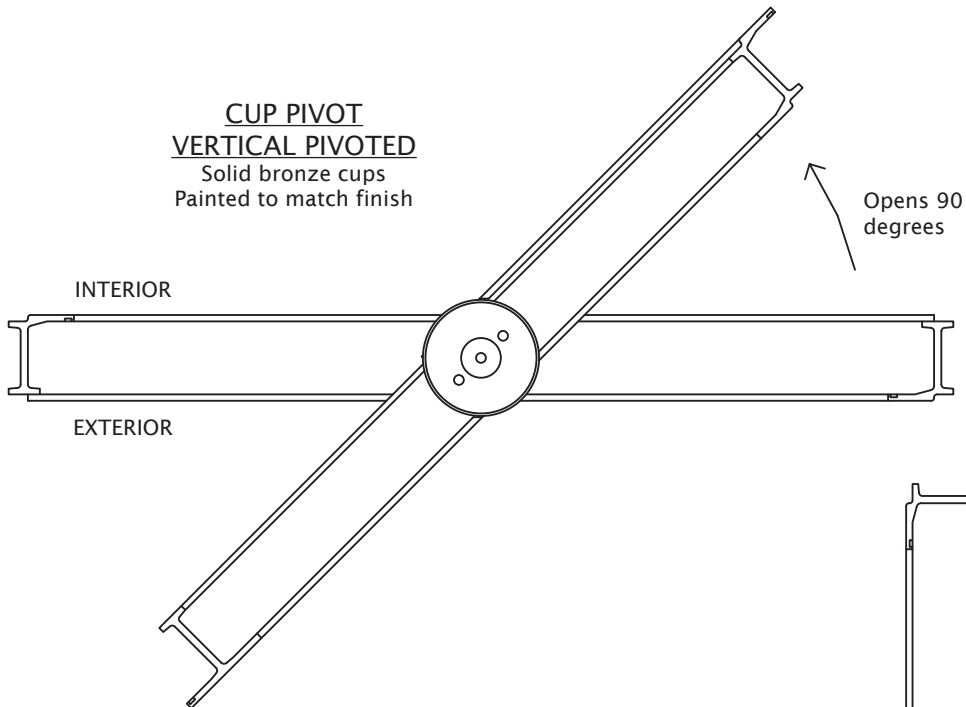


Details are 1/4 scale.

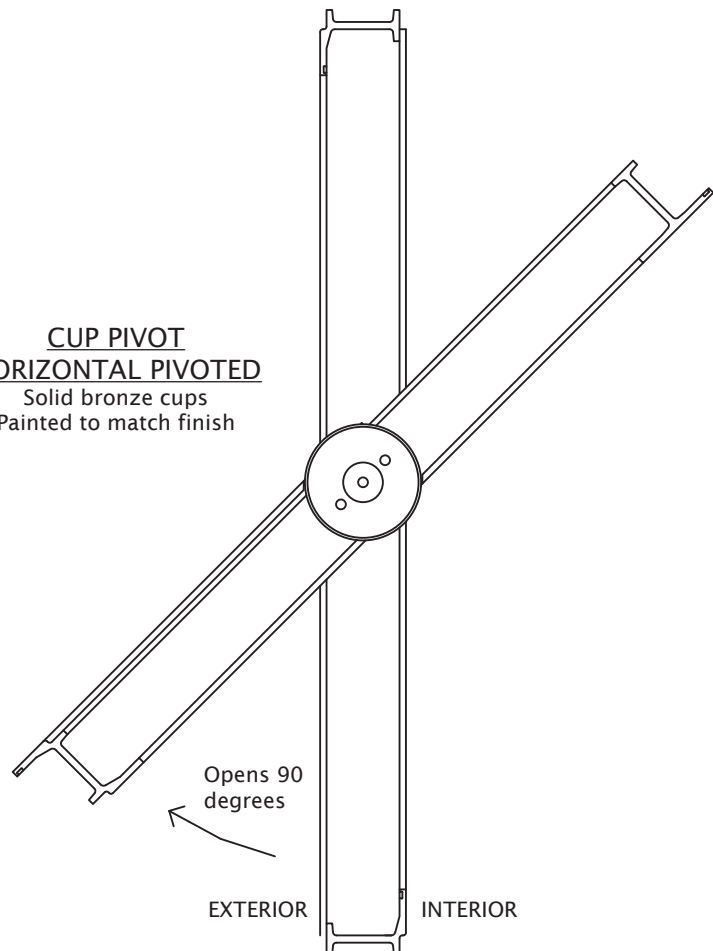
VERTICAL and HORIZONTAL PIVOTED



CUP PIVOT VERTICAL PIVOTED Solid bronze cups Painted to match finish

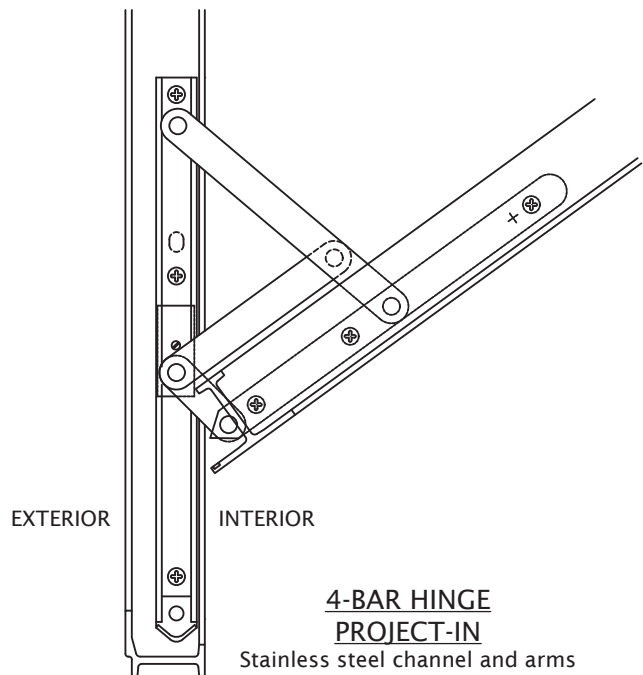
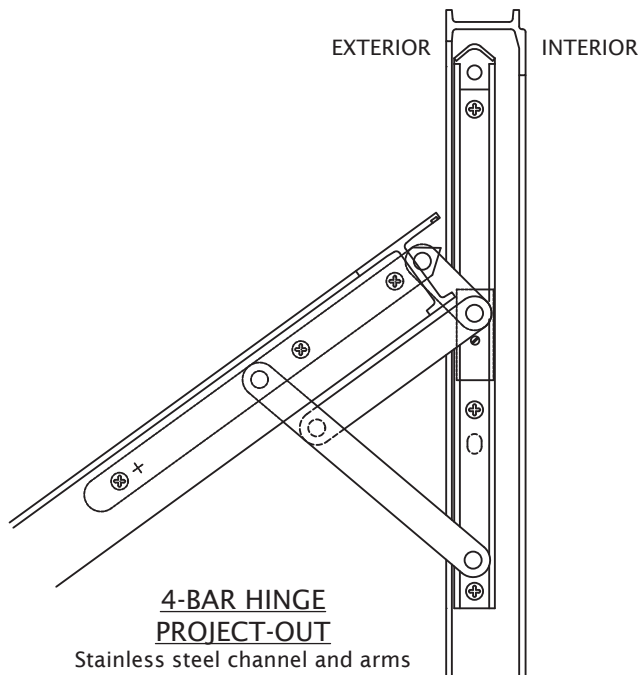


CUP PIVOT HORIZONTAL PIVOTED Solid bronze cups Painted to match finish

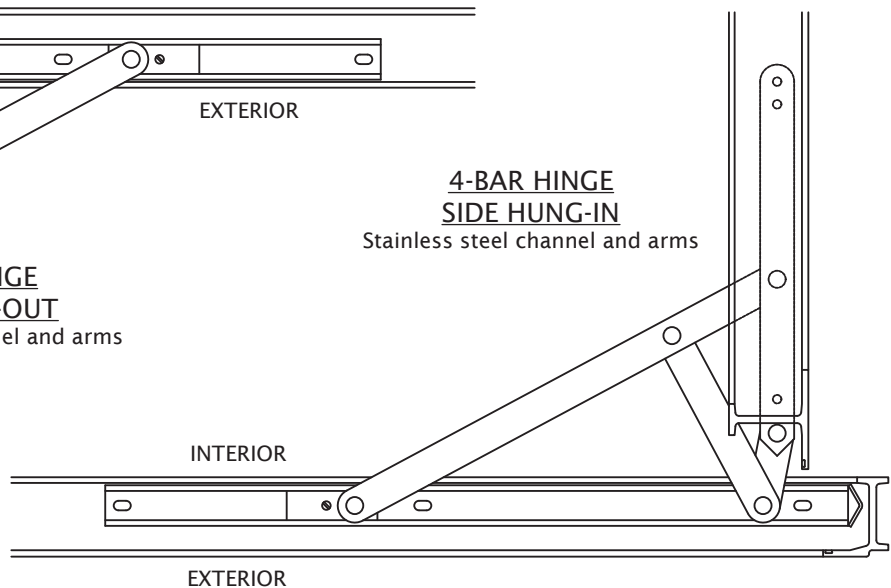
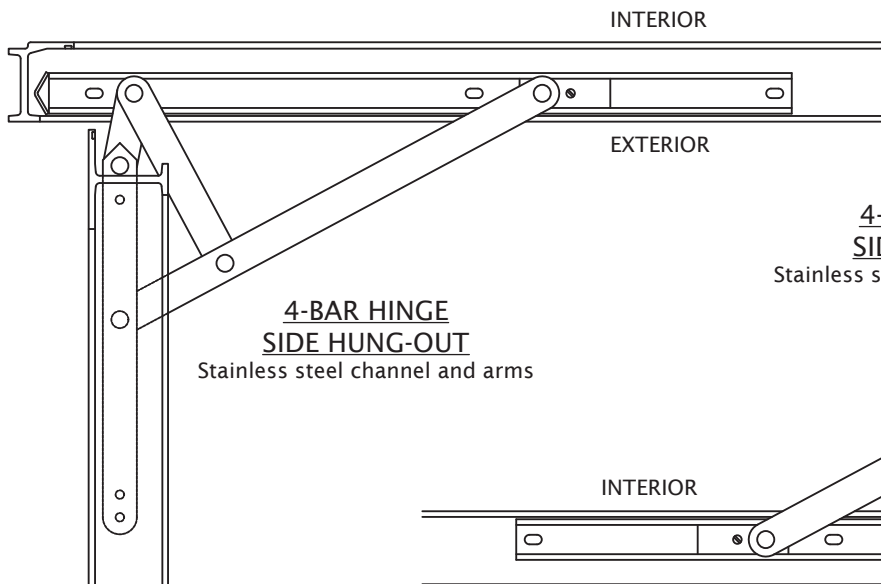


Details are 1/4 scale.

PROJECT-OUT or IN

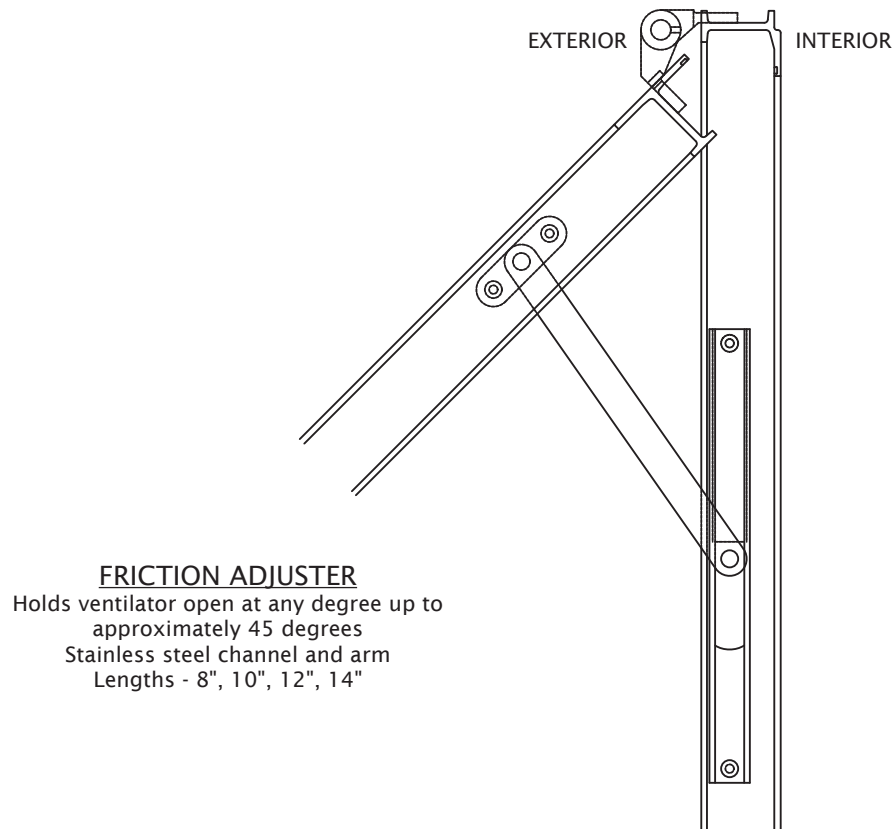


SIDE HUNG-OUT or IN

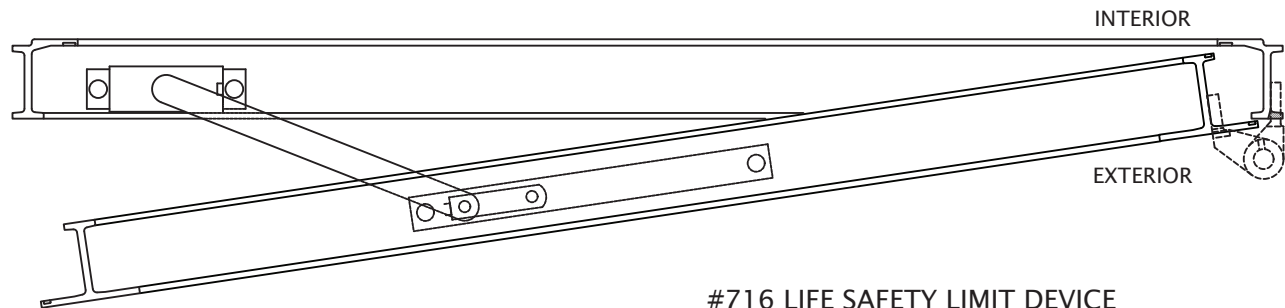


Details are 1/4 scale.

TOP HUNG-OUT

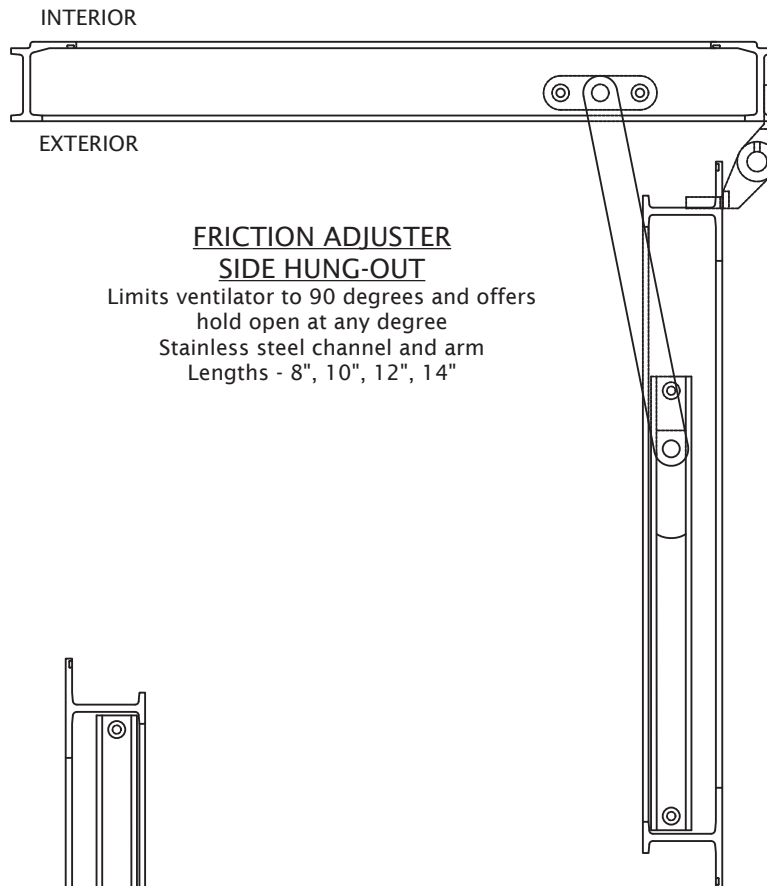


SIDE HUNG-OUT



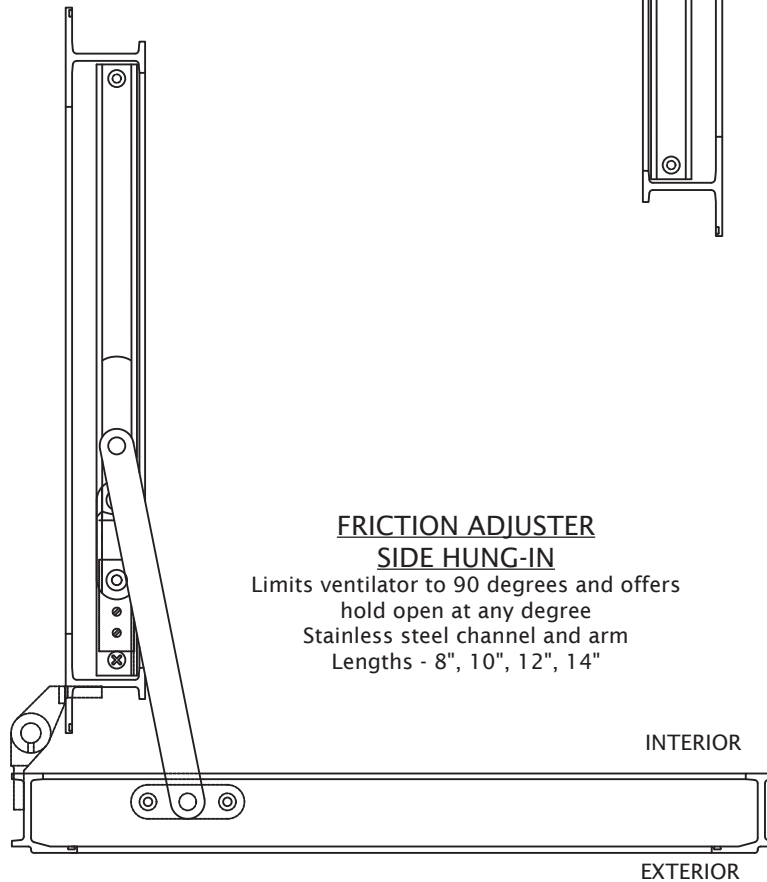
Details are 1/4 scale.

SIDE HUNG-OUT or IN



FRICTION ADJUSTER SIDE HUNG-OUT

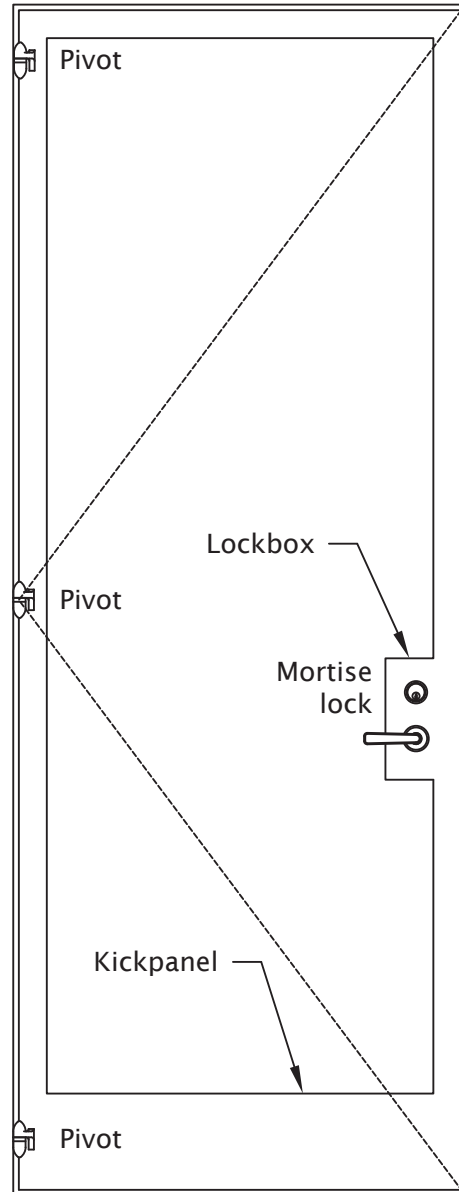
Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"



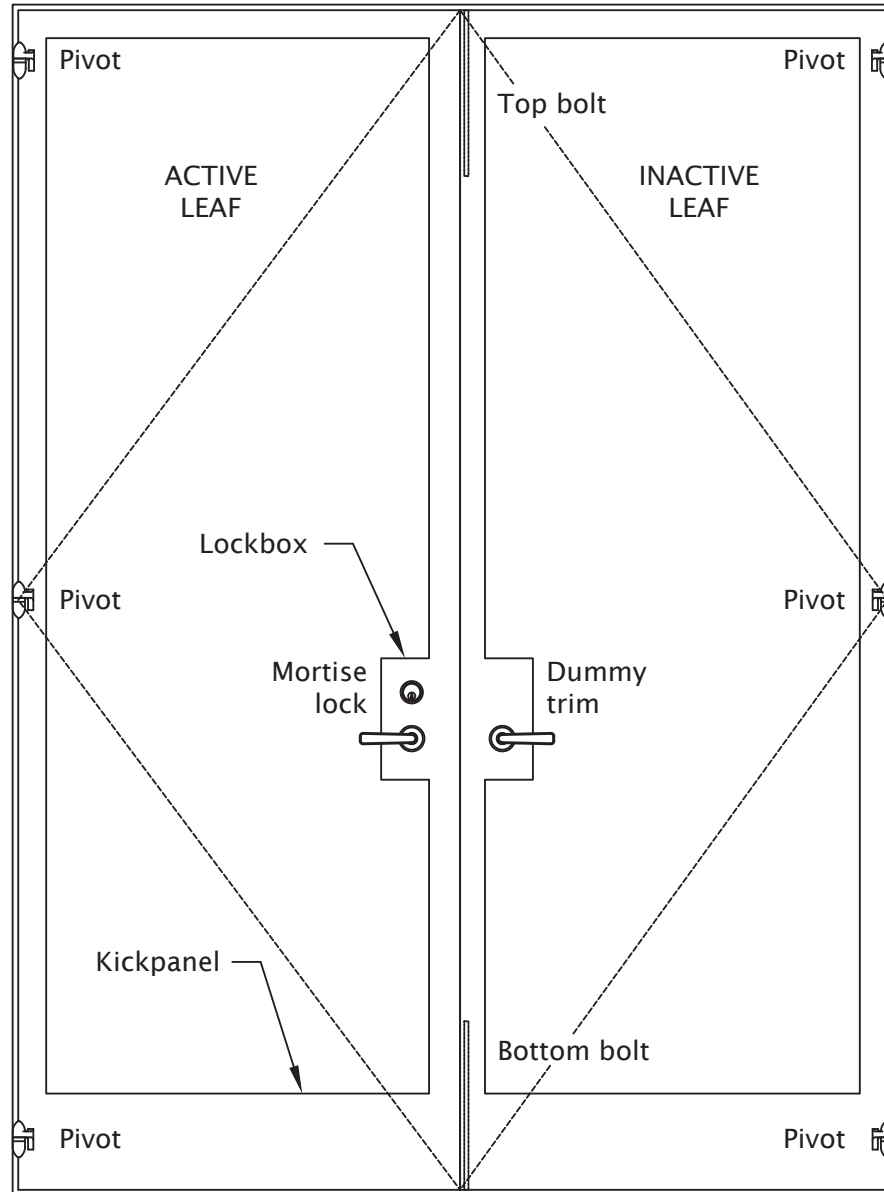
FRICTION ADJUSTER SIDE HUNG-IN

Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"

Details are 1/4 scale.



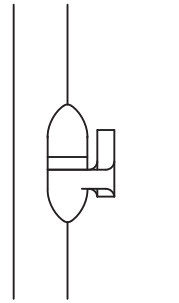
Elevations are viewed from the exterior. Elevations are not to scale.



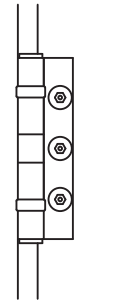
Elevations are viewed from the exterior. Elevations are not to scale.

PIVOT/HINGE

- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)
- #1000HD
Heavy duty 5-knuckle ball-bearing hinge screw attached to door and frame with tamper resistant screws



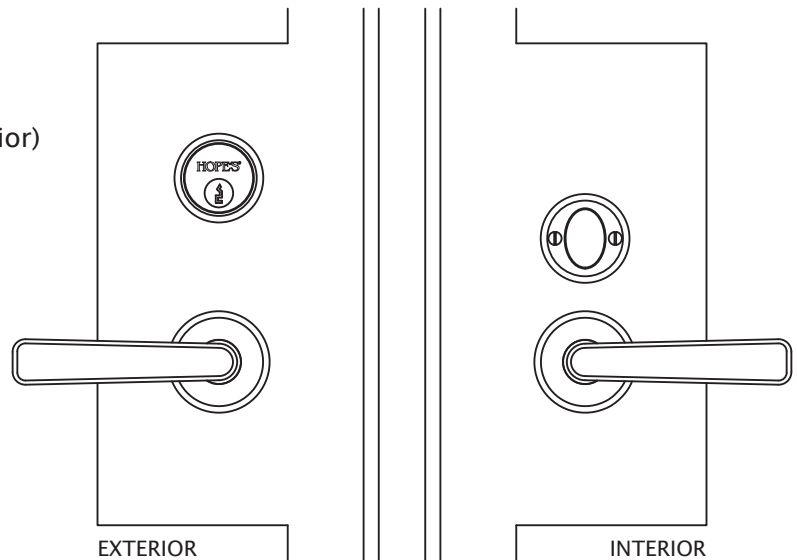
#237 PIVOT



#1000HD

MORTISE LOCK

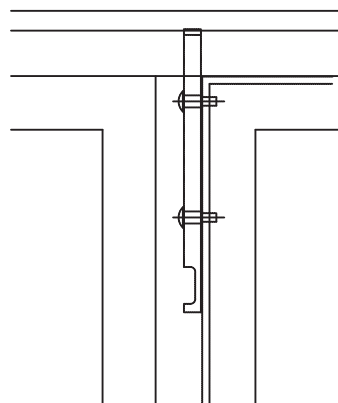
- Entrance lock including:
 - Lever handles (exterior & interior)
 - Escutcheon plates (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- Additional mortise lock features:
 - Heavy duty lock
 - Largest variety of lock functions
 - Lockbox cuts into glass
 - Rose and escutcheon trim choices



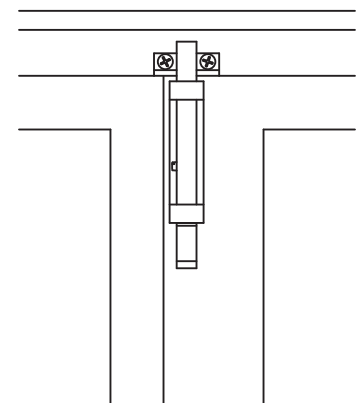
TOP & BOTTOM BOLTS

(Double doors only)

- #19-156M1 (concealed)
- #20-50M1 (exposed)
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations



#19-156M1
(concealed)
INTERIOR VIEW

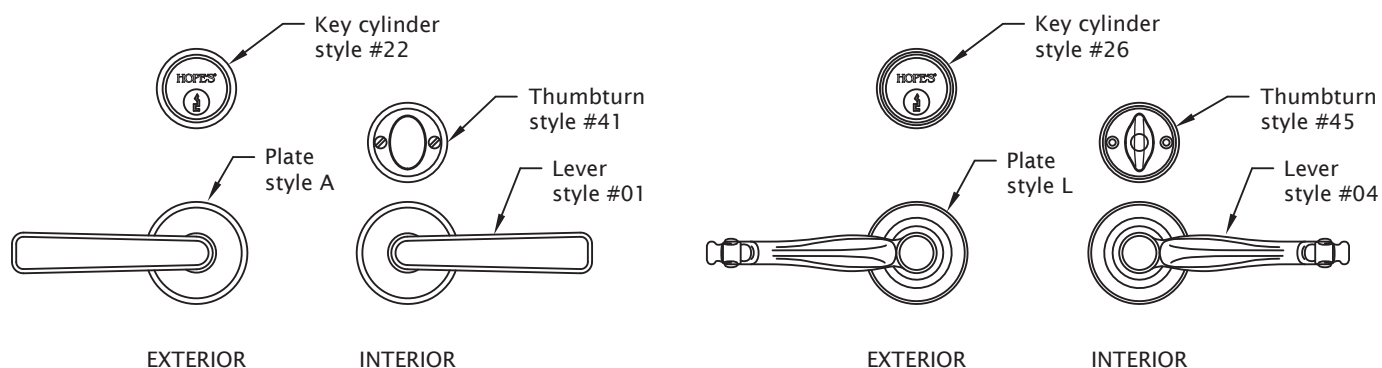


#20-50M1
(exposed)
INTERIOR VIEW

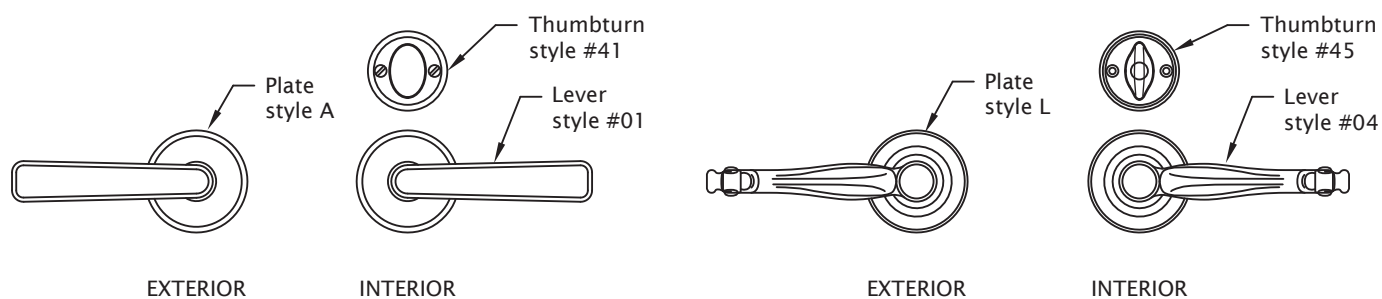
Details are 1/4 scale.

ROSE TRIM Rose size - 2-1/4"

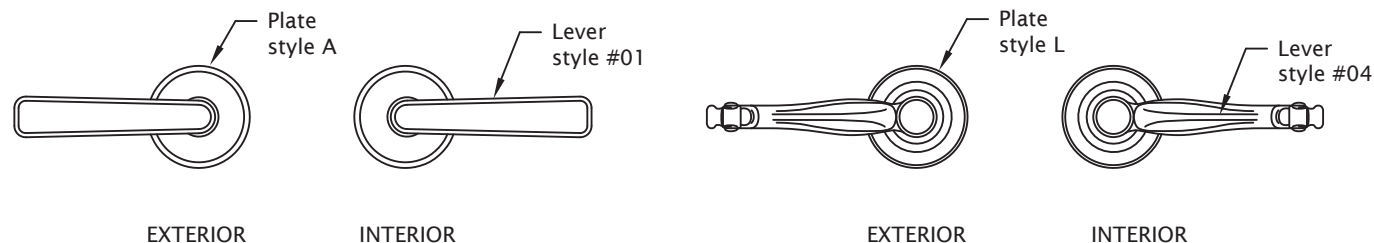
ENTRANCE FUNCTION



PATIO FUNCTION



PASSAGE FUNCTION FULL DUMMY FUNCTION



Details are 1/4 scale.

ENTRANCE FUNCTION TRIM

Escutcheon size - 2-1/2" x 11"

Plate style B

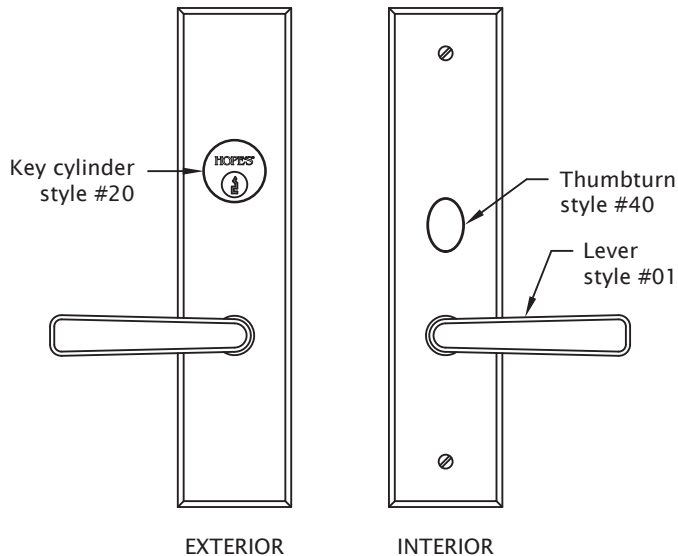


Plate style H

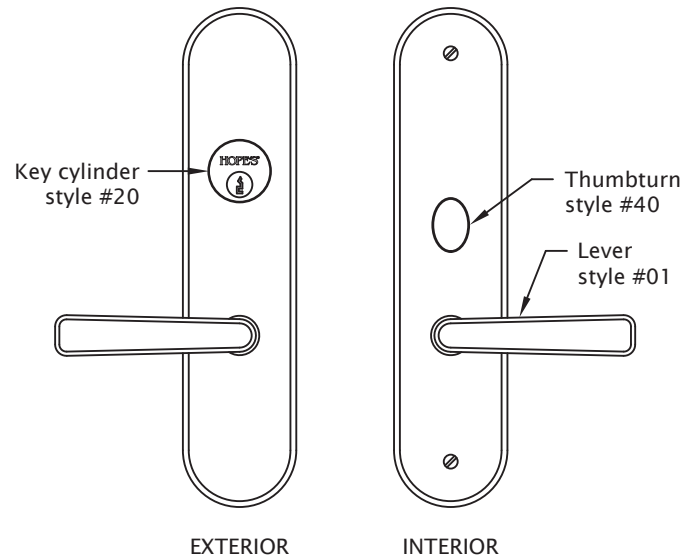


Plate style E

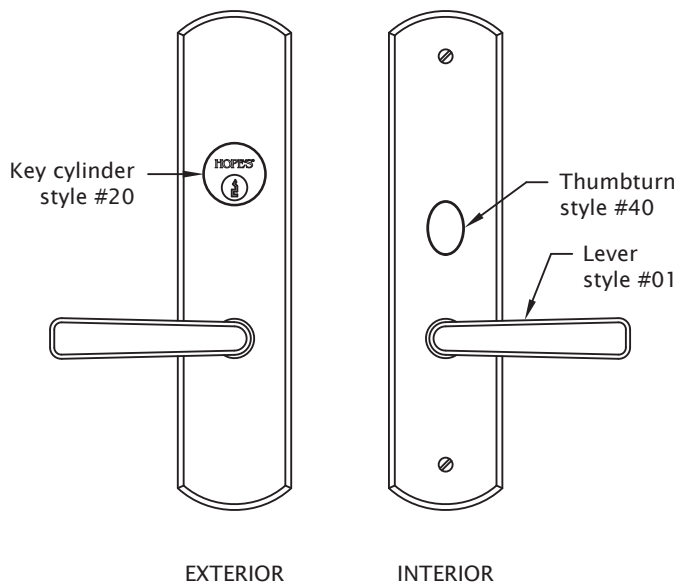
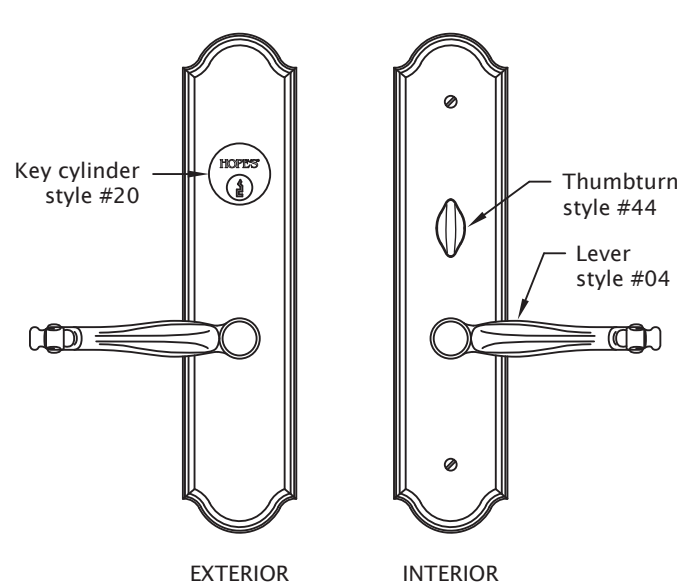


Plate style M



Details are 1/4 scale.

PATIO FUNCTION TRIM
Escutcheon size - 2-1/2" x 11"

Plate style B

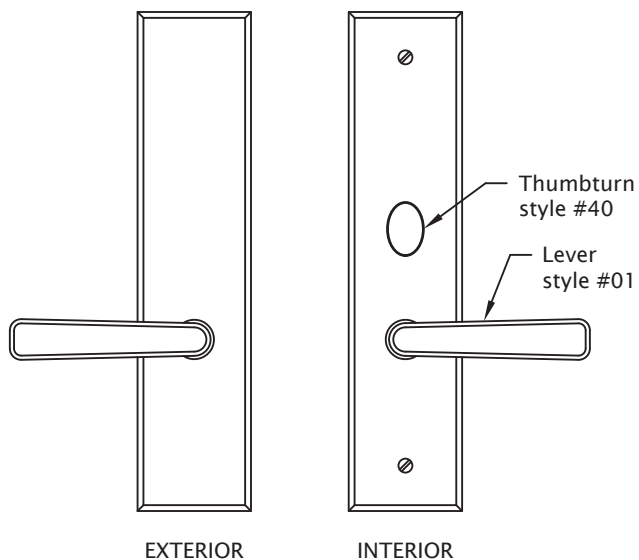


Plate style H

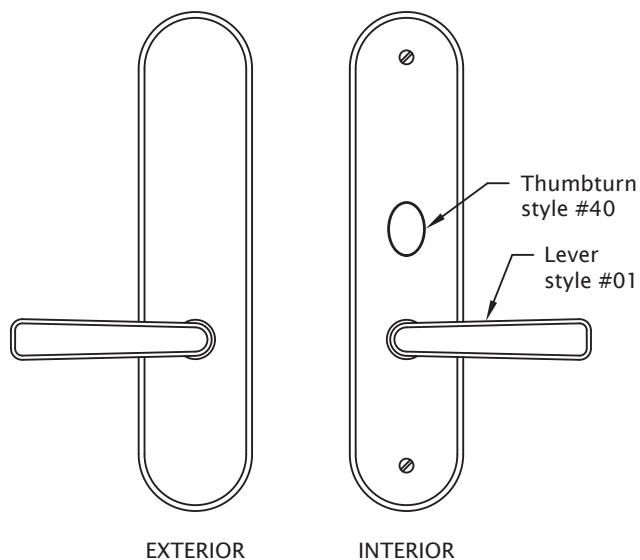


Plate style E

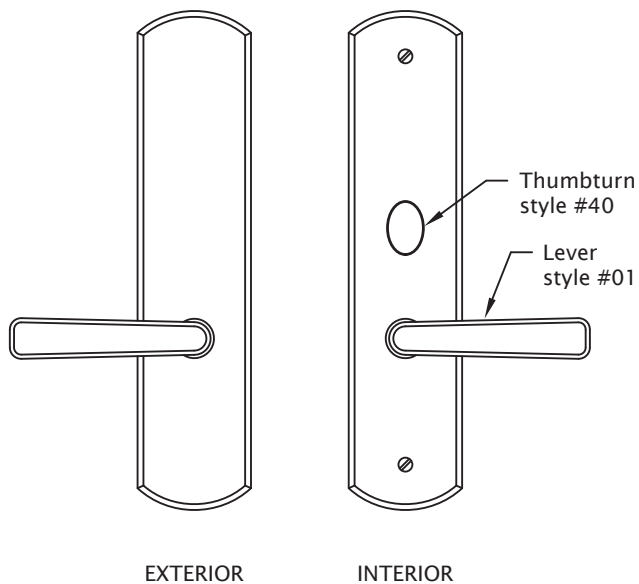
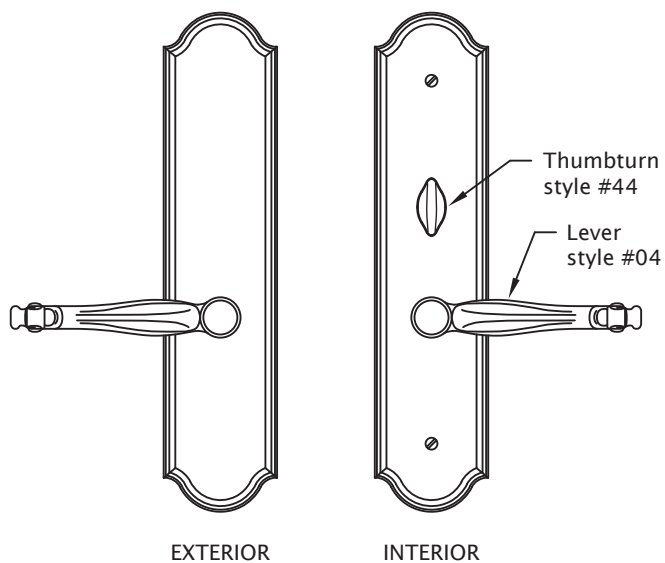


Plate style M



Details are 1/4 scale.

PASSAGE or FULL DUMMY FUNCTION TRIM
Escutcheon size - 2-1/2" x 11"

Plate style B

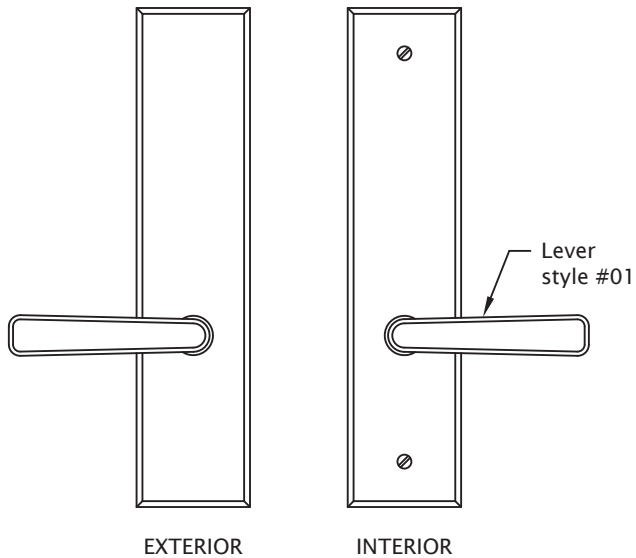


Plate style H

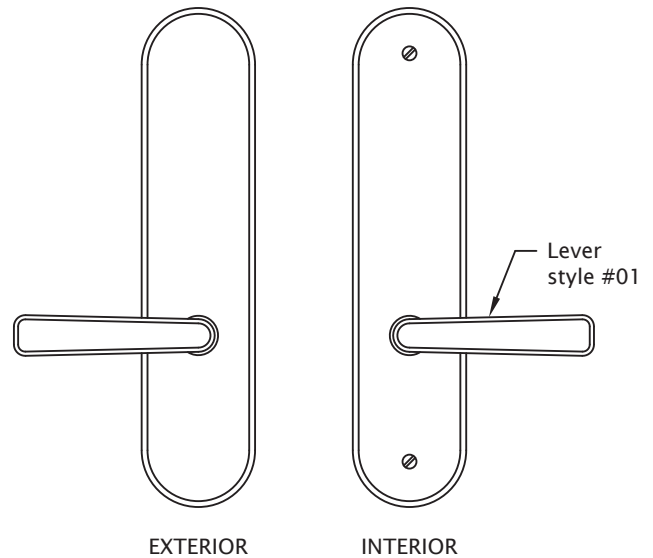


Plate style E

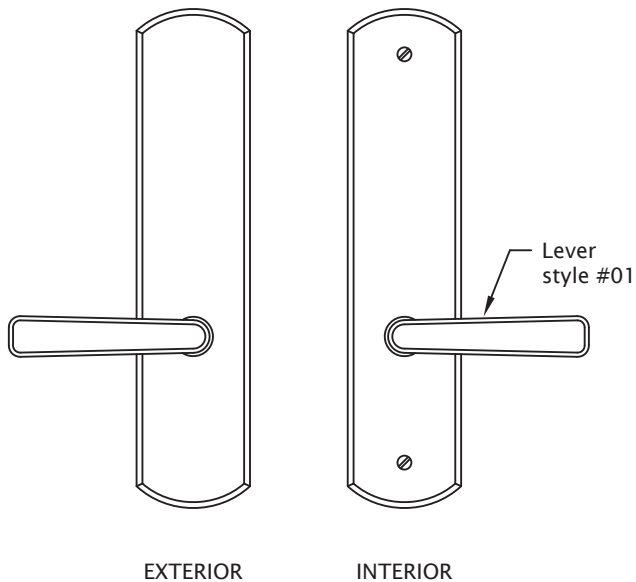
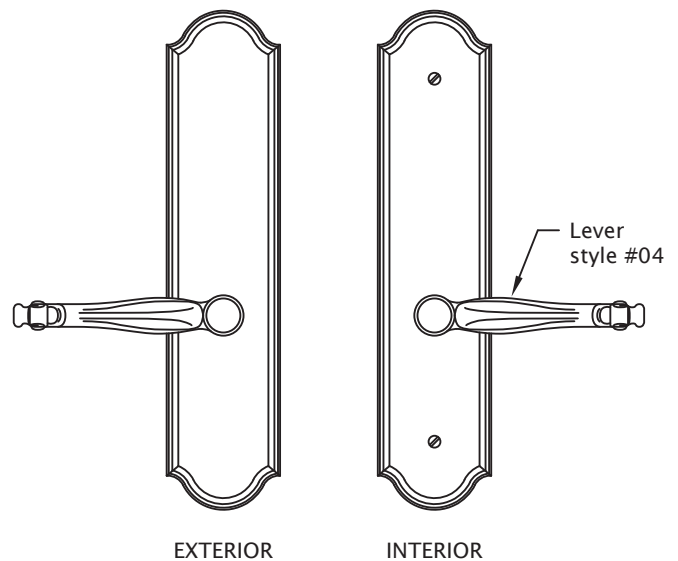
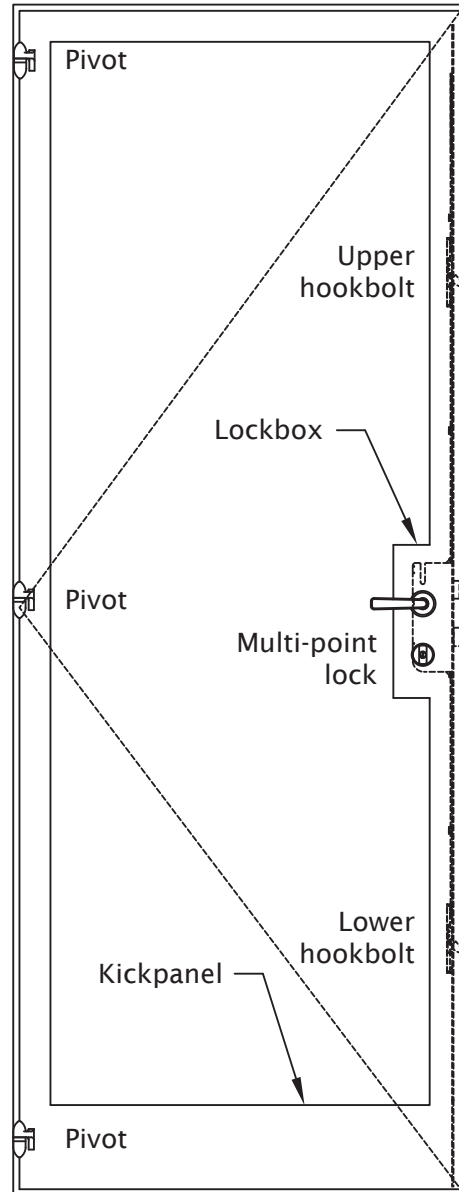


Plate style M



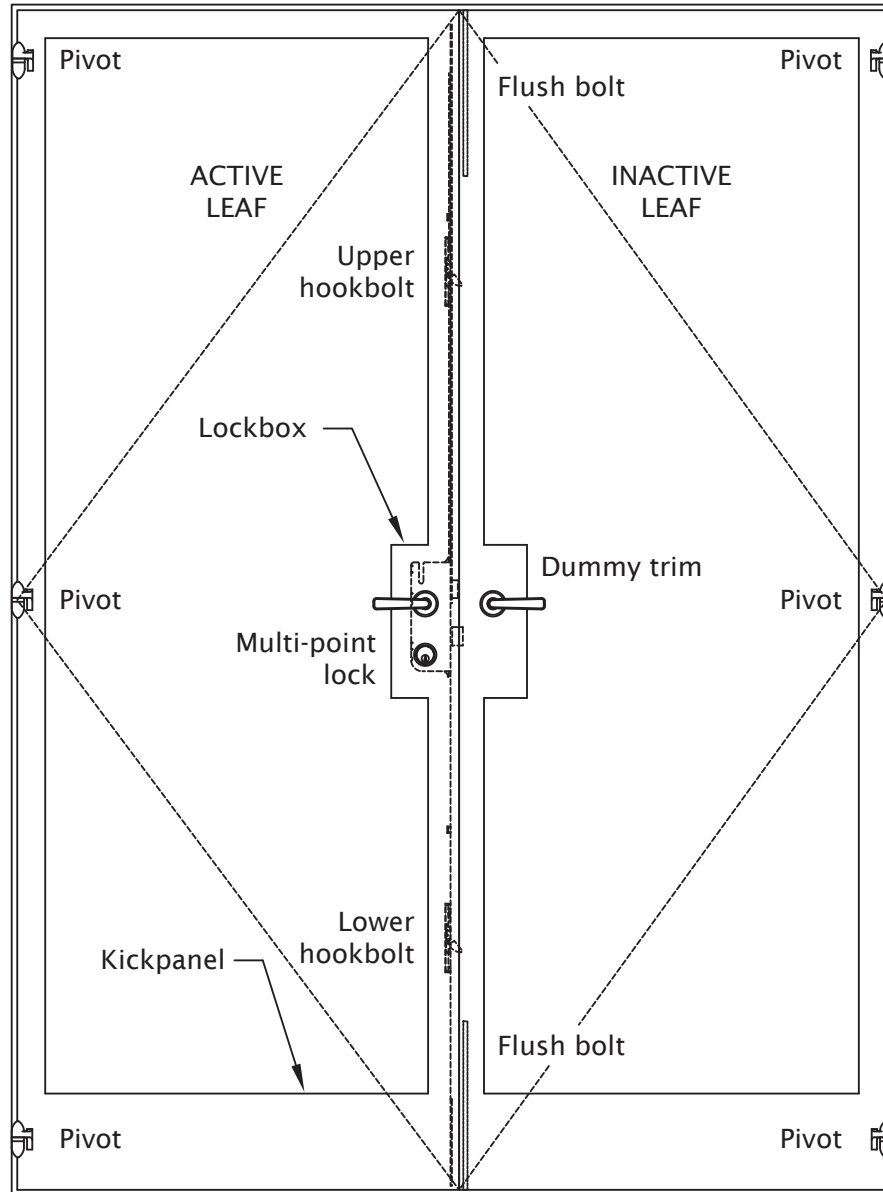
Additional functions available upon request.

Details are 1/4 scale.



Horizontal muntins or a full height lock stile are available when notching glass is not an option.
Hurricane impact doors require a full height lock stile.

Elevations are viewed from the exterior. Elevations are not to scale.

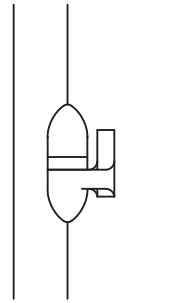


Horizontal muntins or a full height lock stile are available when notching glass is not an option.
Hurricane impact doors require a full height lock stile.

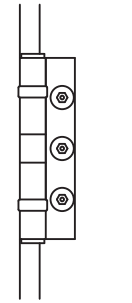
Elevations are viewed from the exterior. Elevations are not to scale.

PIVOT/HINGE

- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)
- #1000HD
Heavy duty 5-knuckle ball-bearing hinge screw attached to door and frame with tamper resistant screws



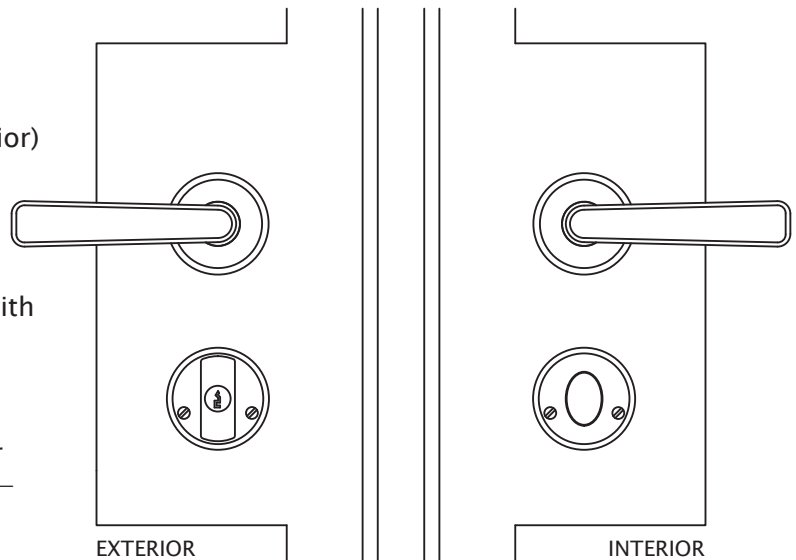
#237 PIVOT



#1000HD

MULTI-POINT LOCK

- Entrance lock including:
 - Lever handles (exterior & interior)
 - Escutcheon plates (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- Additional multi-point lock features:
 - Added security and performance with multi-point hookbolt type latching
 - Lockbox
 - Handle above key cylinder
 - Full height lock stile is required for hurricane impact approved doors — consult Hope's
 - 4 escutcheon trim choices



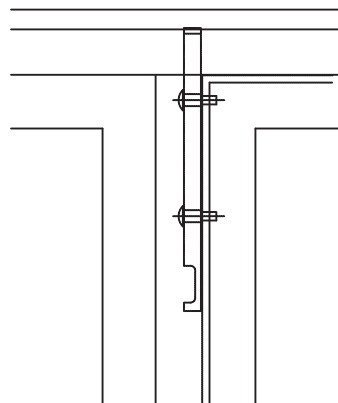
EXTERIOR

INTERIOR

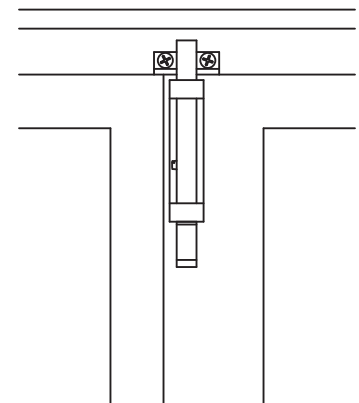
TOP & BOTTOM BOLTS

(Double doors only)

- #19-156M1 (concealed)
- #20-50 (exposed)
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations



#19-156M1
(concealed)
INTERIOR VIEW

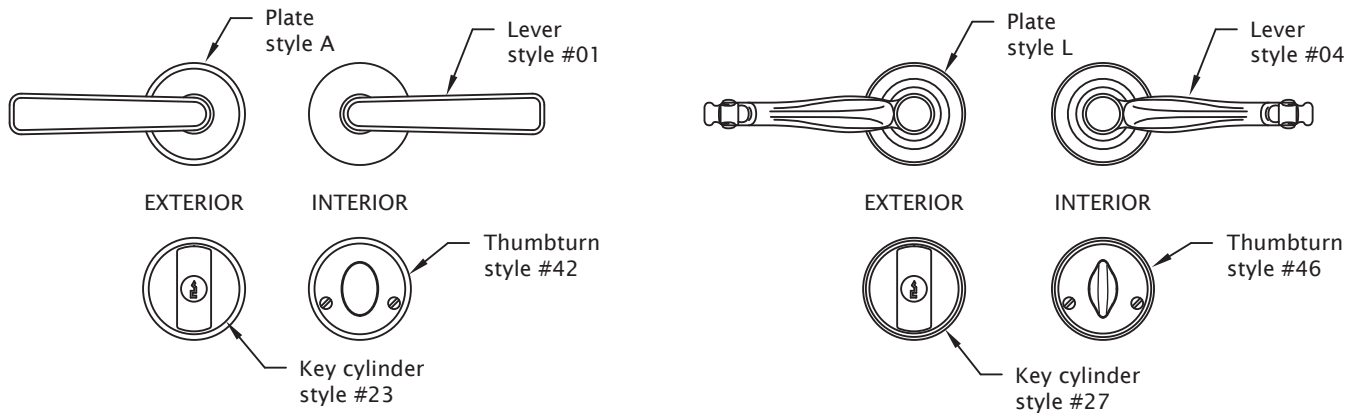


#20-50M1
(exposed)
INTERIOR VIEW

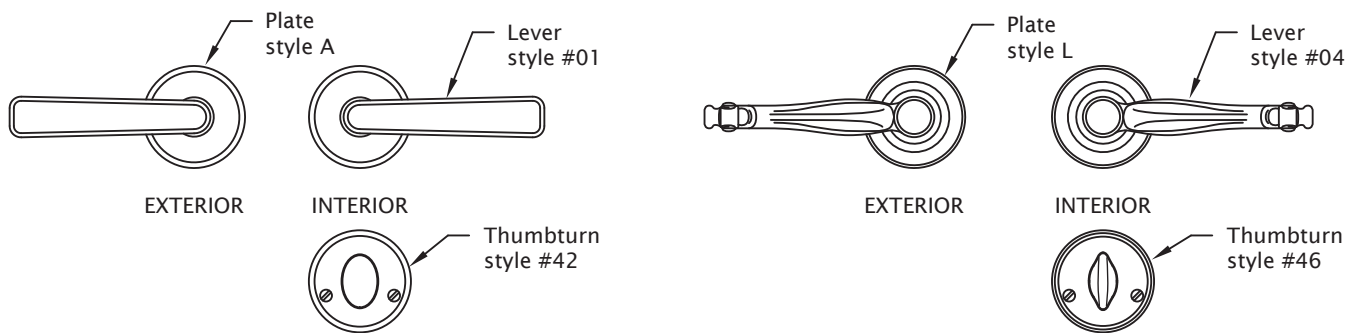
Details are 1/4 scale.

ROSE TRIM Rose size - 2-1/4"

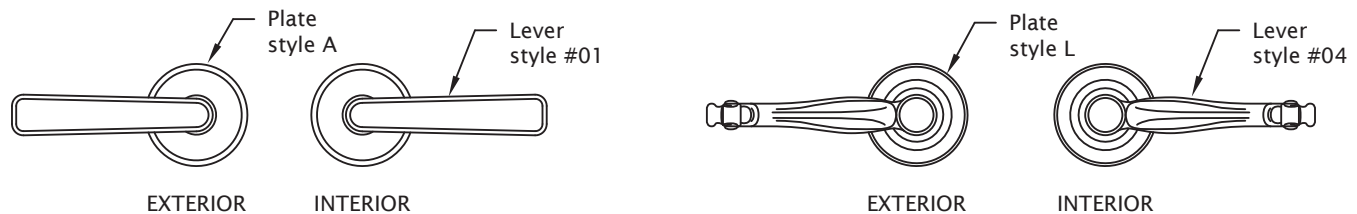
ENTRANCE FUNCTION



PATIO FUNCTION



PASSAGE FUNCTION FULL DUMMY FUNCTION



Details are 1/4 scale.

ENTRANCE FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

Plate style C

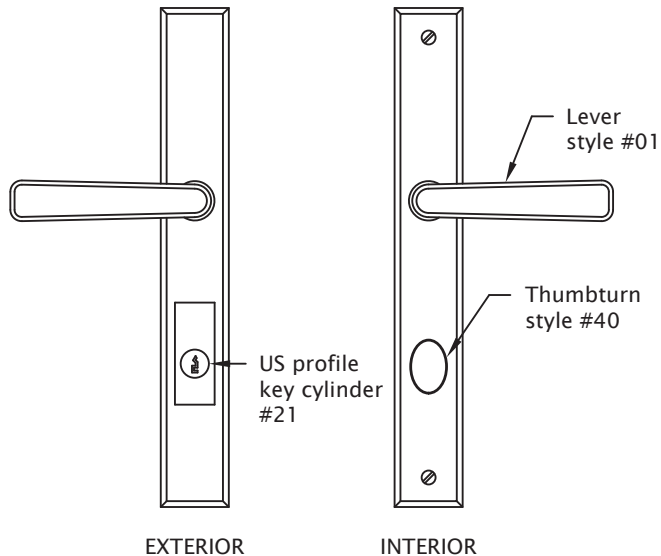


Plate style J

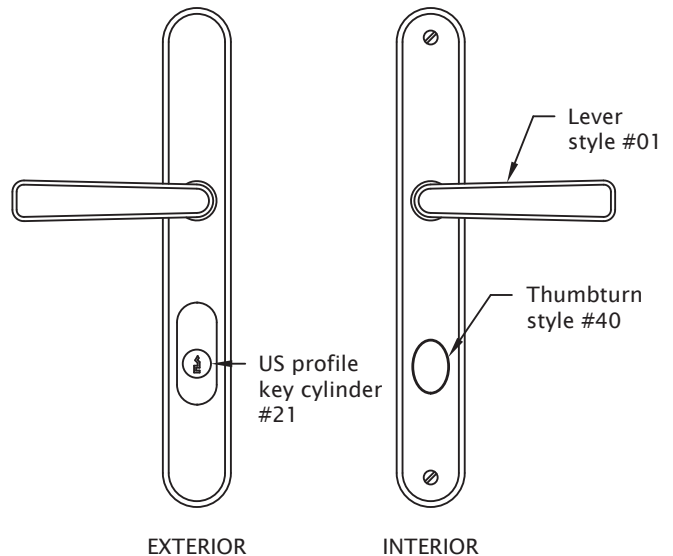


Plate style F

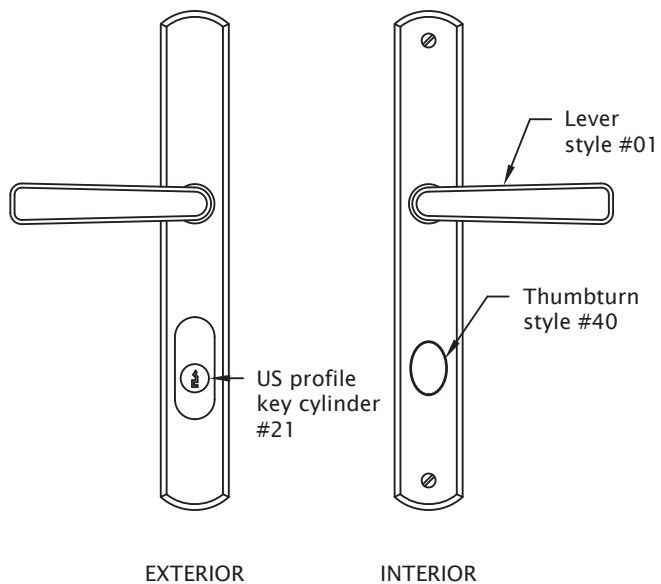
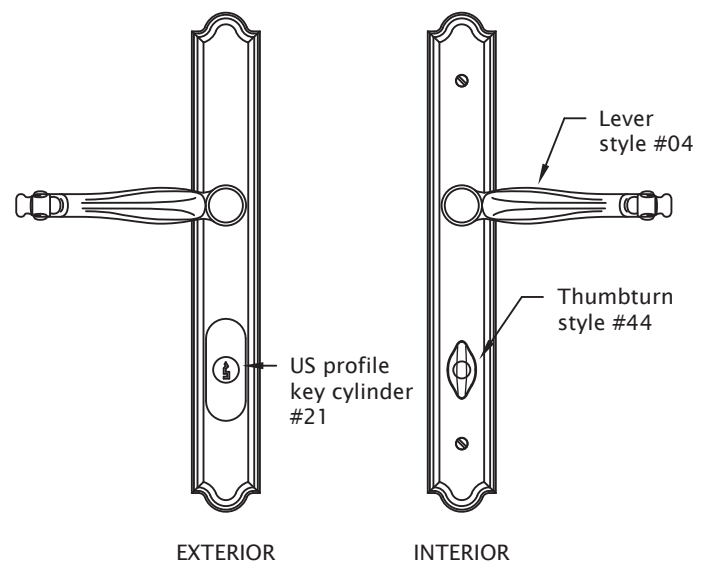


Plate style N



Details are 1/4 scale.

PATIO FUNCTION TRIM
Escutcheon size - 1-1/2" x 11"

Plate style C

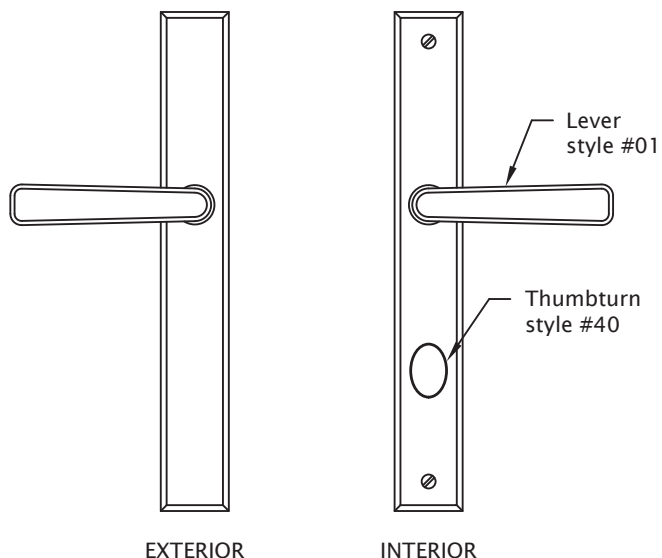


Plate style J

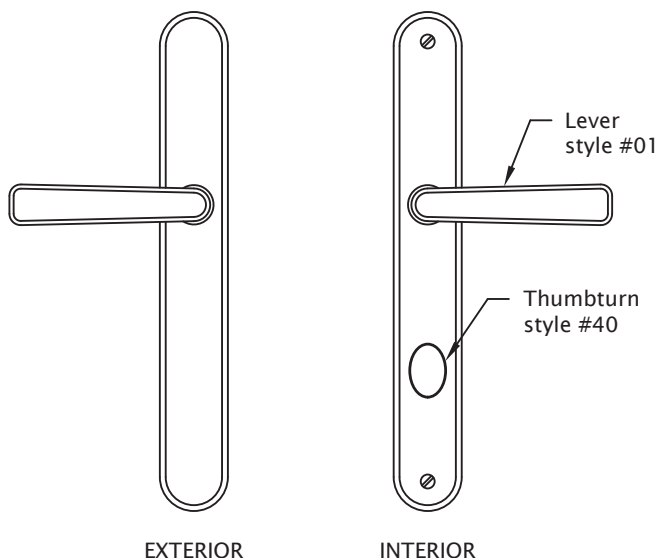


Plate style F

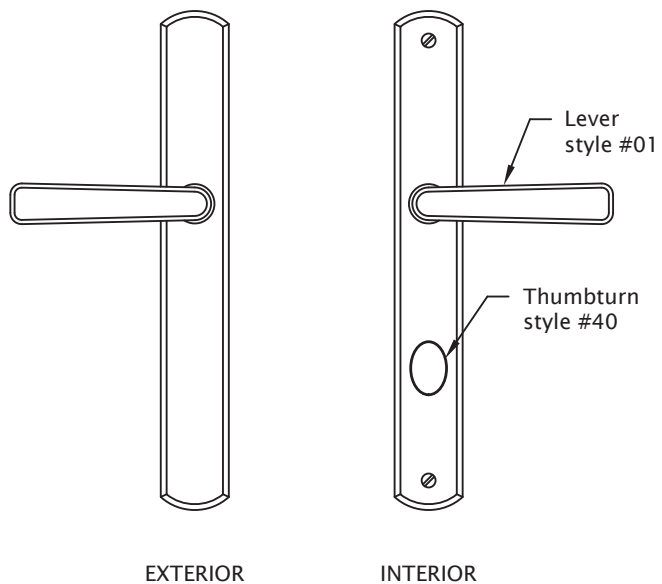
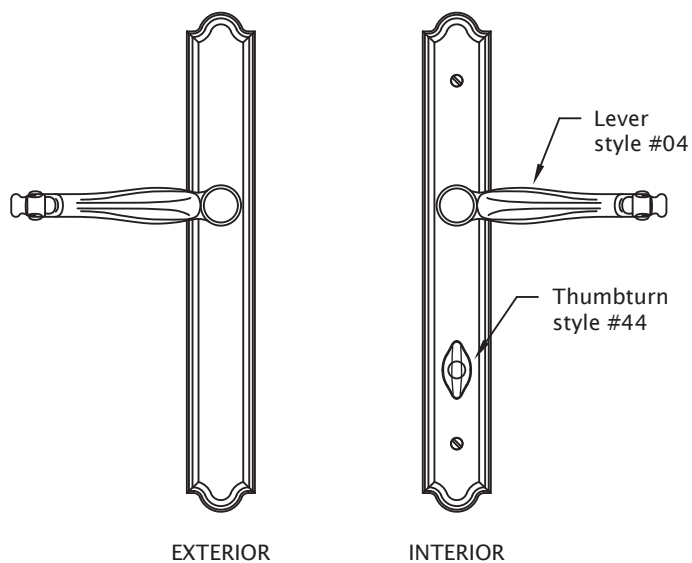


Plate style N



Details are 1/4 scale.

PASSAGE or FULL DUMMY FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

Plate style C

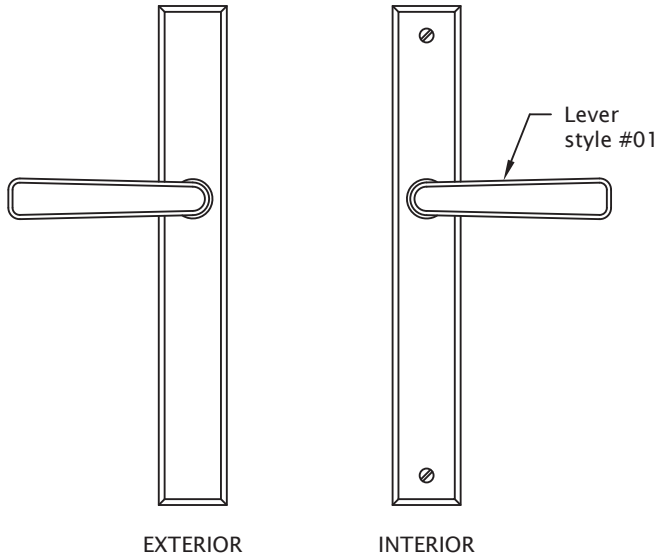


Plate style J

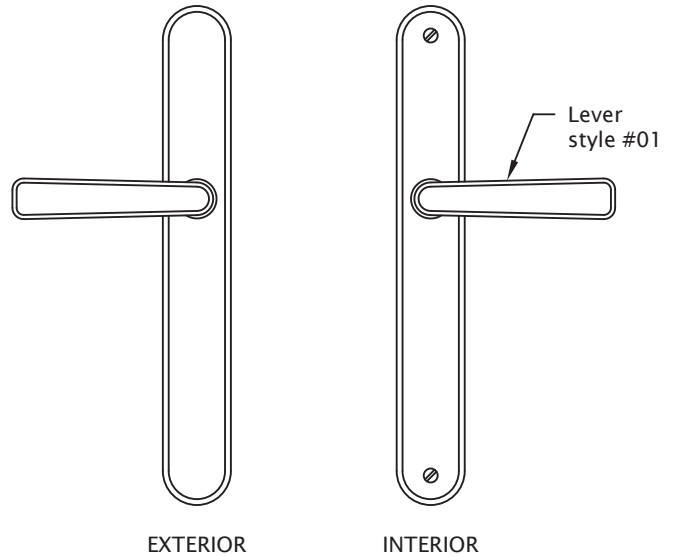


Plate style F

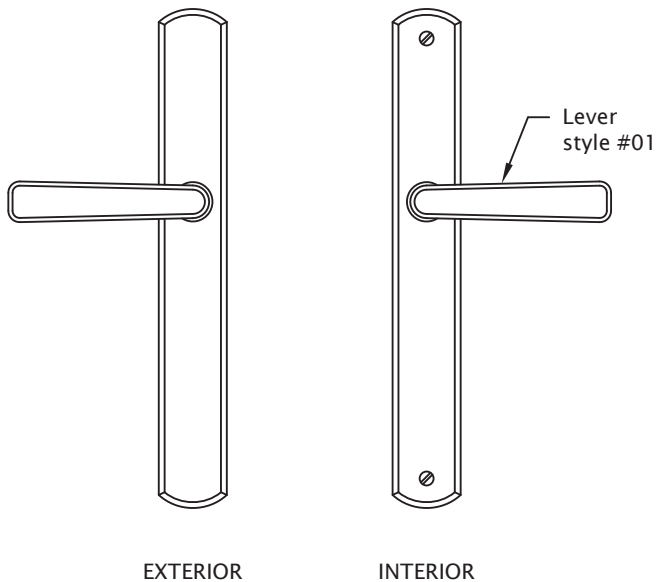
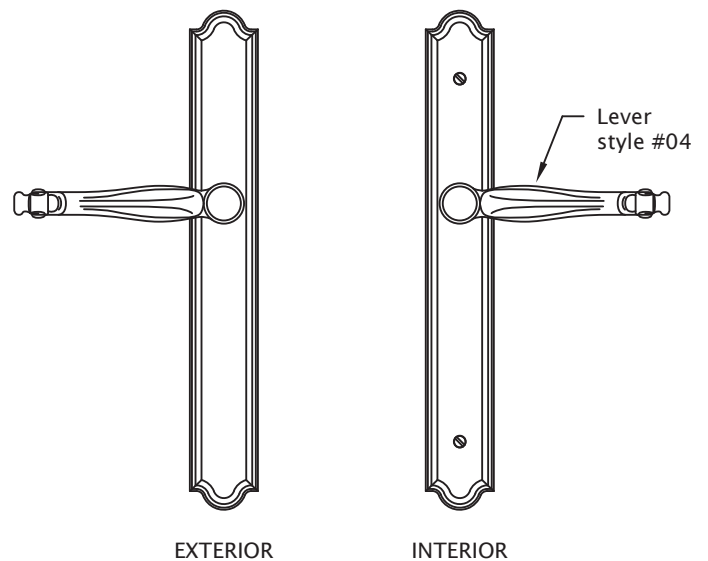
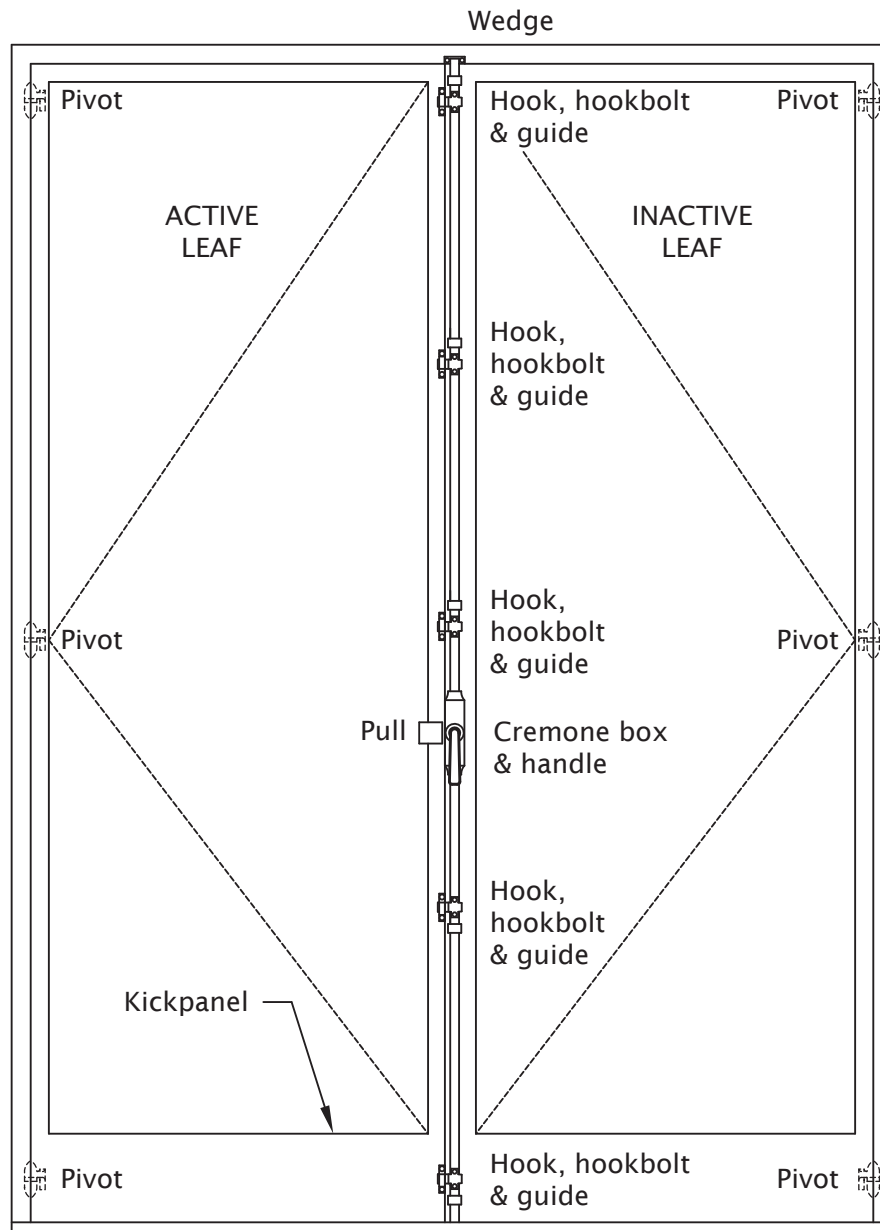


Plate style N



Additional functions available upon request.

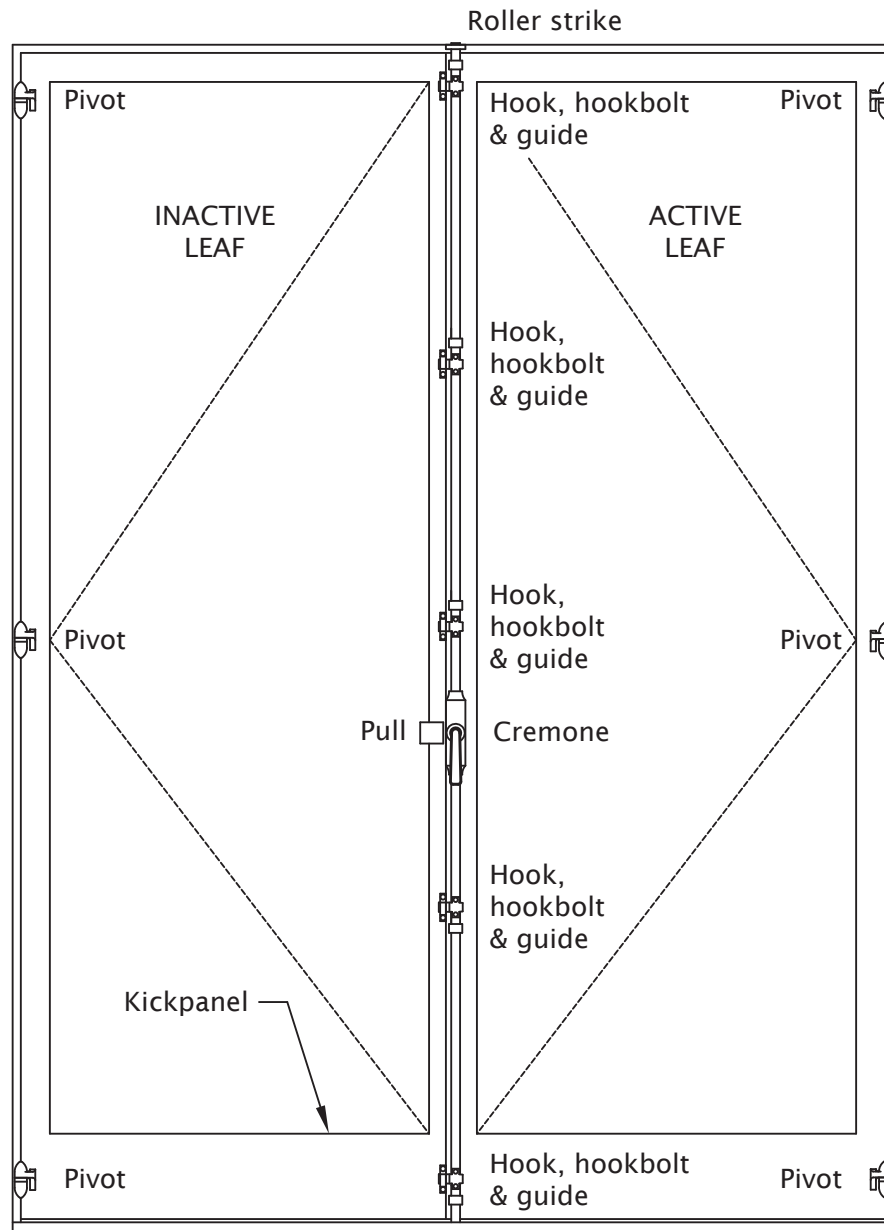
Details are 1/4 scale.



SWING-OUT DOOR

Optional concealed top & bottom bolts
on inactive leaf also available

Elevations are viewed from the interior. Elevations are not to scale.



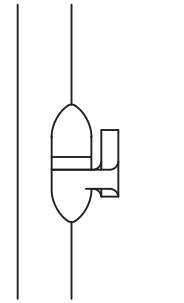
SWING-IN DOOR

Optional concealed top & bottom bolts
on inactive leaf also available

Elevations are viewed from the interior. Elevations are not to scale.

PIVOT

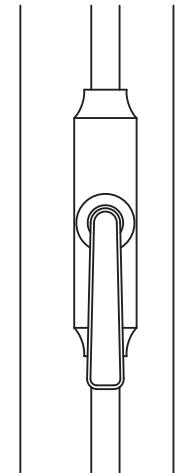
- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)



#237 PIVOT

CREMONE

- #52-160 box and lever
 - Interior operation only
 - No handle on the exterior
 - Lever styles #01 and #04
- Cremone features:
 - True French-style function where operating the cremone handle releases both leaves to open at once
 - Optional top and bottom bolts allow inactive leaf to remain bolted while active leaf permits passage
 - No lockbox required



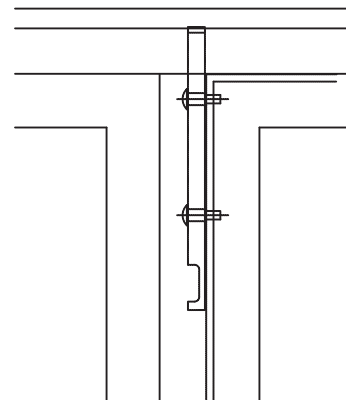
INTERIOR
VIEW

Lever
style #01

TOP & BOTTOM BOLTS

(Optional)

- #19-156M1 (concealed)
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations



#19-156M1
(concealed)
INTERIOR VIEW

Details are 1/4 scale.

CREMONE LEVER STYLES

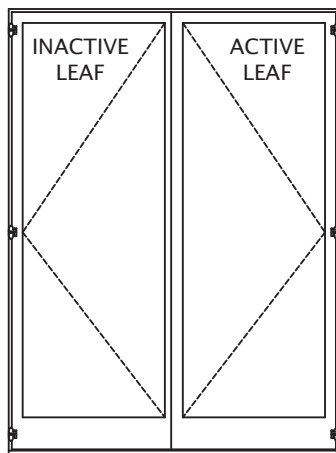


Lever
style #01

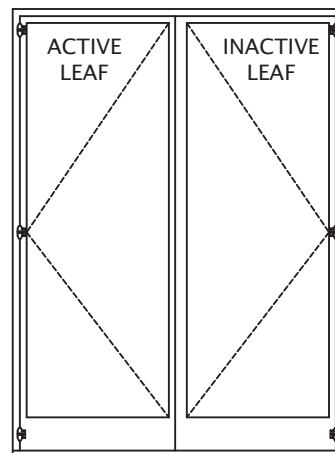


Lever
style #04

EXTERIOR ELEVATIONS

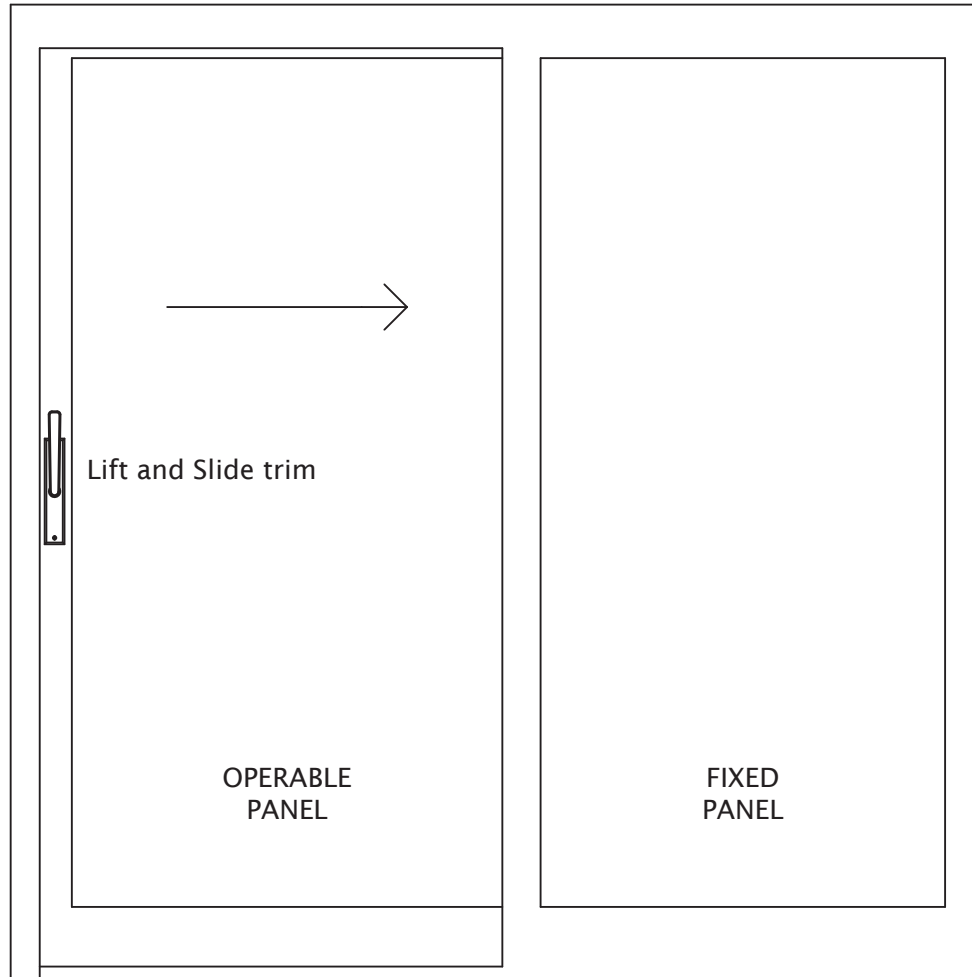


SWING-OUT DOOR
Only the pivots are visible on the exterior



SWING-IN DOOR
No visible hardware on the exterior

Details are 1/4 scale.
Elevations are viewed from the exterior. Elevations are not to scale.



Elevations are viewed from the interior. Elevations are not to scale.

ENTRANCE FUNCTION TRIM

Escutcheon size - 2-1/2" x 11"

Plate style D

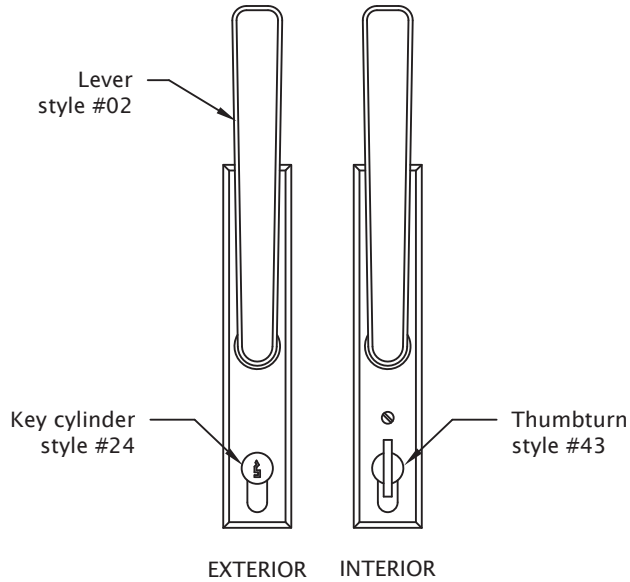


Plate style K

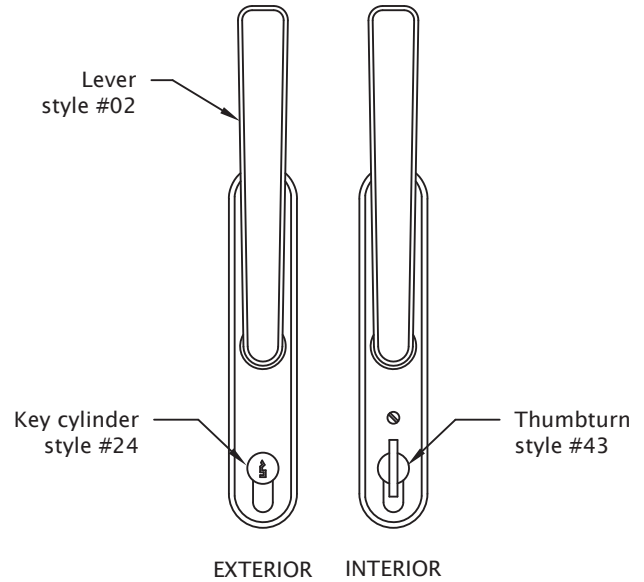


Plate style G

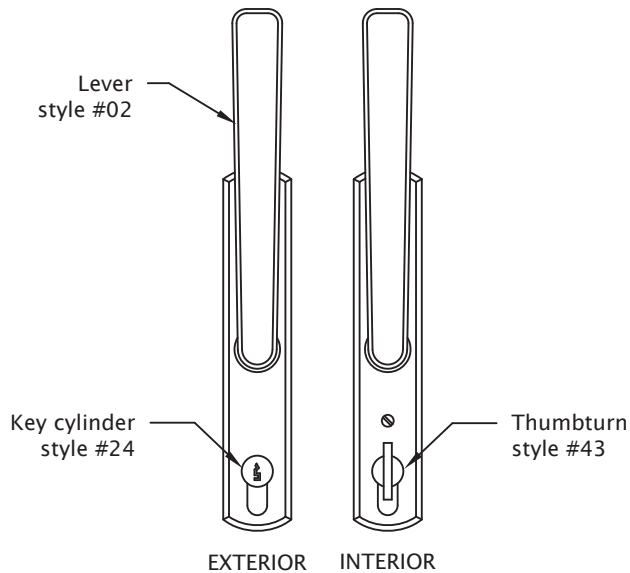
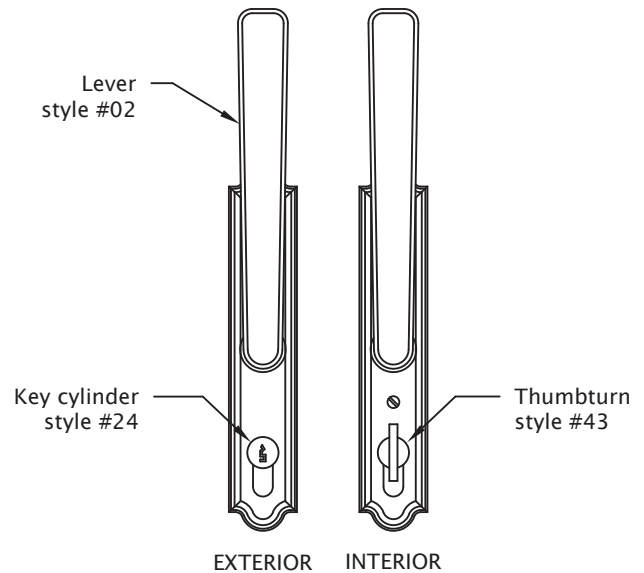


Plate style P



Details are 1/4 scale.

PATIO FUNCTION TRIM
Escutcheon size - 2-1/2" x 11"

Plate style D

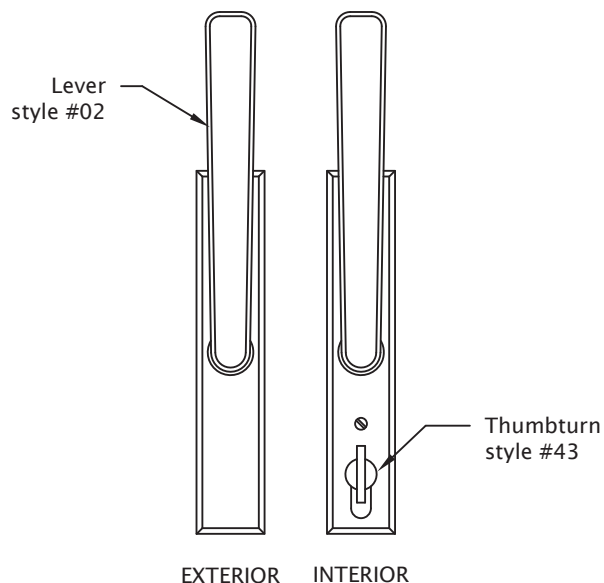


Plate style K

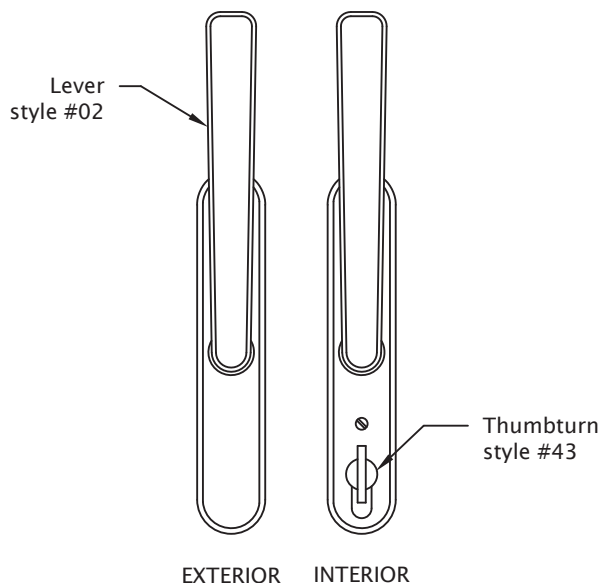


Plate style G

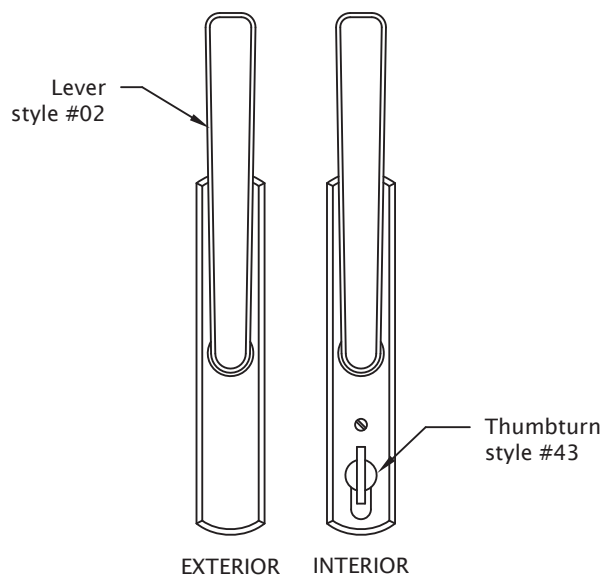
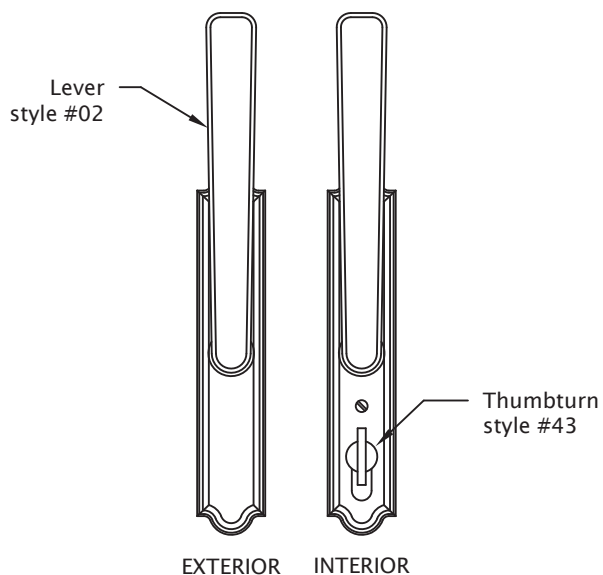


Plate style P



Details are 1/4 scale.

PASSAGE or FULL DUMMY FUNCTION TRIM

Escutcheon size - 2-1/2" x 11"

Plate style D

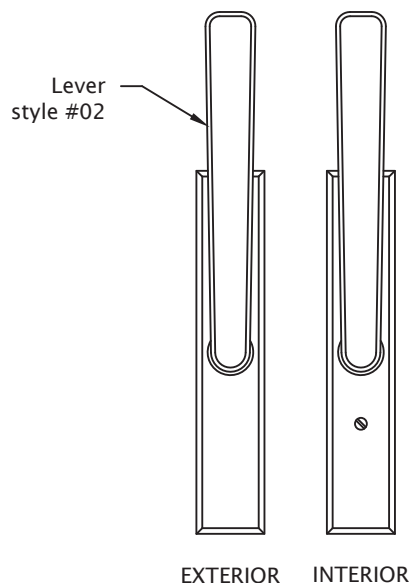


Plate style K

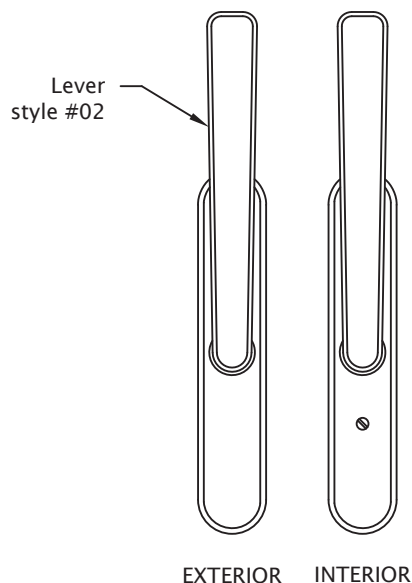


Plate style G

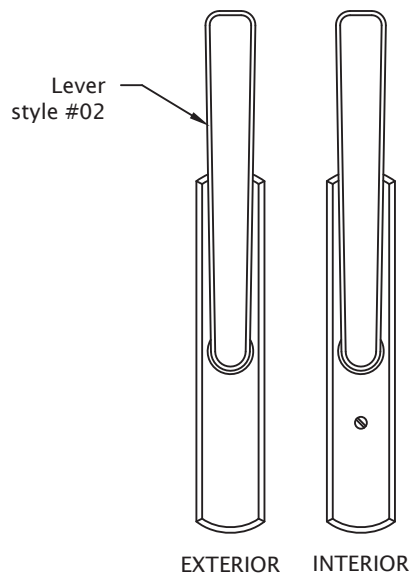
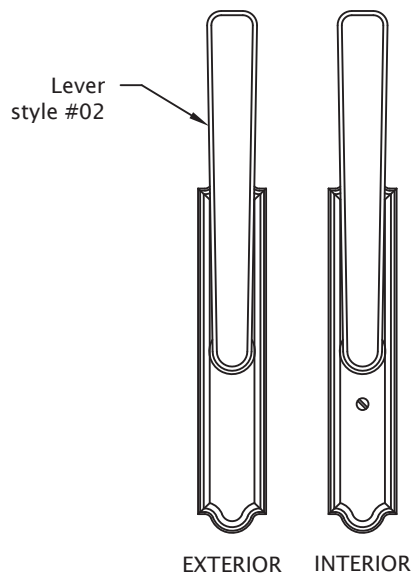
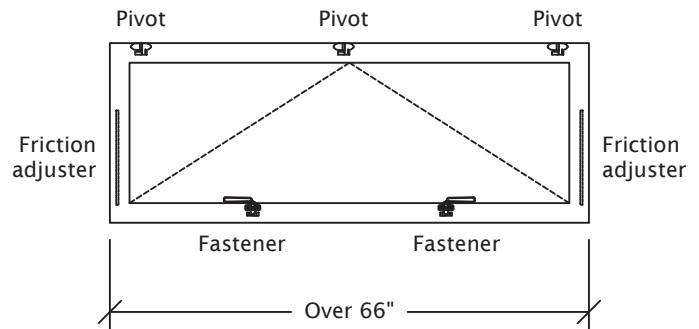
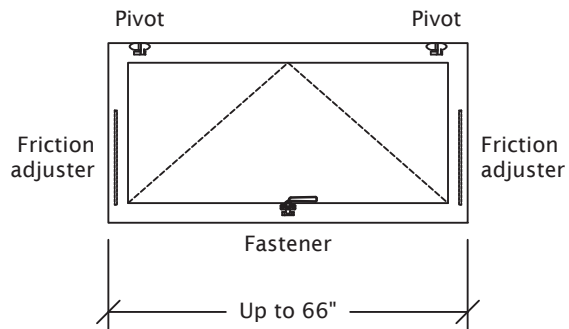


Plate style P

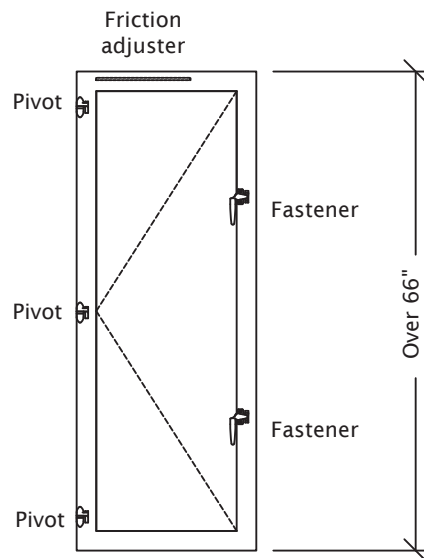
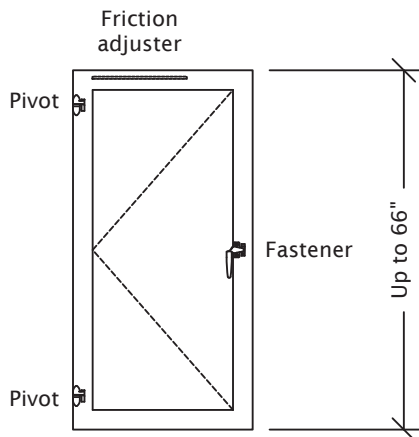


Details are 1/4 scale.

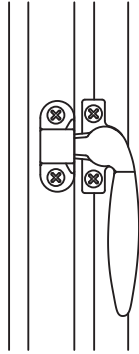
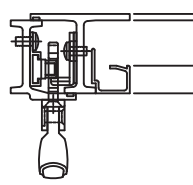
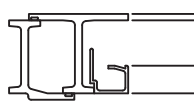
TOP HUNG-OUT



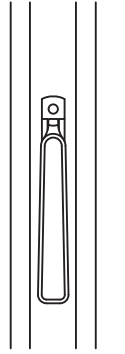
SIDE HUNG-OUT



Elevations are for detail reference only. Elevations are not to scale.



Fastener
style #162



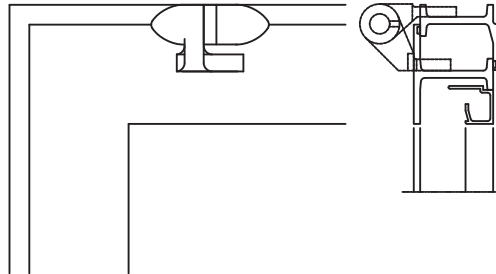
Fastener
style #101-A

The #162 fastener is
manufactured from
aluminum-bronze

Details are 1/4 scale.

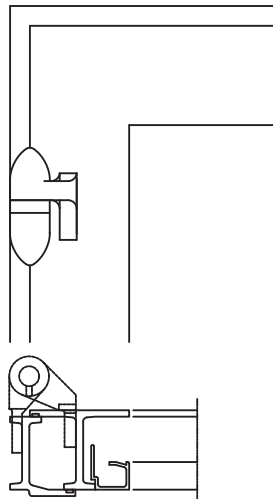
TOP HUNG-OUT

#237 PIVOT
Aluminum-bronze
Painted to match finish
Stainless steel pin



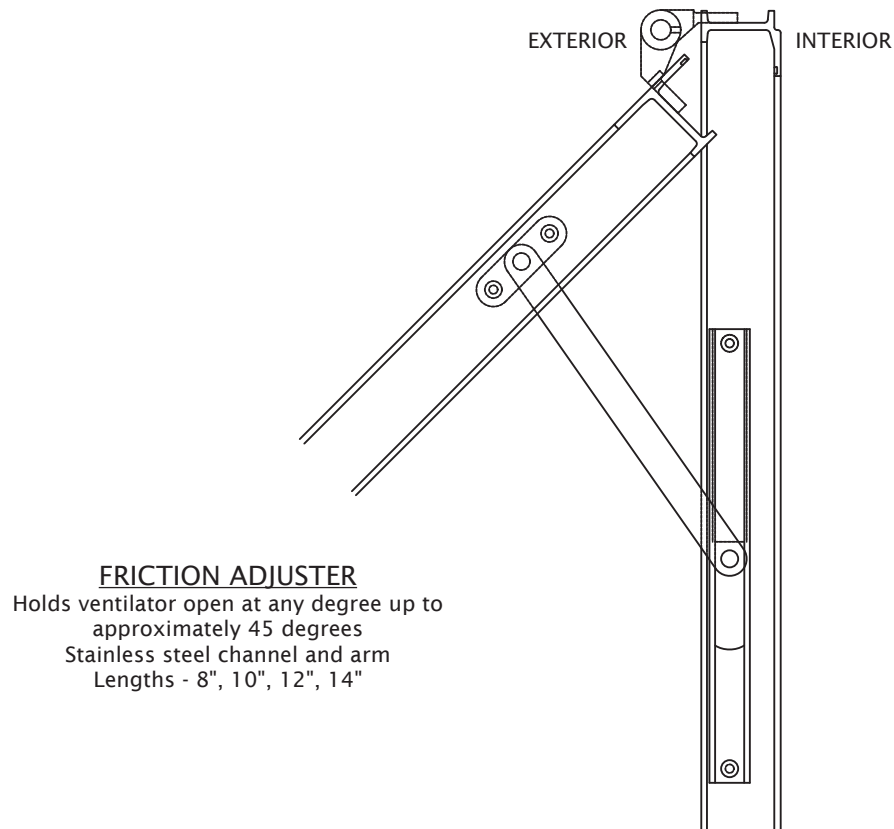
SIDE HUNG-OUT

#237 PIVOT
Aluminum-bronze
Painted to match finish
Stainless steel pin



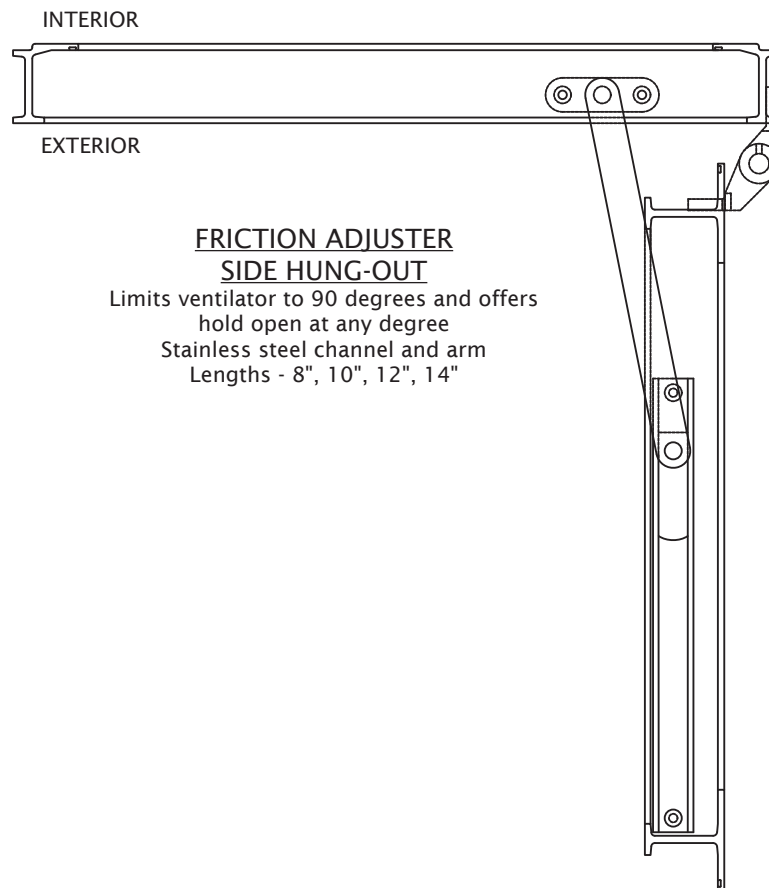
Details are 1/4 scale.

TOP HUNG-OUT

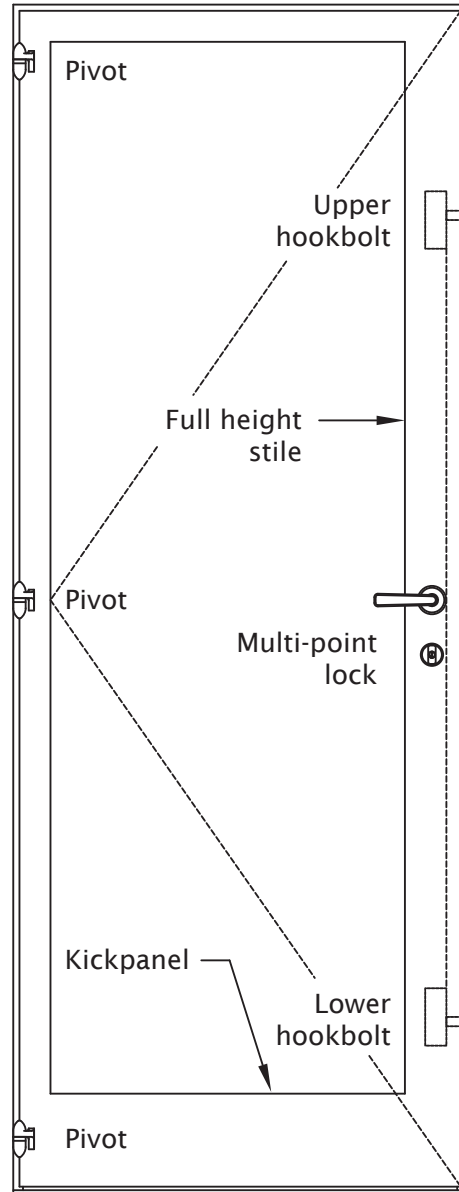


Details are 1/4 scale.

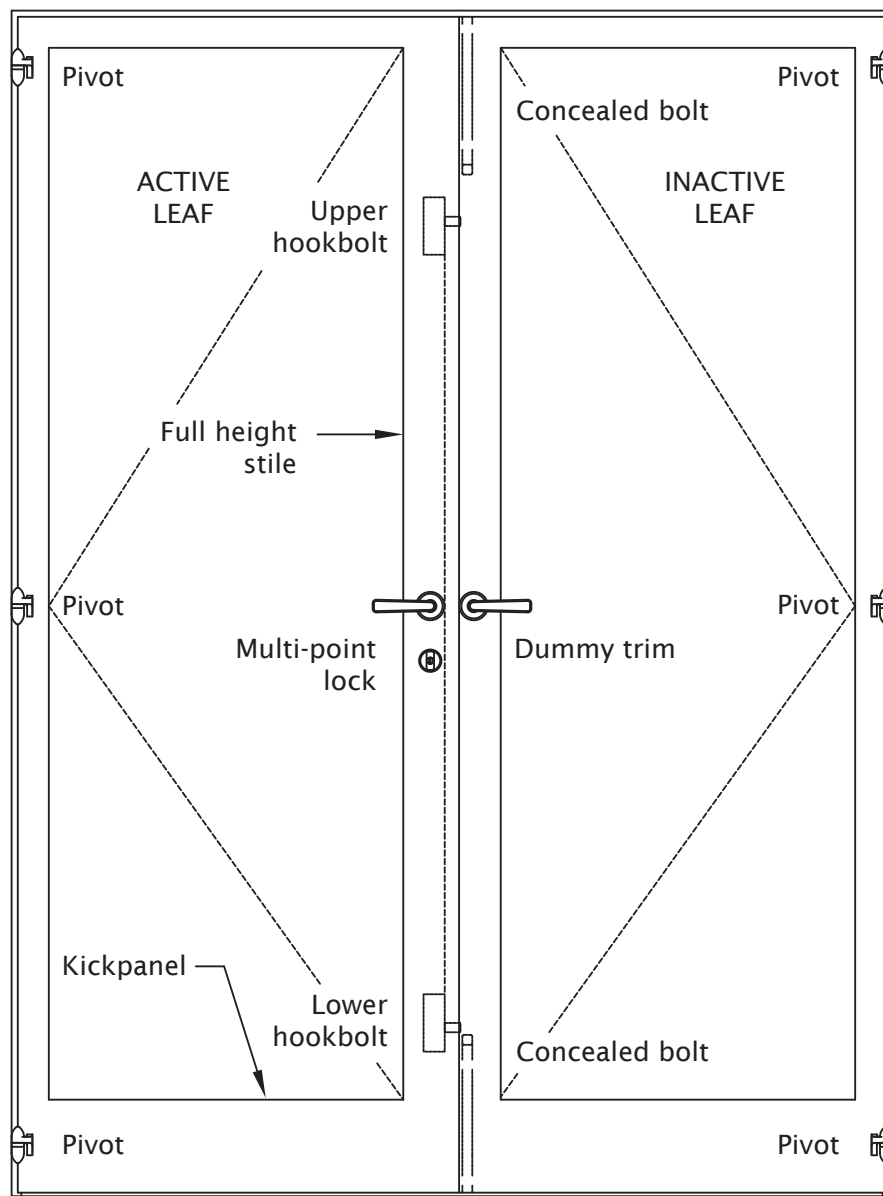
SIDE HUNG-OUT



Details are 1/4 scale.



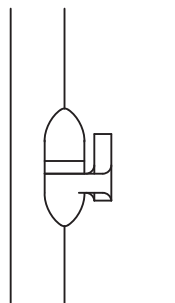
Elevations are for detail reference only. Elevations are not to scale.



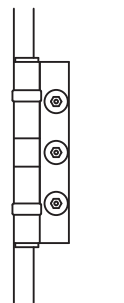
Elevations are for detail reference only. Elevations are not to scale.

PIVOT/HINGE

- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)
- #1000HD
Heavy duty 5-knuckle ball-bearing hinge screw attached to door and frame with tamper resistant screws — The #1000HD hinge is generally used in extreme size or traffic situations — consult Hope's



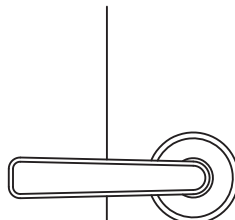
#237 PIVOT



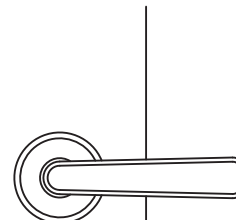
#1000HD

MULTI-POINT LOCK

- Entrance function including:
 - Lever handles (exterior & interior)
 - Escutcheon plates (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- Additional multi-point lock features:
 - Added security and performance with multi-point hookbolt type latching
 - Full height stile
 - Handle above key cylinder
 - Required for hurricane impact approved doors
 - Rose and escutcheon trim choices



EXTERIOR

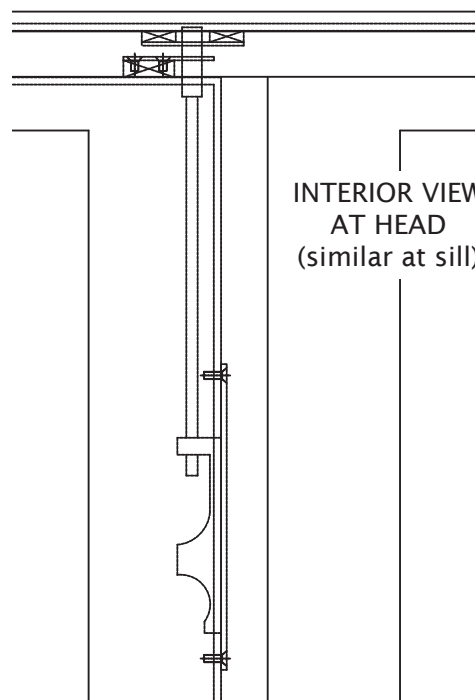
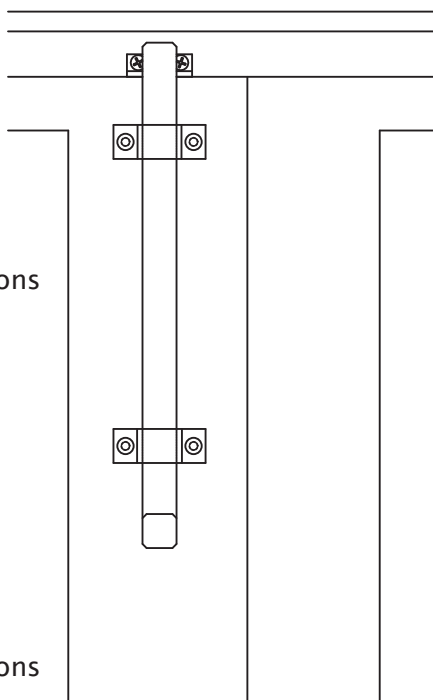


INTERIOR

TOP & BOTTOM BOLTS

(Double doors only)

- Exposed
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations

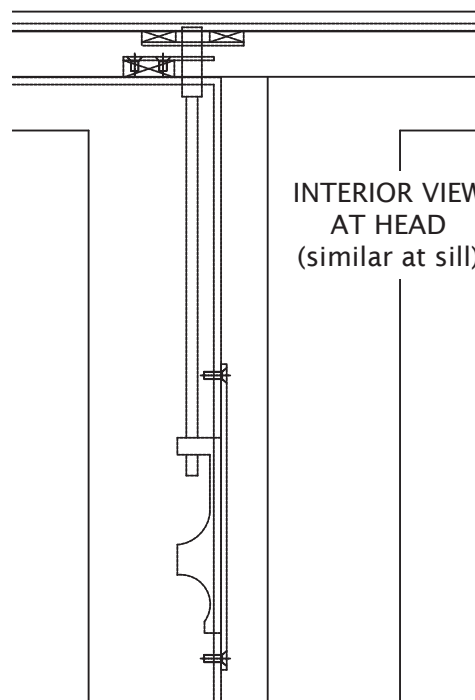
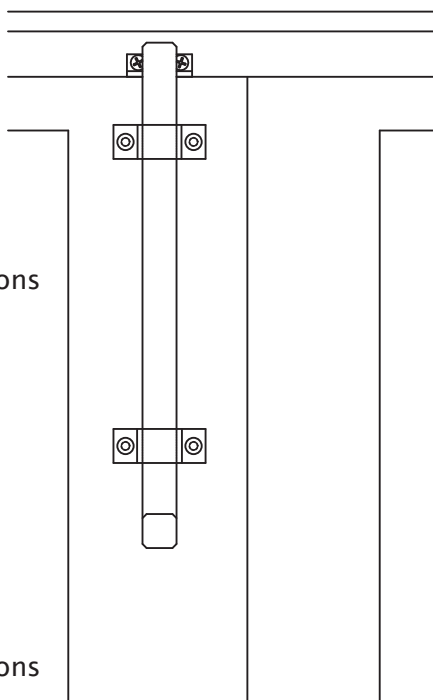


INTERIOR VIEW
AT HEAD
(similar at sill)

FLUSH BOLTS

(Double doors only)

- Concealed
- Mounted on the inactive leaf
- 12" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations



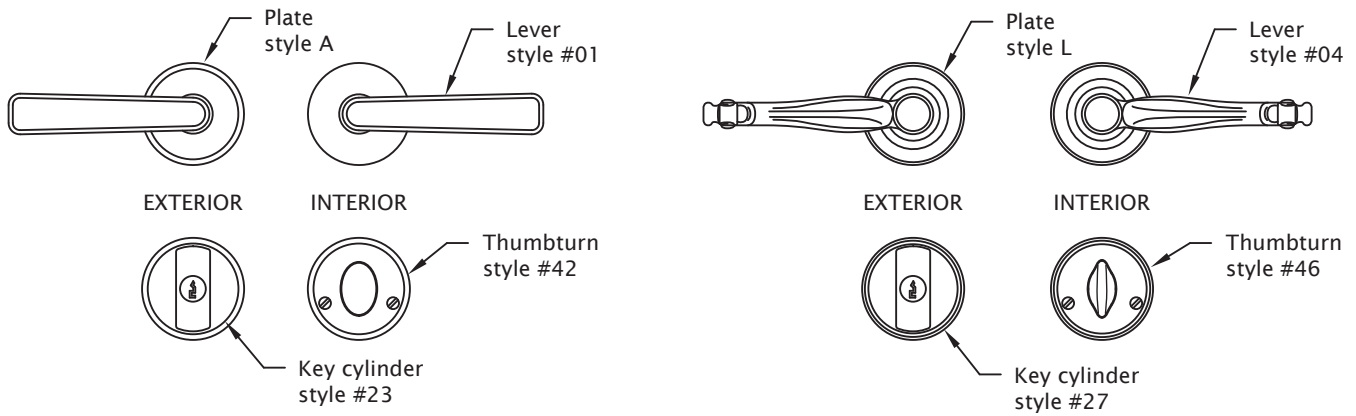
AVAILABLE FINISHES

- Consult Hope's

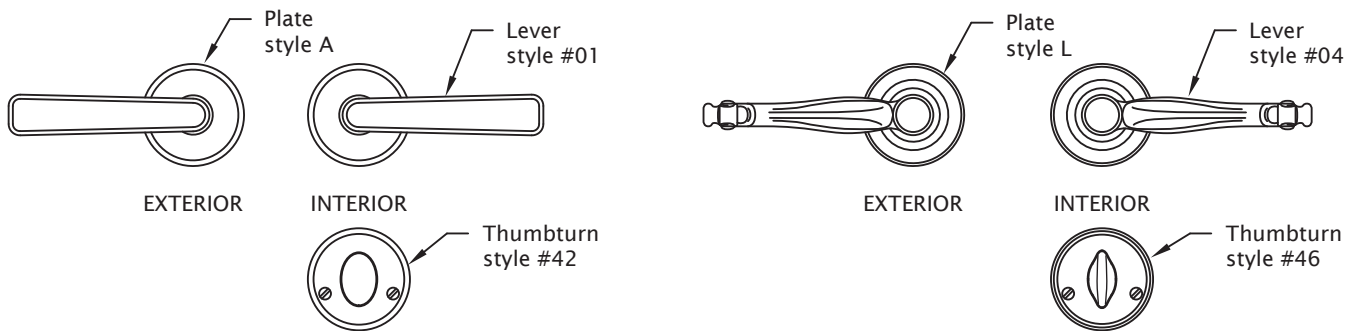
Details are 1/4 scale.

ROSE TRIM Rose size - 2-1/4"

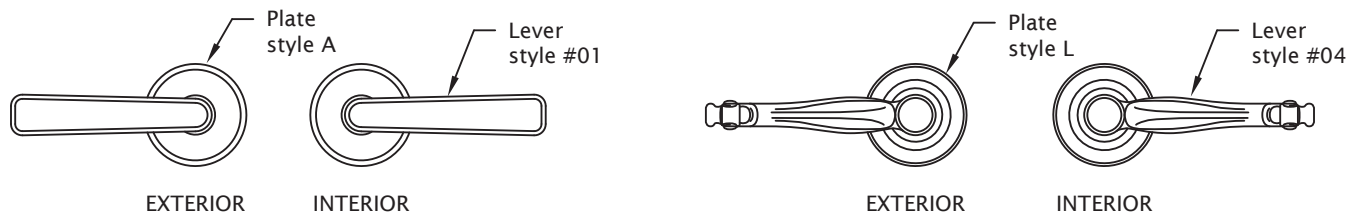
ENTRANCE FUNCTION



PATIO FUNCTION



PASSAGE FUNCTION FULL DUMMY FUNCTION



Details are 1/4 scale.

ENTRANCE FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

Plate style C

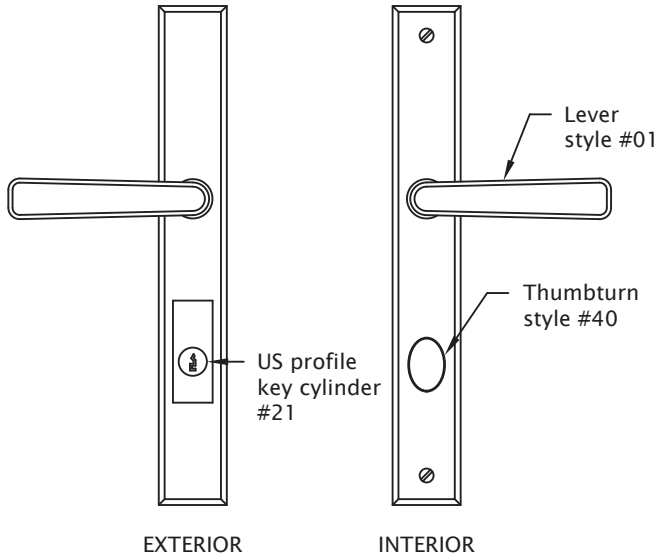


Plate style J

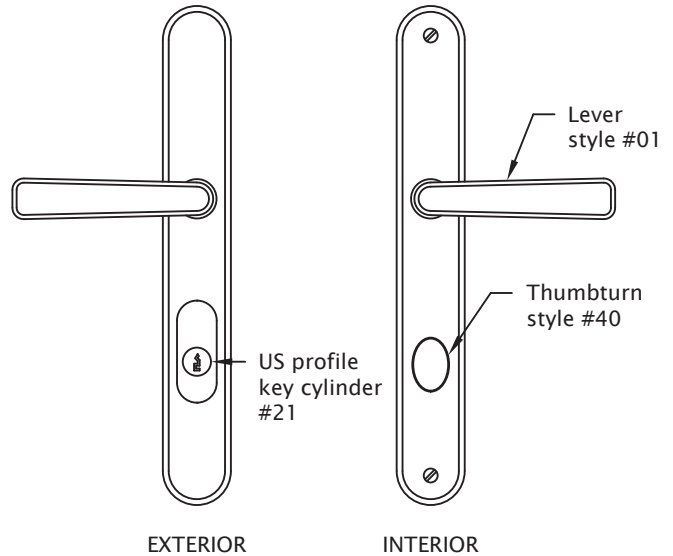


Plate style F

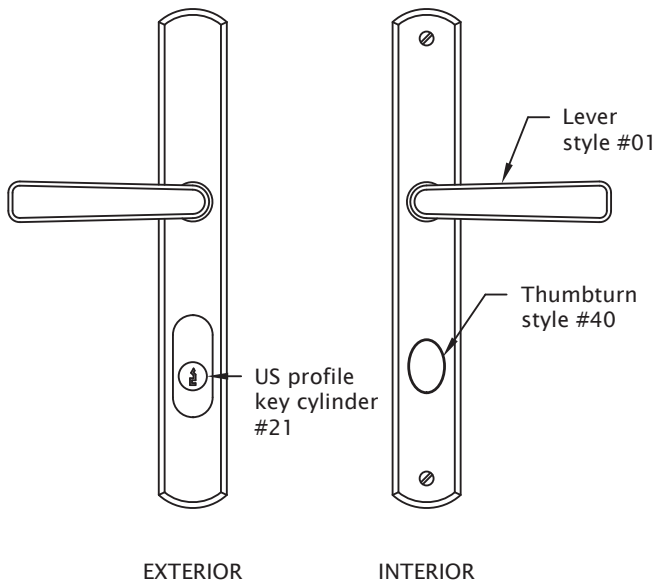
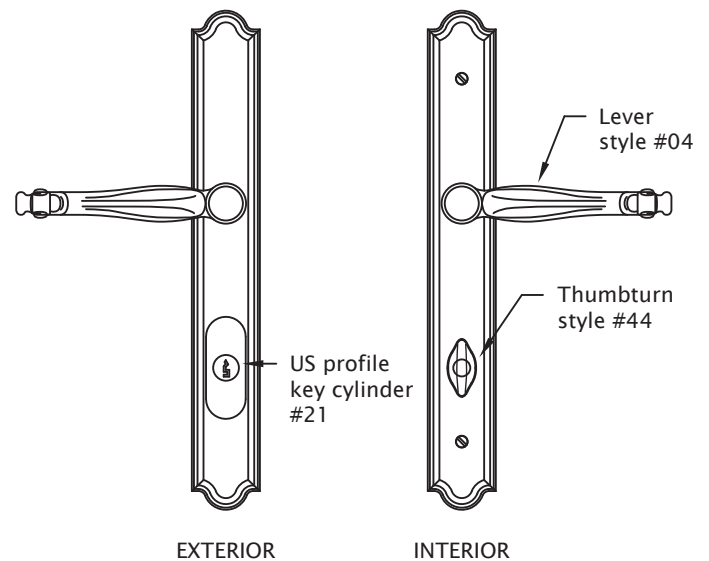


Plate style N



Details are 1/4 scale.

PATIO FUNCTION TRIM
Escutcheon size - 1-1/2" x 11"

Plate style C

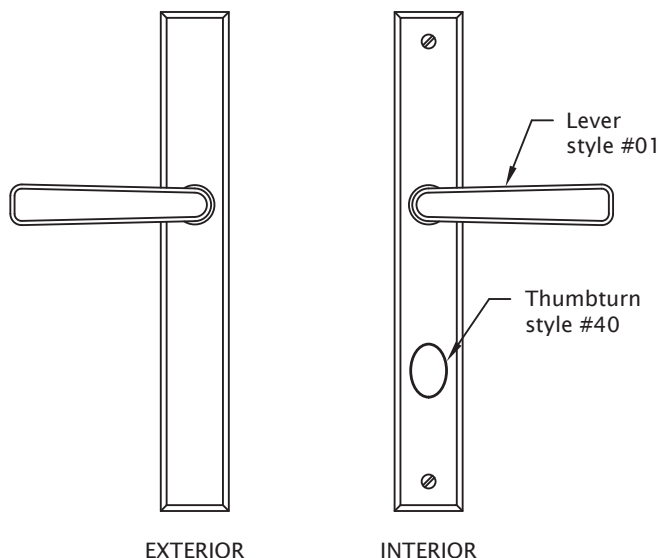


Plate style J

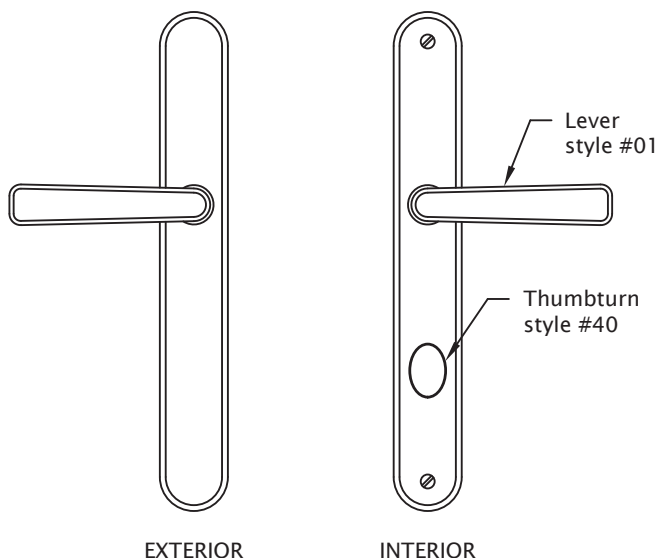


Plate style F

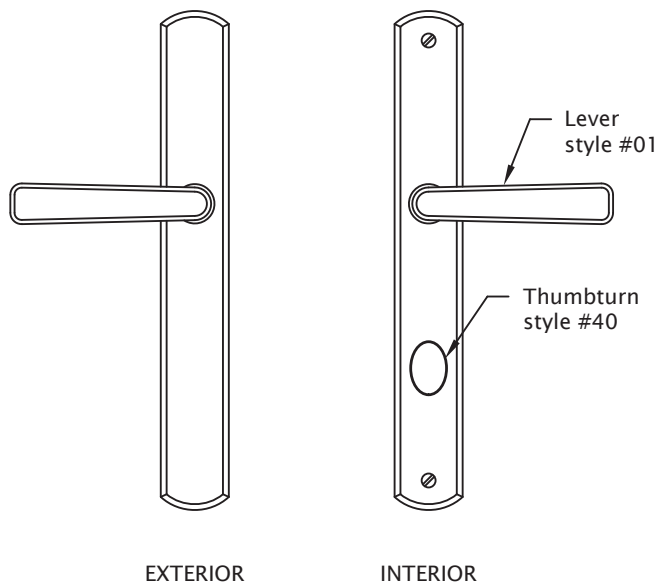
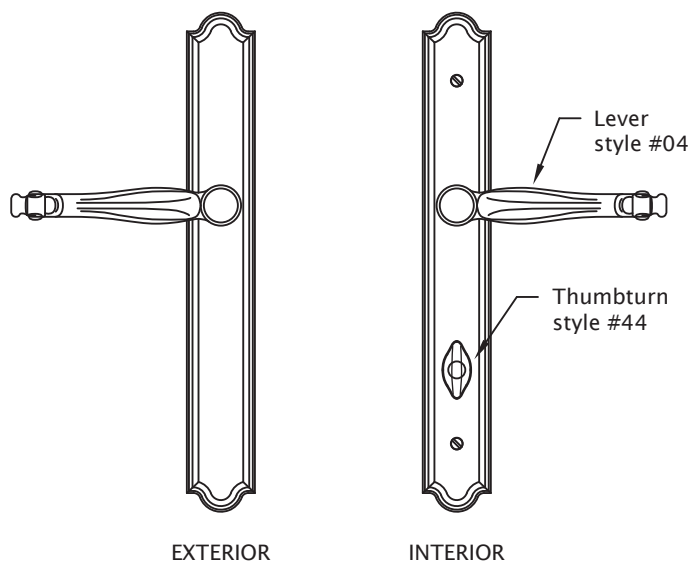


Plate style N



Details are 1/4 scale.

PASSAGE or FULL DUMMY FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

Plate style C

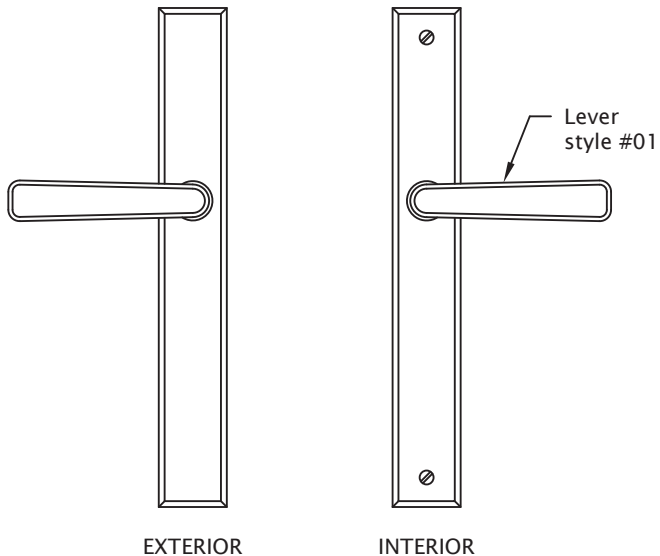


Plate style J

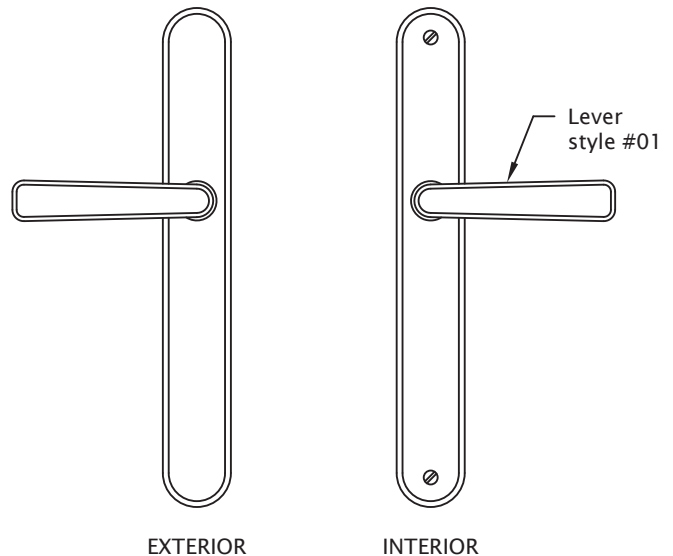


Plate style F

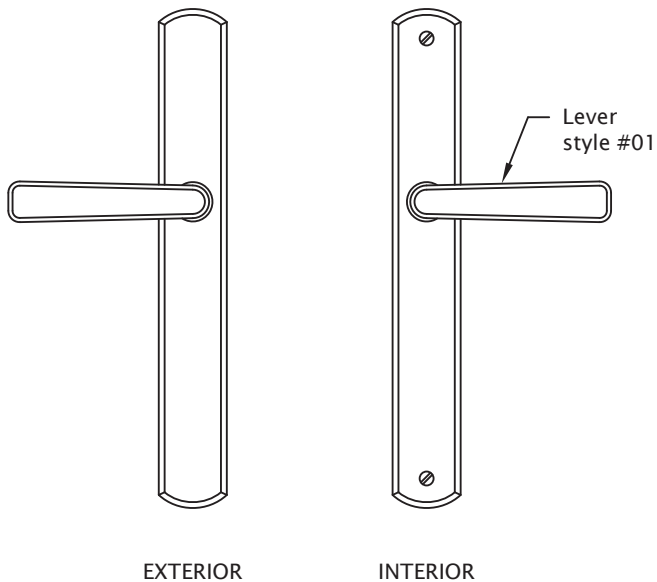
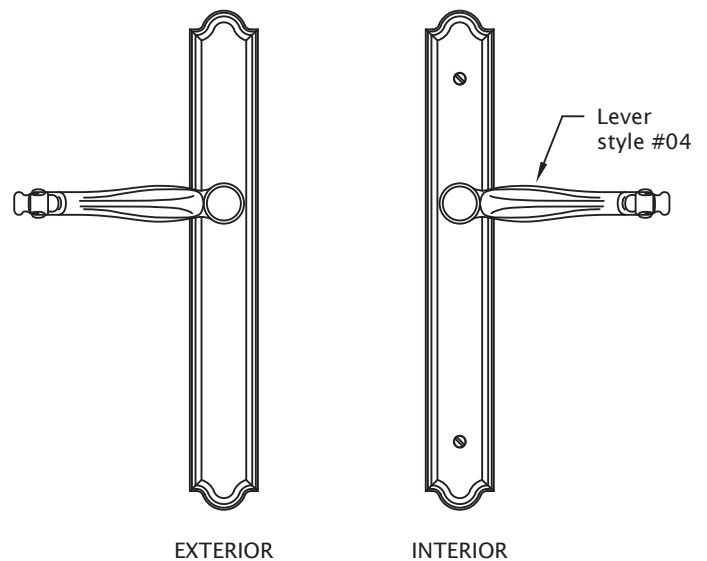


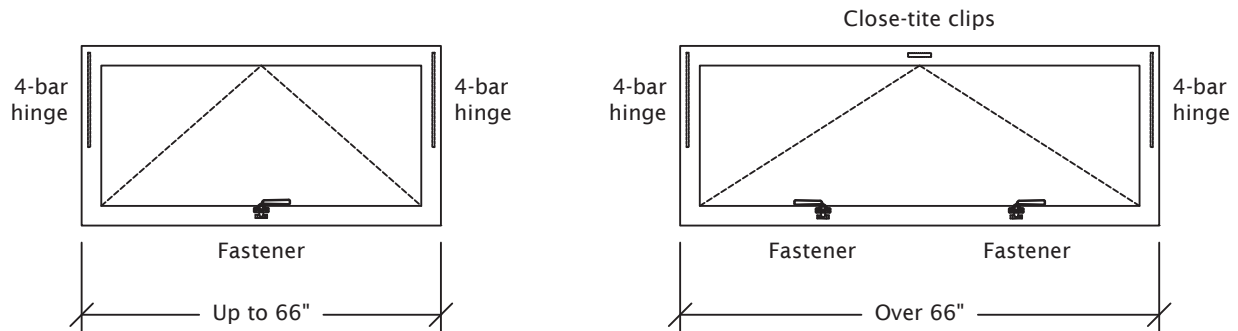
Plate style N



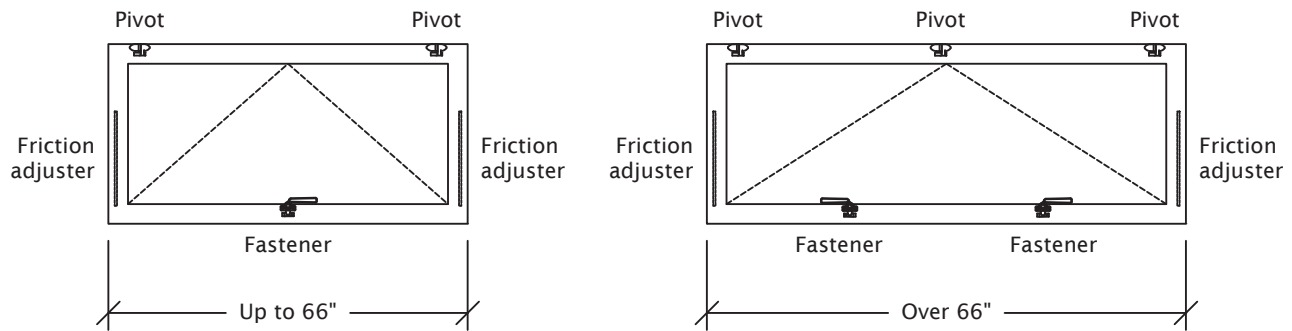
Additional functions available upon request.

Details are 1/4 scale.

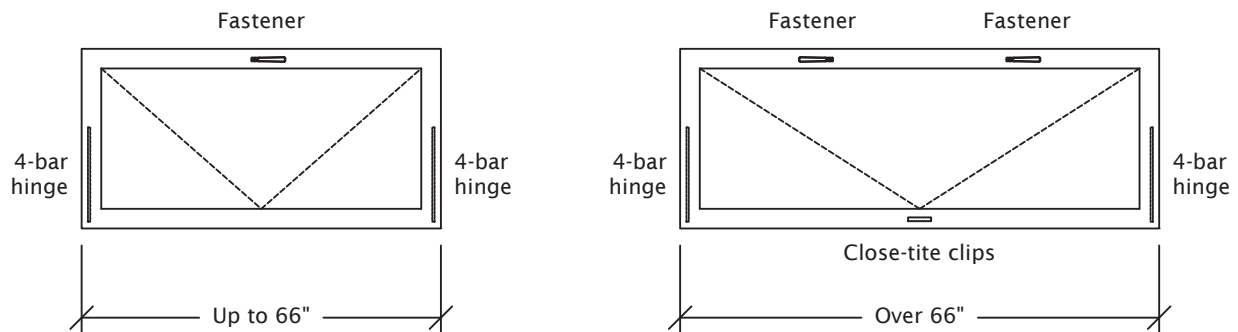
PROJECT-OUT



TOP HUNG-OUT



PROJECT-IN

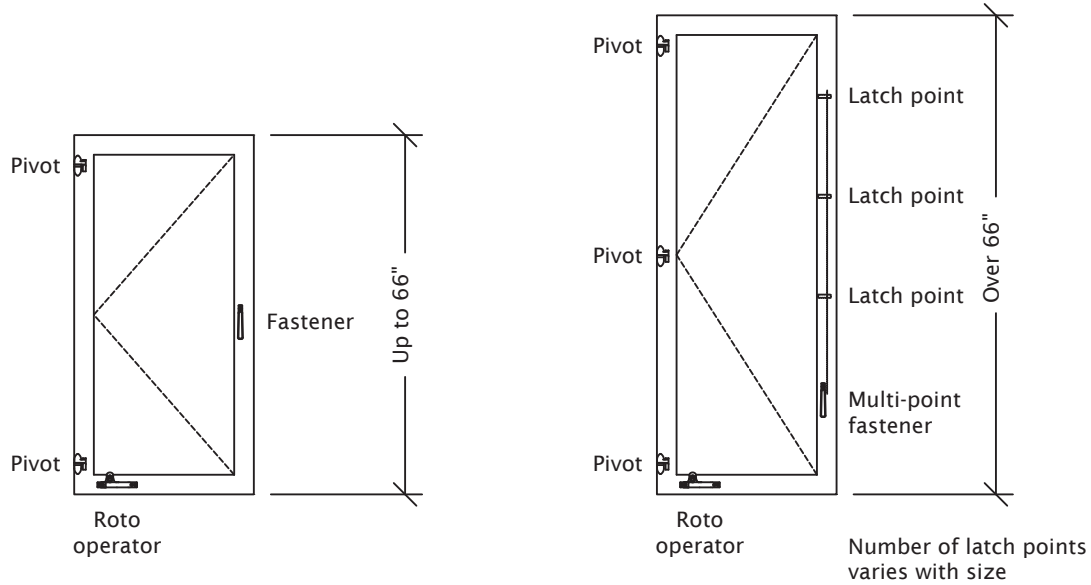


OPTIONAL HARDWARE FOR PROJECT-OUT AND TOP HUNG-OUT VENTILATORS

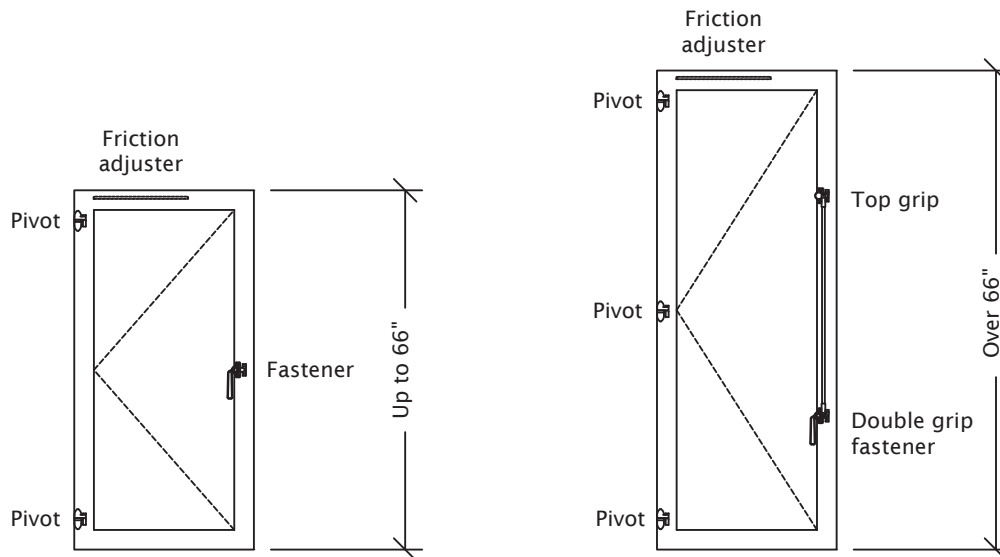
- Remote operators
- Life safety devices
- Dual arm roto operator
- Under screen push bar

Elevations are viewed from the interior. Elevations are not to scale.

SIDE HUNG-OUT (ROTO OPERATED)



SIDE HUNG-OUT (SIMPLEX OPERATED)

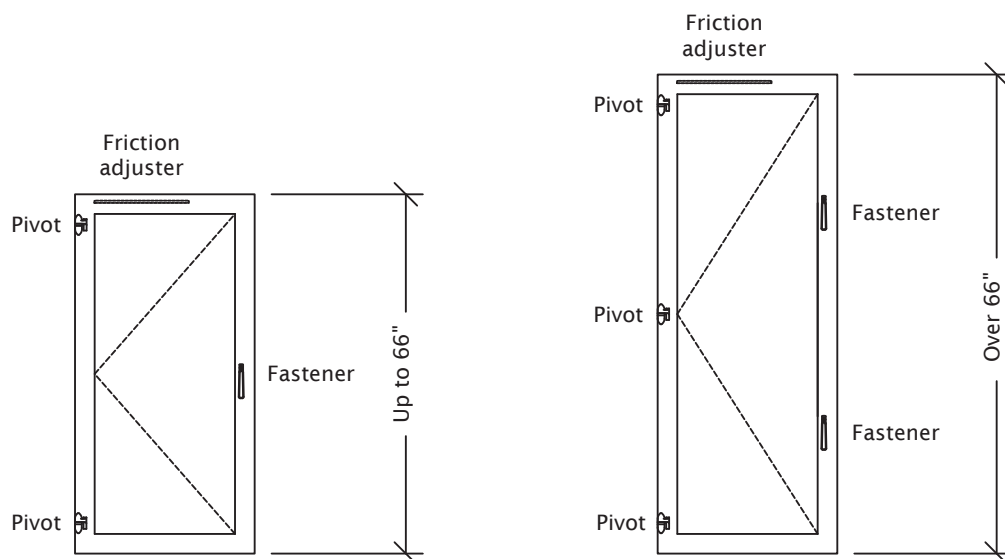


OPTIONAL HARDWARE FOR SILL OF SIMPLEX OPERATED SIDE HUNG-OUT VENTILATORS

- Double bar adjuster
- Life safety limit device

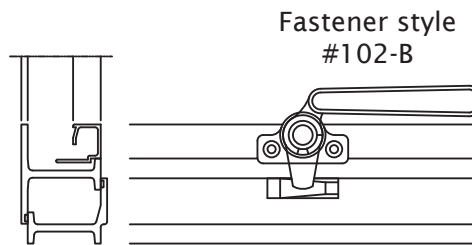
Elevations are viewed from the interior. Elevations are not to scale.

SIDE HUNG-IN

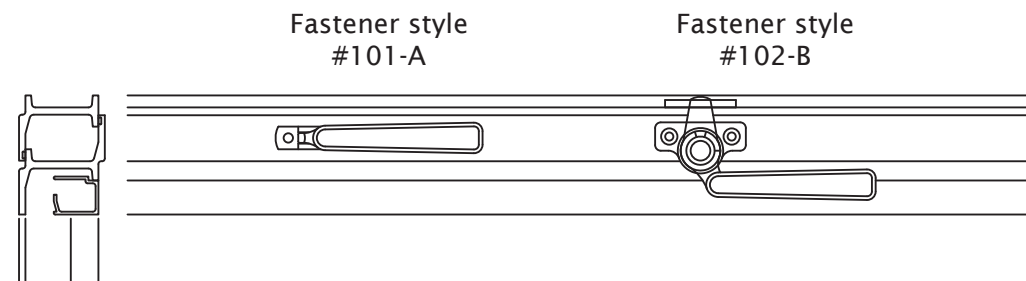


Elevations are viewed from the interior. Elevations are not to scale.

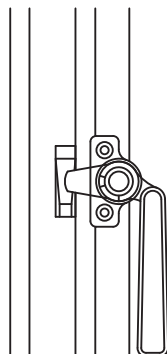
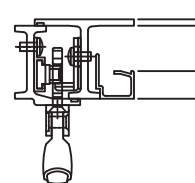
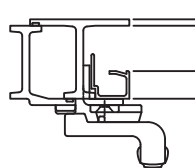
PROJECT-OUT, TOP HUNG-OUT or HORIZONTAL PIVOTED



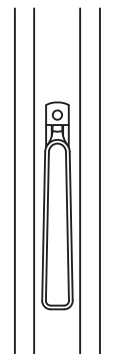
PROJECT-IN or HORIZONTAL PIVOTED



SIDE HUNG-OUT (SIMPLEX) or VERTICAL PIVOTED (OUT)



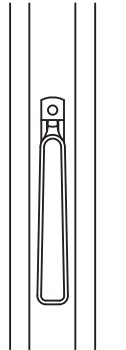
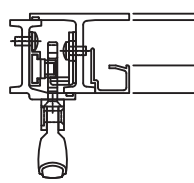
Fastener style
#102-B



Fastener style
#101-A

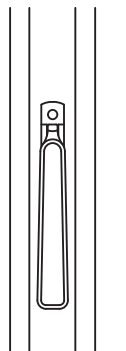
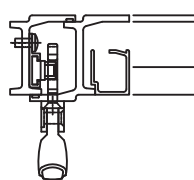
Details are 1/4 scale.

SIDE HUNG-OUT (ROTO) or VERTICAL PIVOTED (OUT)



Fastener style
#101-A

SIDE HUNG-IN or VERTICAL PIVOTED (IN)



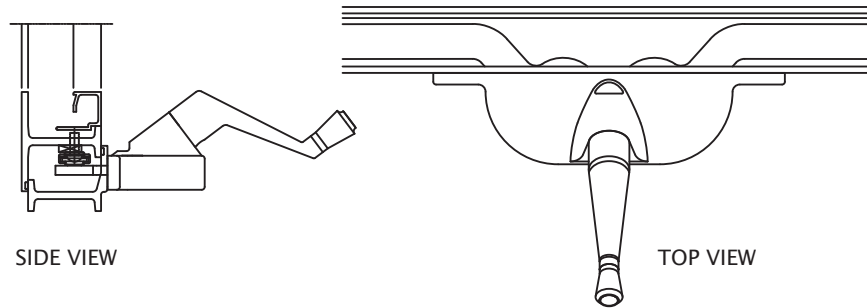
Fastener style
#101-A

Details are 1/4 scale.

PROJECT-OUT

#142 DUAL ARM ROTO OPERATOR

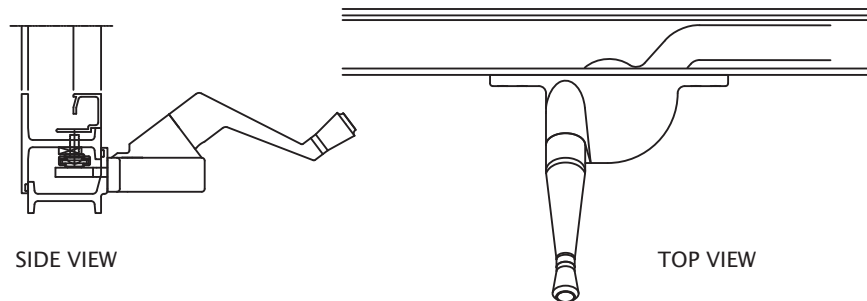
Solid brass housing and crank
Stainless steel arm
Stainless steel track



SIDE HUNG-OUT

#141 SINGLE ARM ROTO OPERATOR

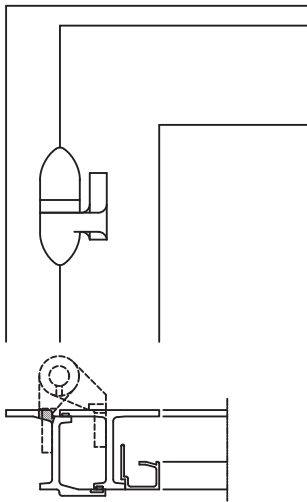
Solid brass housing and crank
Stainless steel arm
Stainless steel track



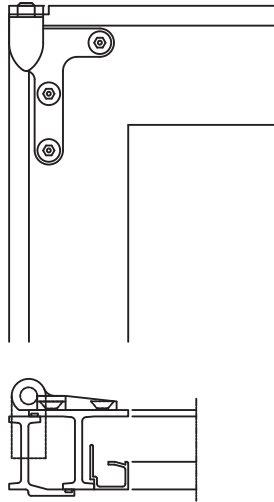
Details are 1/4 scale.

SIDE HUNG-OUT or IN

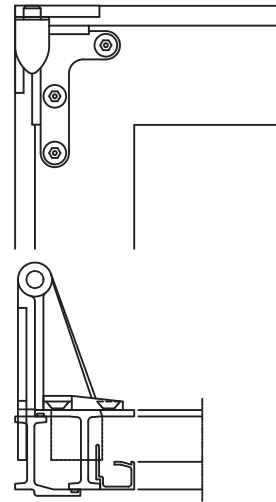
#237 PIVOT
Painted to match finish



#732 CORNER PIVOT
Aluminum-bronze and
stainless steel
Painted to match finish
Stainless steel pin

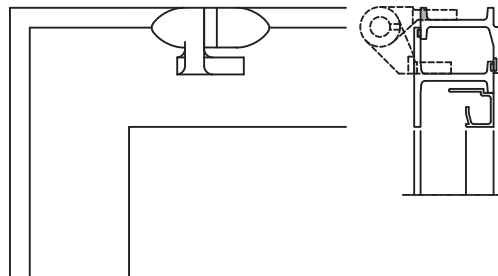


#734 CORNER EXTENSION PIVOT
Aluminum-bronze and
stainless steel
Painted to match finish
Stainless steel pin



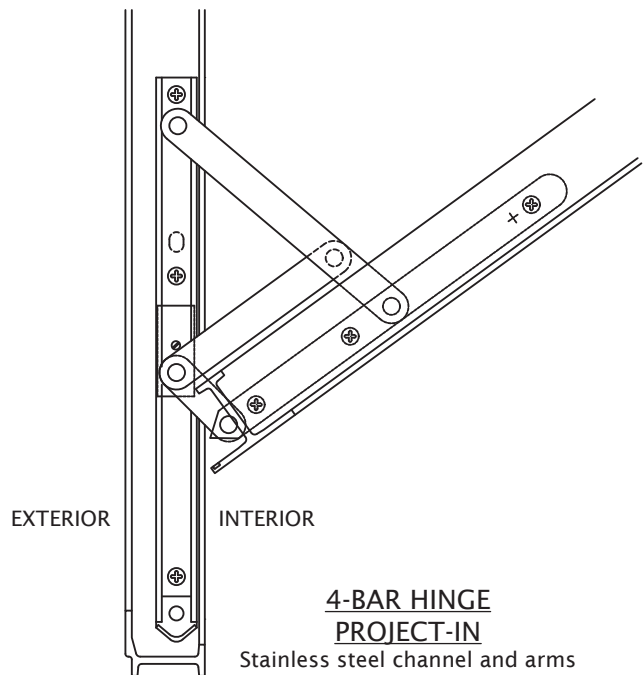
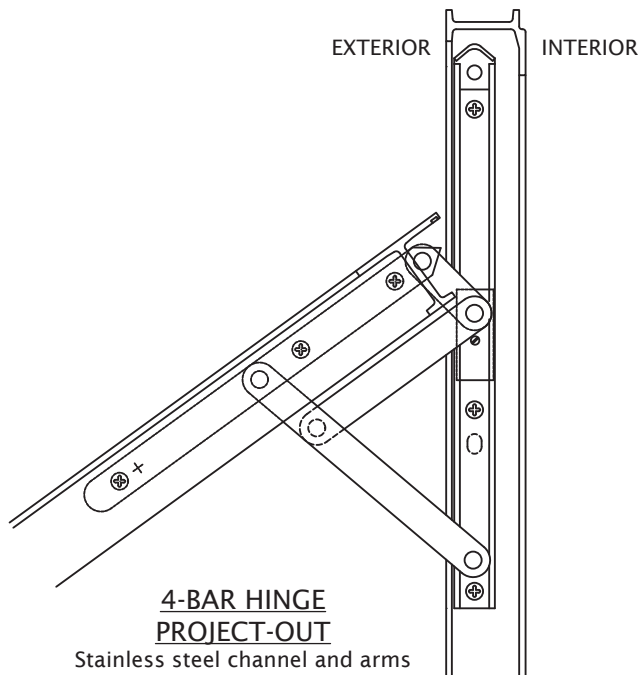
TOP HUNG-OUT

#237 PIVOT
Painted to match finish

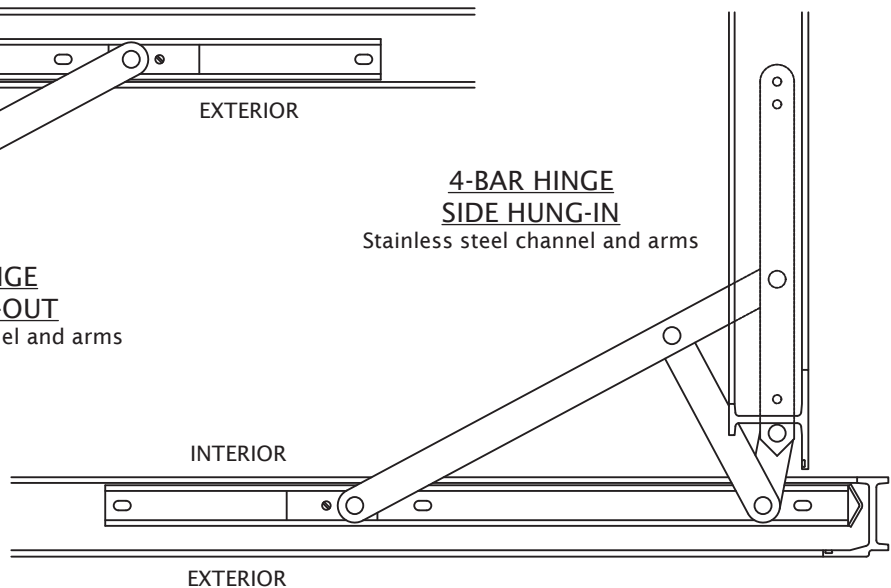
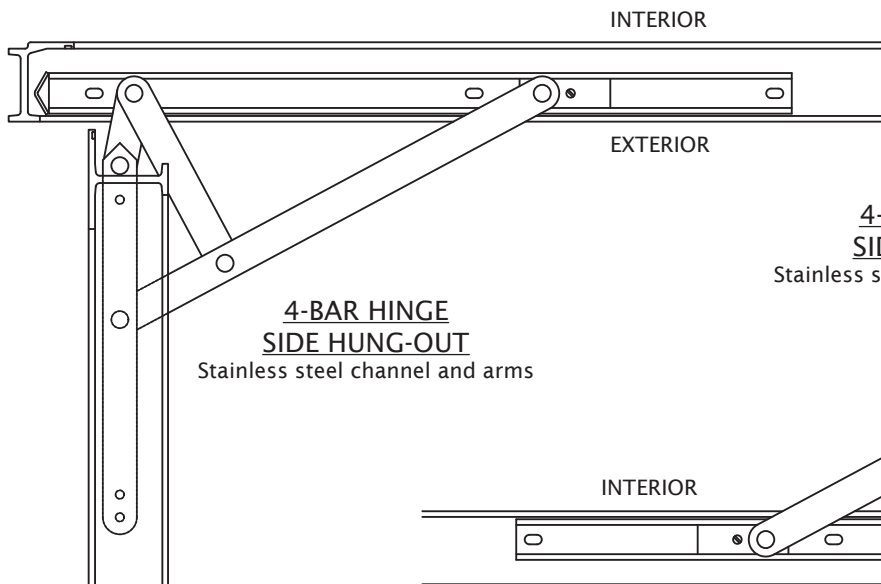


Details are 1/4 scale.

PROJECT-OUT or IN

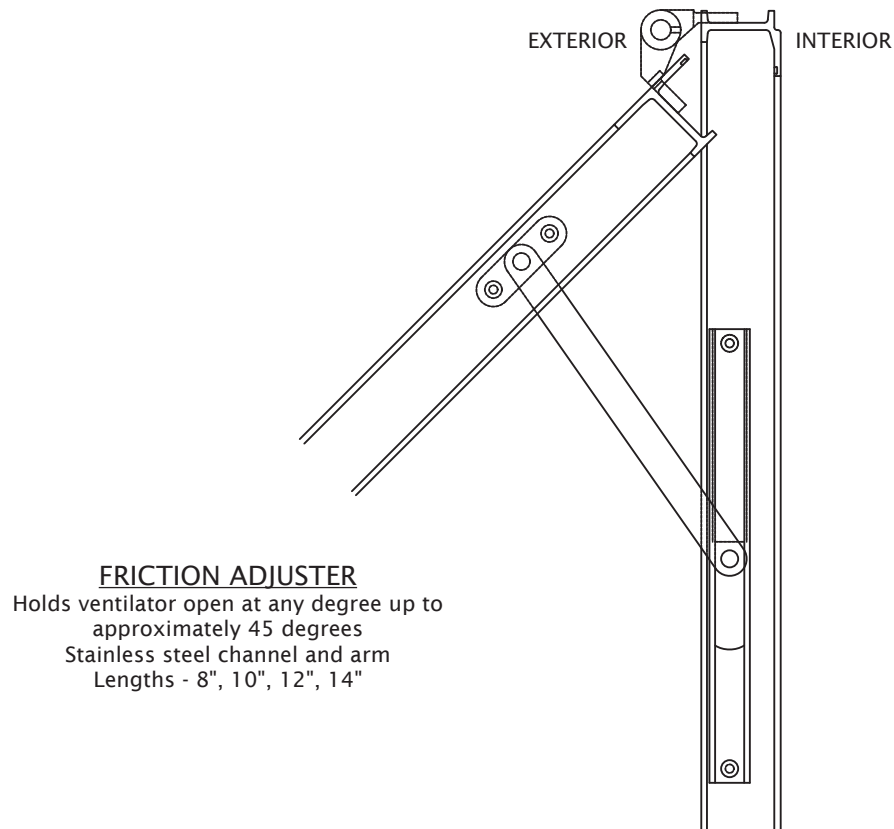


SIDE HUNG-OUT or IN

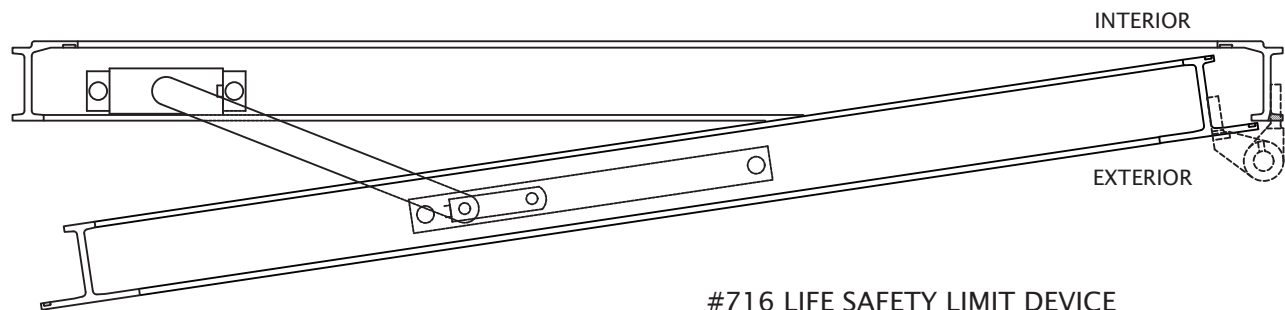


Details are 1/4 scale.

TOP HUNG-OUT



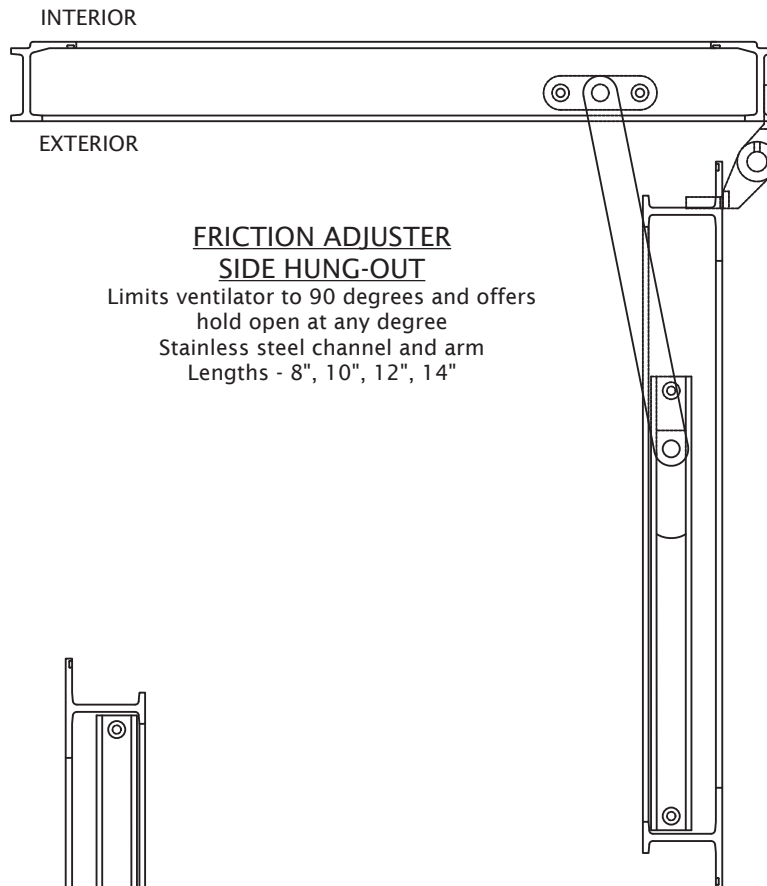
SIDE HUNG-OUT



#716 LIFE SAFETY LIMIT DEVICE
 Limits ventilator opening for fallout prevention
 Stainless steel channel and arm
 Length - 8" only

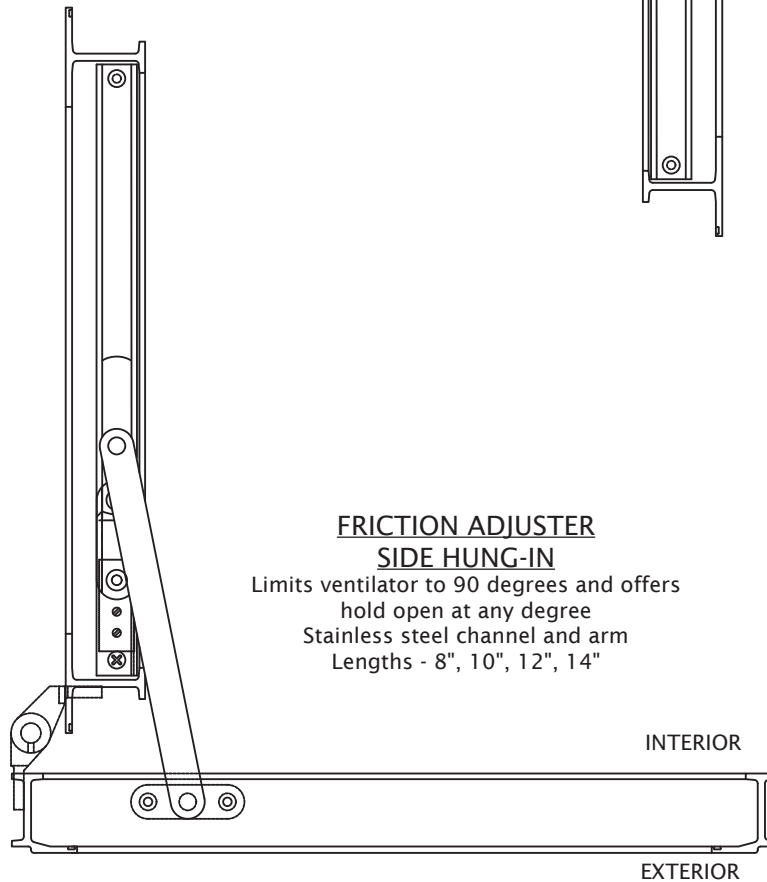
Details are 1/4 scale.

SIDE HUNG-OUT or IN



FRICTION ADJUSTER SIDE HUNG-OUT

Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"



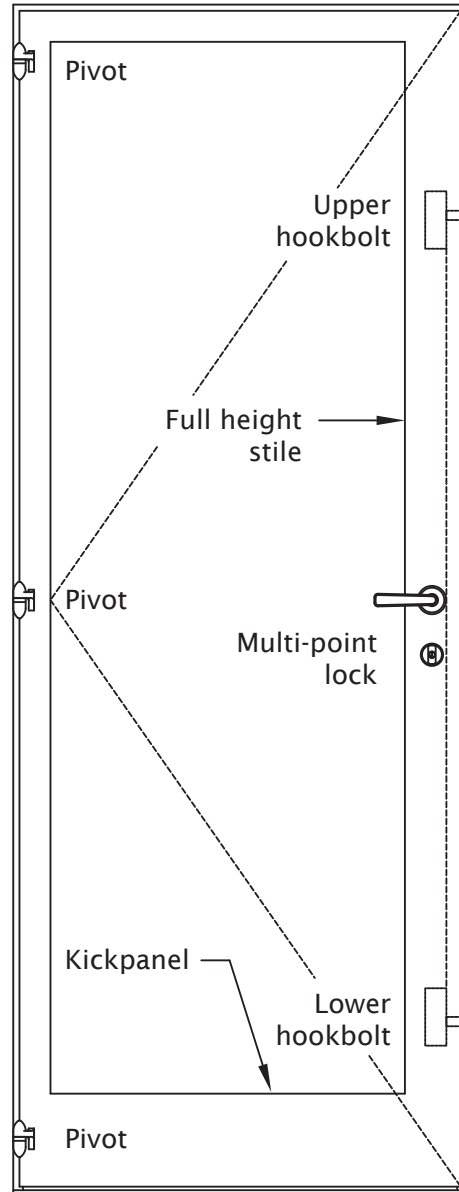
FRICTION ADJUSTER SIDE HUNG-IN

Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"

Details are 1/4 scale.

HOPE'S® EMPIRE BRONZE™ DOOR HARDWARE

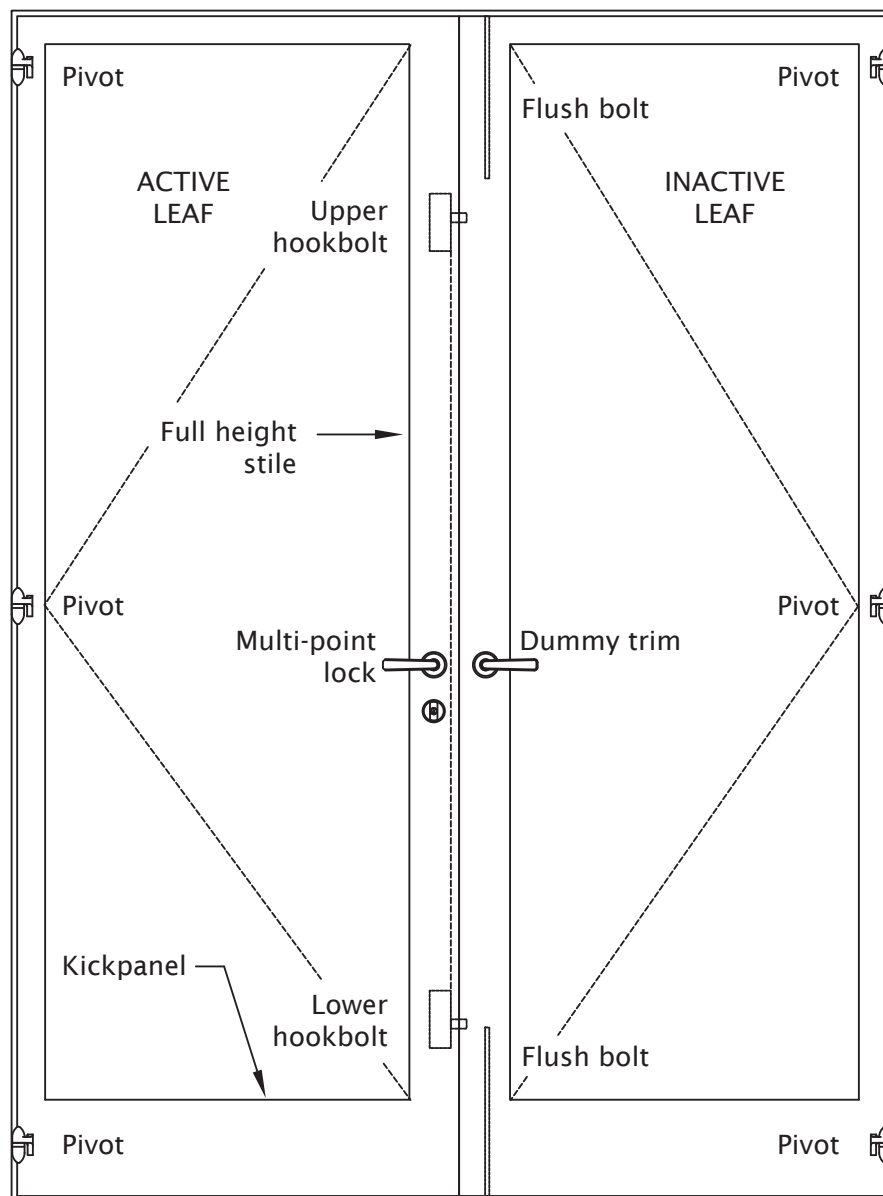
Multi-Point Lock



Elevations are viewed from the exterior. Elevations are not to scale.

HOPE'S® EMPIRE BRONZE™ DOOR HARDWARE

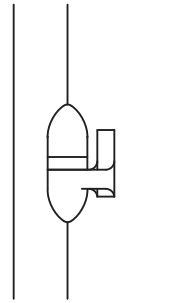
Multi-Point Lock



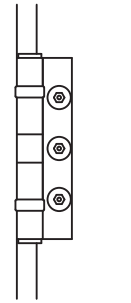
Elevations are viewed from the exterior. Elevations are not to scale.

PIVOT/HINGE

- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)
 - #1000HD
Heavy duty 5-knuckle ball-bearing hinge screw attached to door and frame with tamper resistant screws
- The #1000HD hinge is generally used in extreme size or traffic situations — consult Hope's



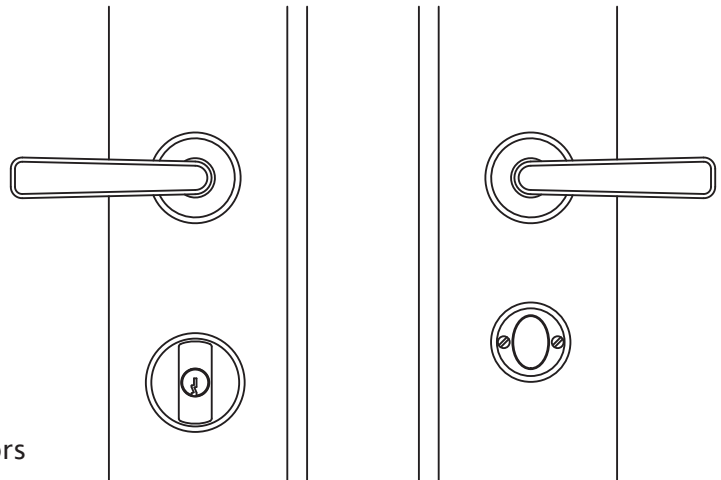
#237 PIVOT



#1000HD

MULTI-POINT LOCK

- Entrance function including:
 - Lever handles (exterior & interior)
 - Escutcheon plates (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- Additional multi-point lock features:
 - Added security and performance with multi-point hookbolt type latching
 - Full height stile
 - Handle above key cylinder
 - Required for hurricane impact approved doors
 - 3 escutcheon design choices



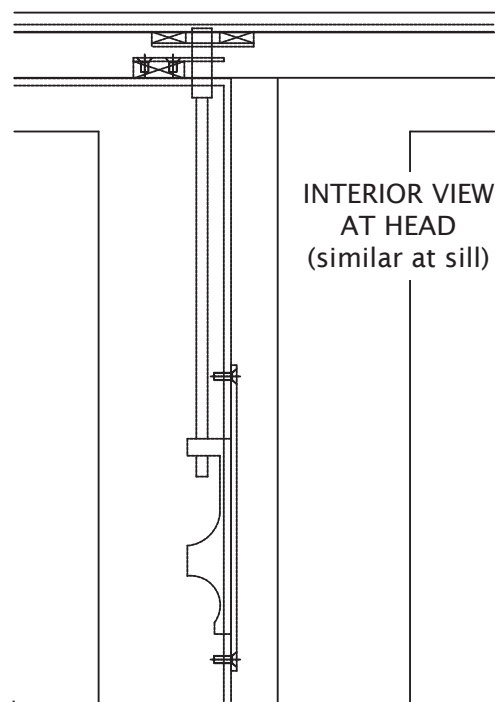
EXTERIOR

INTERIOR

TOP & BOTTOM BOLTS

(Double doors only)

- #19-156M1 (concealed)
- #20-50 (exposed)
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations

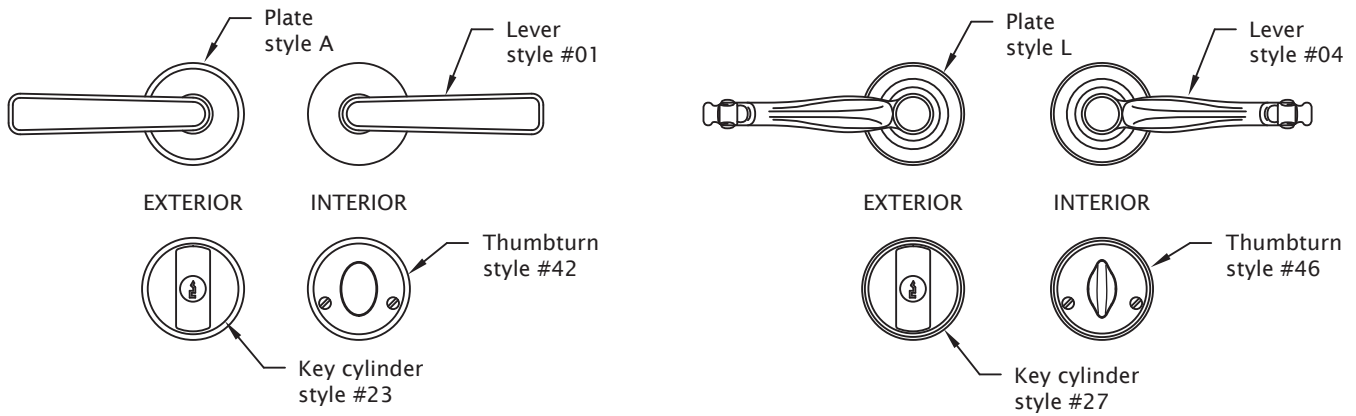


INTERIOR VIEW
AT HEAD
(similar at sill)

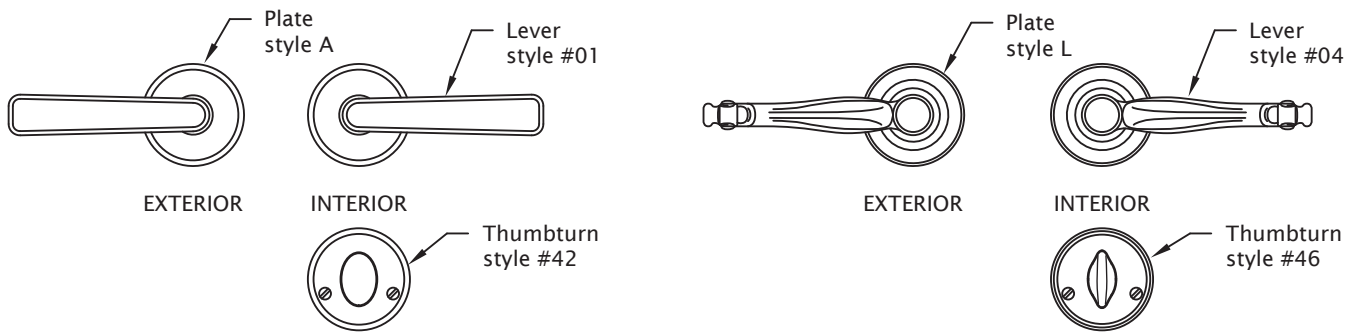
Details are 1/4 scale.

ROSE TRIM Rose size - 2-1/4"

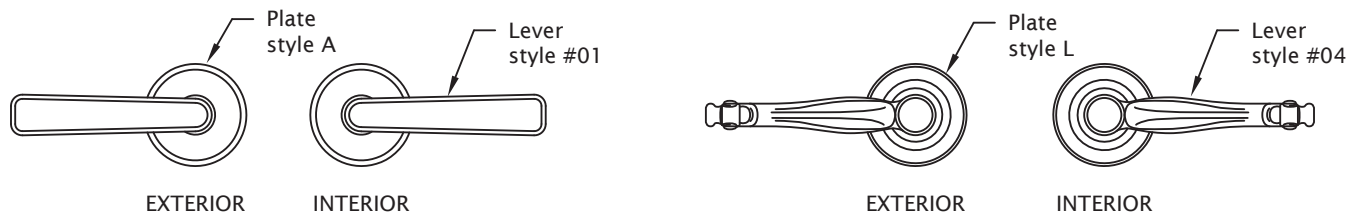
ENTRANCE FUNCTION



PATIO FUNCTION



PASSAGE FUNCTION FULL DUMMY FUNCTION



Details are 1/4 scale.

ENTRANCE FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

Plate style C

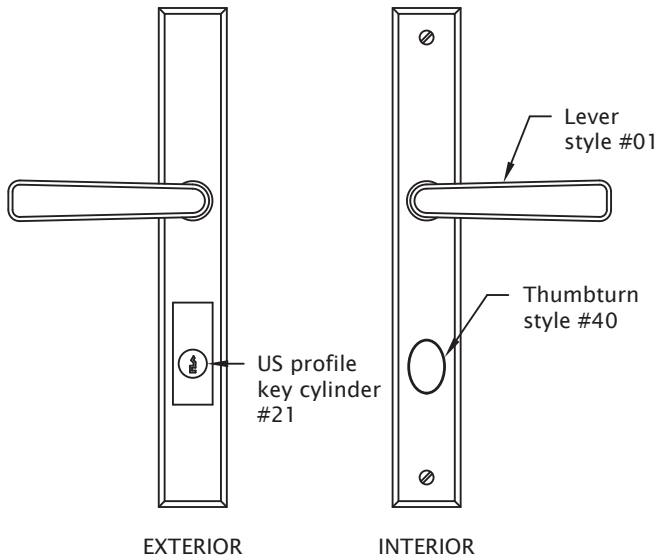


Plate style J

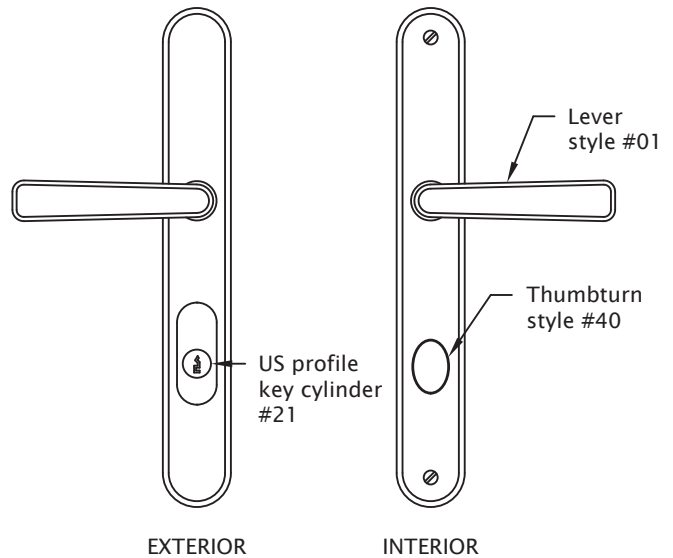


Plate style F

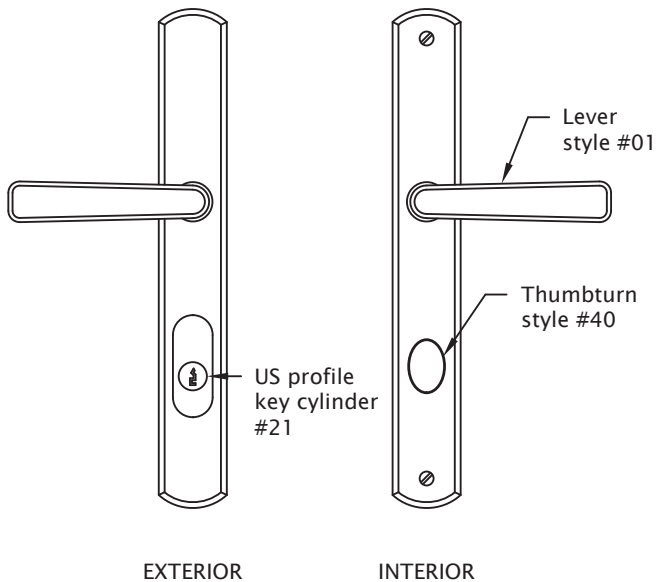
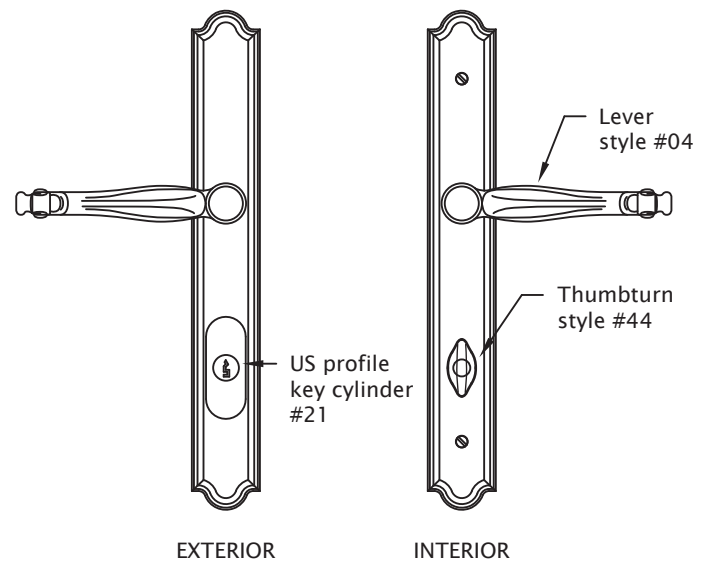


Plate style N



Details are 1/4 scale.

HOPE'S® EMPIRE BRONZE™ DOOR HARDWARE

Multi-Point Lock
Patio Function Trim

PATIO FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

Plate style C

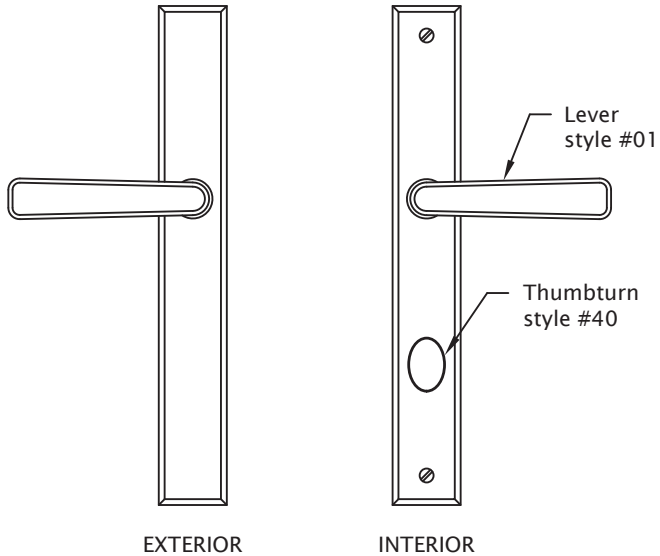


Plate style J

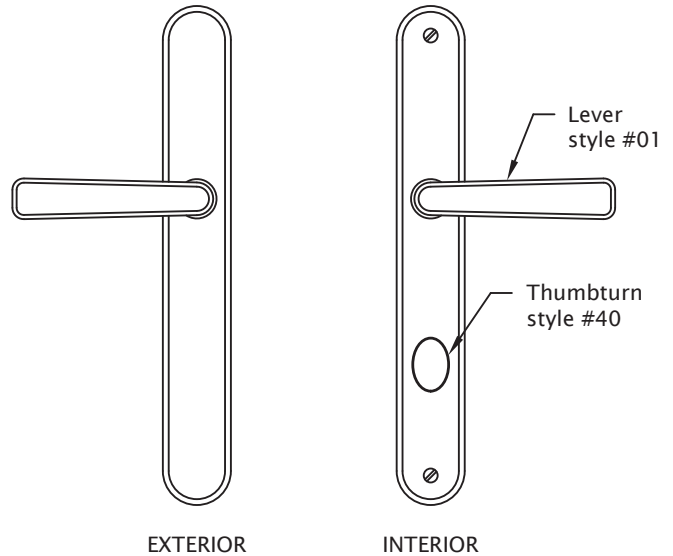


Plate style F

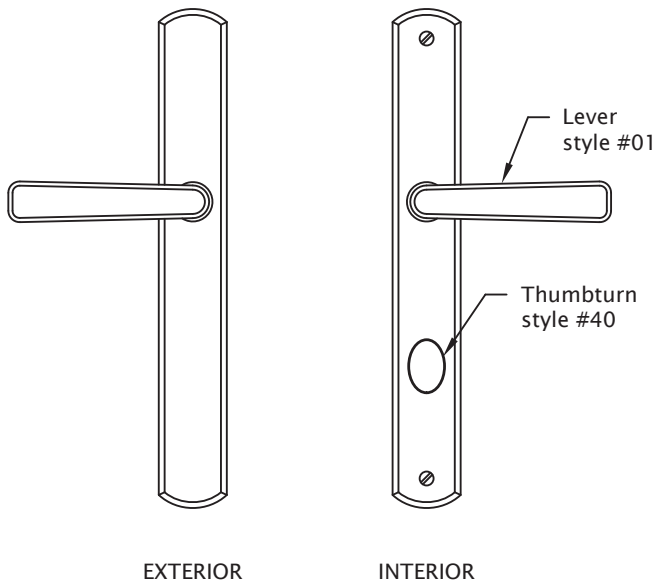
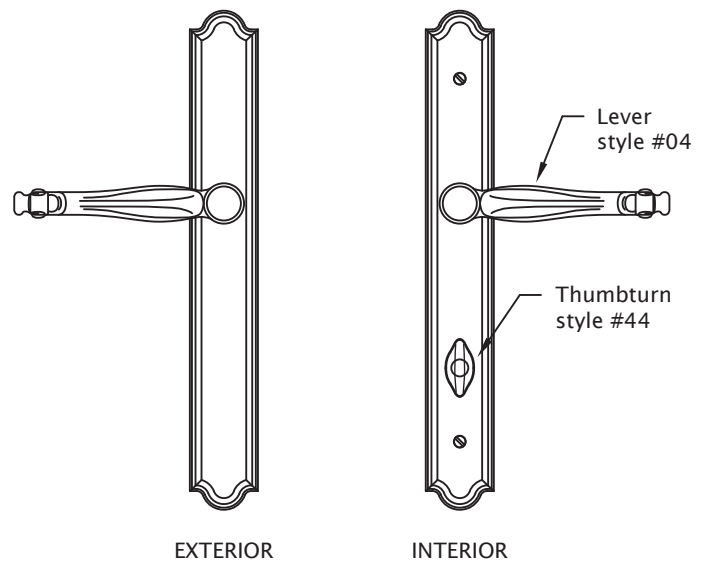


Plate style N

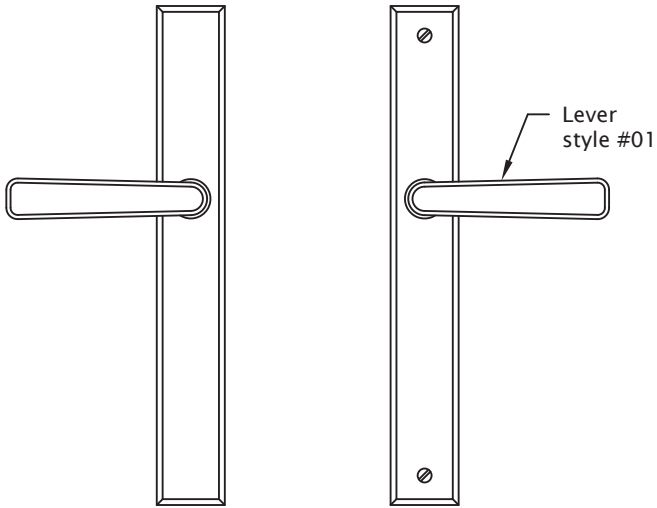


Details are 1/4 scale.

PASSAGE or FULL DUMMY FUNCTION TRIM

Escutcheon size - 1-1/2" x 11"

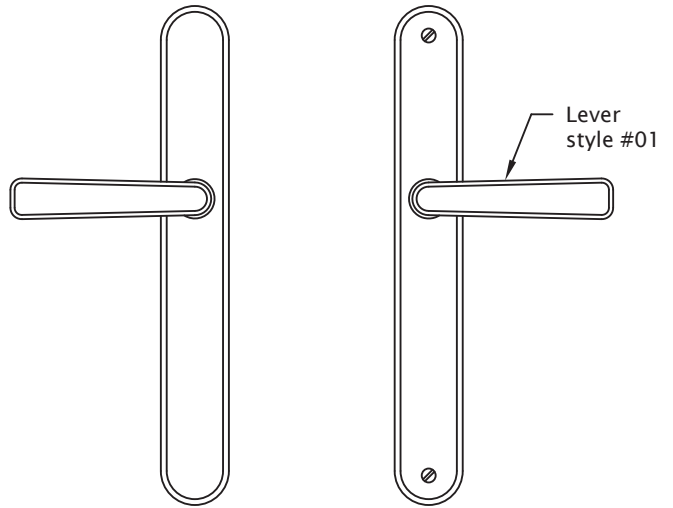
Plate style C



EXTERIOR

INTERIOR

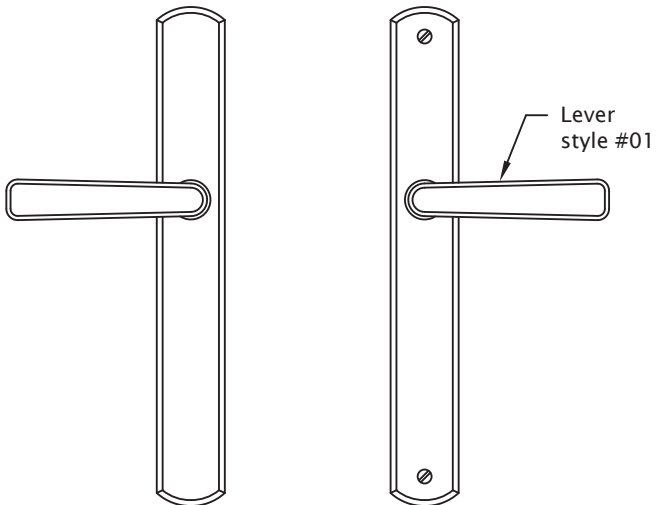
Plate style J



EXTERIOR

INTERIOR

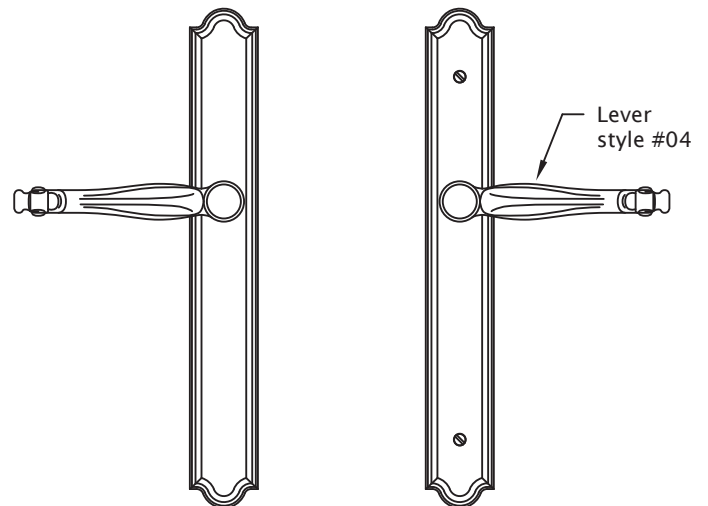
Plate style F



EXTERIOR

INTERIOR

Plate style N

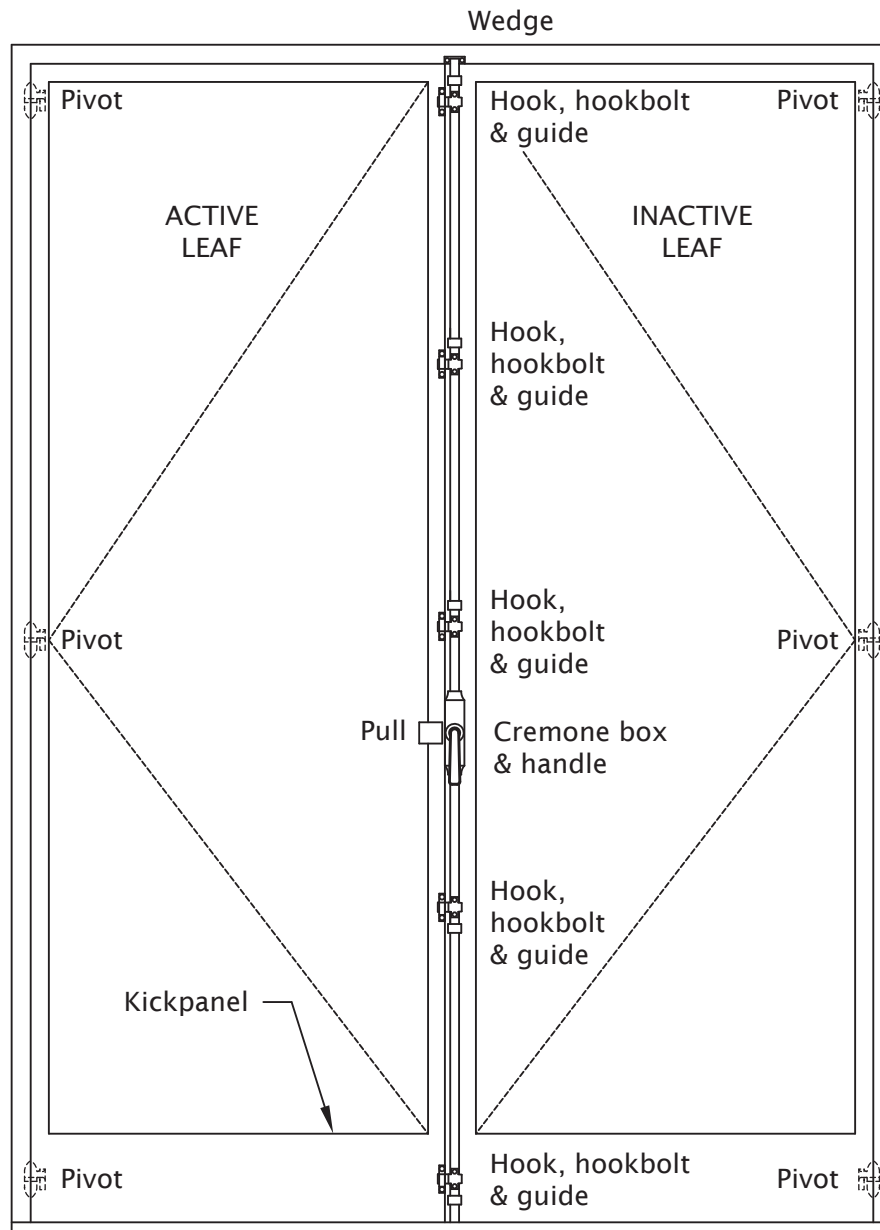


EXTERIOR

INTERIOR

Additional functions available upon request.

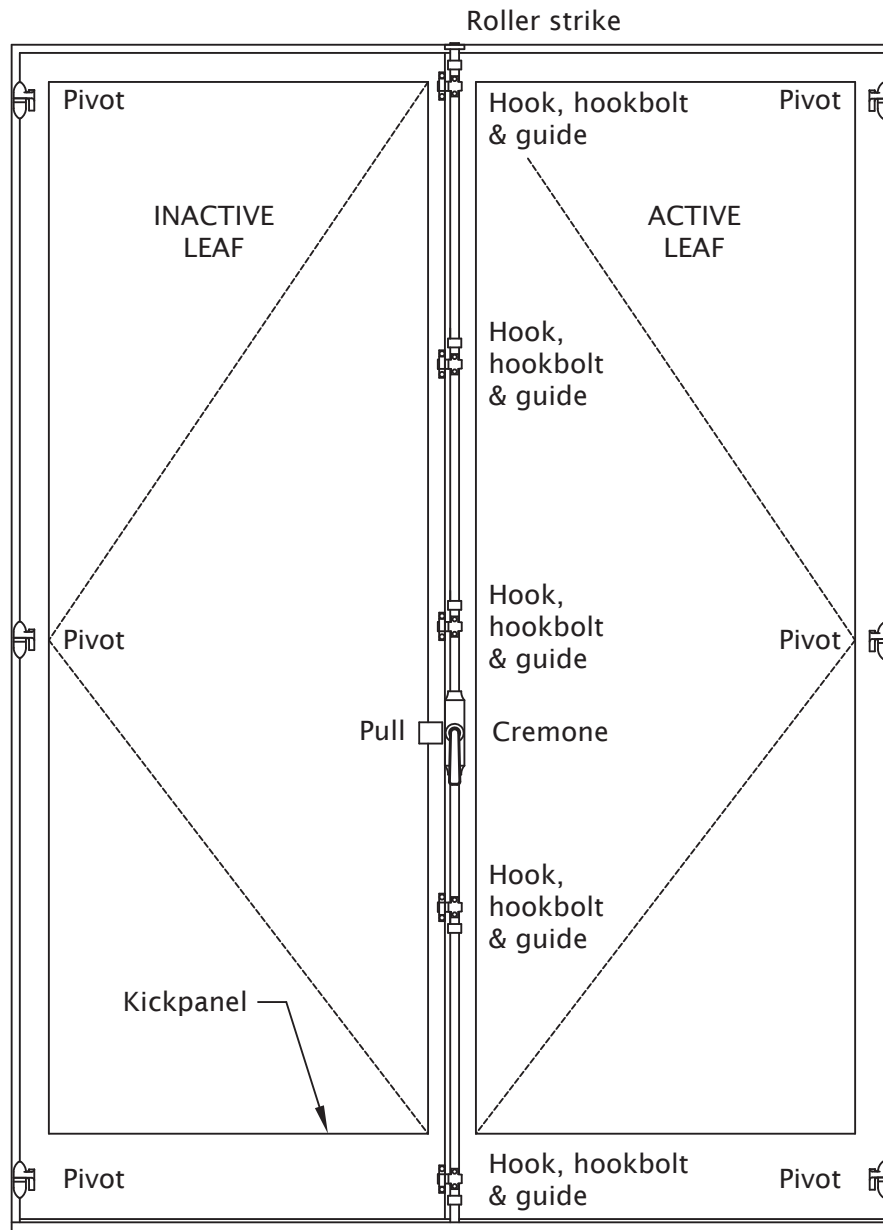
Details are 1/4 scale.



SWING-OUT DOOR

Optional concealed top & bottom bolts
on inactive leaf also available

Elevations are viewed from the interior. Elevations are not to scale.



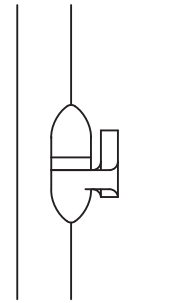
SWING-IN DOOR

Optional concealed top & bottom bolts
on inactive leaf also available

Elevations are viewed from the interior. Elevations are not to scale.

PIVOT

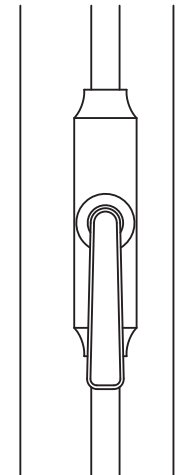
- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)



#237 PIVOT

CREMONE

- #52-160 box and lever
 - Interior operation only
 - No handle on the exterior
 - Lever styles #01 and #04
- Cremone features:
 - True French-style function where operating the cremone handle releases both leaves to open at once
 - Optional top and bottom bolts allow inactive leaf to remain bolted while active leaf permits passage
 - No lockbox required



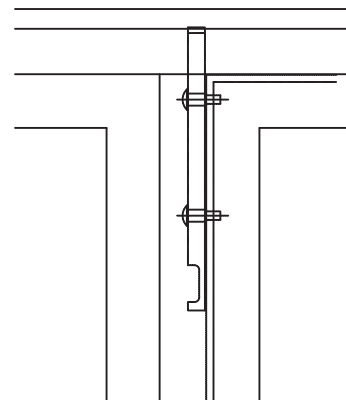
INTERIOR
VIEW

Lever
style #01

TOP & BOTTOM BOLTS

(Optional)

- #19-156M1 (concealed)
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations



#19-156M1
(concealed)
INTERIOR VIEW

Details are 1/4 scale.

CREMONE LEVER STYLES

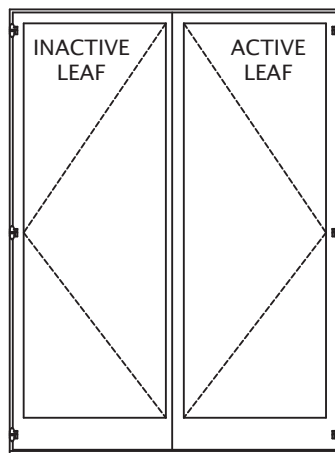


Lever
style #01

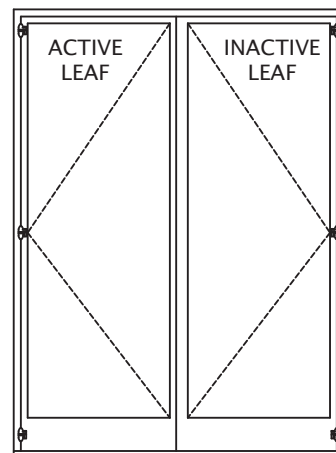


Lever
style #04

EXTERIOR ELEVATIONS



SWING-OUT DOOR
Only the pivots are visible on the exterior



SWING-IN DOOR
No visible hardware on the exterior

Details are 1/4 scale.

INTENTIONALLY LEFT BLANK

VISITOR CENTER

Commercial Hardware Finishes

The superior strength and durability associated with steel and bronze windows and doors make Hope's windows and doors ideal for commercial applications. Hope's custom steel and bronze windows and doors are utilized in office buildings, transit facilities, financial institutions, parking structures, post offices and other commercial buildings. Accompanying hardware complete the design.

Finish images are for representation purpose only and color may vary slightly.

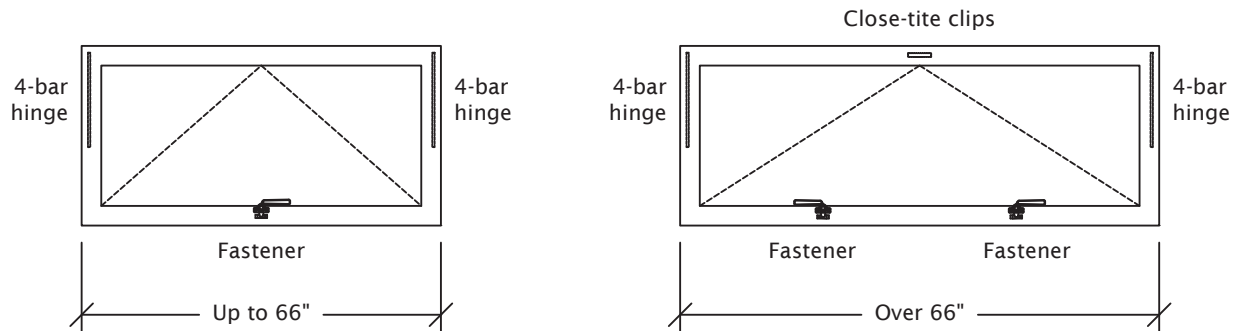
US26D SATIN
CHROME PLATED

US10B OIL RUBBED
BRONZE

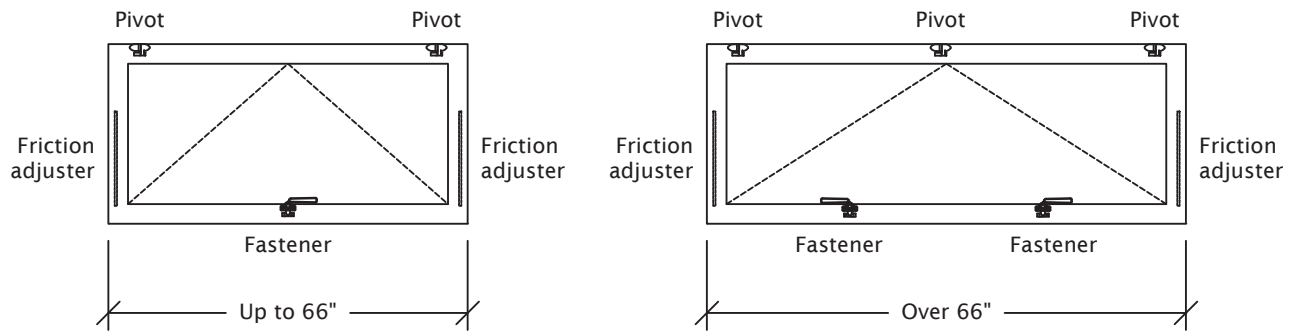
HOPE'S®

THE WORLD'S FINEST WINDOWS AND DOORS SINCE 1912

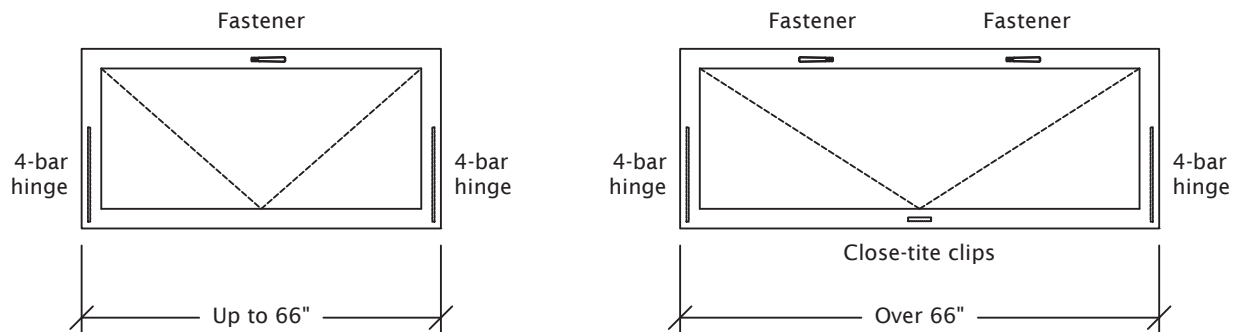
PROJECT-OUT



TOP HUNG-OUT



PROJECT-IN

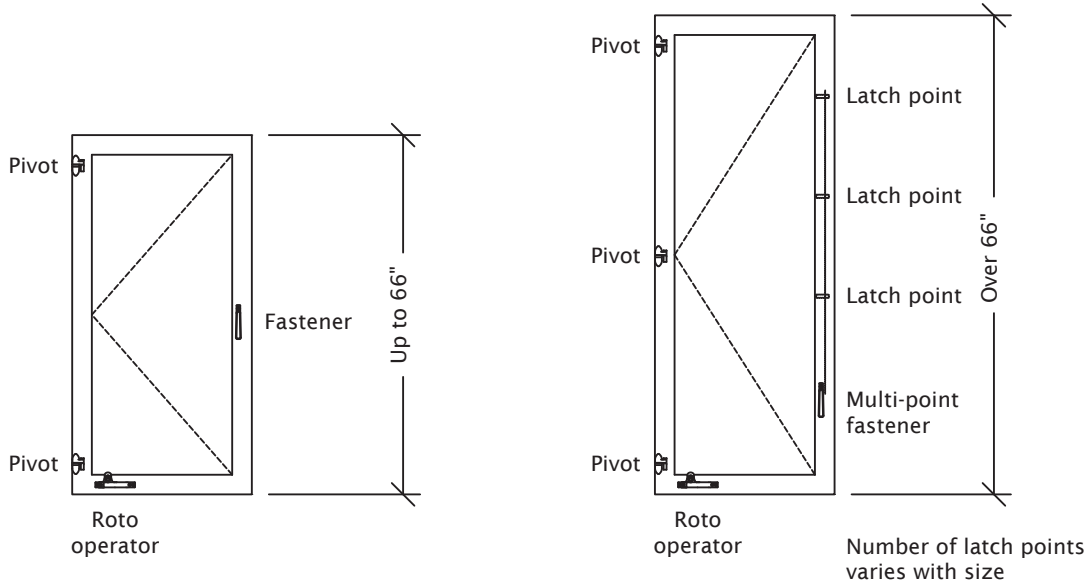


OPTIONAL HARDWARE FOR PROJECT-OUT AND TOP HUNG-OUT VENTILATORS

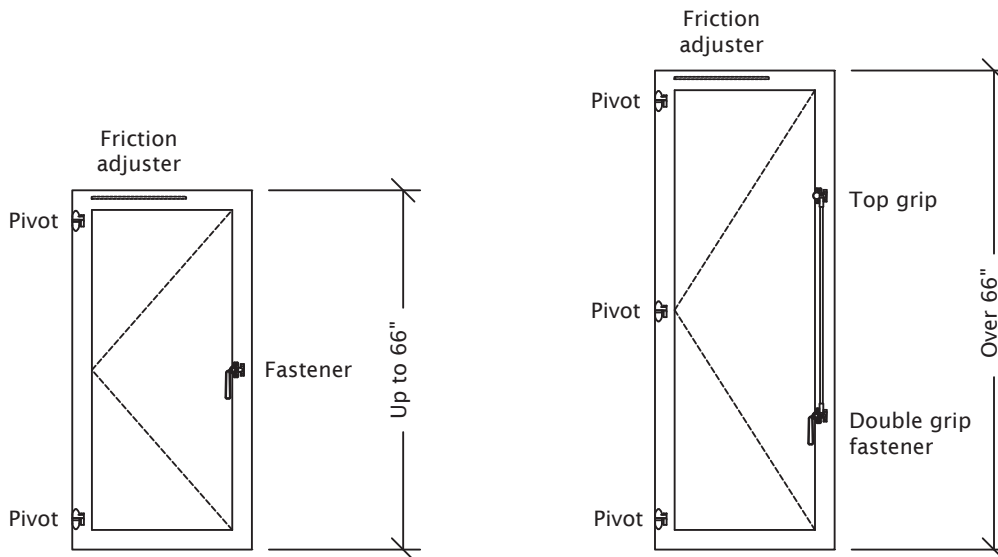
- Remote operators
- Life safety devices
- Dual arm roto operator
- Under screen push bar

Elevations are viewed from the interior. Elevations are not to scale.

SIDE HUNG-OUT (ROTO OPERATED)



SIDE HUNG-OUT (SIMPLEX OPERATED)

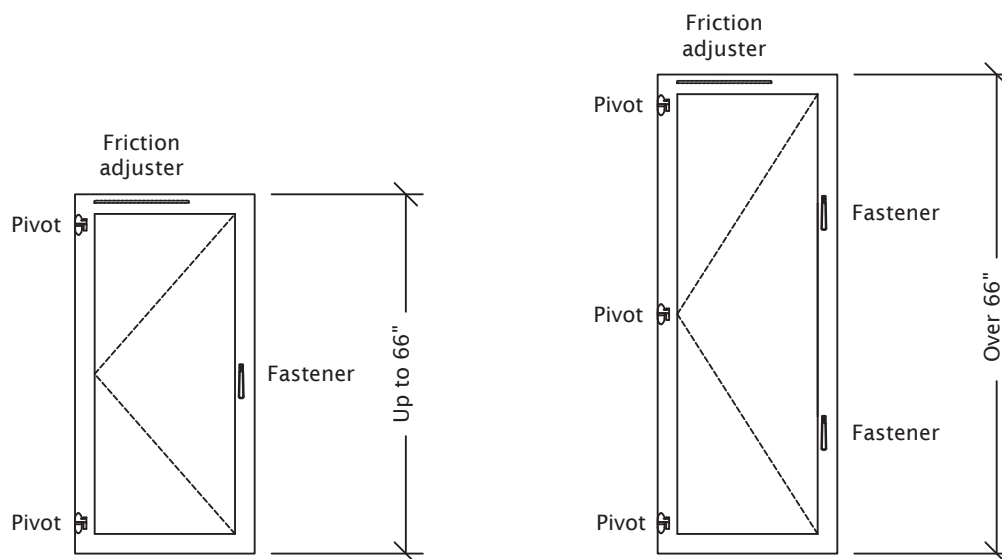


OPTIONAL HARDWARE FOR SILL OF SIMPLEX OPERATED SIDE HUNG-OUT VENTILATORS

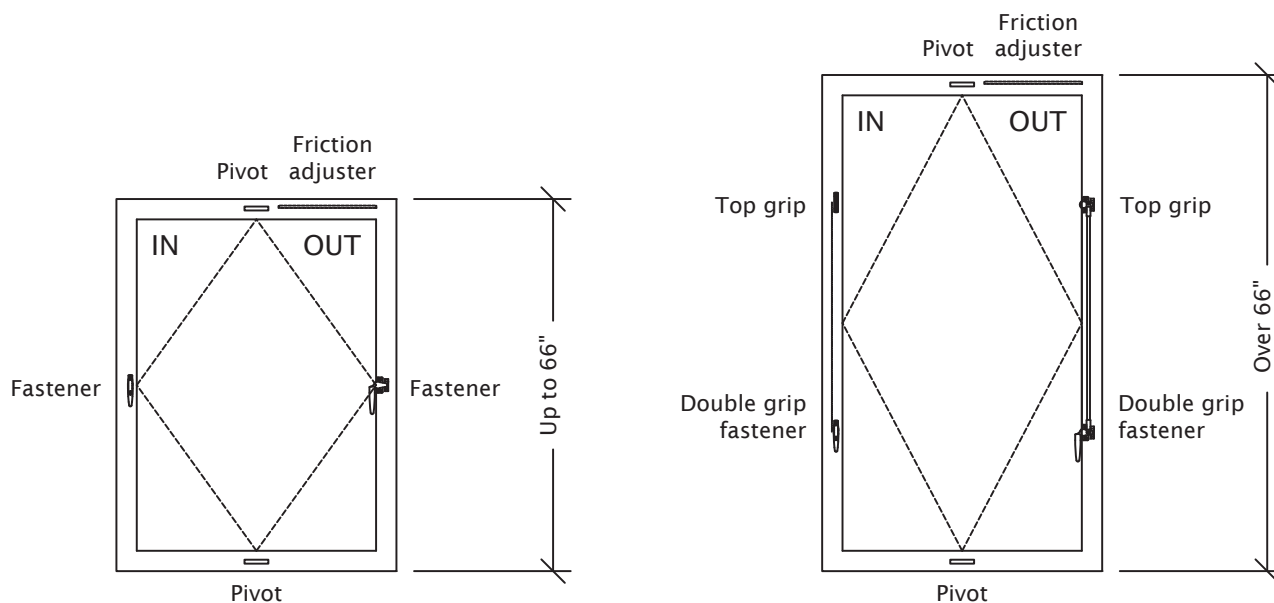
- Double bar adjuster
- Life safety limit device

Elevations are viewed from the interior. Elevations are not to scale.

SIDE HUNG-IN

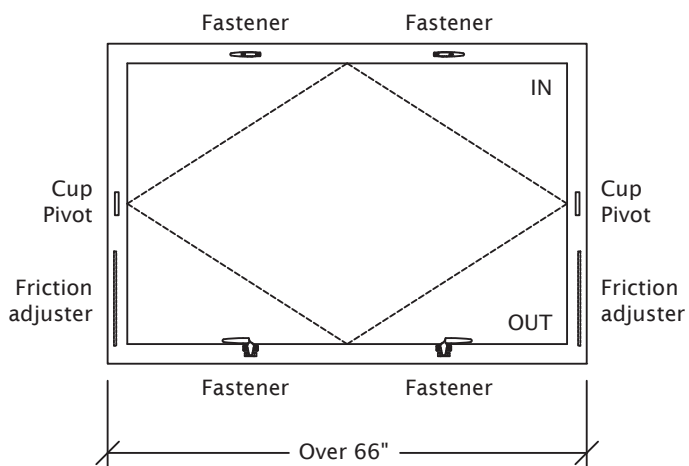
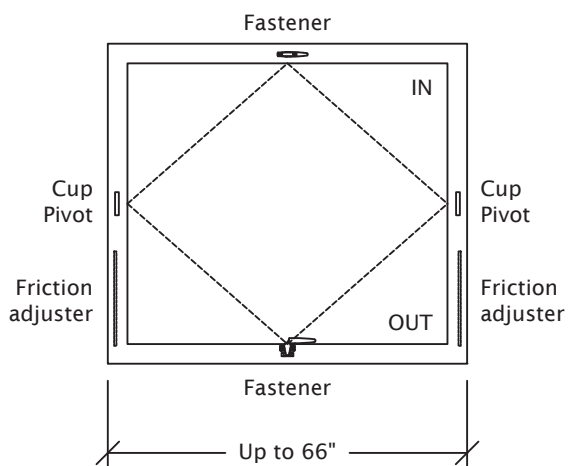


90-DEGREE VERTICAL PIVOTED

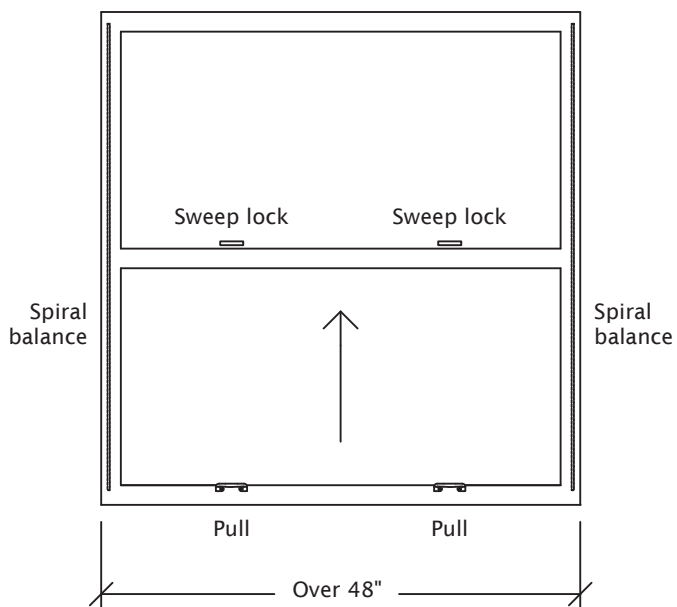
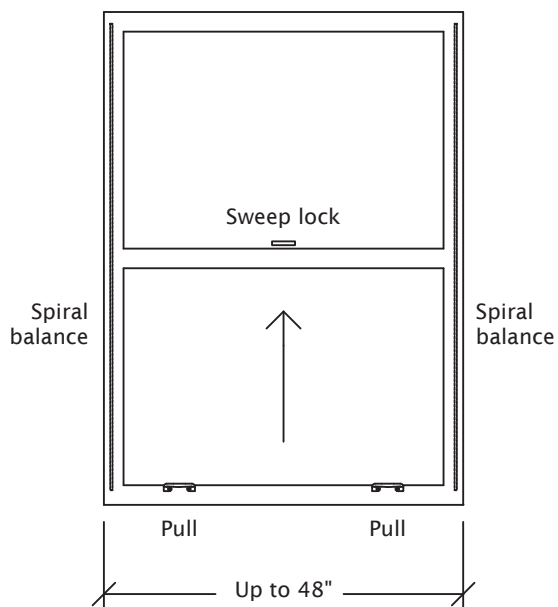


Elevations are viewed from the interior. Elevations are not to scale.

90-DEGREE HORIZONTAL PIVOTED

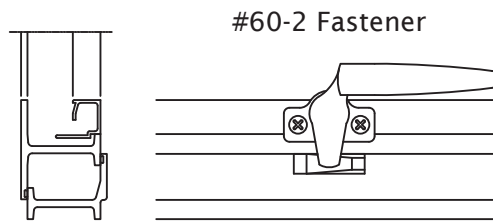


SINGLE HUNG



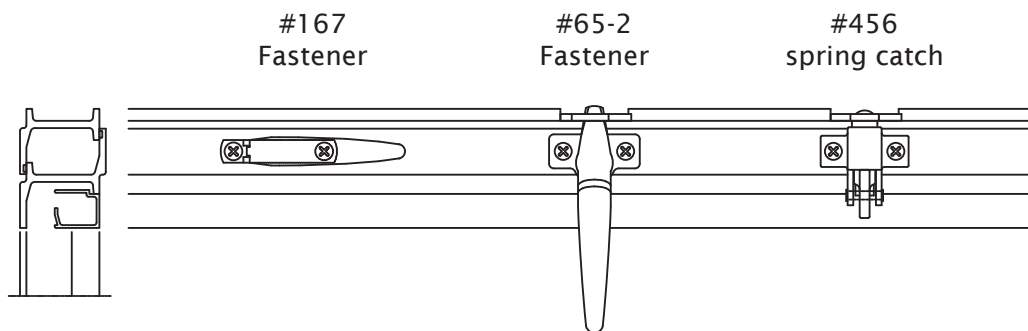
Elevations are viewed from the interior. Elevations are not to scale.

PROJECT-OUT, TOP HUNG-OUT or HORIZONTAL PIVOTED



#60-2 Fastener

PROJECT-OUT, TOP HUNG-OUT or HORIZONTAL PIVOTED

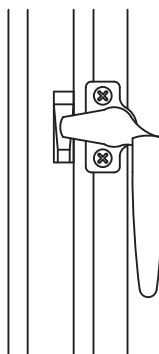
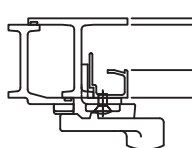


#167
Fastener

#65-2
Fastener

#456
spring catch

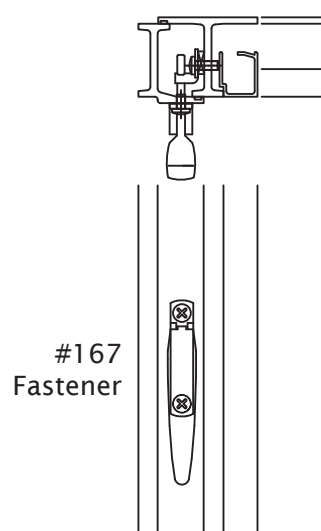
SIDE HUNG-OUT (SIMPLEX) or VERTICAL PIVOTED (OUT)



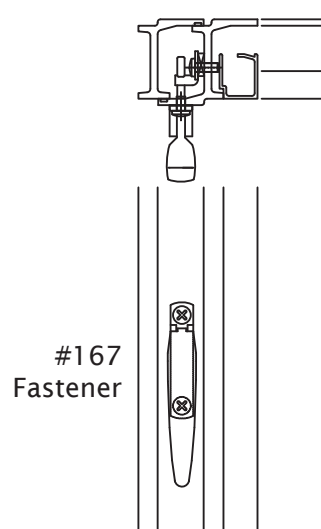
#60-2
Fastener

Details are 1/4 scale.

SIDE HUNG-OUT (ROTO) or VERTICAL PIVOTED (OUT)

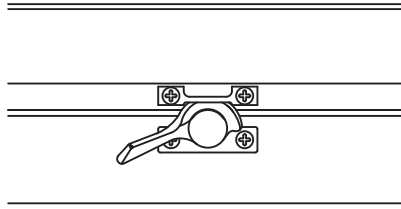
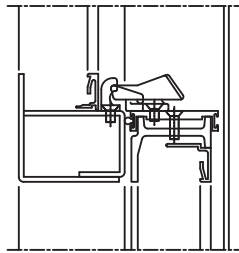


SIDE HUNG-IN or VERTICAL PIVOTED (IN)

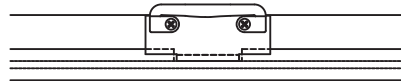
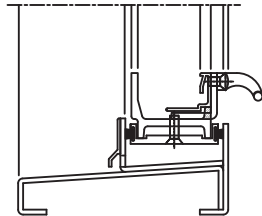


Details are 1/4 scale.

SINGLE HUNG



#291-012 Sweep Lock
#204-001 Keeper



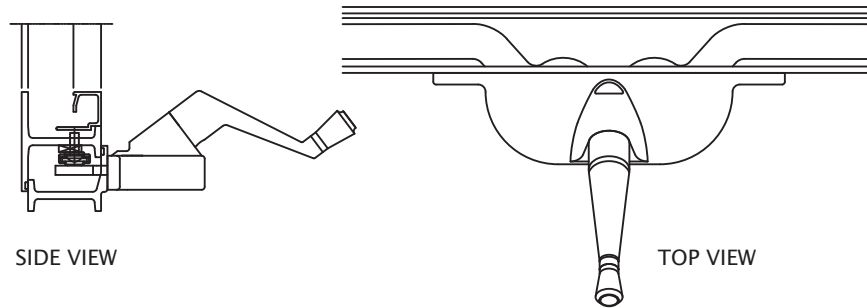
#243-001 Pull

Details are 1/4 scale.

PROJECT-OUT

#142 DUAL ARM ROTO OPERATOR

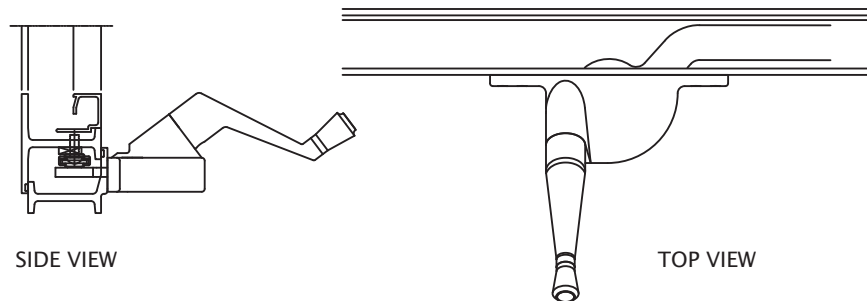
Solid brass housing and crank
Stainless steel arm
Stainless steel track



SIDE HUNG-OUT

#141 SINGLE ARM ROTO OPERATOR

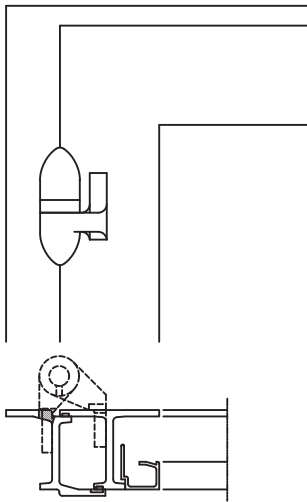
Solid brass housing and crank
Stainless steel arm
Stainless steel track



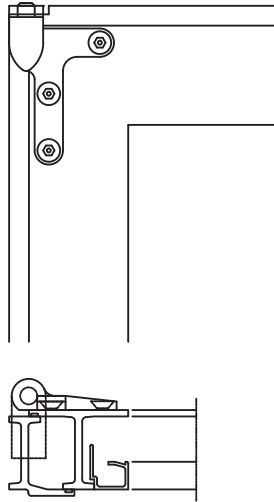
Details are 1/4 scale.

SIDE HUNG-OUT or IN

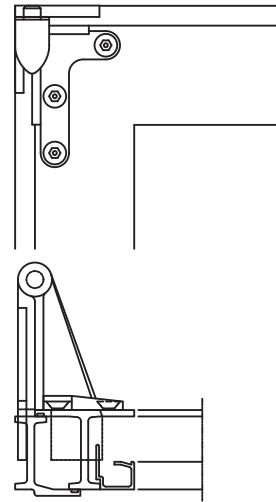
#237 PIVOT
Painted to match finish



#732 CORNER PIVOT
Aluminum-bronze and
stainless steel
Painted to match finish
Stainless steel pin

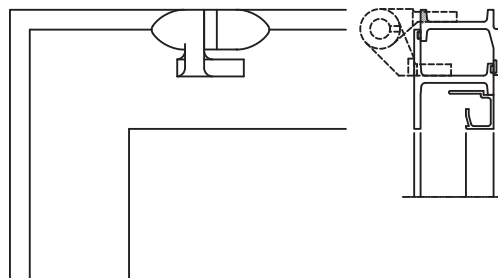


#734 CORNER EXTENSION PIVOT
Aluminum-bronze and
stainless steel
Painted to match finish
Stainless steel pin



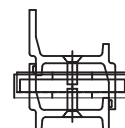
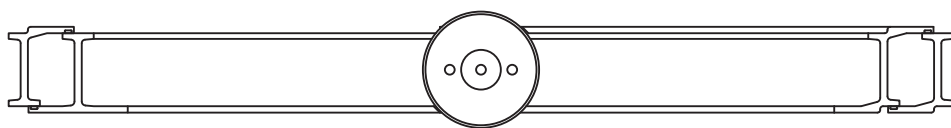
TOP HUNG-OUT

#237 PIVOT
Painted to match finish

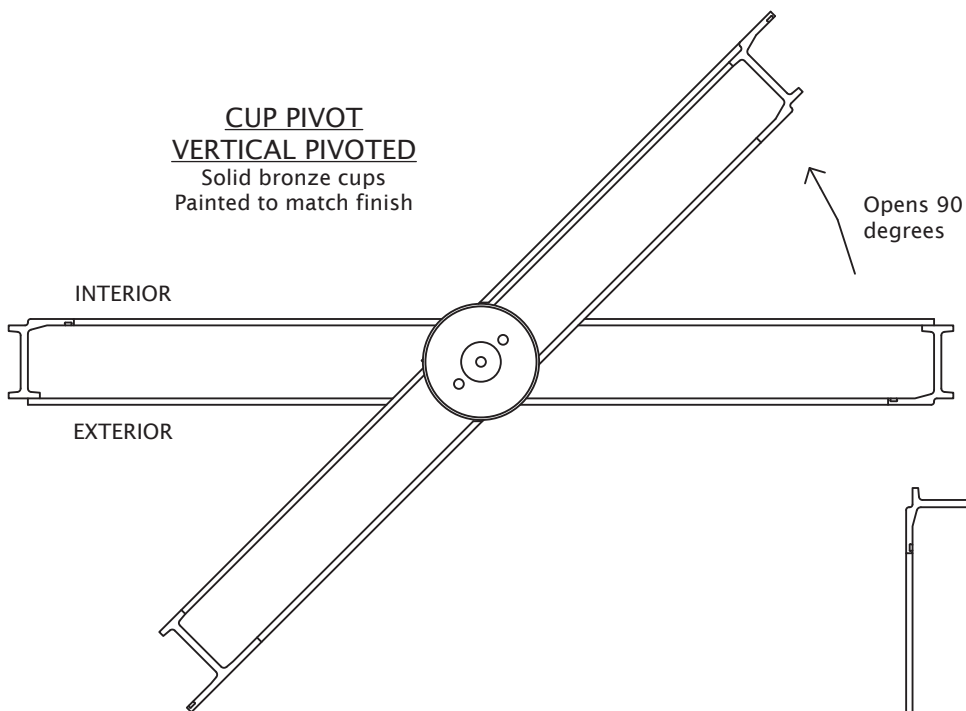


Details are 1/4 scale.

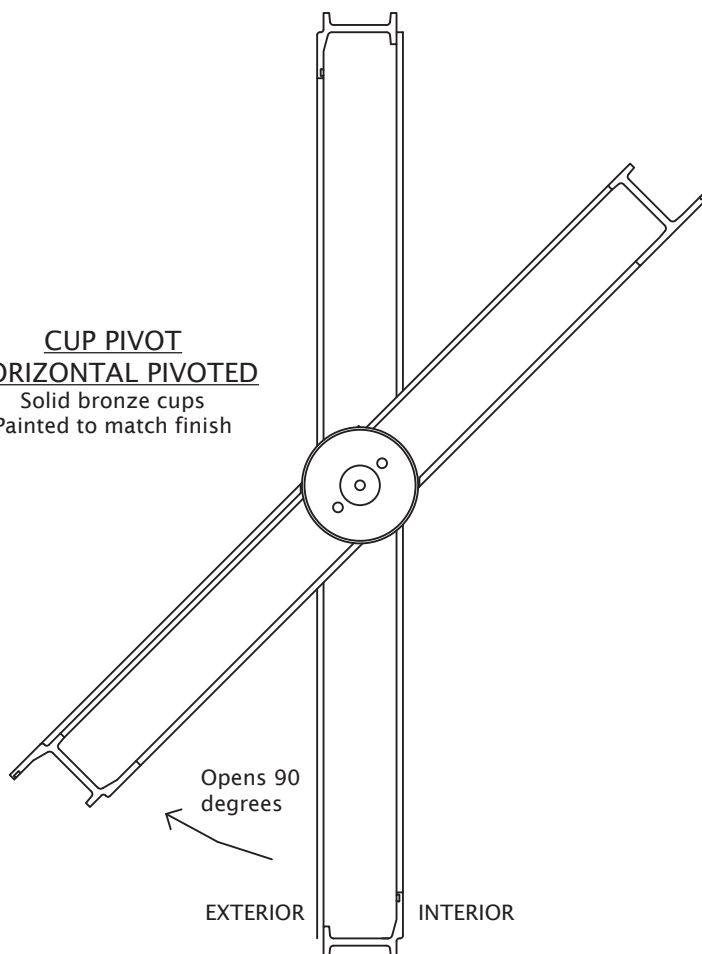
VERTICAL and HORIZONTAL PIVOTED



CUP PIVOT VERTICAL PIVOTED Solid bronze cups Painted to match finish

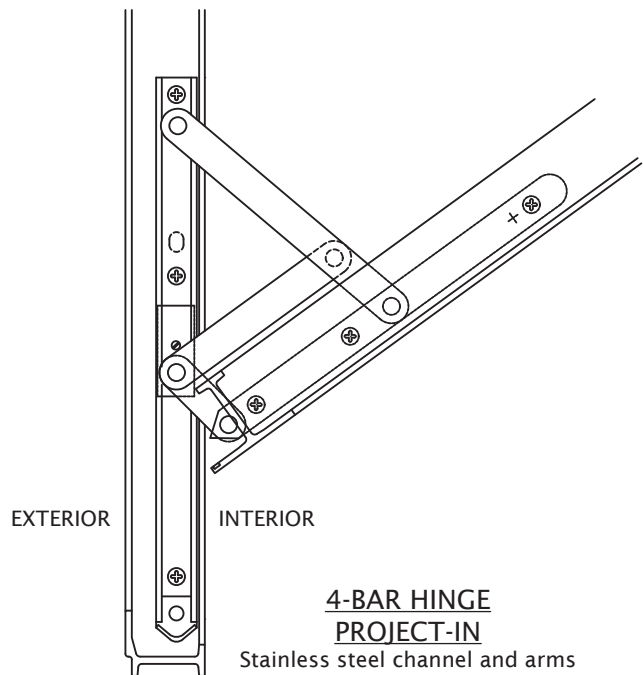
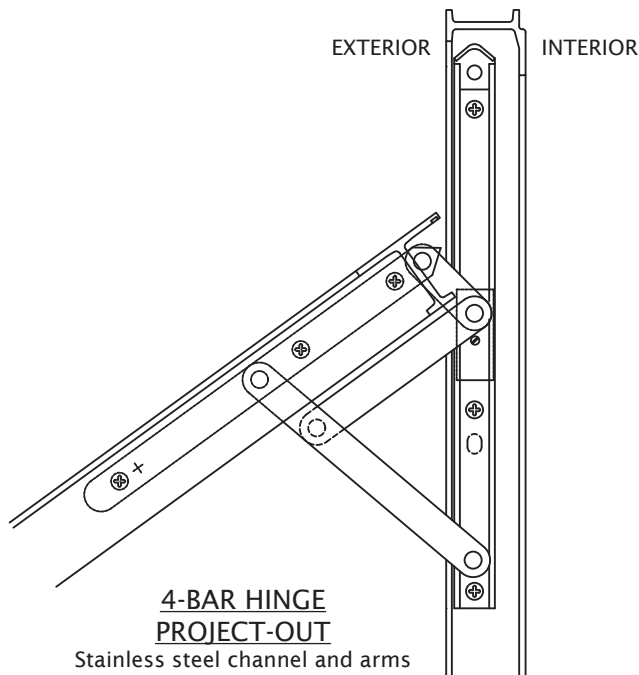


CUP PIVOT HORIZONTAL PIVOTED Solid bronze cups Painted to match finish

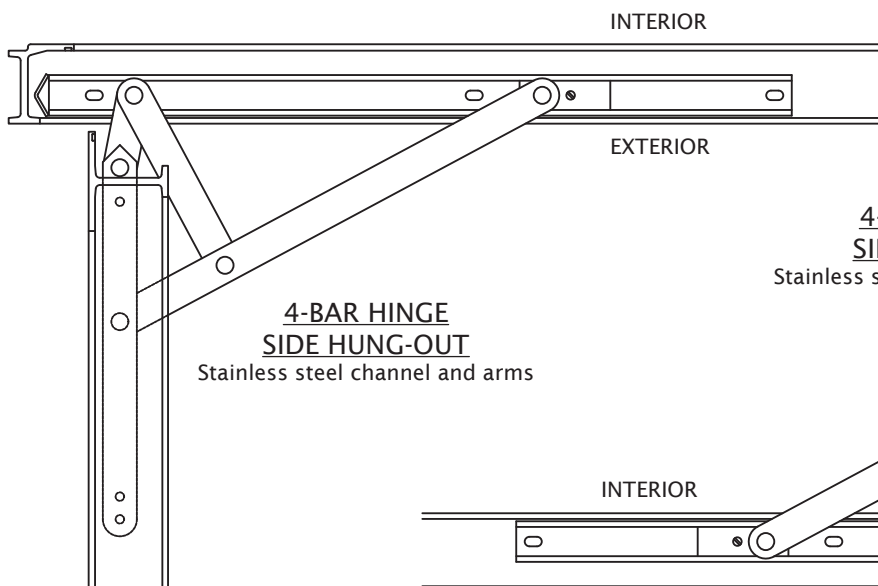


Details are 1/4 scale.

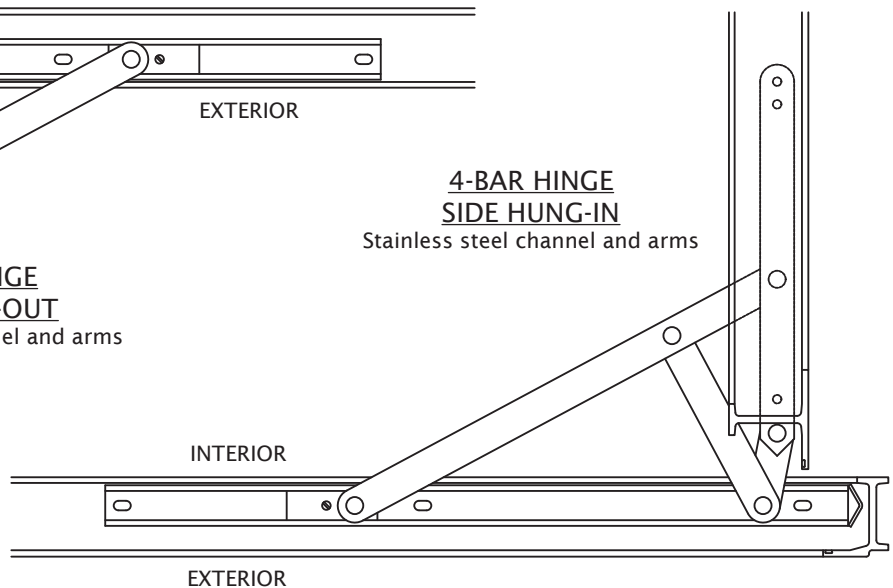
PROJECT-OUT or IN



SIDE HUNG-OUT or IN

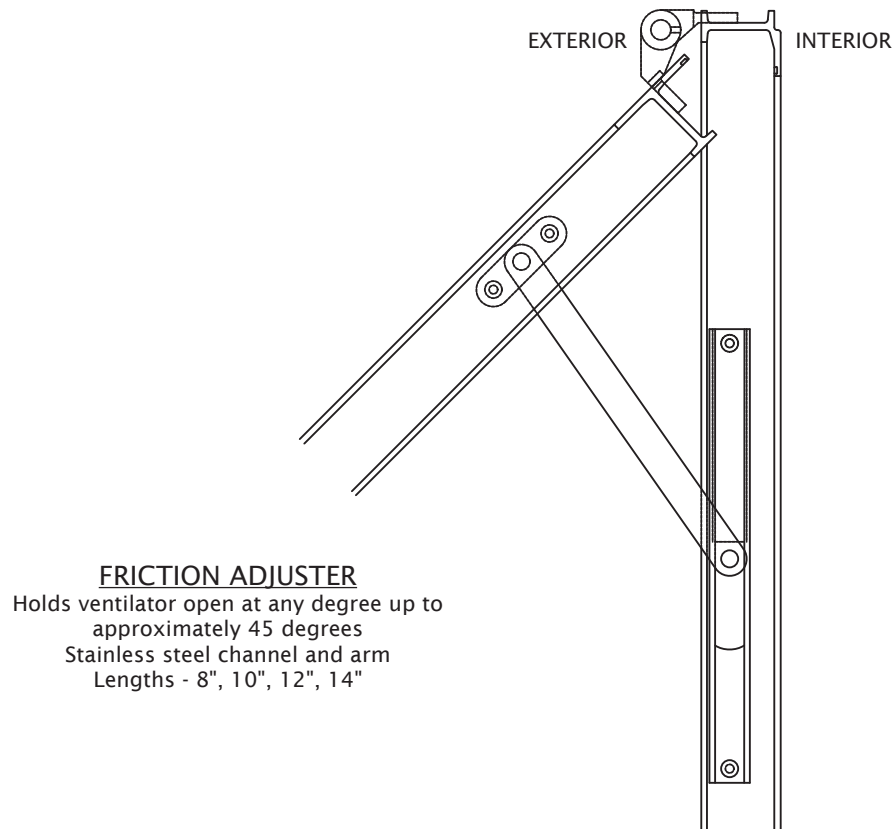


4-BAR HINGE SIDE HUNG-IN
Stainless steel channel and arms

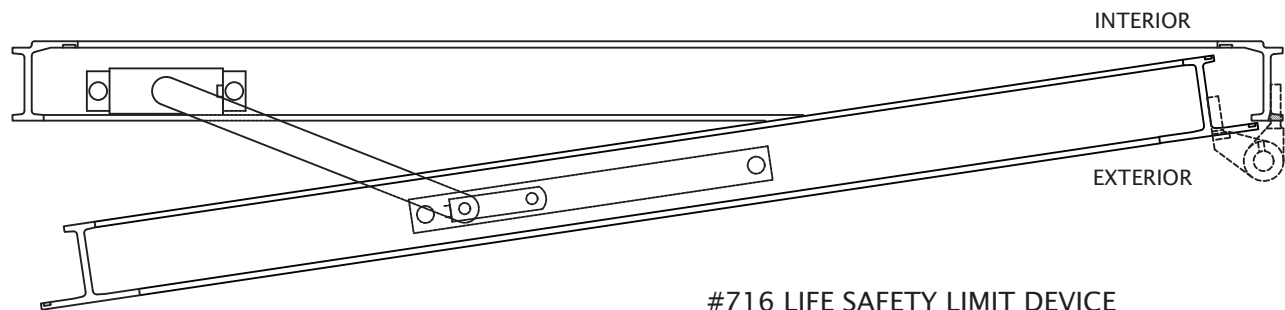


Details are 1/4 scale.

TOP HUNG-OUT

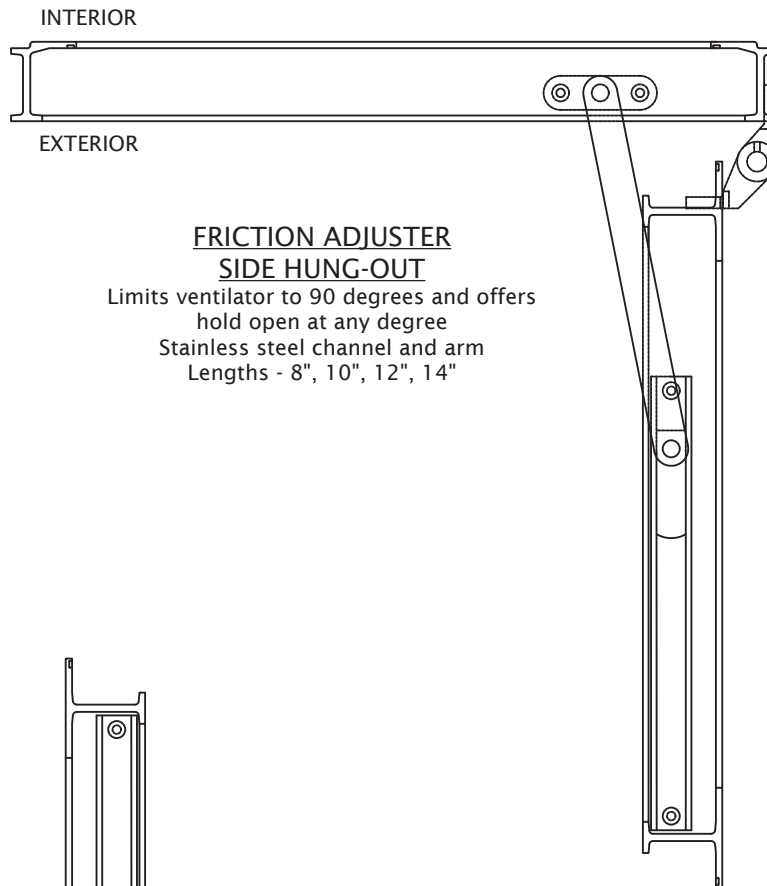


SIDE HUNG-OUT



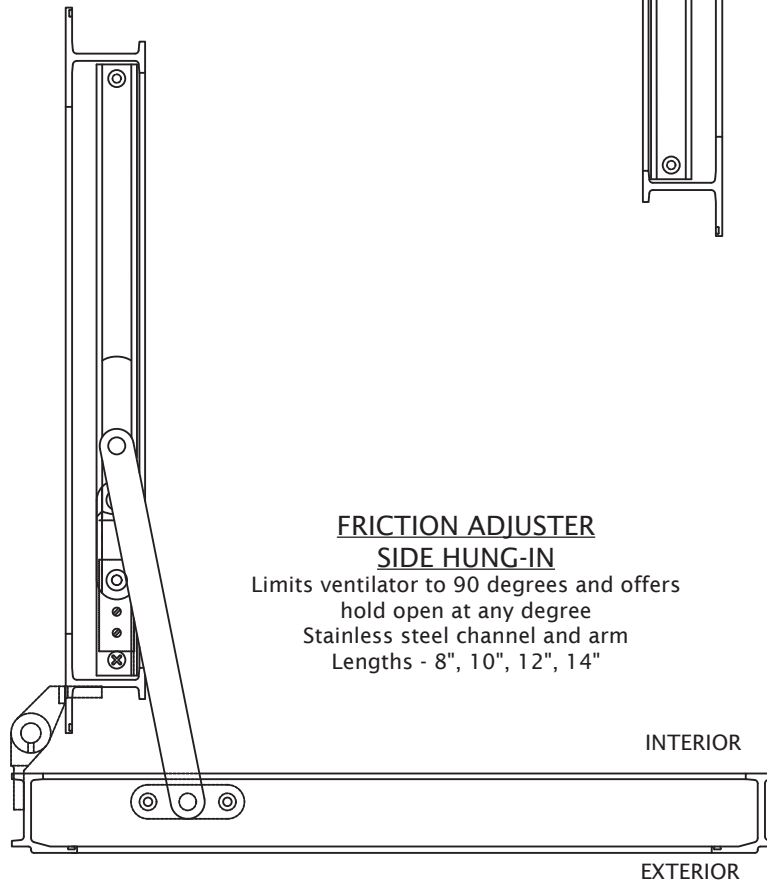
Details are 1/4 scale.

SIDE HUNG-OUT or IN



FRICTION ADJUSTER SIDE HUNG-OUT

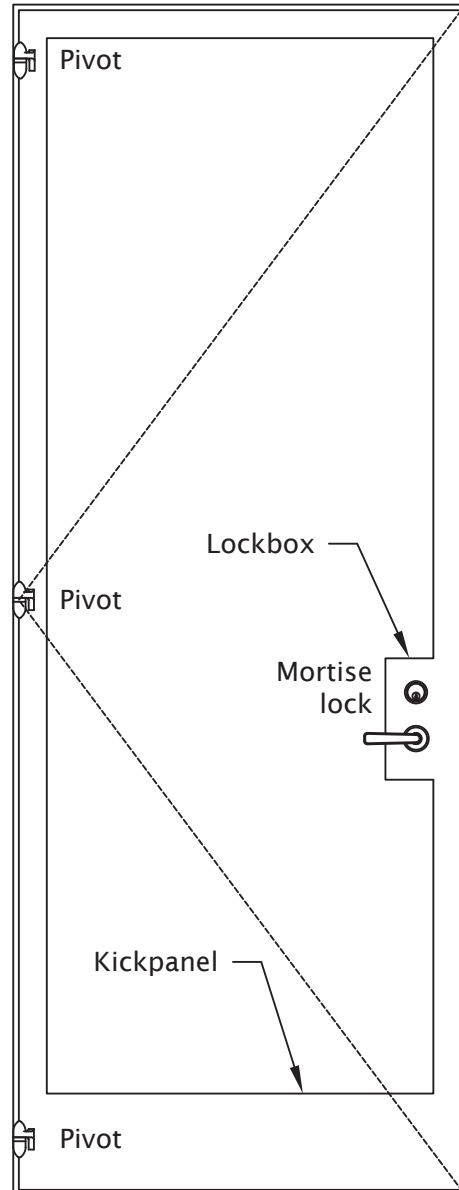
Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"



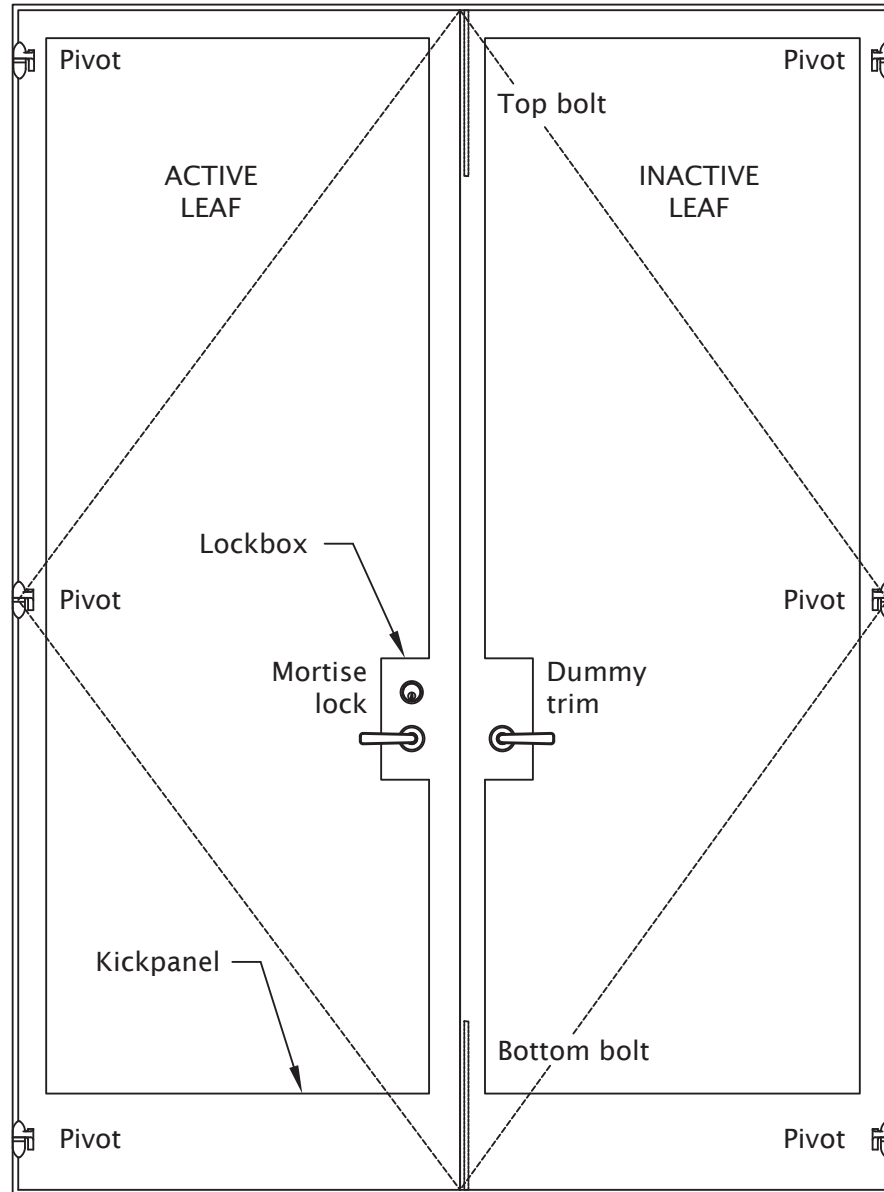
FRICTION ADJUSTER SIDE HUNG-IN

Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"

Details are 1/4 scale.



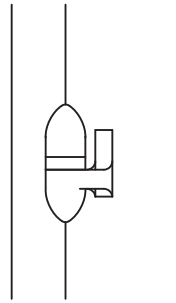
Elevations are viewed from the exterior. Elevations are not to scale.



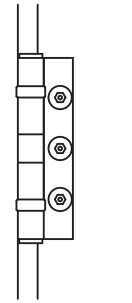
Elevations are viewed from the exterior. Elevations are not to scale.

PIVOT/HINGE

- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)
- #1000HD
Heavy duty 5-knuckle ball-bearing hinge screw attached to door and frame with tamper resistant screws



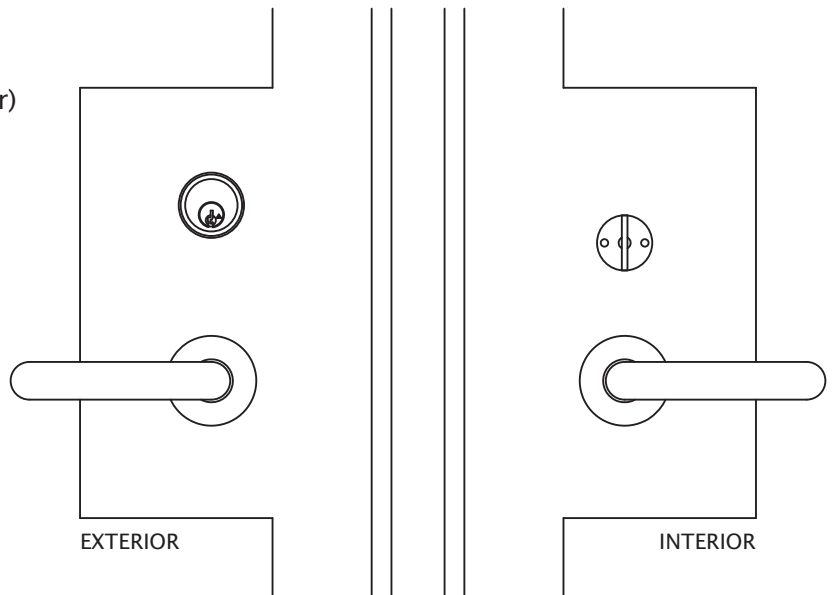
#237 PIVOT



#1000HD

MORTISE LOCK

- #L9453 ENTRANCE LOCK including:
 - Lever handles (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- #12A LEVER HANDLE (standard)
- Available finishes:
 - US10B Oil Rubbed Bronze
 - US26D Satin Chrome Plated
- Additional mortise lock features:
 - Heavy duty lock
 - Largest variety of lock functions
 - Lockbox cuts into glass
 - 10 lever design choices
 - Rose and escutcheon trim choices



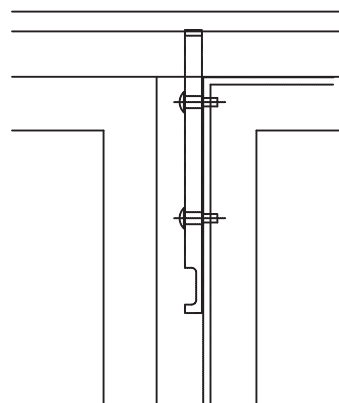
EXTERIOR

INTERIOR

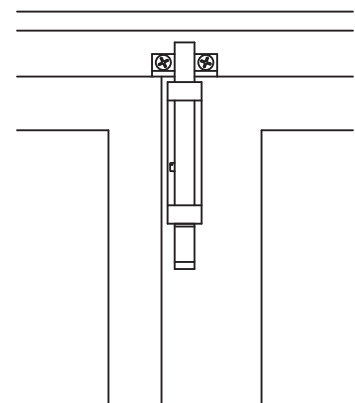
TOP & BOTTOM BOLTS

(Double doors only)

- #19-156M1 (concealed)
- #20-50M1 (exposed)
- Mounted on the inactive leaf
- 6" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations
- Available finishes:
 - US10B Oil Rubbed Bronze
 - US26D Satin Chrome Plated



#19-156M1
(concealed)
INTERIOR VIEW

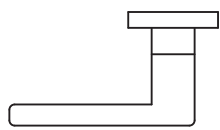
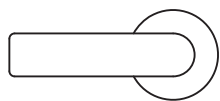


#20-50M1
(exposed)
INTERIOR VIEW

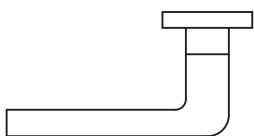
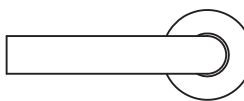
Details are 1/4 scale.

ROSE TRIMS

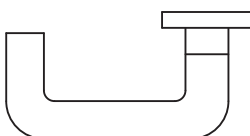
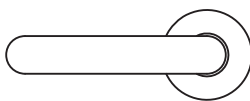
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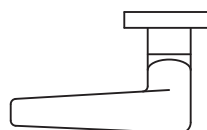
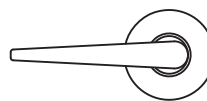
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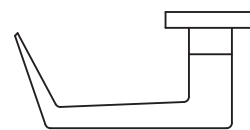
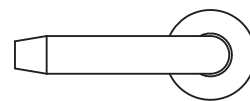
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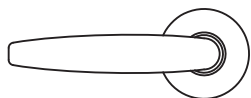
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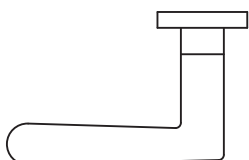
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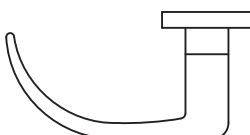
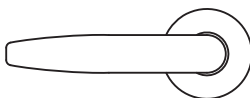
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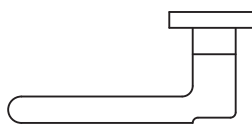
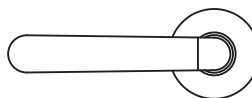
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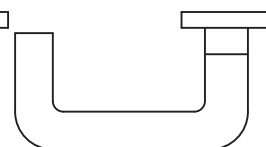
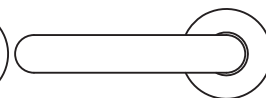
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18



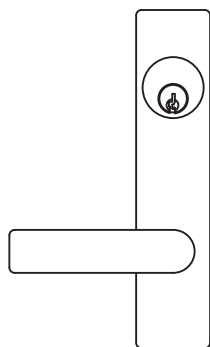
93



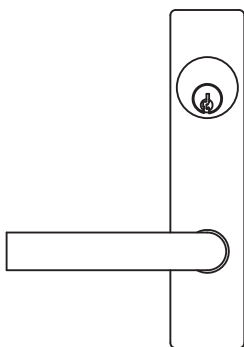
Details are 1/4 scale.

ESCUTCHEON TRIMS

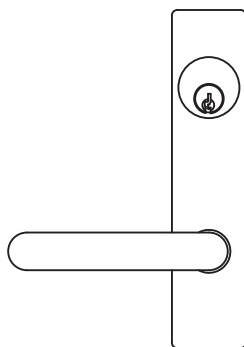
01L



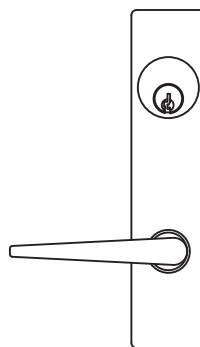
02L



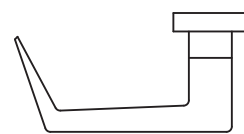
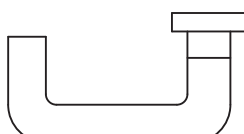
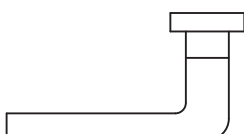
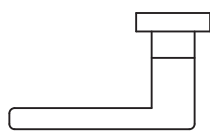
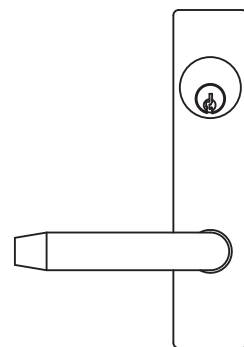
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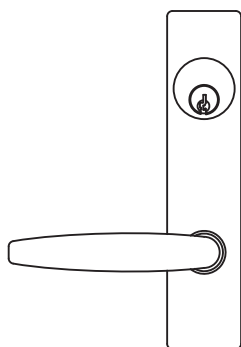
05L



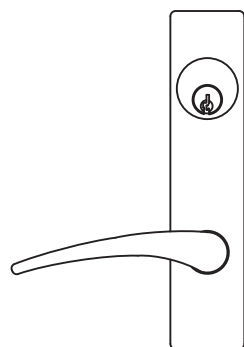
06L



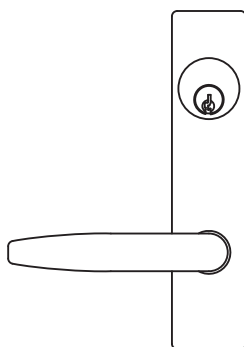
07L



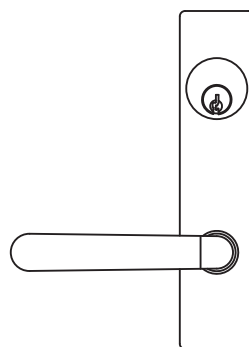
12L



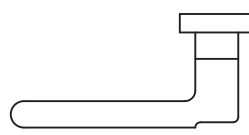
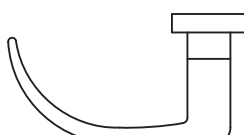
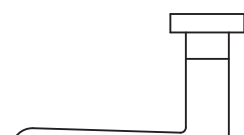
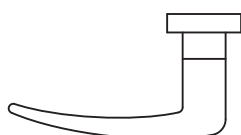
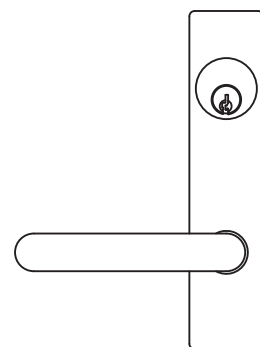
17L



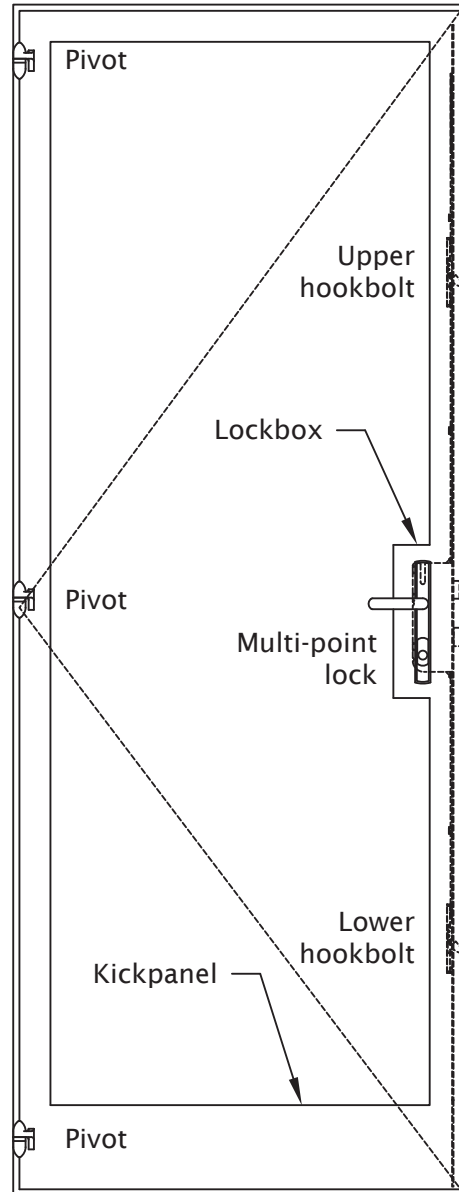
18L



93L

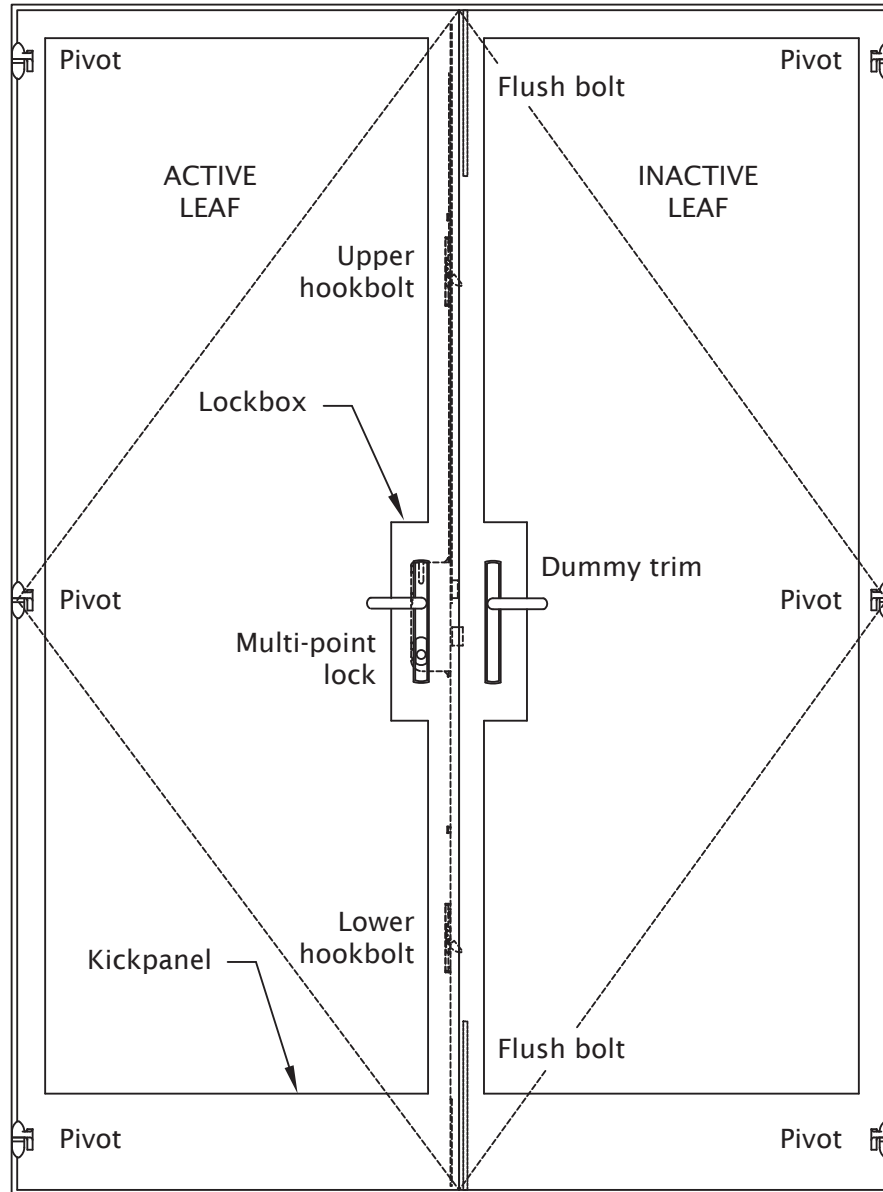


Details are 1/4 scale.



Horizontal muntins or a full height lock stile are available when notching glass is not an option.
Hurricane impact doors require a full height lock stile.

Elevations are viewed from the exterior. Elevations are not to scale.

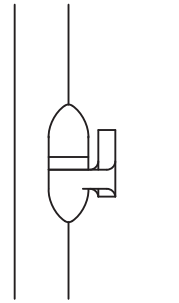


Horizontal muntins or a full height lock stile are available when notching glass is not an option.
Hurricane impact doors require a full height lock stile.

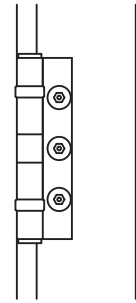
Elevations are viewed from the exterior. Elevations are not to scale.

PIVOT/HINGE

- #237 PIVOT
Brass-bearing with decorative knuckle design welded to door and frame (painted to match finish)
- #1000HD
Heavy duty 5-knuckle ball-bearing hinge screw attached to door and frame with tamper resistant screws — The #1000HD hinge is generally used in extreme size or traffic situations — consult Hope's



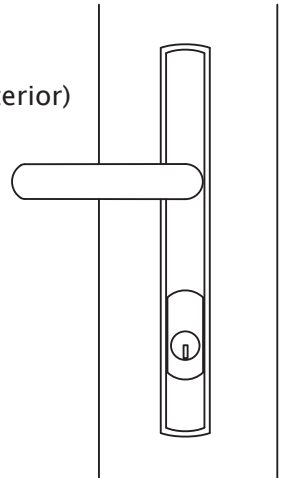
#237 PIVOT



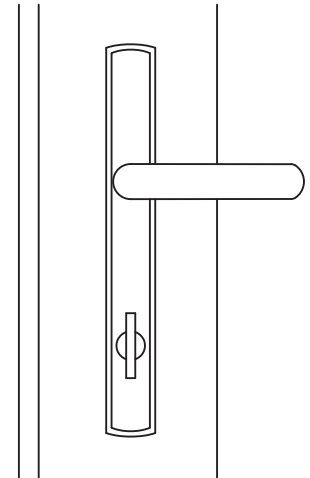
#1000HD

MULTI-POINT LOCK

- Entrance function including:
 - Lever handles & escutcheon (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- Available finishes:
 - US10B Oil Rubbed Bronze
 - US26D Satin Chrome Plated
- Additional multi-point lock features:
 - Added security and performance with multi-point hookbolt type latching
 - Full height stile
 - Handle above key cylinder
 - Required for hurricane impact approved doors
 - 4 lever design choices
 - 2 escutcheon design choices



EXTERIOR

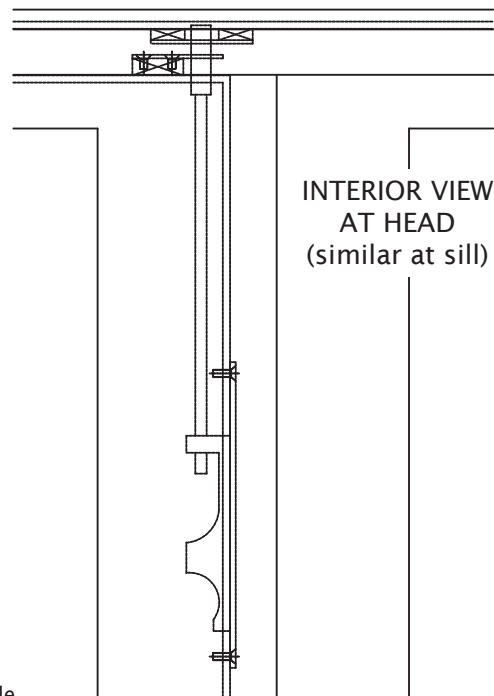


INTERIOR

FLUSH BOLTS

(Double doors only)

- Concealed
- Mounted on the inactive leaf
- 12" at sill
- 12" at head (up to 7' 6")
- 18" at head (7' 6" to 8' 0")
- 24" at head (8' 0" to 8' 6")
- Consult Hope's for size variations
- Available finishes:
 - US10B Oil Rubbed Bronze
 - US26D Satin Chrome Plated

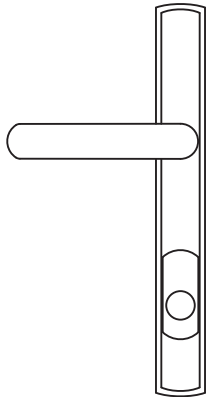


INTERIOR VIEW
AT HEAD
(similar at sill)

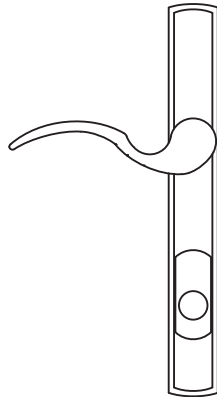
Details are 1/4 scale.

ESCUTCHEON TRIMS

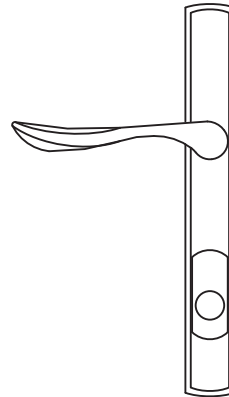
ESCUTCHEON
Size - 1.10" x 8.66"



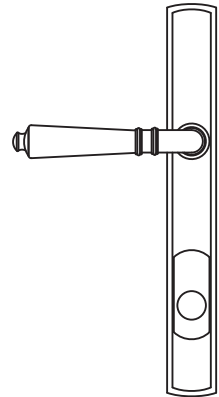
4100M



4100C

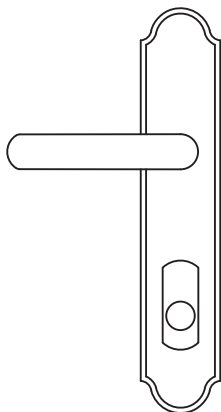


4100V

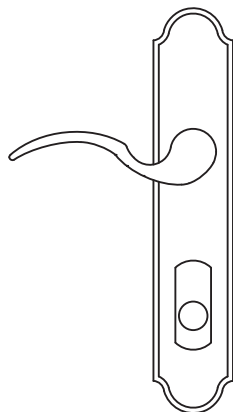


4100F

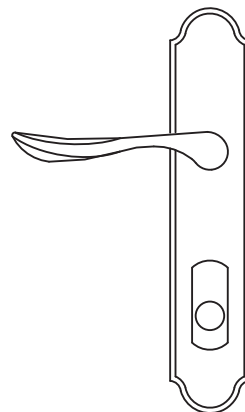
ESCUTCHEON
Size - 1.81" x 8.94"



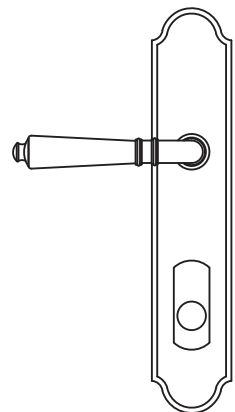
5100M



5100C



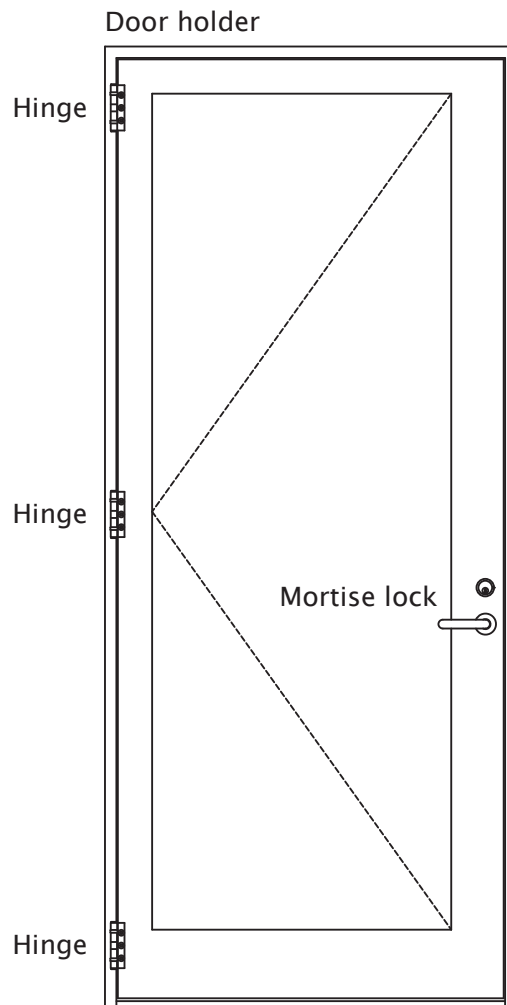
5100V



5100F

Details are 1/4 scale.

SINGLE DOOR - MORTISE LOCK



STANDARD HARDWARE

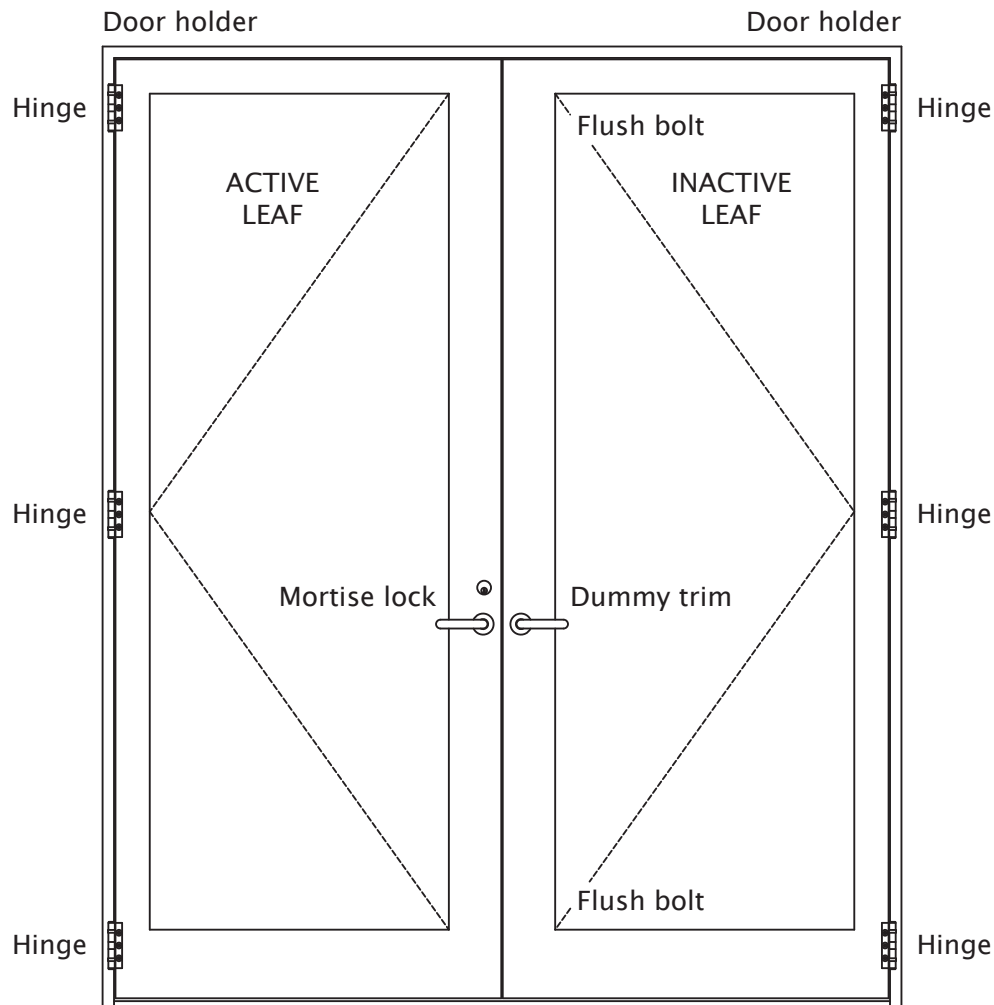
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 bronze full mortise ball-bearing
- MORTISE LOCK
 - #L9453 x 12A lever handle
 - Key cylinder (exterior)
 - Thumbturn (interior)
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #300 Series stainless steel
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - MORTISE LOCK



STANDARD HARDWARE

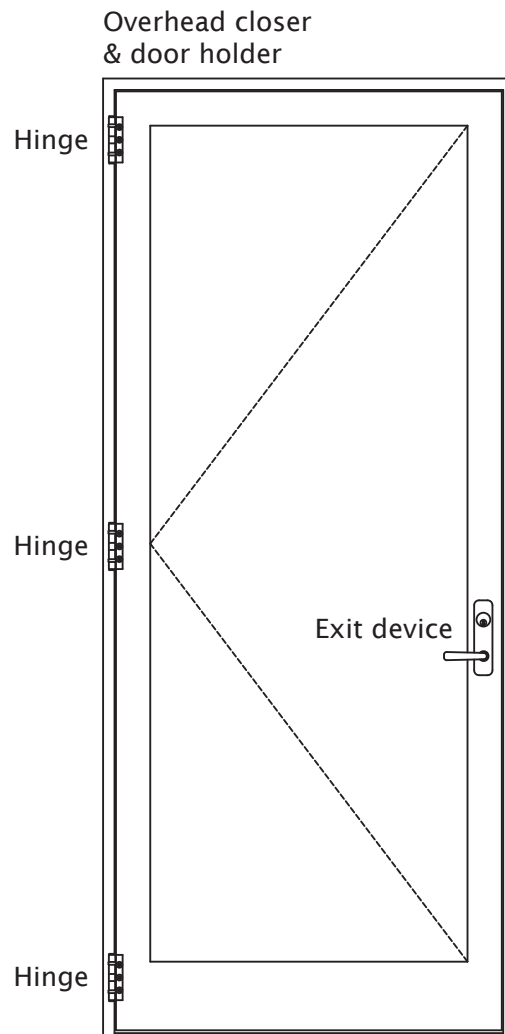
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 bronze full mortise ball-bearing
- MORTISE LOCK
 - #L9453 x 12A lever handle
 - Key cylinder (exterior)
 - Thumbturn (interior)
- DUMMY TRIM
 - #L0172 x 12A lever handle
- FLUSH BOLTS
 - #FB6
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #300 Series stainless steel
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series
- COORDINATOR (with closer)
 - COR Series

Elevations are not to scale.

SINGLE DOOR - EXIT DEVICE



STANDARD HARDWARE

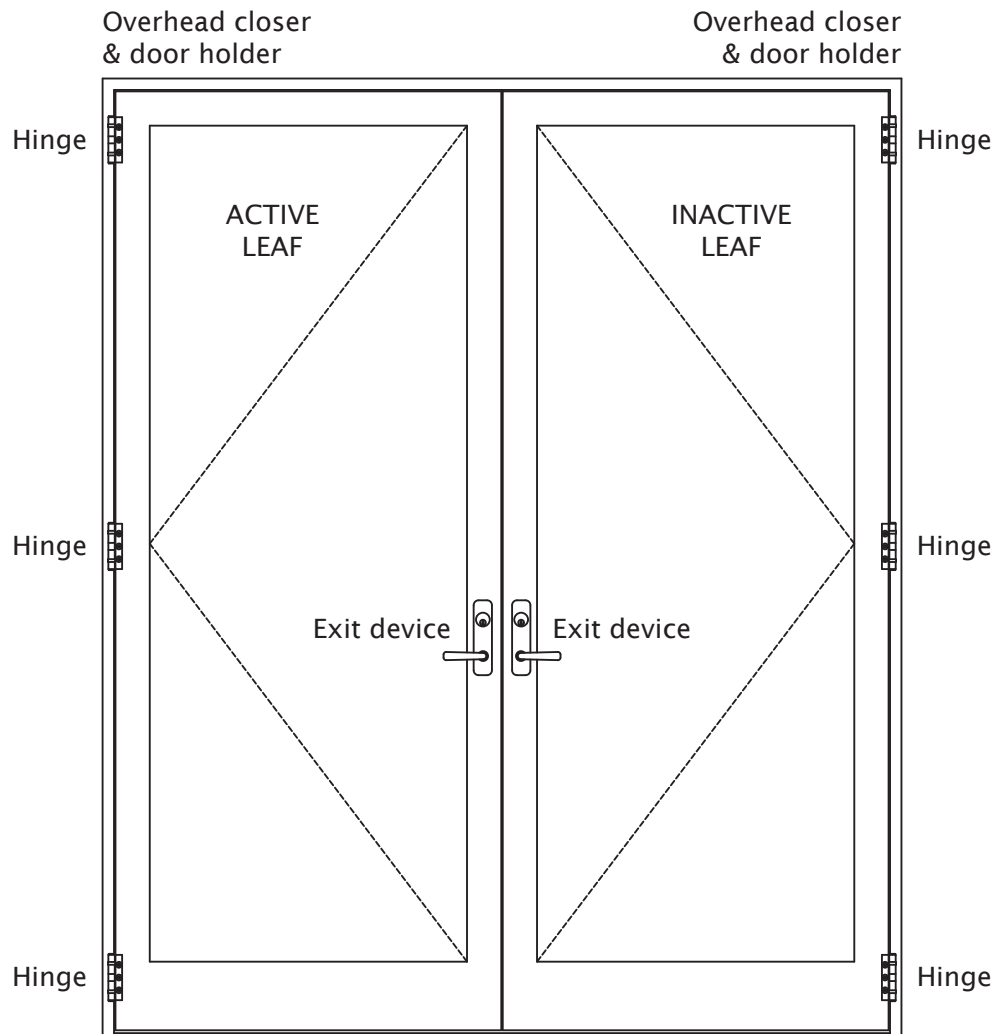
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 bronze full mortise ball-bearing
- RIM EXIT DEVICE
 - #33A-L Series x 12 handle
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #300 Series stainless steel
- EXPOSED ROD EXIT DEVICE
 - #3327A-L Series x 12 handle
- CONCEALED ROD EXIT DEVICE
 - #3347A-L Series x 12 handle
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - EXIT DEVICE



STANDARD HARDWARE

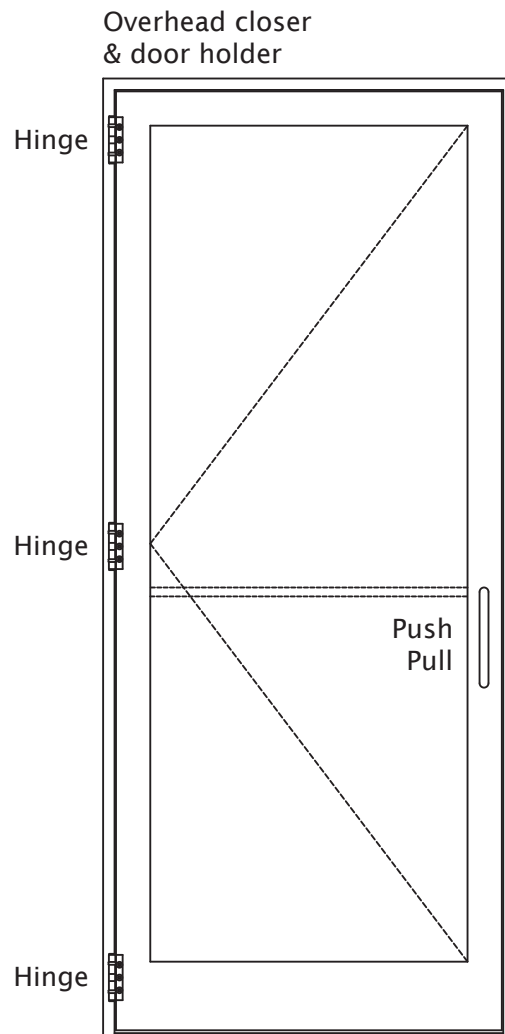
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 bronze full mortise ball-bearing
- EXPOSED ROD EXIT DEVICE
 - #3327A-L Series x 12 handle
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #300 Series stainless steel
- CONCEALED ROD EXIT DEVICE
 - #3347A-L Series x 12 handle
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

SINGLE DOOR - PUSH/PULL



STANDARD HARDWARE

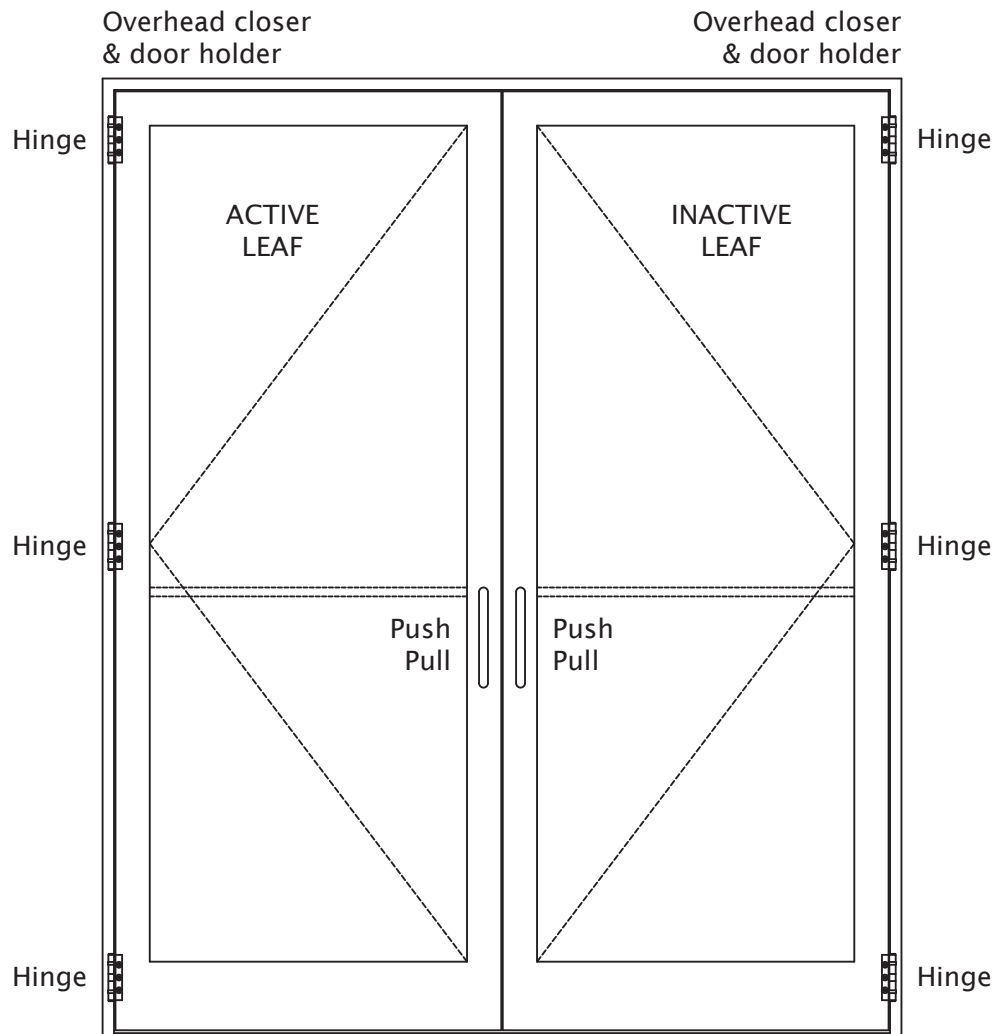
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 bronze full mortise ball-bearing
- PUSH / PULL
 - #11147
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #300 Series stainless steel
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - PUSH/PULL



STANDARD HARDWARE

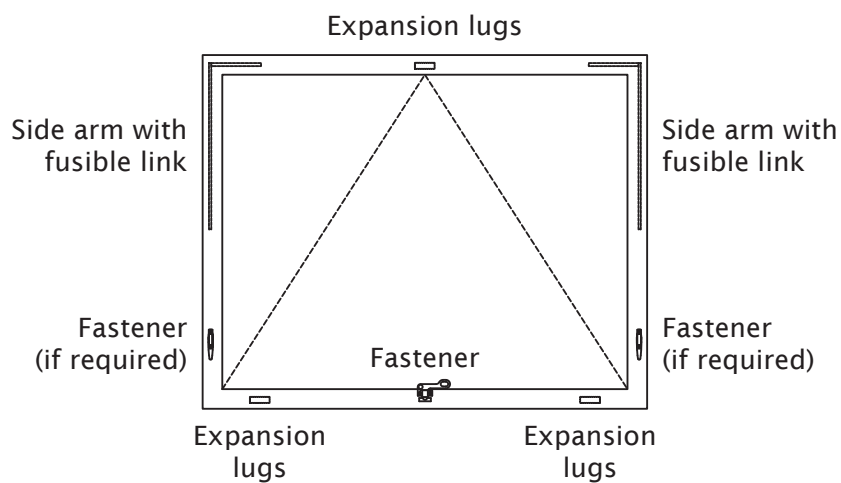
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 bronze full mortise ball-bearing
- PUSH / PULL
 - #11147
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

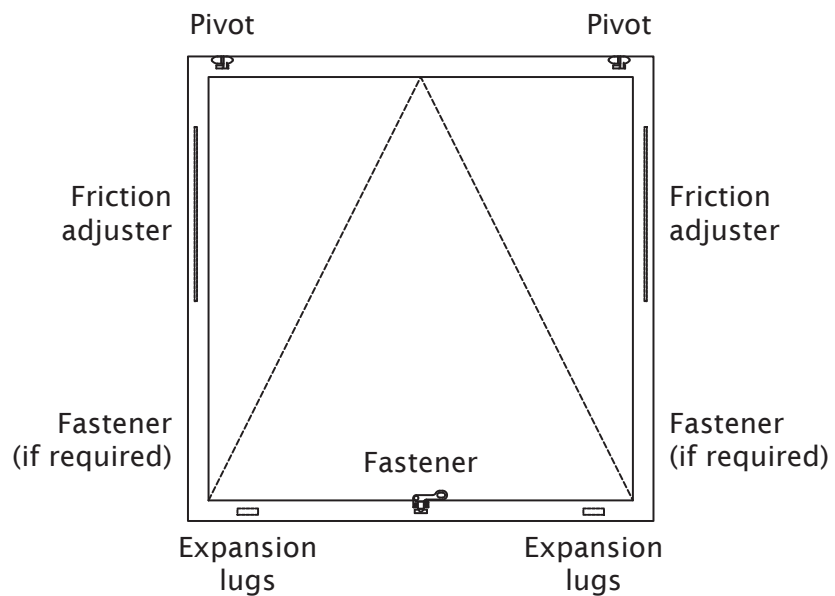
- CONTINUOUS HINGE
 - #300 Series stainless steel
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

PROJECT-OUT

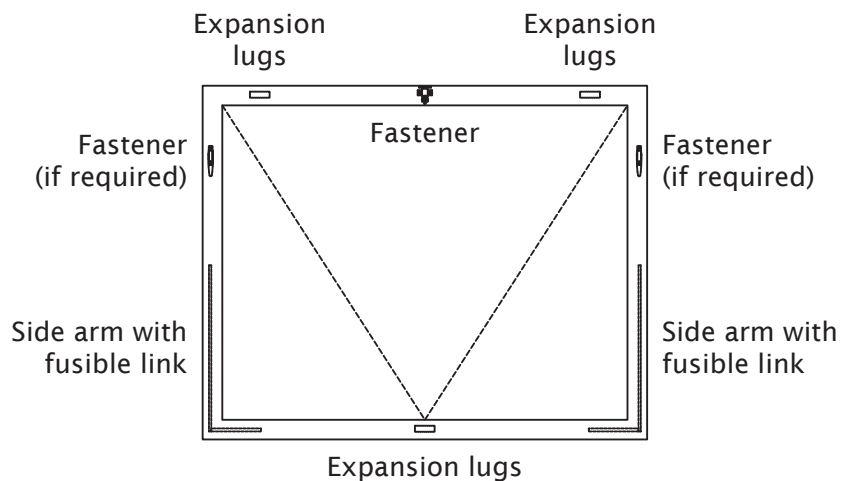


TOP HUNG-OUT

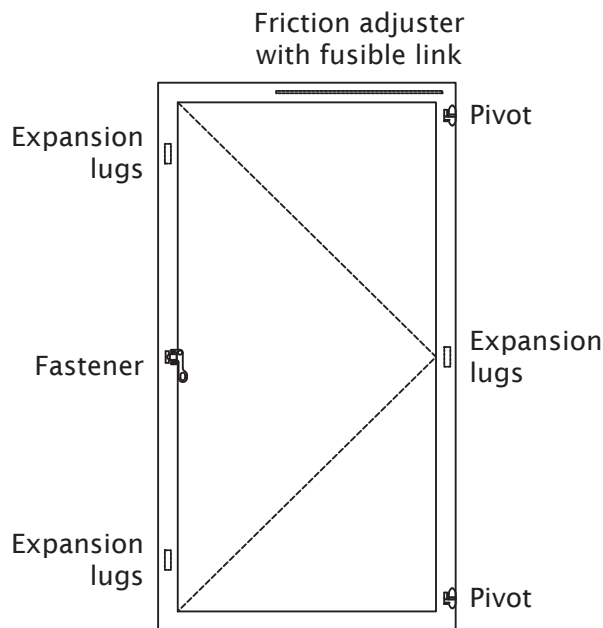


Elevations are viewed from the interior. Elevations are not to scale.

PROJECT-IN



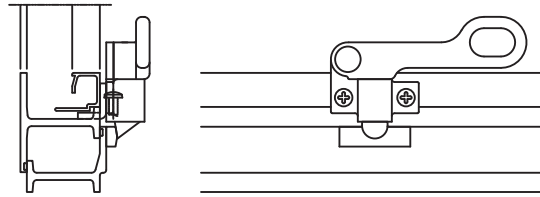
SIDE HUNG-OUT or IN



Elevations are viewed from the interior. Elevations are not to scale.

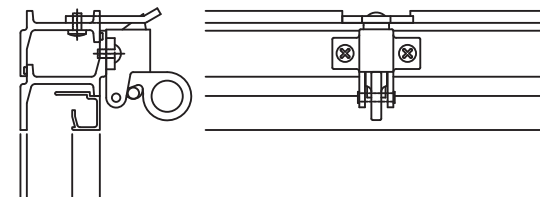
PROJECT-OUT or TOP HUNG-OUT

#364 Fastener



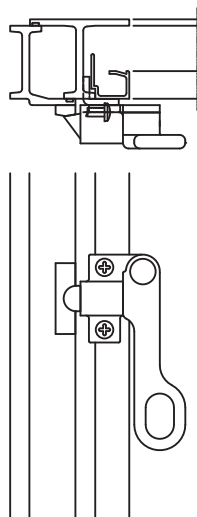
PROJECT-IN

#456 Spring Catch



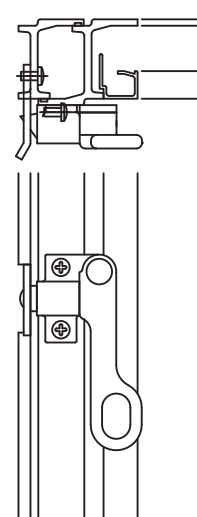
SIDE HUNG-OUT

#364
Fastener



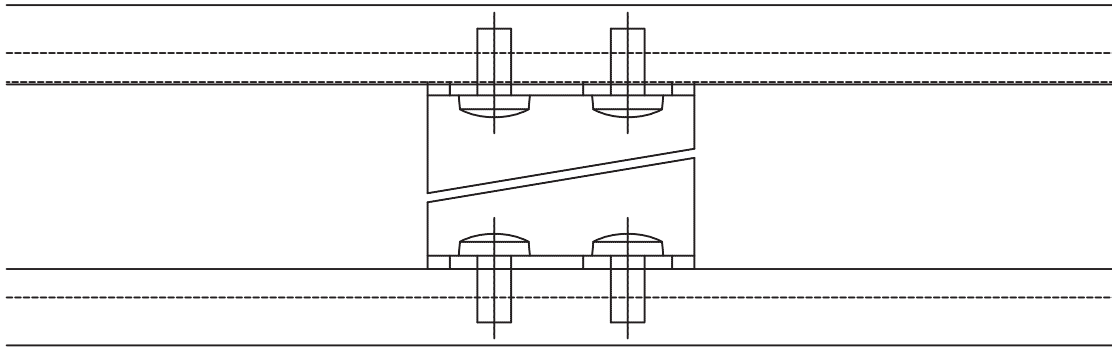
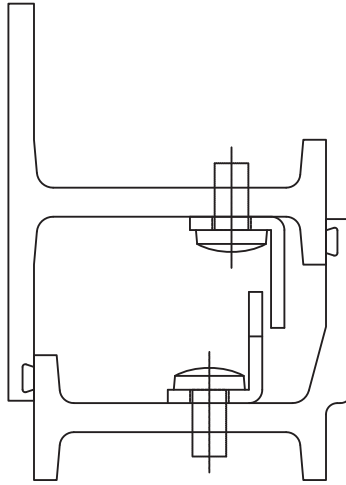
SIDE HUNG-IN

#364
Fastener



All hardware on this page is cast from solid red or white bronze.

Details are 1/4 scale.



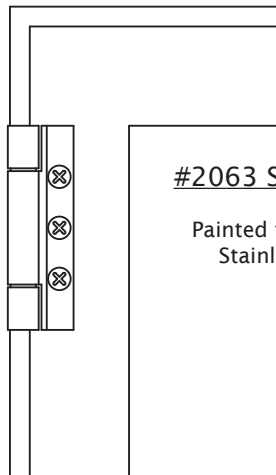
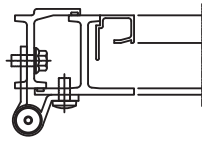
#285 EXPANSION LUGS

Welded to vent and frame
Designed to expand and overlap during
a fire to lock vent to frame

All hardware on this page is cast from solid red or white bronze.

Details are full scale.

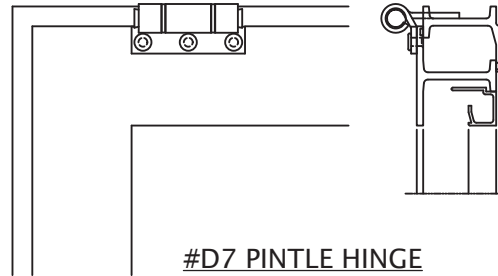
SIDE HUNG-OUT or IN



#2063 SPRING HINGE

Steel
Painted to match finish
Stainless Steel Pin

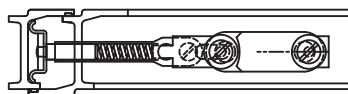
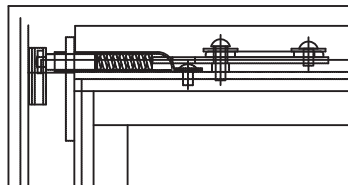
TOP HUNG-OUT



#D7 PINTLE HINGE

Steel with brass pin

PROJECT-OUT or IN

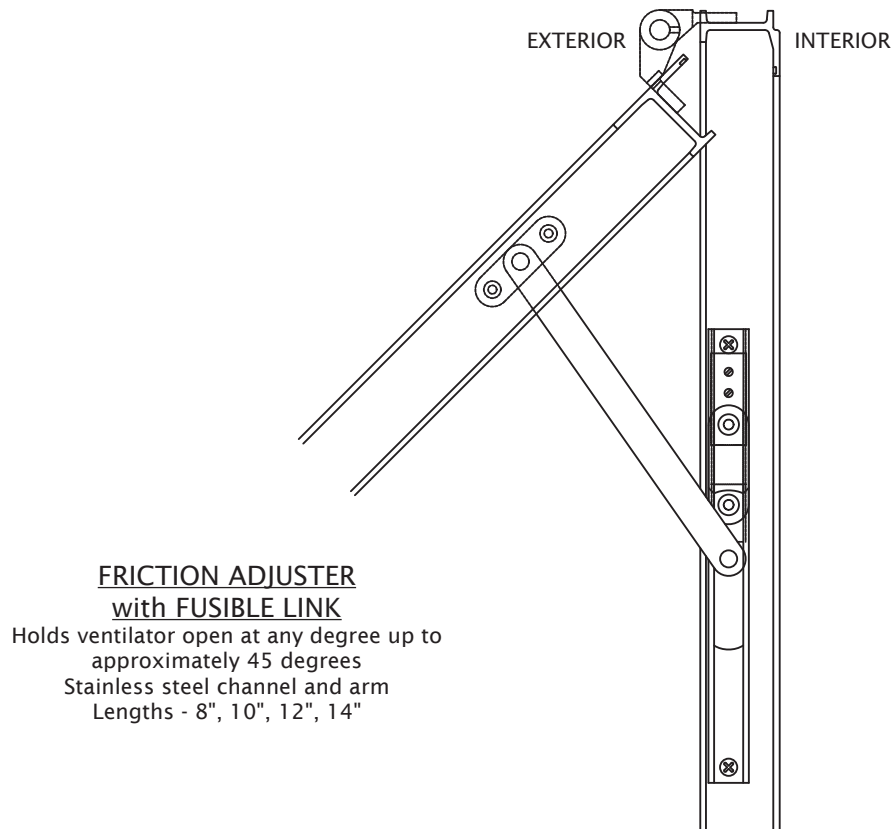


#L446 SIDE ARM ASSEMBLY
with **FUSIBLE LINK**

Steel / brass

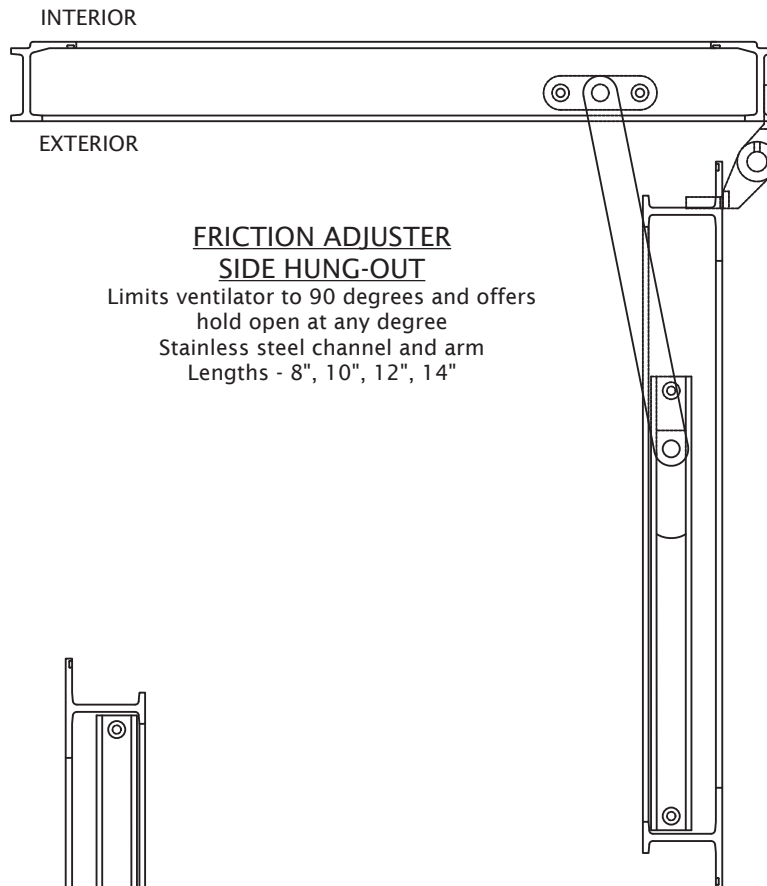
Details are 1/4 scale.

TOP HUNG-OUT



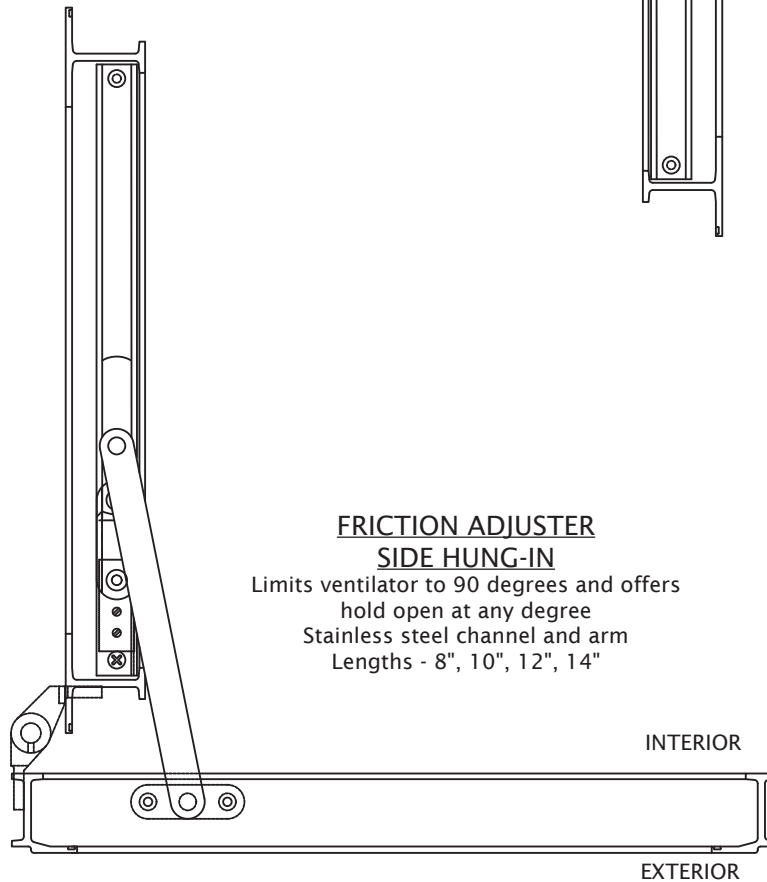
Details are 1/4 scale.

SIDE HUNG-OUT or IN



FRICTION ADJUSTER SIDE HUNG-OUT

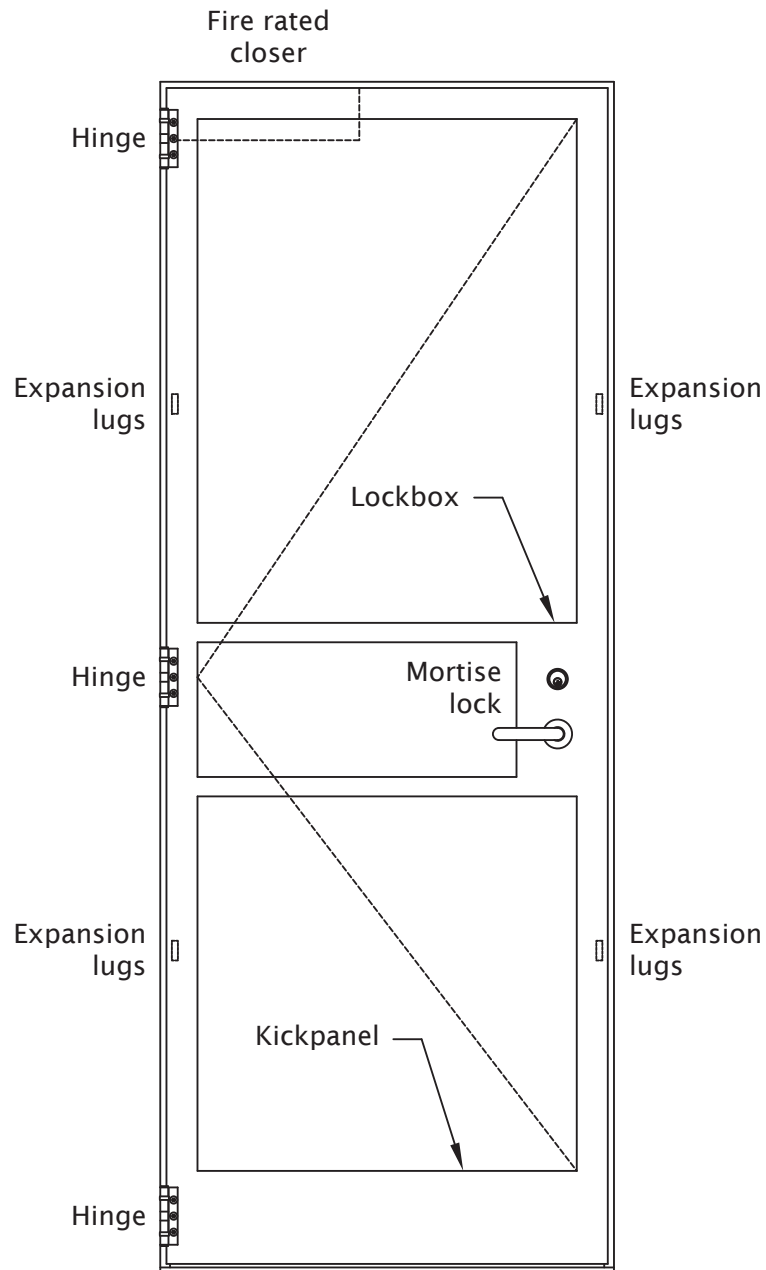
Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"



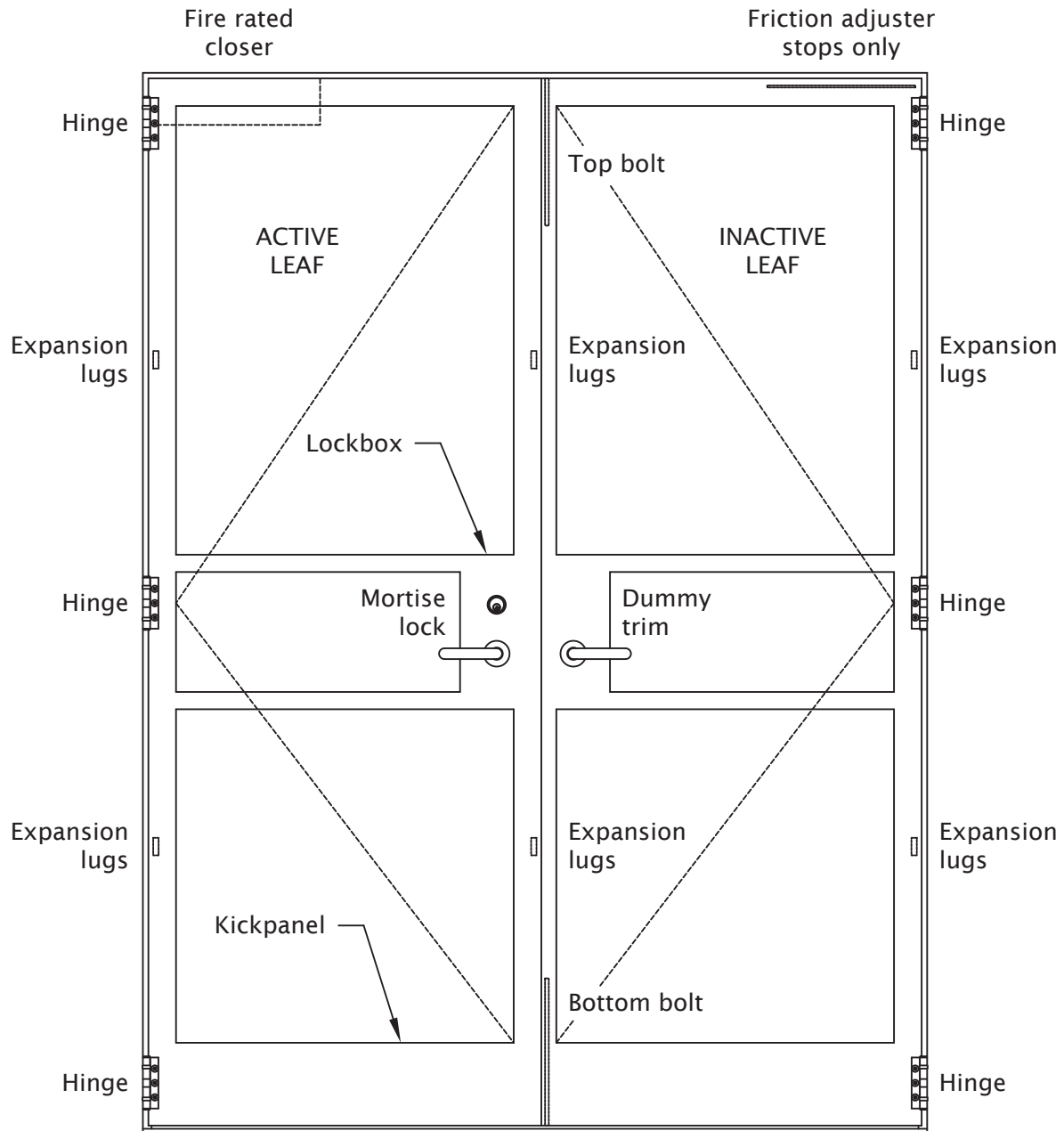
FRICTION ADJUSTER SIDE HUNG-IN

Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"

Details are 1/4 scale.

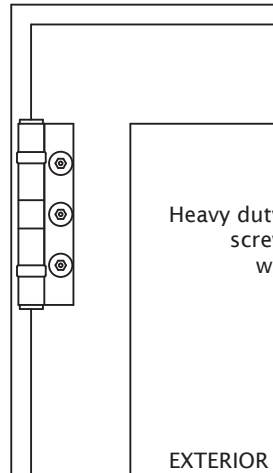
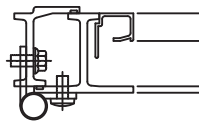


Elevations are viewed from the exterior. Elevations are not to scale.



Elevations are viewed from the exterior. Elevations are not to scale.

HINGES

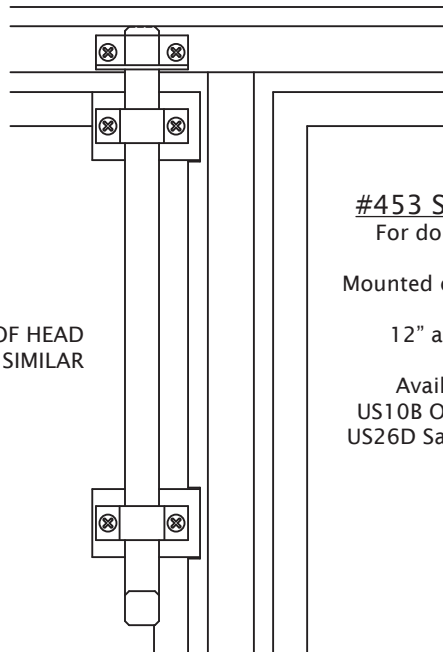


#1000HD-S HINGE

Heavy duty 5-knuckle steel ball-bearing hinge
screw attached to door and frame
with tamper resistant screws

EXTERIOR VIEW

SURFACE BOLT



INTERIOR VIEW OF HEAD
SILL IS SIMILAR

#453 SURFACE BOLT

For double doors only
Exposed
Mounted on the inactive leaf

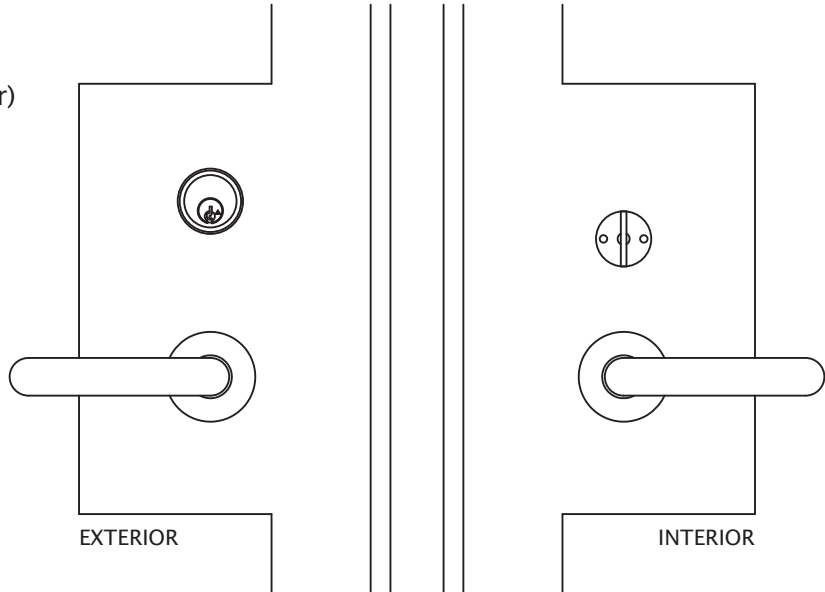
12" at head and sill

Available finishes:
US10B Oil Rubbed Bronze
US26D Satin Chrome Plated

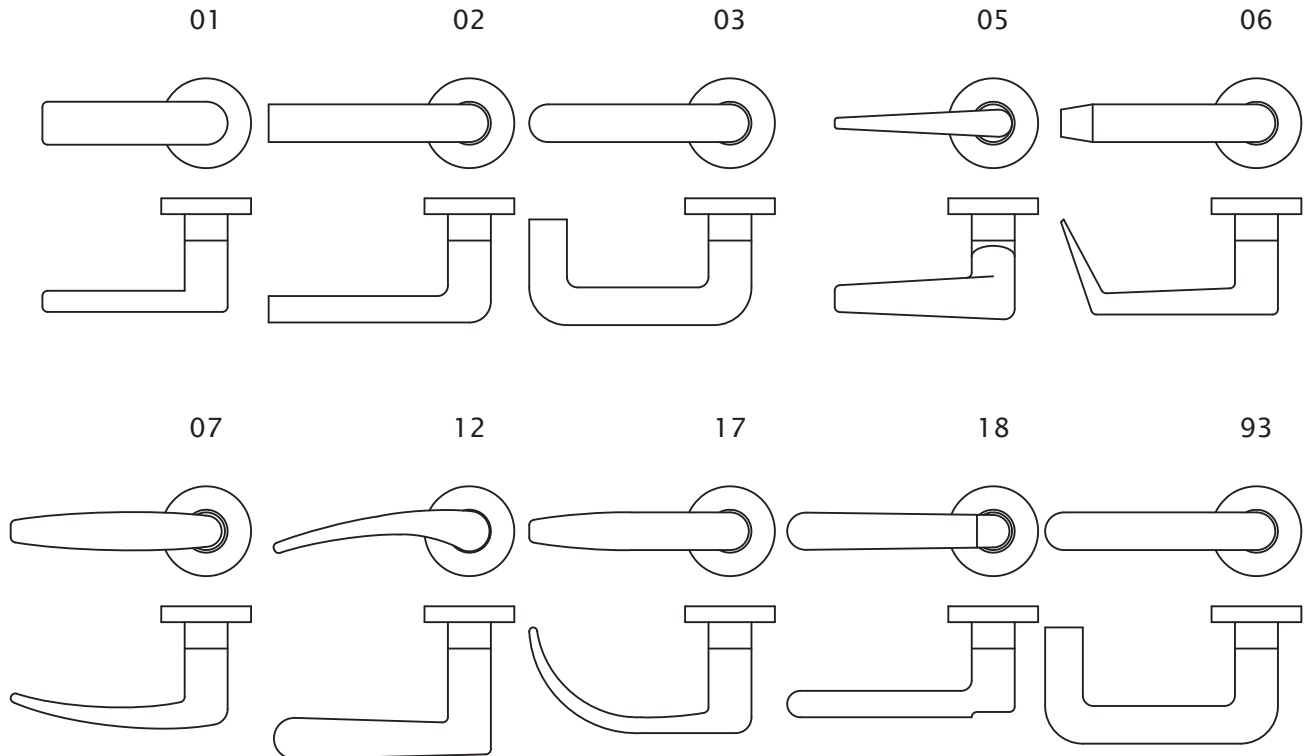
Details are 1/4 scale.

MORTISE LOCK

- #L9453 Entrance Lock including:
 - Lever handles (exterior & interior)
 - Key cylinder (exterior)
 - Thumbturn (interior)
- #12A Lever Handle (standard)
Available finishes:
 - US10B Oil Rubbed Bronze
 - US26D Satin Chrome Plated
- Additional mortise lock features:
 - "UL" listed
 - Heavy duty lock
 - Largest variety of lock functions
 - Lockbox cuts into glass
 - 10 lever design choices
 - Rose and escutcheon trim choices



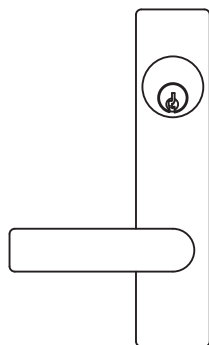
ROSE TRIMS



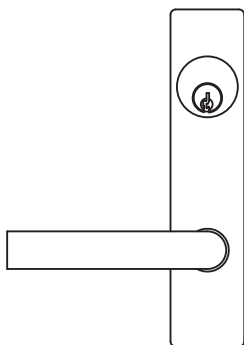
Elevations are viewed from the exterior. Details are 1/4 scale.

ESCUTCHEON TRIMS

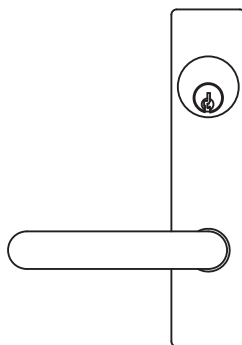
01L



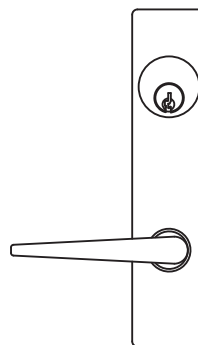
02L



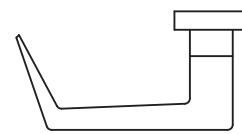
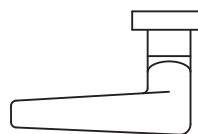
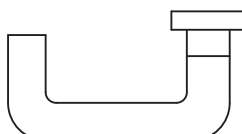
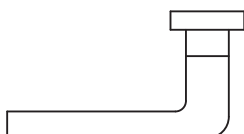
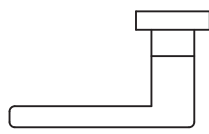
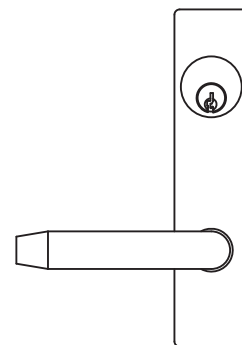
03L



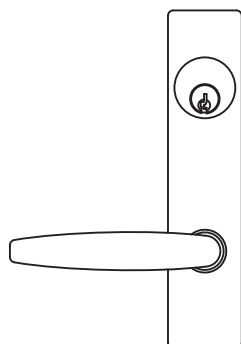
05L



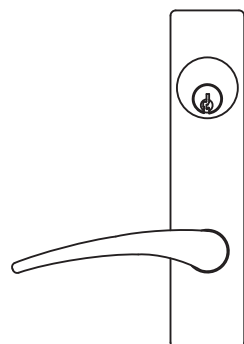
06L



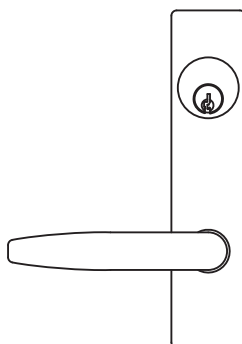
07L



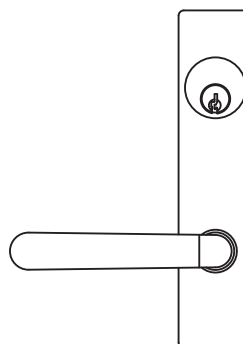
12L



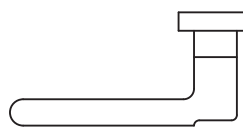
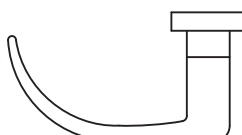
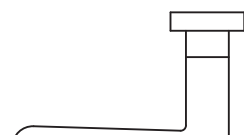
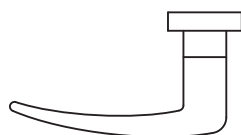
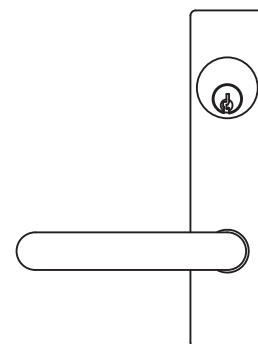
17L



18L

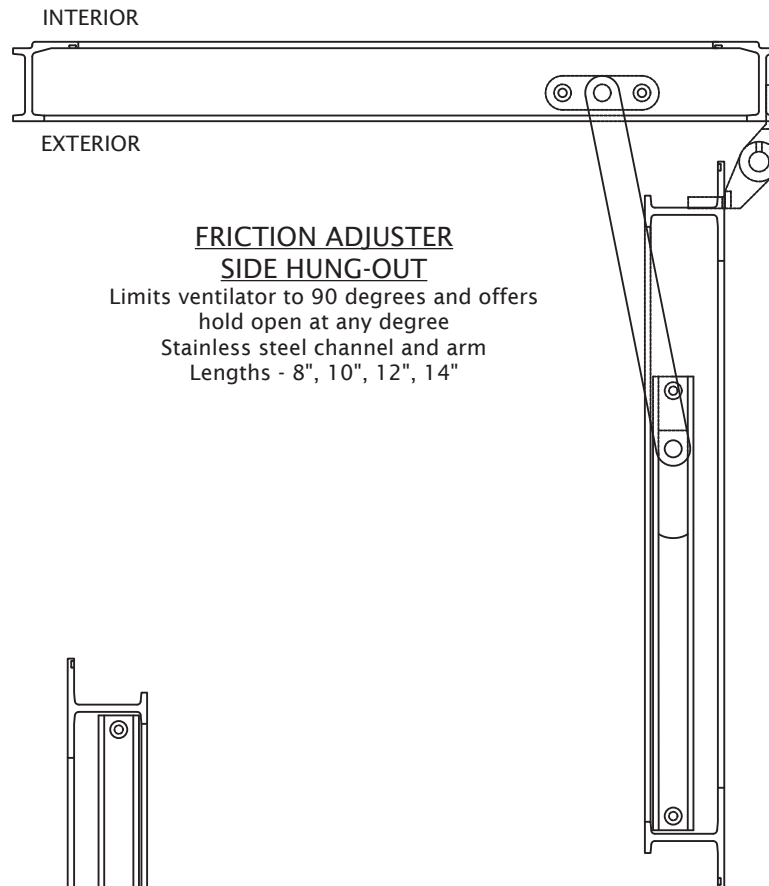


93L



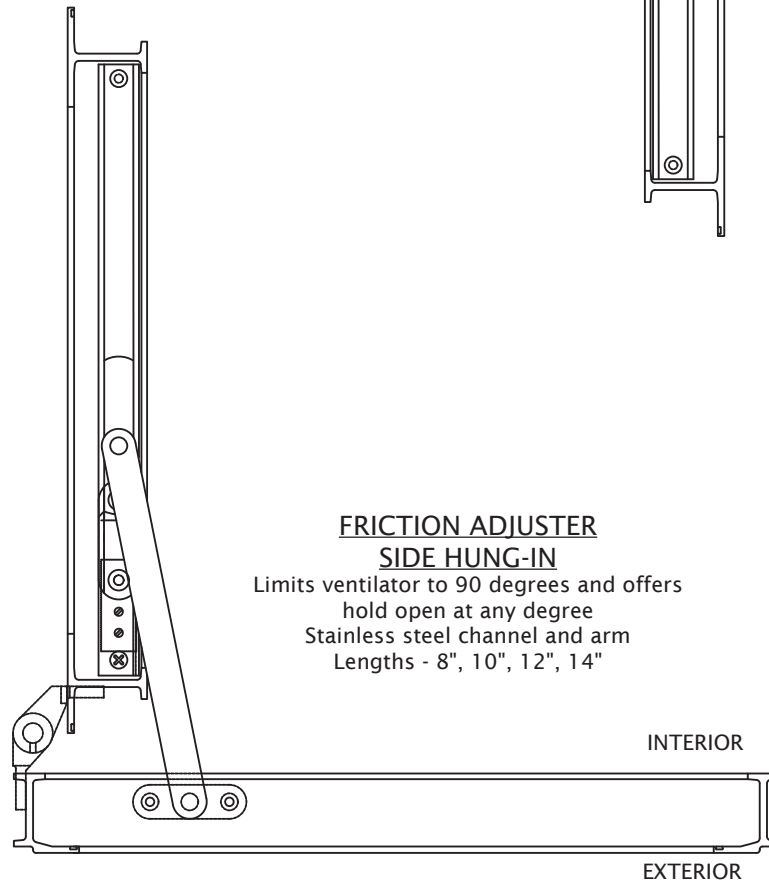
Details are 1/4 scale.

SIDE HUNG-OUT or IN



FRICTION ADJUSTER SIDE HUNG-OUT

Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"

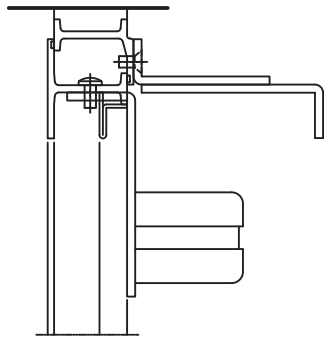


FRICTION ADJUSTER SIDE HUNG-IN

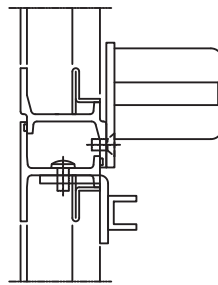
Limits ventilator to 90 degrees and offers
hold open at any degree
Stainless steel channel and arm
Lengths - 8", 10", 12", 14"

Details are 1/4 scale.

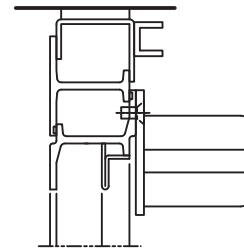
CLOSERS



**#1460
SWING-OUT**
Parallel arm mount

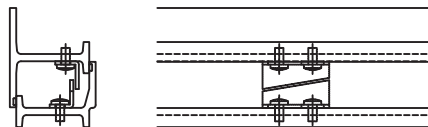


**#1460
SWING-OUT**
Over door mount
Transom above door



**#1460
SWING-IN**
Regular arm mount

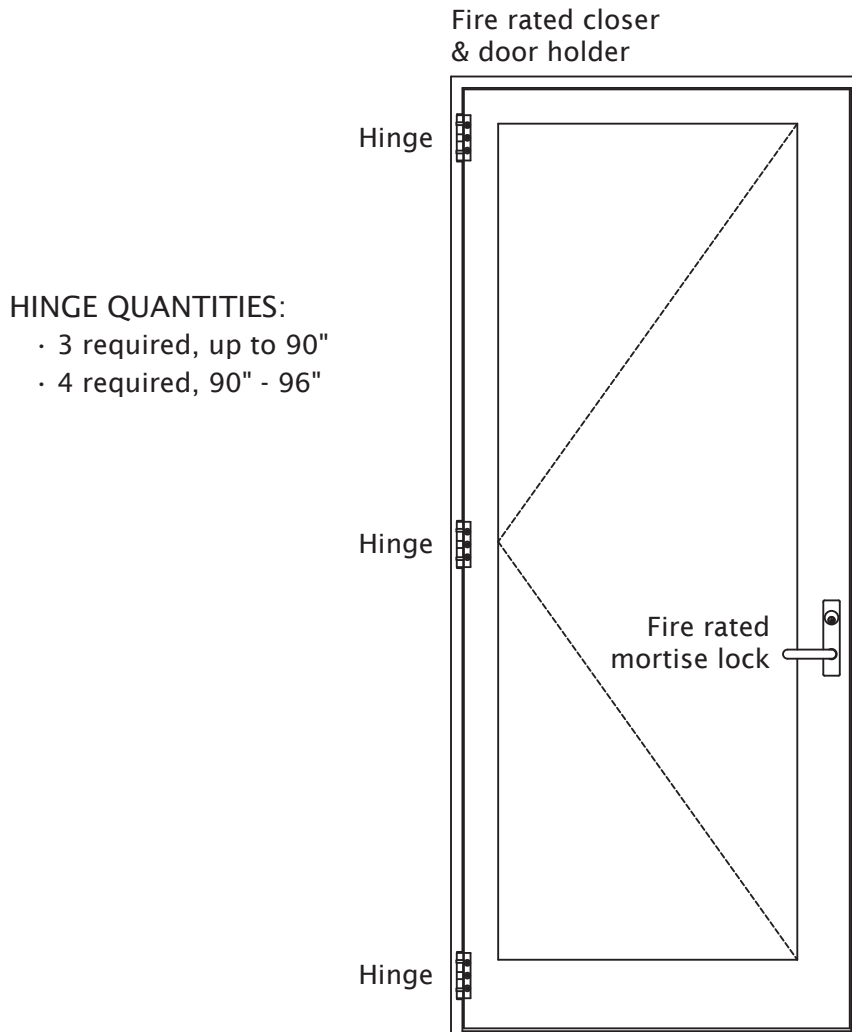
EXPANSION LUGS



#285 EXPANSION LUGS
Welded to door and frame
Designed to expand and overlap during
a fire to lock door to frame

Details are 1/4 scale.

SINGLE DOOR - NON FIRE EXIT



STANDARD HARDWARE

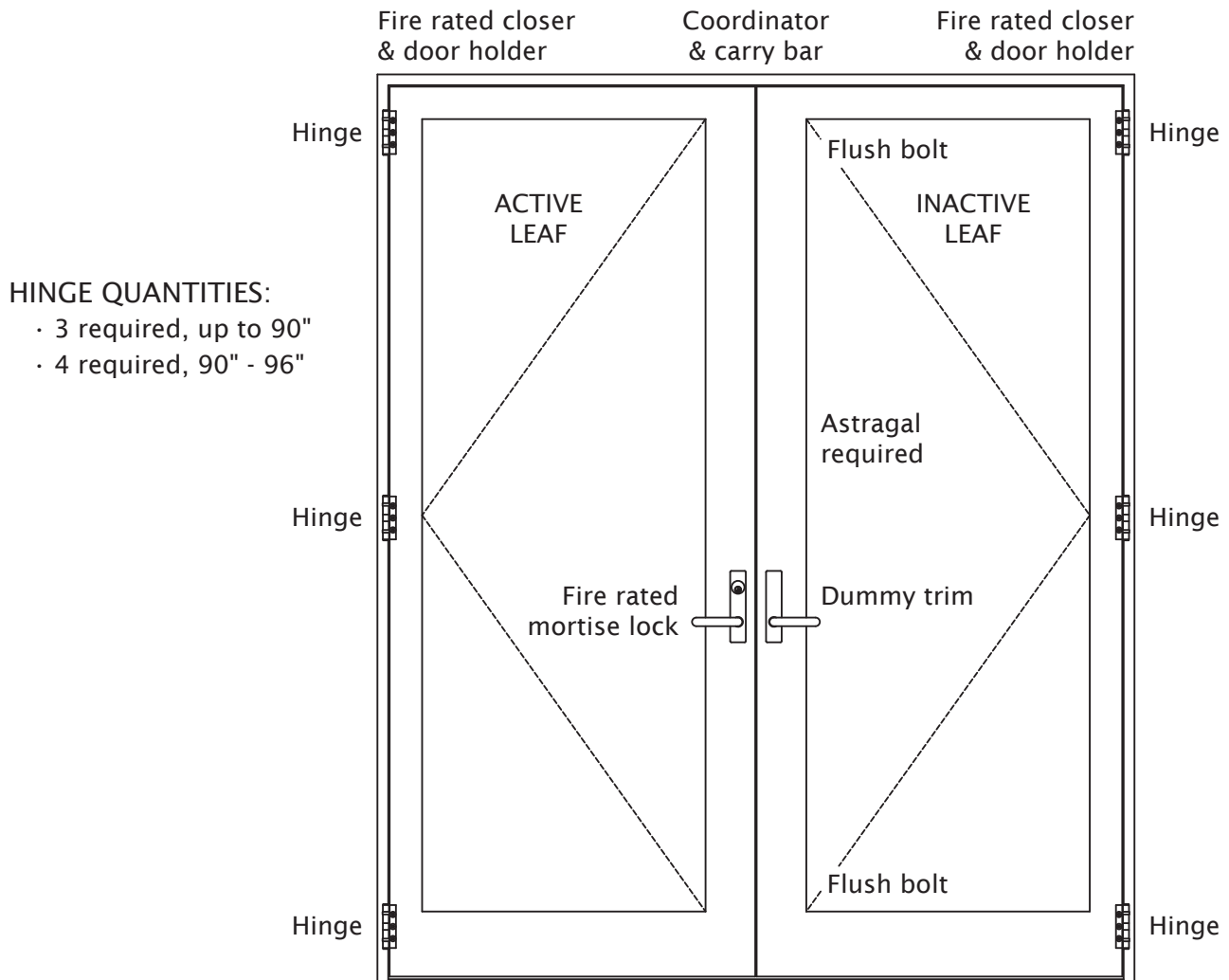
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- MORTISE LOCK
 - #L9453 x 12A lever handle/rosette
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - NON FIRE EXIT



HINGE QUANTITIES:

- 3 required, up to 90"
- 4 required, 90" - 96"

STANDARD HARDWARE

- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- MORTISE LOCK
 - #L9453 x 12A lever handle/rosette
- DUMMY TRIM
 - #L0172 x 12A lever handle/rosette
- FLUSH BOLTS
 - #FB6 concealed
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

STANDARD HARDWARE (cont)

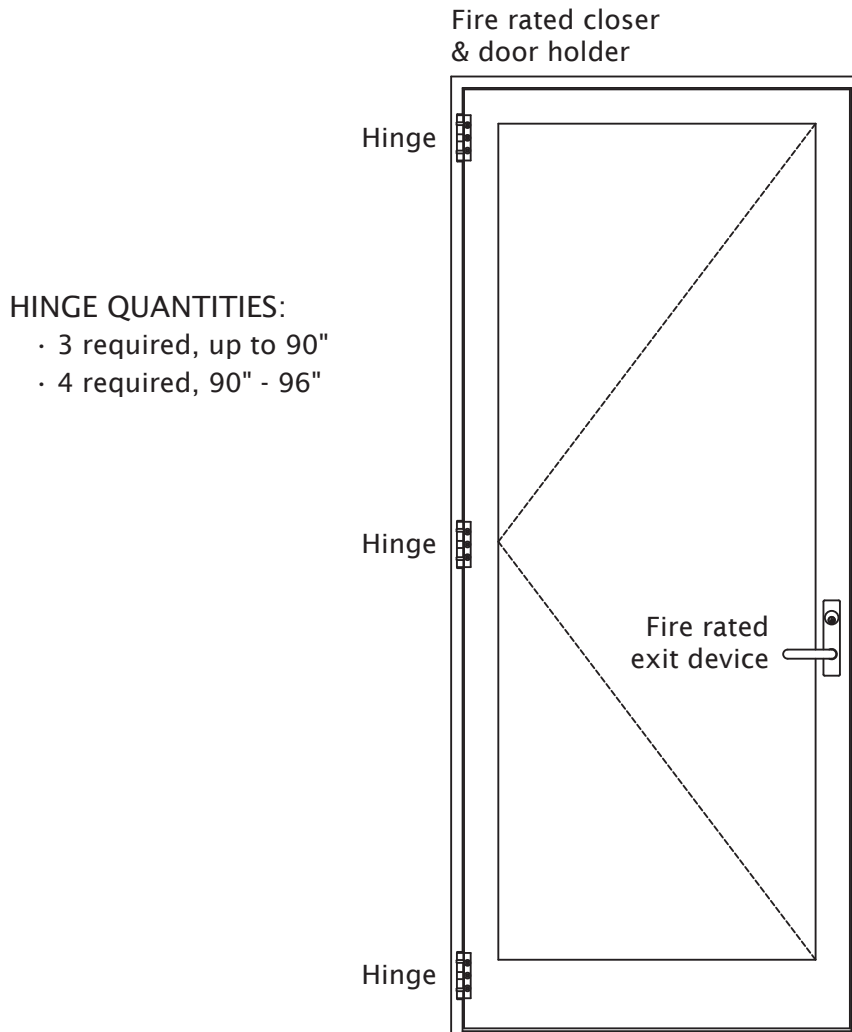
- COORDINATOR
 - COR Series
- CARRY BAR
 - #CB-1

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

SINGLE DOOR - SINGLE POINT FIRE EXIT



HINGE QUANTITIES:

- 3 required, up to 90"
- 4 required, 90" - 96"

STANDARD HARDWARE

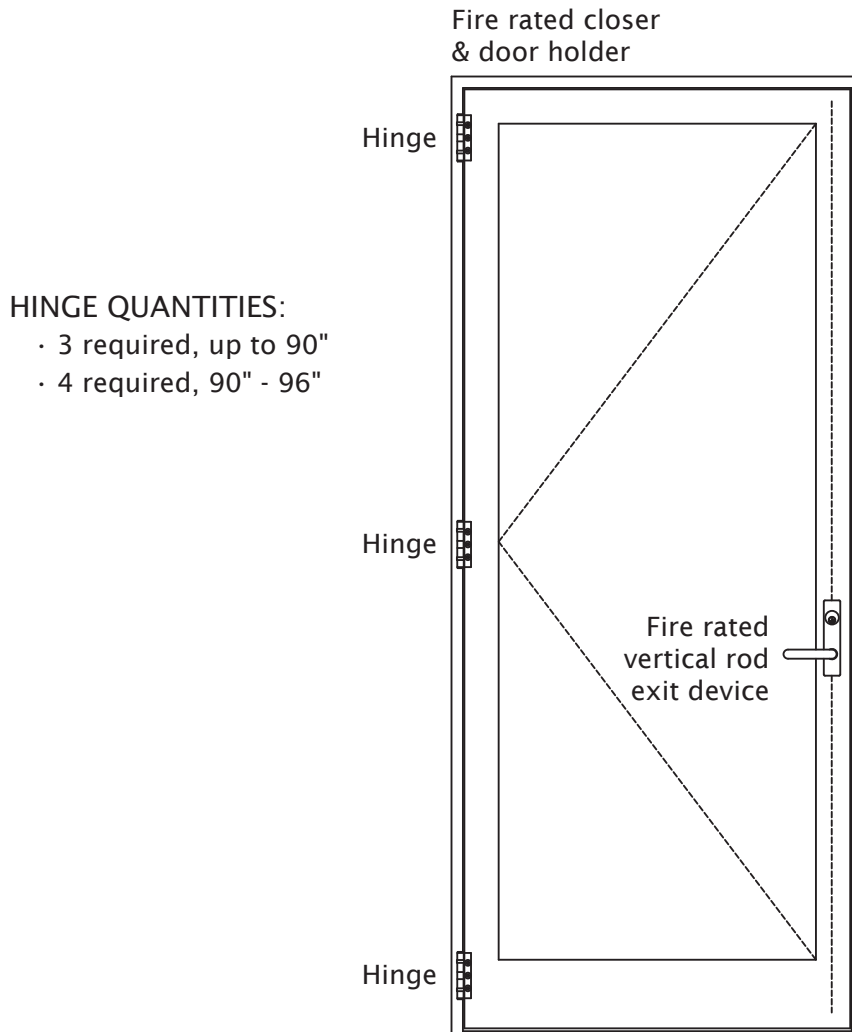
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- RIM EXIT DEVICE
 - #99-F Series x 12 handle
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- MORTISE LOCK EXIT DEVICE
 - #9975-F Series x 12 handle
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

SINGLE DOOR - TWO POINT FIRE EXIT



HINGE QUANTITIES:

- 3 required, up to 90"
- 4 required, 90" - 96"

STANDARD HARDWARE

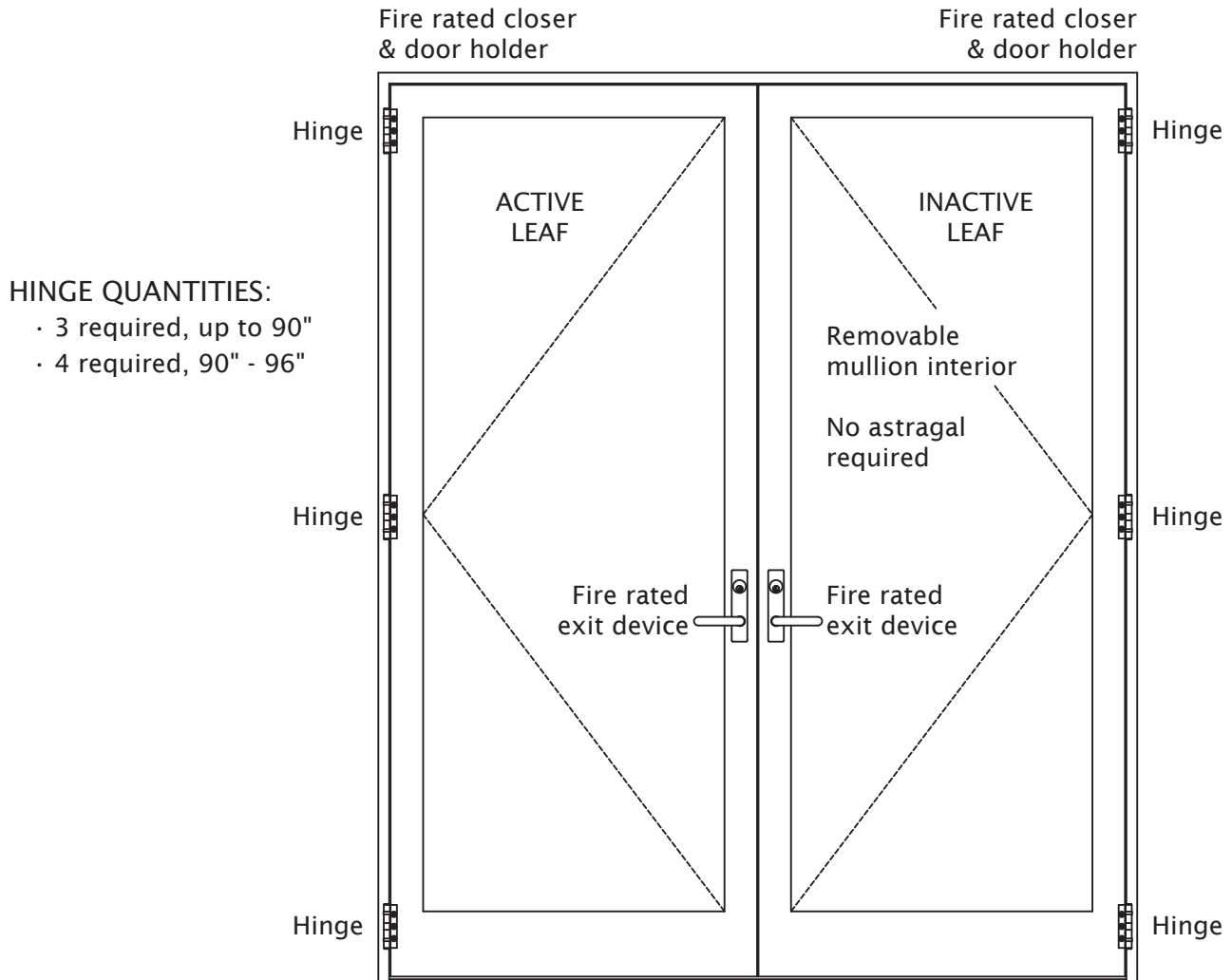
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- EXPOSED ROD EXIT DEVICE
 - #9927-F Series x 12 handle
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- CONCEALED ROD EXIT DEVICE
 - #9947-F Series x 12 handle
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - SINGLE POINT FIRE EXIT



STANDARD HARDWARE

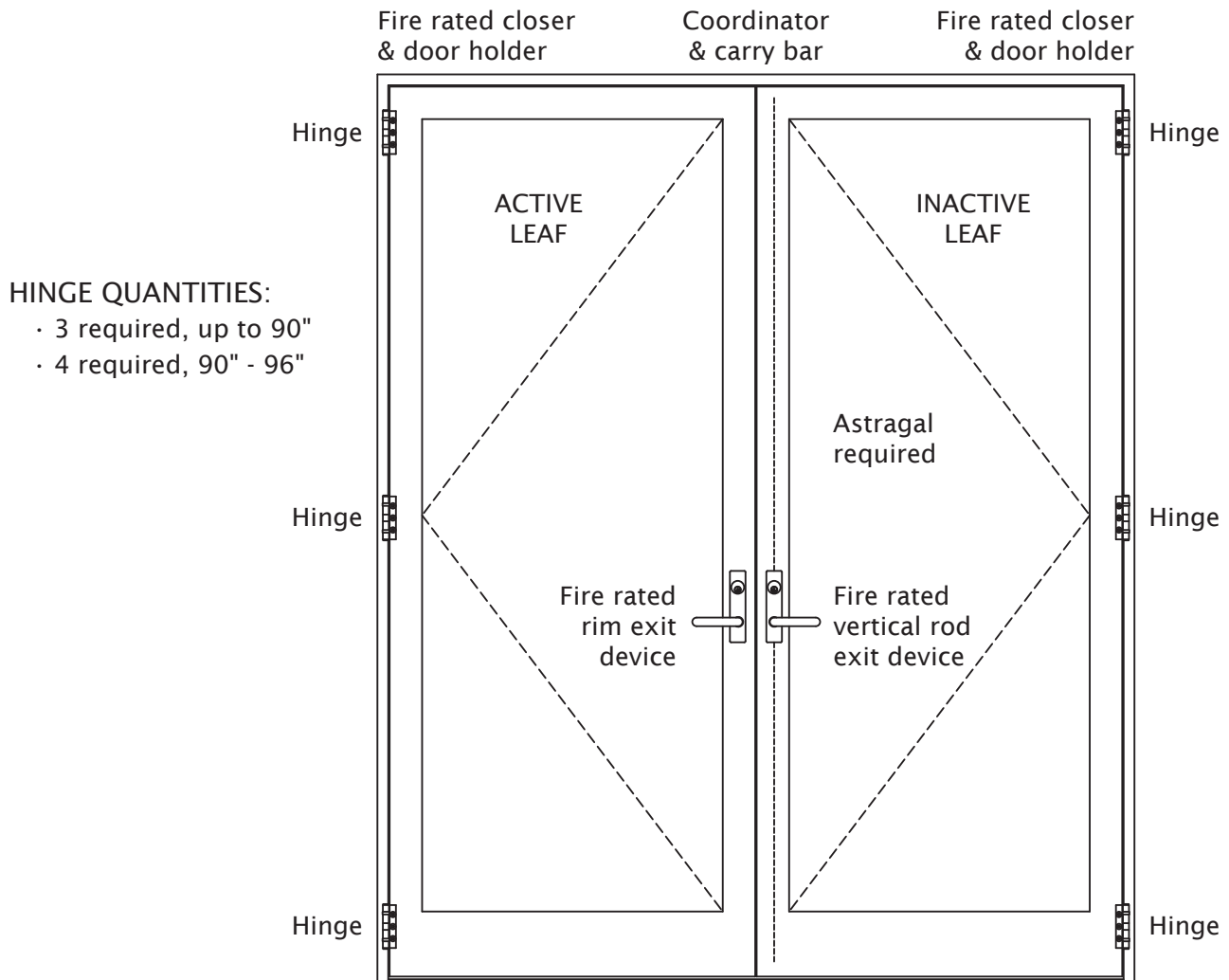
- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- RIM EXIT DEVICE
 - #99-F Series x 12 handle
- REMOVABLE MULLION
 - #9954
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - THREE POINT FIRE EXIT



STANDARD HARDWARE

- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- RIM EXIT DEVICE
 - #99-F Series x 12 handle
- EXPOSED ROD EXIT DEVICE
 - #9927-F Series x 12 handle
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series
- COORDINATOR
 - COR Series

STANDARD HARDWARE (cont)

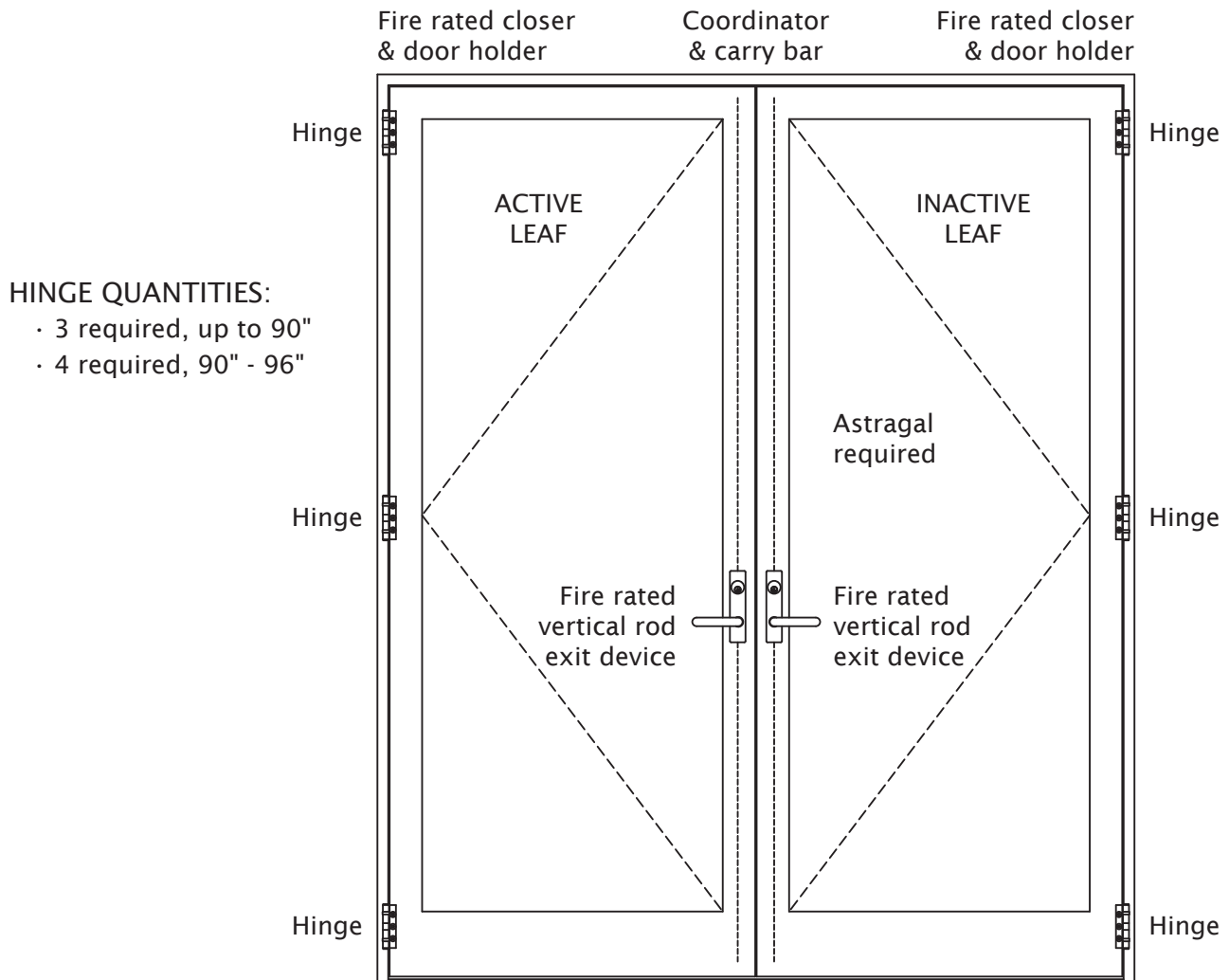
- CARRY BAR
 - #CB-1

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- CONCEALED ROD EXIT DEVICE
 - #9947-F Series x 12 handle
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

Elevations are not to scale.

DOUBLE DOOR - FOUR POINT FIRE EXIT



STANDARD HARDWARE

- BUTT HINGE
 - #BB1168 4.5 x 4.5 x .180 steel full mortise ball-bearing
- EXPOSED ROD EXIT DEVICE
 - #9927-F Series x 12 handle
- OVERHEAD SURFACE CLOSER
 - #4040 Series
- CONCEALED OVERHEAD STOP
 - #100 Series
- COORDINATOR
 - COR Series

STANDARD HARDWARE (cont)

- CARRY BAR
 - #CB-1

OPTIONAL HARDWARE

- CONTINUOUS HINGE
 - #200 Series steel edge mount
- CONCEALED ROD EXIT DEVICE
 - #9947-F Series x 12 handle
- OVERHEAD CONCEALED CLOSER
 - #2030 Series
- EXPOSED OVERHEAD STOP
 - #90 Series

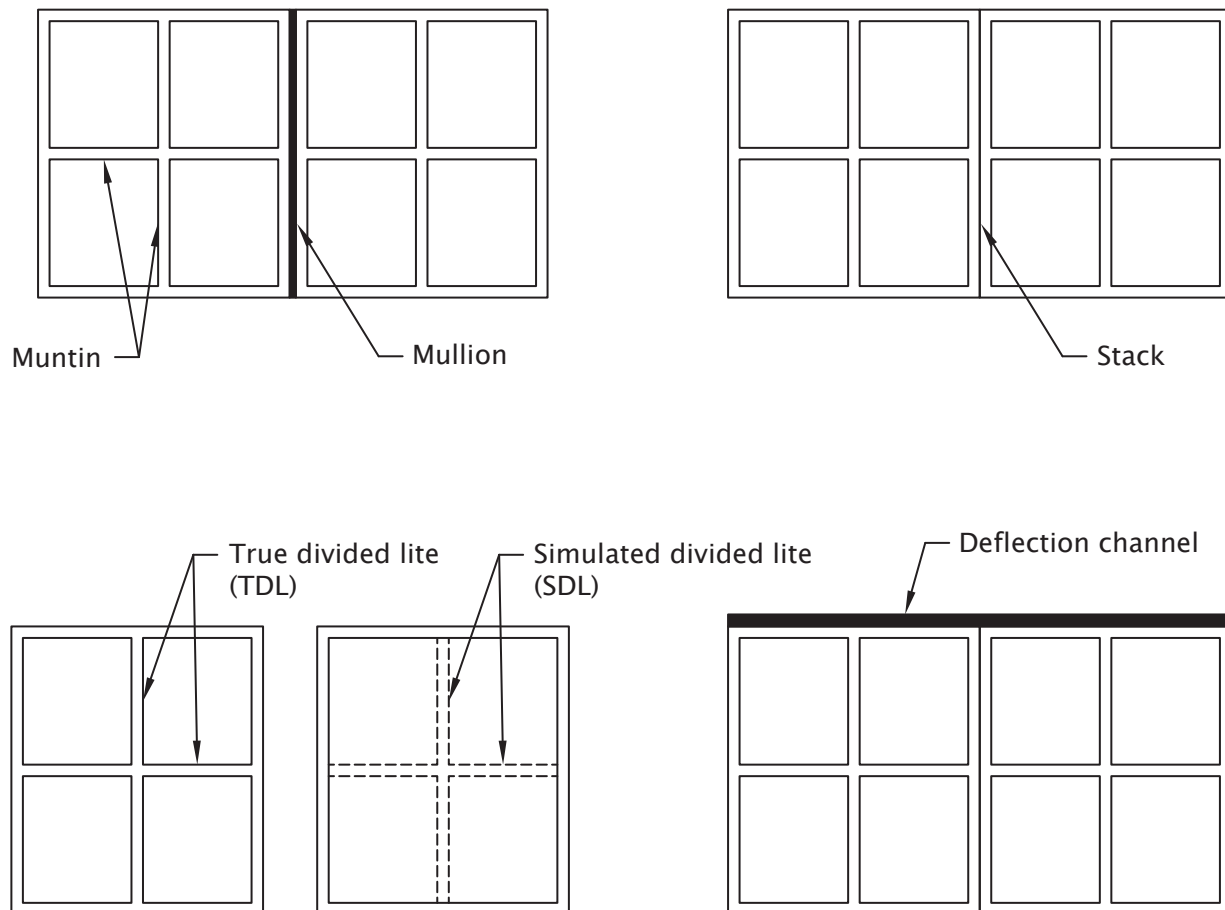
Elevations are not to scale.

INTENTIONALLY LEFT BLANK

Hope's offers a variety of muntin systems in both true divided lite (TDL) and simulated divided lite (SDL) options. In addition, many of our TDL muntins can be reinforced to accommodate larger windloads and glassloads.

The many steel mullion and stacking systems can be utilized when combining multiple window and/or doors frames within an opening.

- True Divided Lite Divides the lites of glass
- Simulated Divided Lite Simulated division of lites of glass
- Mullion..... Separation of two or more windows
- Stack Joining windows without a mullion
- Deflection Channel Allows the window to adjust relative to the building movement, sag and settling



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

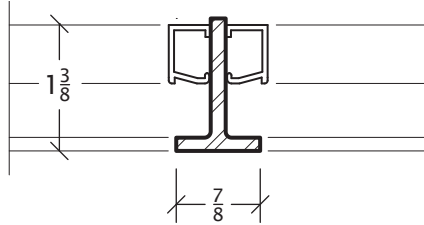
#T875

I-Values

Windload - .061

Glassload - .008

University Series™



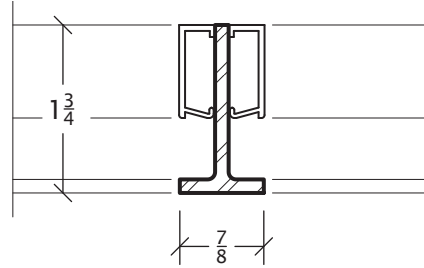
#T875L

I-Values

Windload - .111

Glassload - .008

Jamestown175™ Series
Landmark175™ Series
5000 Series™
Empire Bronze™



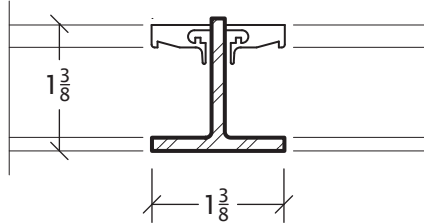
#T138

I-Values

Windload - .065

Glassload - .031

University Series™



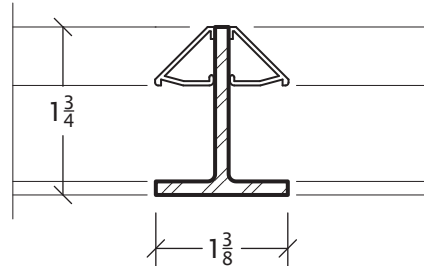
#T138L

I-Values

Windload - .130

Glassload - .031

Jamestown175™ Series
Landmark175™ Series
5000 Series™
Fire Rated



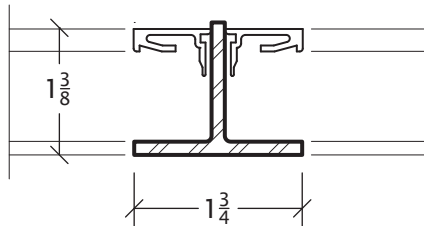
#T175

I-Values

Windload - .070

Glassload - .062

University Series™



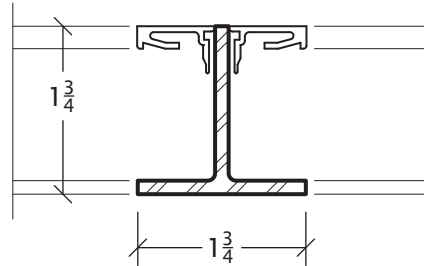
#T175L

I-Values

Windload - .140

Glassload - .063

Jamestown175™ Series
Landmark175™ Series
5000 Series™
Fire Rated



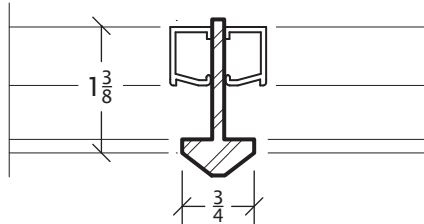
#84H

I-Values

Windload - .070

Glassload - .062

University Series™



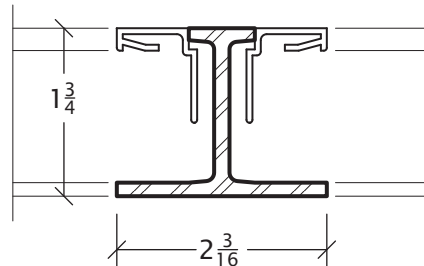
#175M

I-Values

Windload - .262

Glassload - .127

Jamestown175™ Series
Landmark175™ Series
5000 Series™
Fire Rated
Empire Bronze™



#T875 with

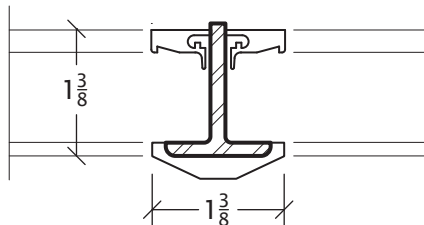
#84V Cap

I-Values

Windload - .070

Glassload - .062

University Series™



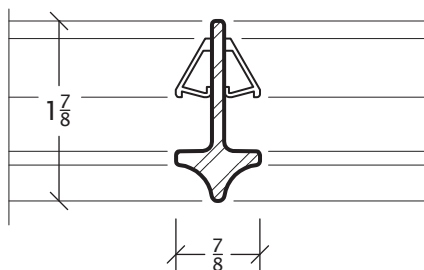
One55 Muntin

I-Values

Windload - .098

Glassload - .084

One55™ Series



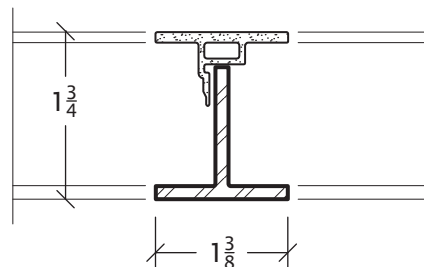
Thermal Muntin

I-Values

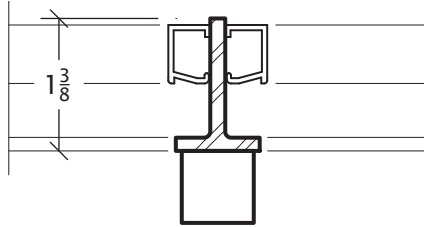
Windload - .046

Glassload - .053

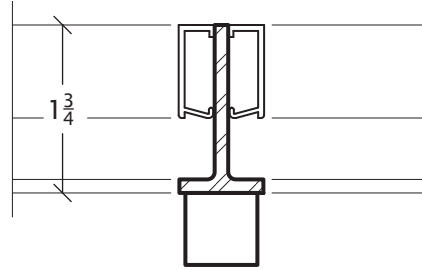
Landmark175™ Series
thermal steel windows



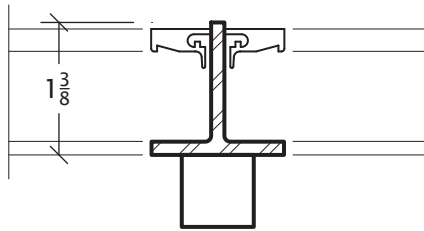
#T875
I-Values
Windload - .239
Glassload - .034



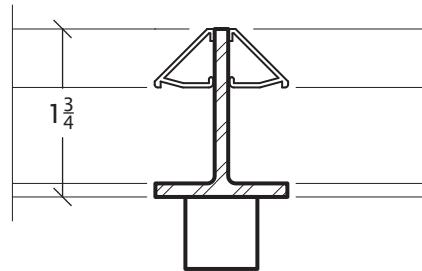
#T875L
I-Values
Windload - .358
Glassload - .035



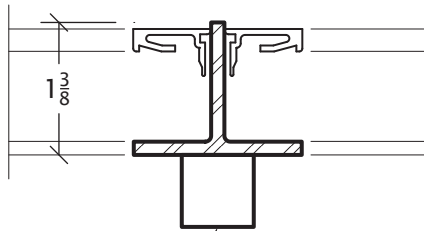
#T138
I-Values
Windload - .223
Glassload - .057



#T138L
I-Values
Windload - .358
Glassload - .057

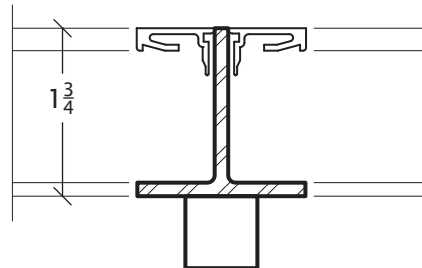


#T175
I-Values
Windload - .224
Glassload - .088

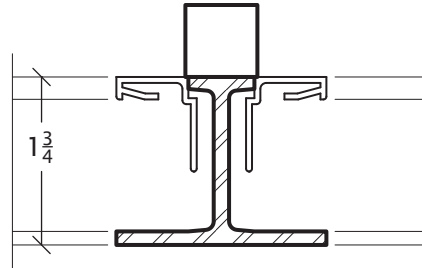


3/4 x 3/4 Steel Bar

#T175L
I-Values
Windload - .358
Glassload - .090



#175M
I-Values
Windload - .576
Glassload - .154



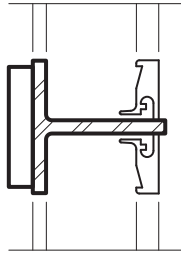
REINFORCED MUNTIN NOTES

The details illustrate common reinforcing options.

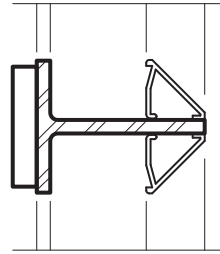
The design loads for either windload or glassload may require reinforcing other than shown.

Details are half scale and shown inside glazed with 5/8" or 1" glass.

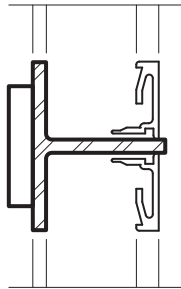
#T138
I-Value
Glassload - .071



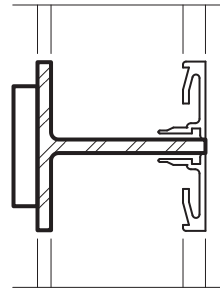
#T138L
I-Value
Glassload - .072



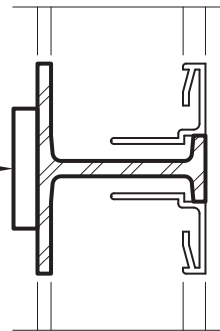
#T175
I-Value
Glassload - .062



#T175L
I-Value
Glassload - .104



1/4 x 1-1/4
steel flat



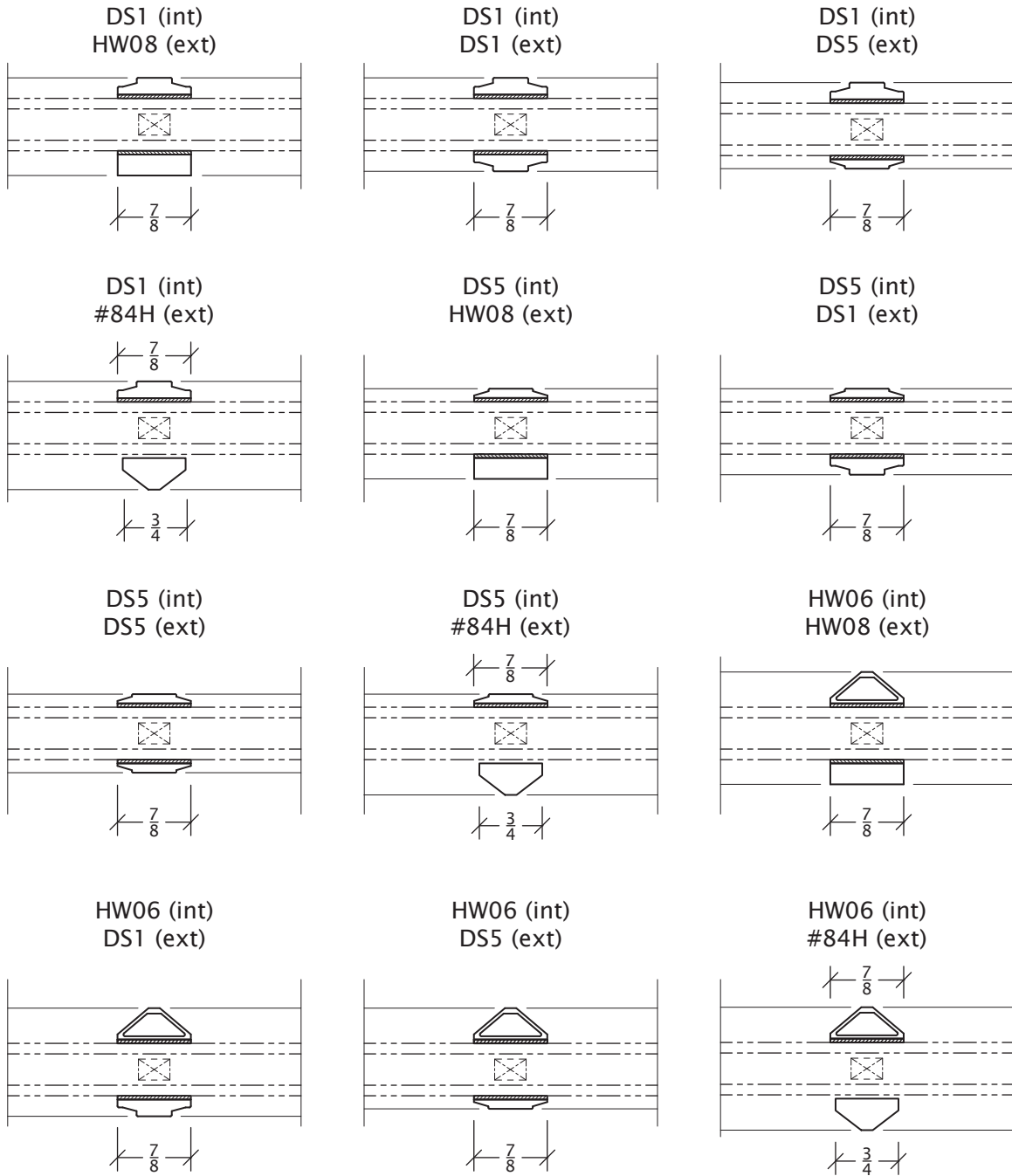
#T175M
I-Value
Glassload - .168

REINFORCED MUNTIN NOTES

The details illustrate common reinforcing options.

The design loads for either windload or glassload may require reinforcing other than shown.

Details are half scale and shown inside glazed with 5/8" or 1" glass.



MUNTIN GRID NOTES

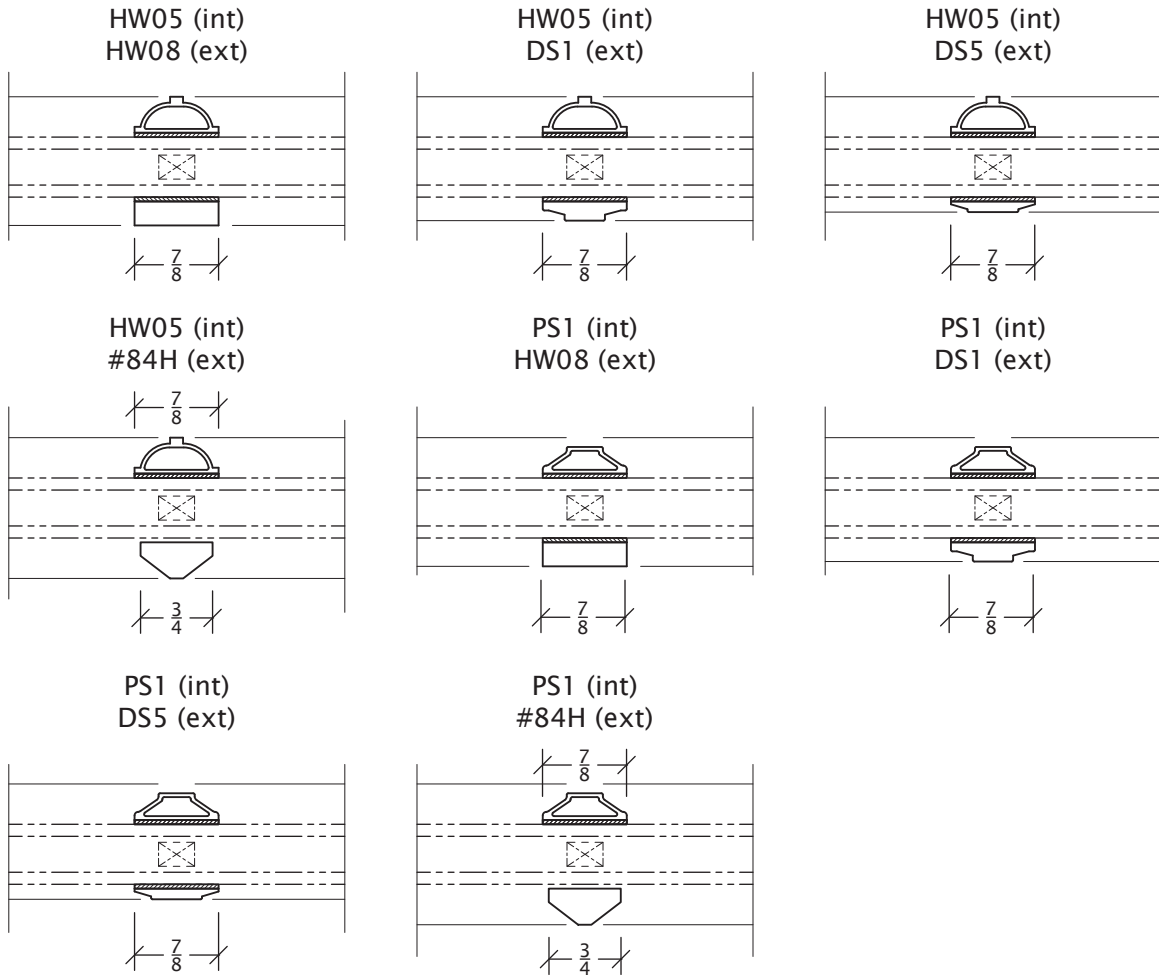
The #84H muntin grid is a hot-rolled steel profile with an integral lock at the intersections and backwelded to the glazing leg of the window.

The DS1, DS5, HW05, HW06, HW08 and PS1 muntin grids are extrusions which are either cut square, mitered or coped and taped to the glass after glass installation.

The spacer between the glass to simulate true muntins is optional and is provided by the glazier.

Optional fenestra joint available with the HW08 muntin grid.

Details are half scale and shown inside glazed. Additional profiles available – consult Hope's.



MUNTIN GRID NOTES

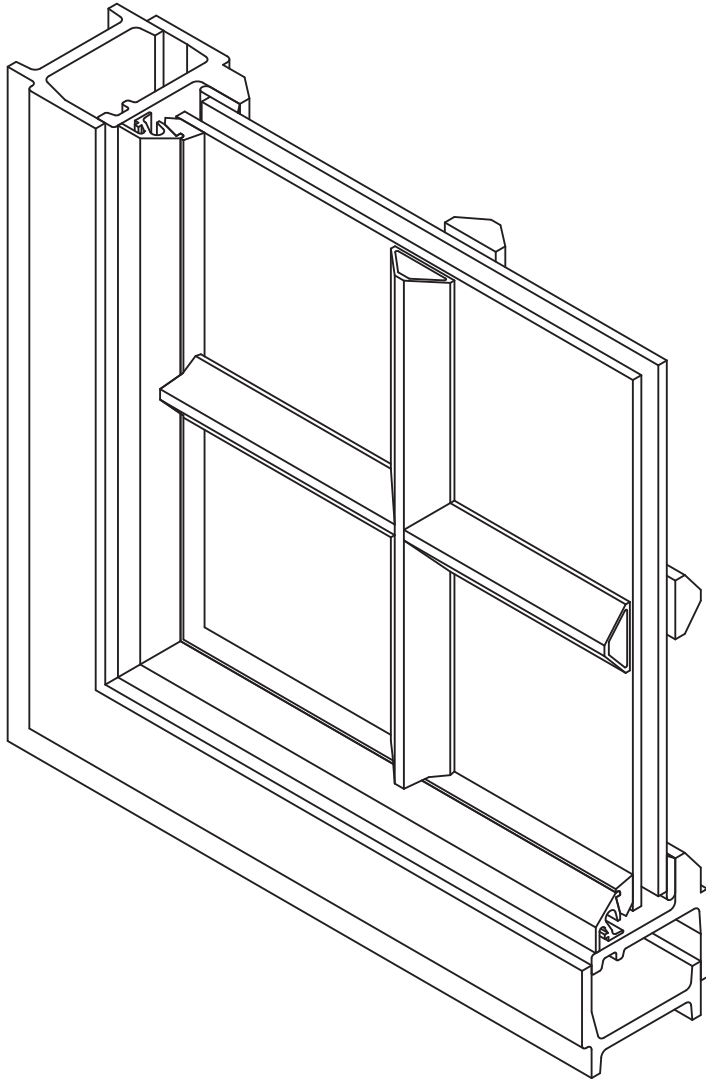
The #84H muntin grid is a hot-rolled steel profile with an integral lock at the intersections and backwelded to the glazing leg of the window.

The DS1, DS5, HW05, HW06, HW08 and PS1 muntin grids are extrusions which are either cut square, mitered or coped and taped to the glass after glass installation.

The spacer between the glass to simulate true muntins is optional and is provided by the glazier.

Optional fenestra joint available with the HW08 muntin grid.

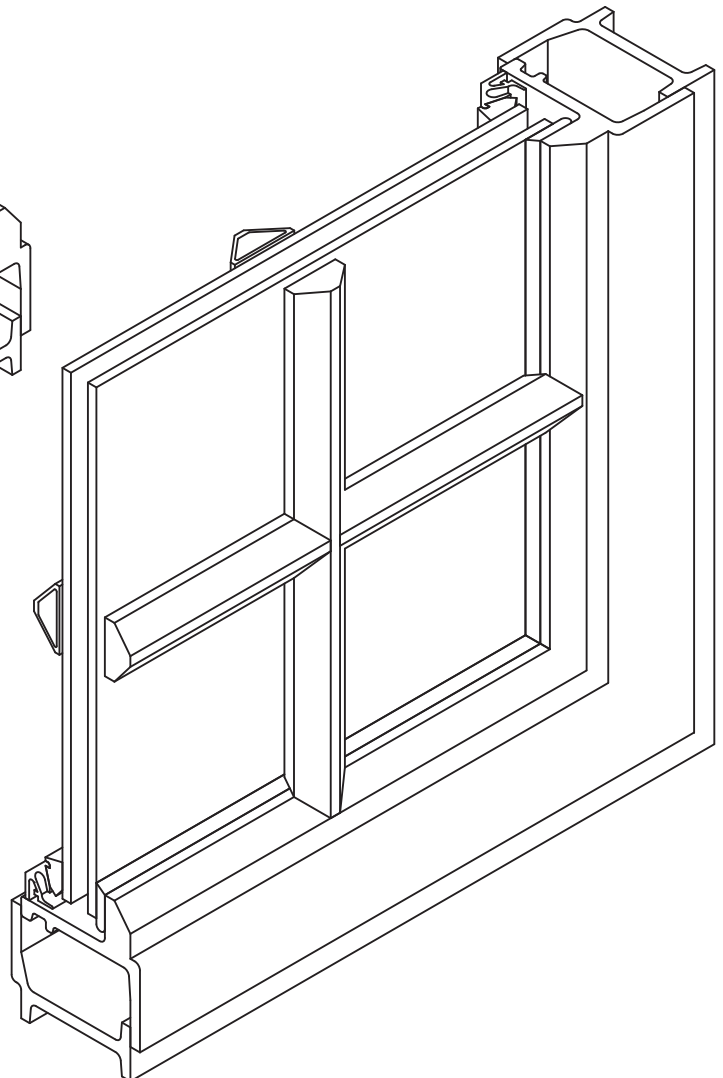
Details are half scale and shown inside glazed. Additional profiles available – consult Hope's.



EXTERIOR VIEW
University Series™ steel window
shown with exterior SDL muntin #84H
with 1/2" glass

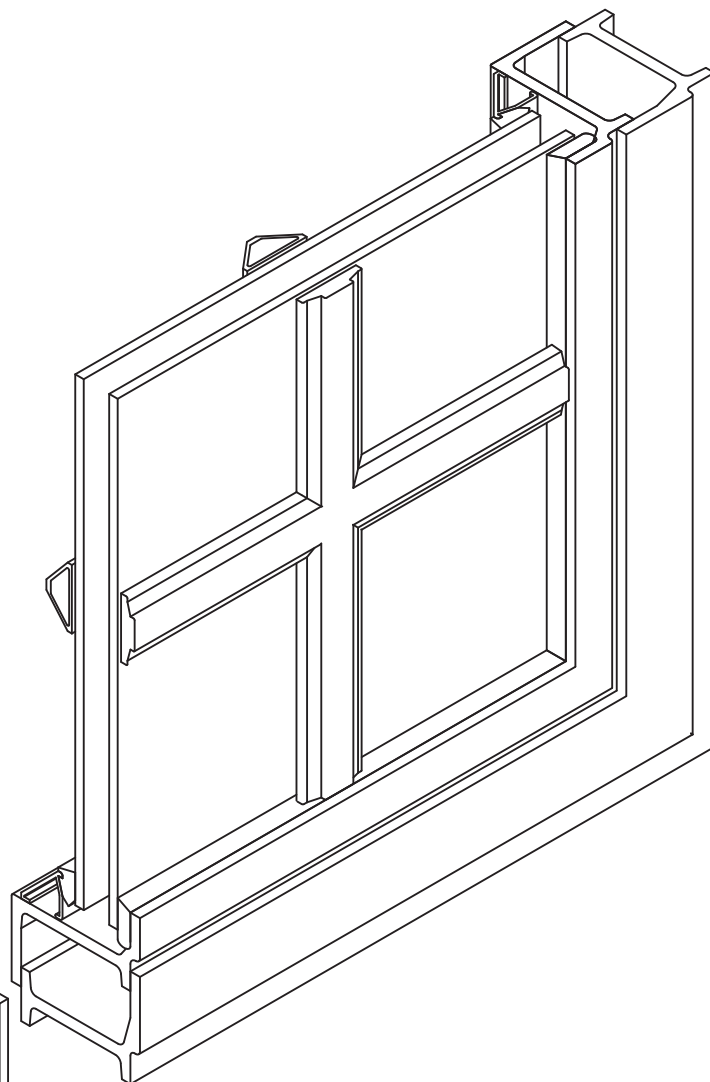
INTERIOR VIEW

University Series™ steel window
shown with interior SDL muntin HW06
with #241 glazing bead for 1/2" glass



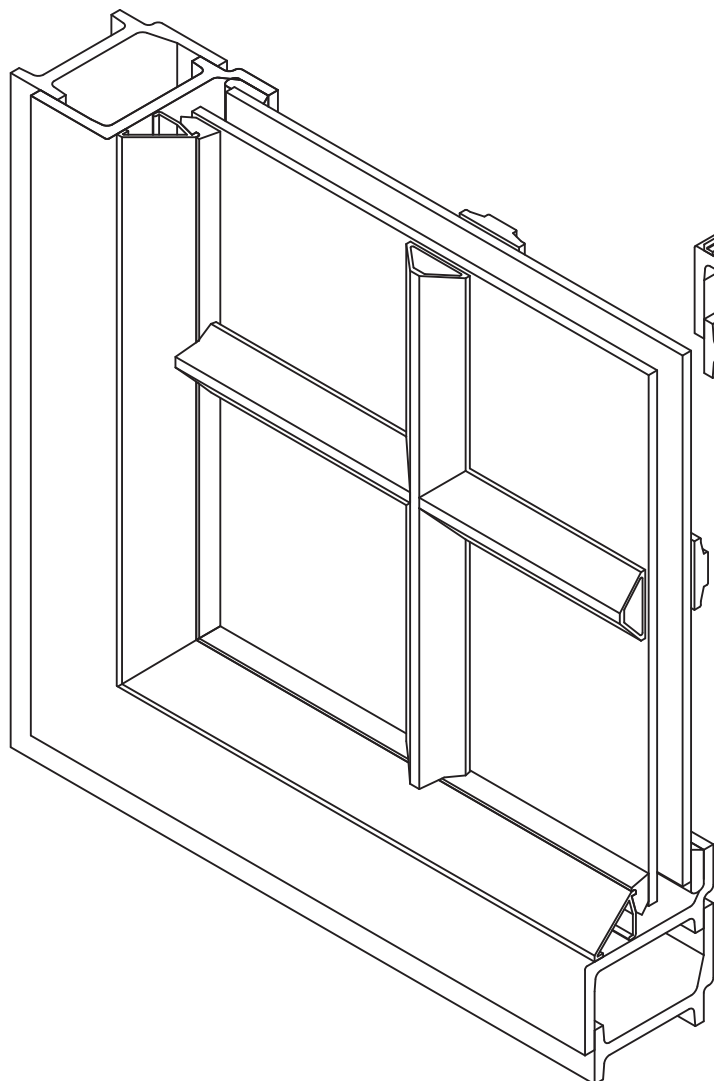
INTERIOR VIEW

Landmark175™ Series steel window
shown with interior SDL muntin #DS5
with 5/8" glass



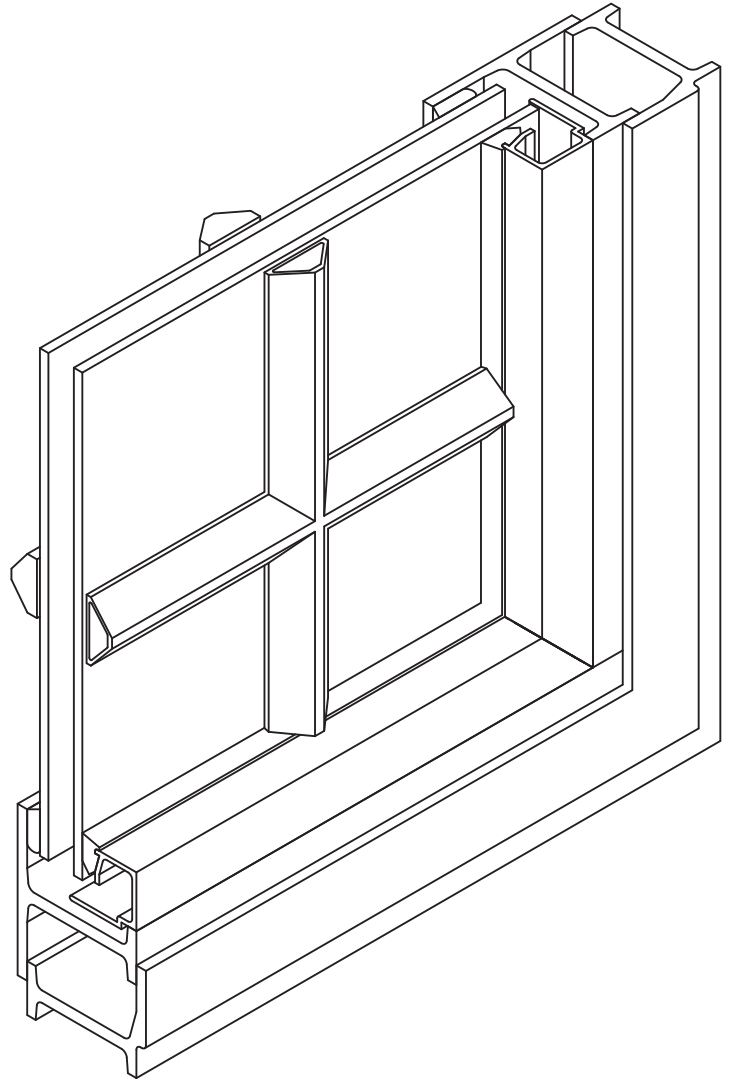
EXTERIOR VIEW

Landmark175™ Series steel window
shown with exterior SDL muntin HW06
with #240 glazing bead for 5/8" glass



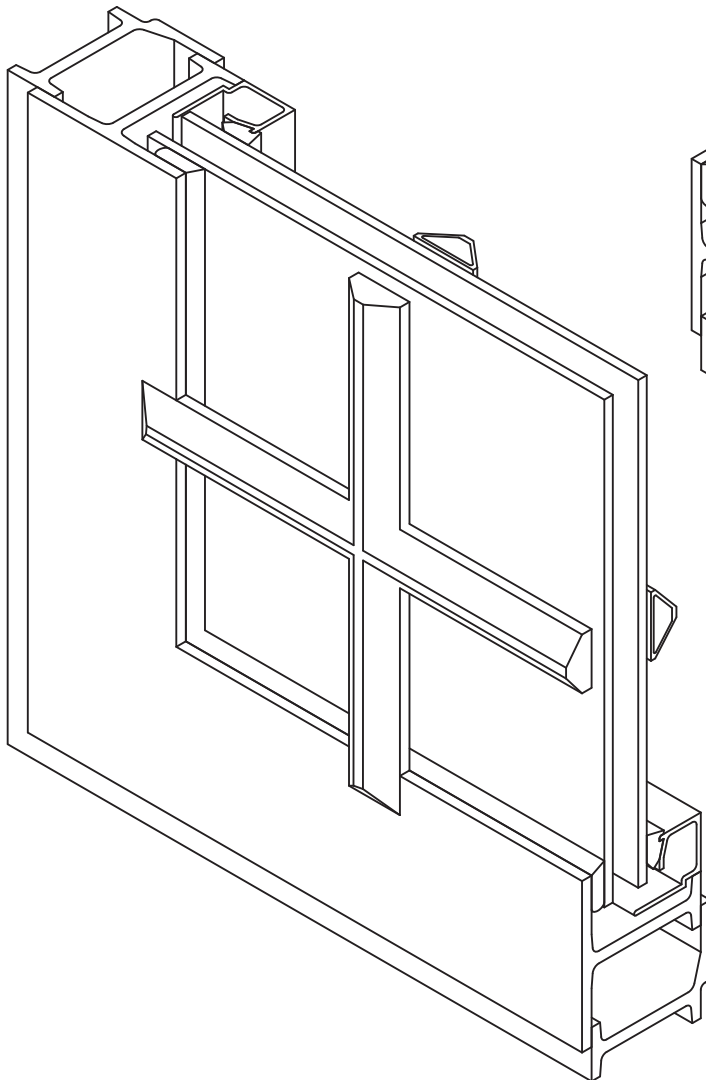
INTERIOR VIEW

Jamestown175™ Series steel window
shown with interior SDL muntin HW06
with #30 glazing bead for 5/8" glass



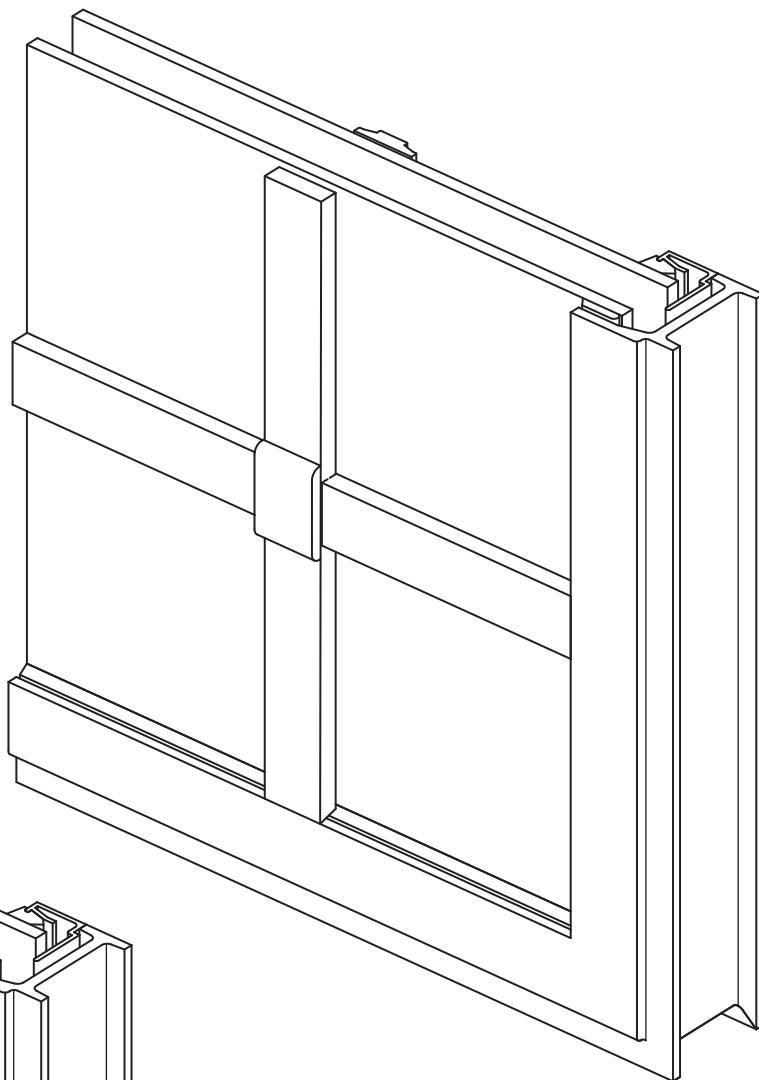
EXTERIOR VIEW

Jamestown175™ Series steel window
shown with exterior SDL muntin #84H
with 5/8" glass



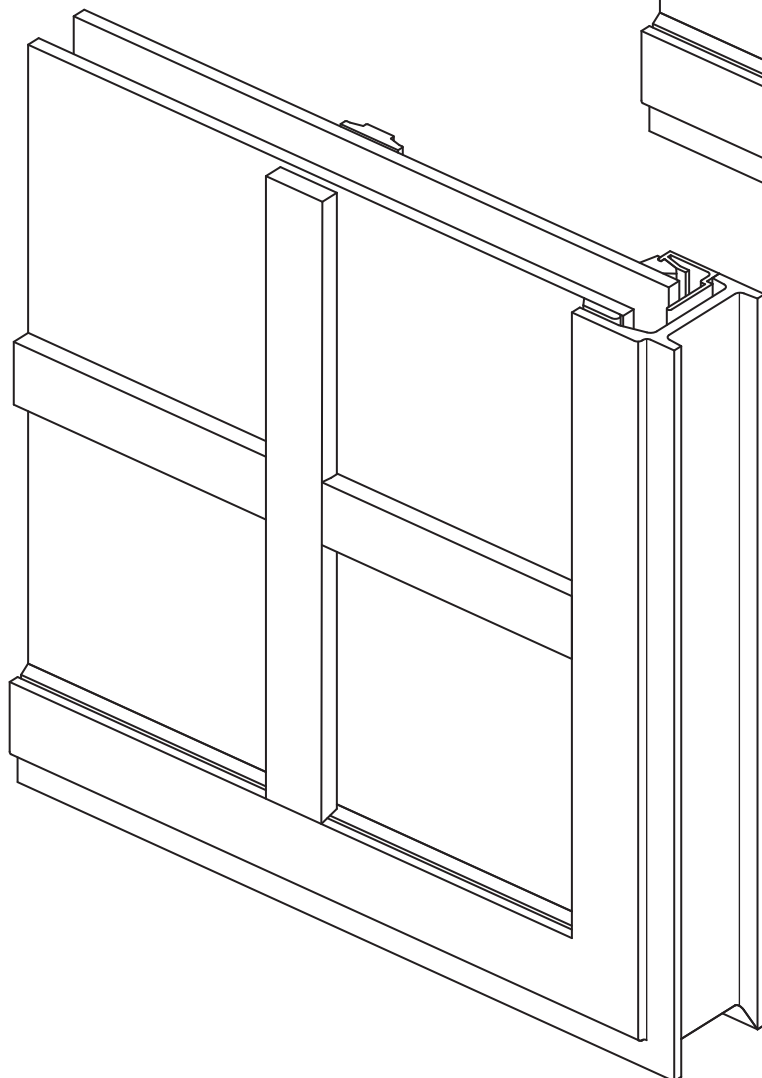
EXTERIOR VIEW

Jamestown175™ Series steel window
shown with exterior SDL muntin HW08
and HW09 fenestra intersection

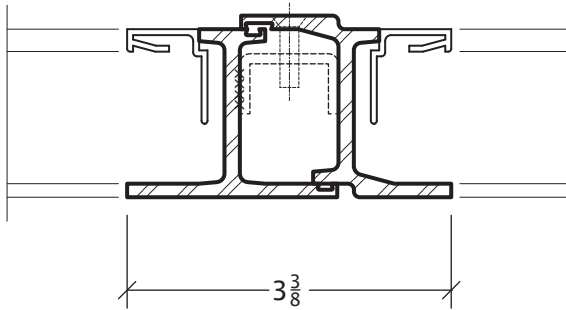


EXTERIOR VIEW

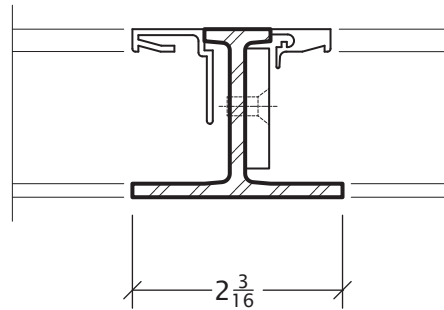
Jamestown175™ Series steel window
shown with exterior SDL muntin HW08



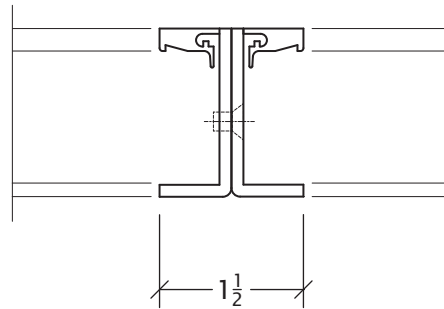
FRAME STACKS



SECTION STACK
I-Value
Windload - .604

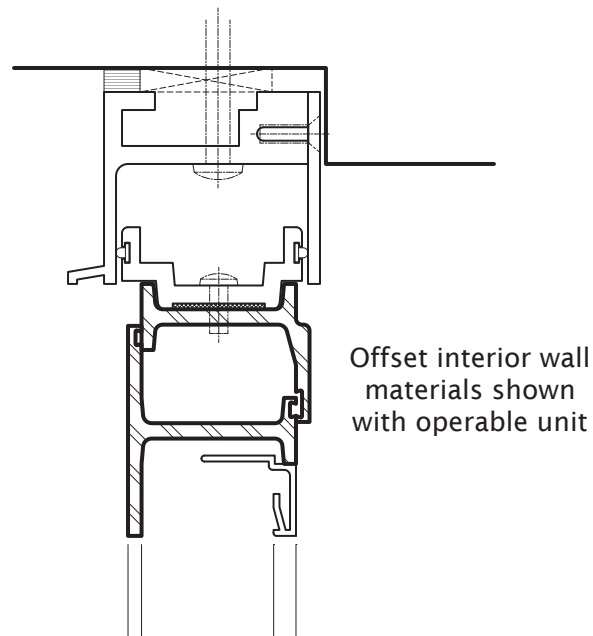
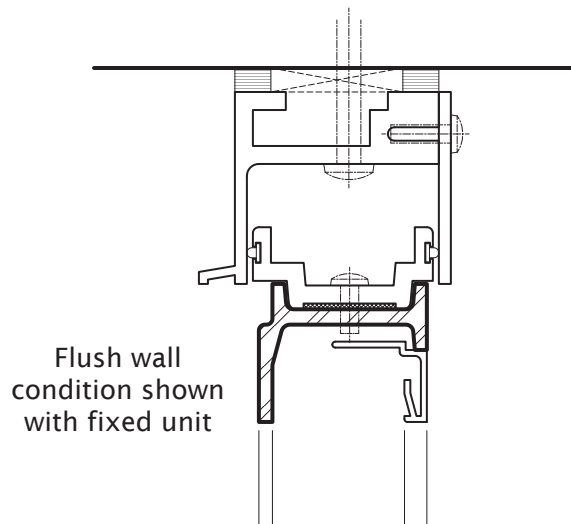


BAR STACK
I-Value
Windload - .301

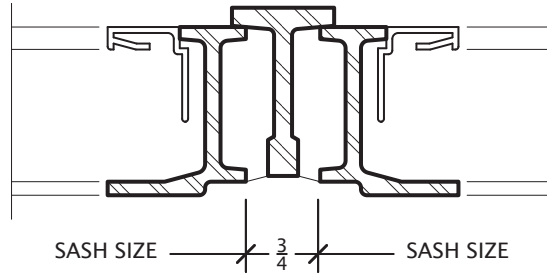


ANGLE STACK
I-Value
Windload - .186

DEFLECTION CHANNELS



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



SECTION MULLION - #1556A

I-Value
Windload - .192
(.620 with sections as shown)

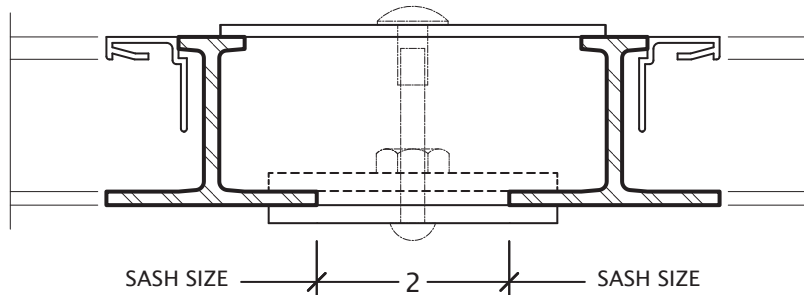
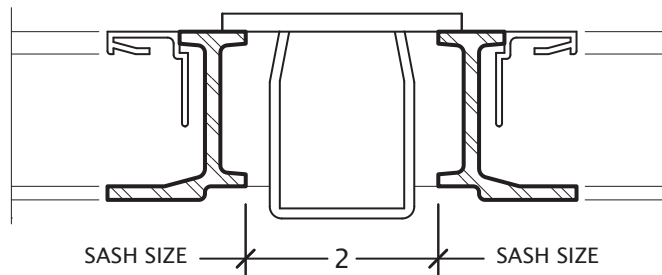


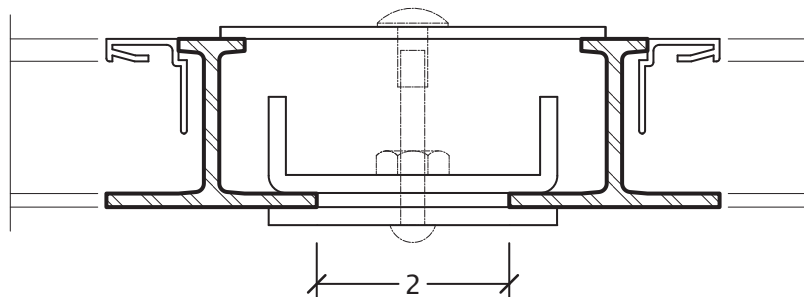
PLATE MULLION

I-Value
Windload - .430 (with sections as shown)



HAT MULLION

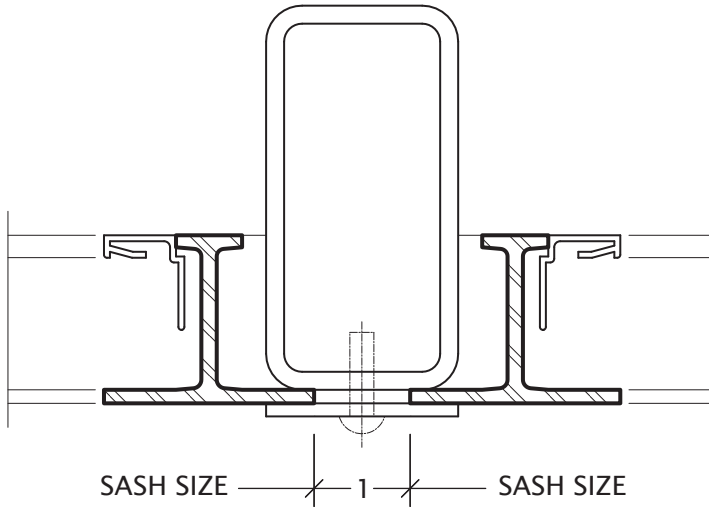
I-Value
Windload - .628
(1.056 with sections as shown)



REINFORCED PLATE MULLION

I-Value
Windload - .590 (with sections as shown)

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

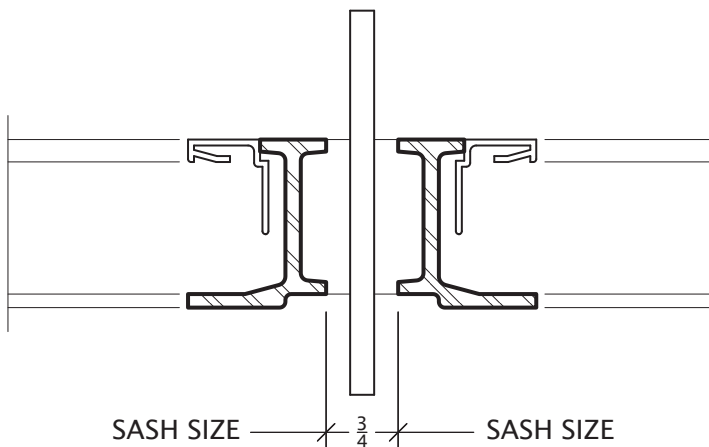
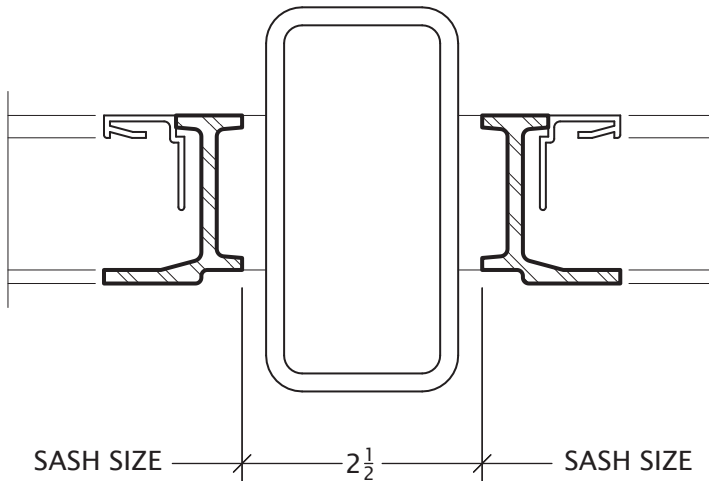


TUBE MULLION

I-Values

2 x 4 x 3/16	- 3.865 (shown)
2 x 4 x 1/4	- 4.689
2 x 6 x 3/16	- 10.820
2 x 6 x 1/4	- 13.300

NOTE: I-values listed are for the tube only. The sections are not included.



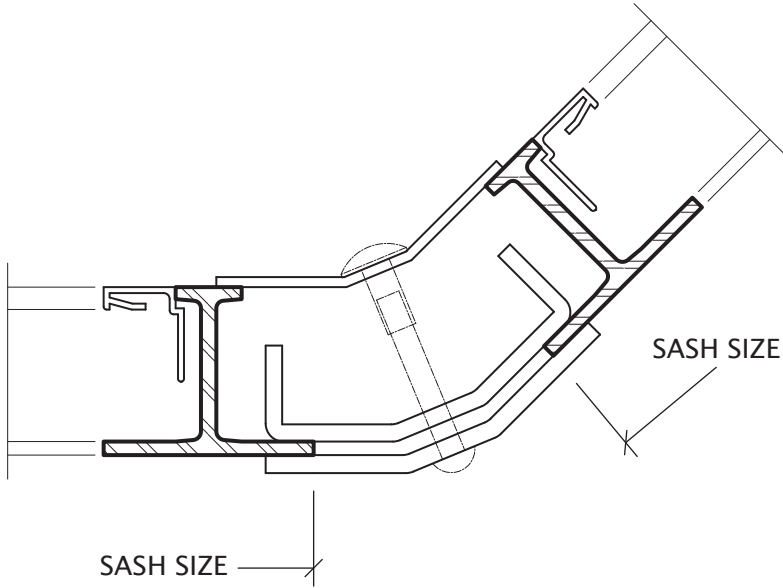
FLAT BAR MULLION

I-Values

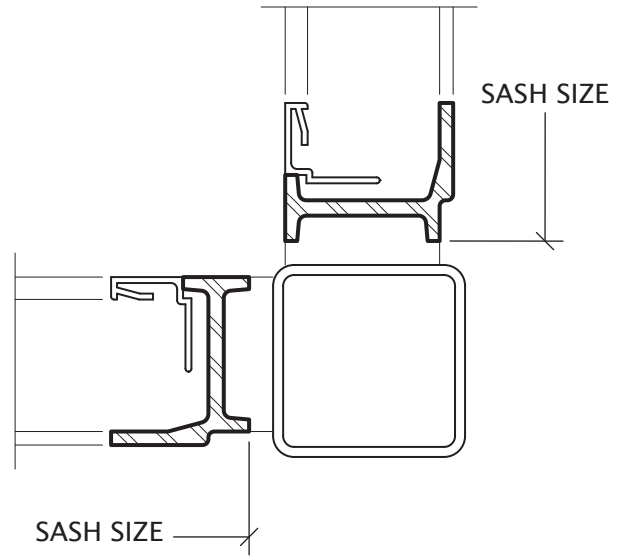
1/4 x 2	- .167
1/2 x 2	- .333
1/4 x 4	- 1.333
1/2 x 4	- 2.667
1/4 x 6	- 4.500
1/2 x 6	- 9.000

NOTE: I-values listed are for the flat only. The sections are not included.

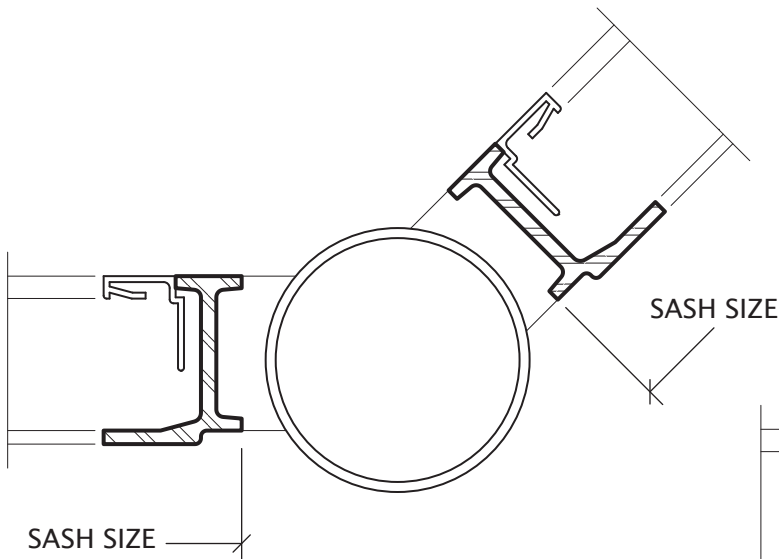
Details are half scale and shown inside glazed with 1" glass.



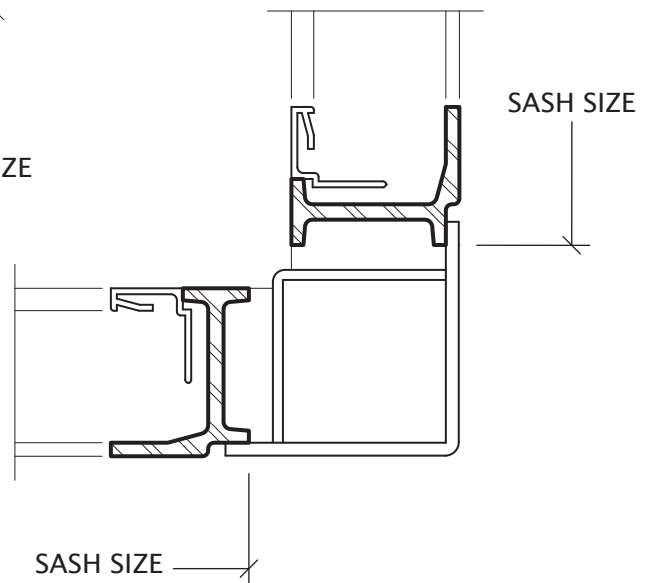
45° CORNER PLATE MULLION
I-Value
Windload - .706 (with sections as shown)



90° CORNER TUBE MULLION
2 x 2 x 12 gauge steel
I-Value
Windload - .706
(1.134 with sections as shown)



CORNER ROUND TUBE MULLION
2-3/4" diameter x 12 gauge steel
I-Value
Windload - 1.019
(1.447 with sections as shown)



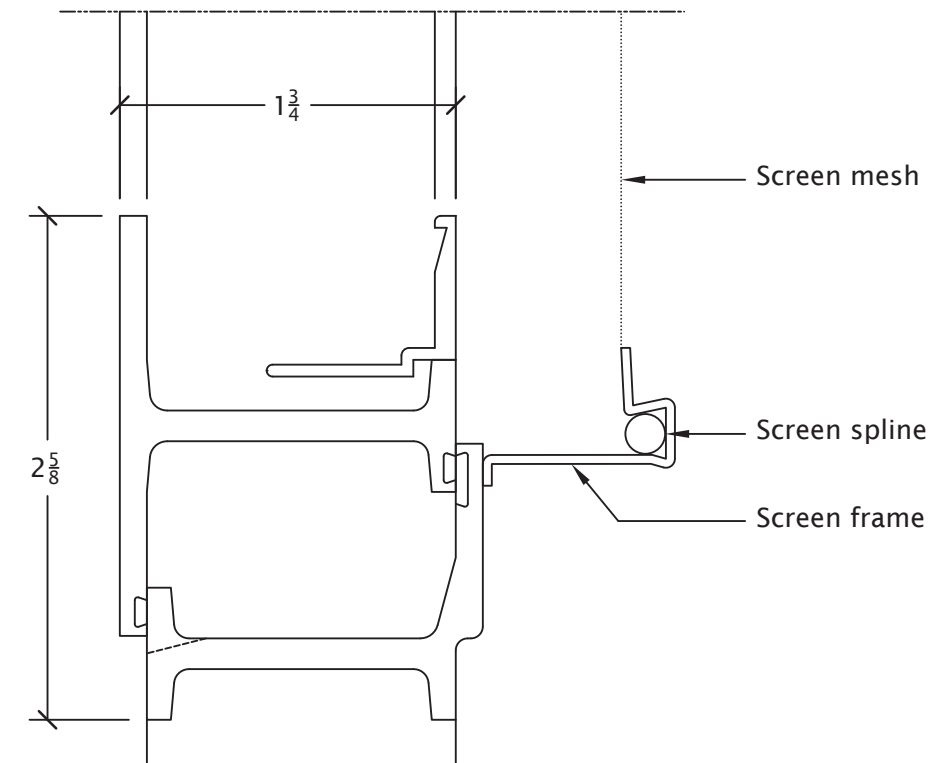
CORNER HAT MULLION
I-Value
Windload - .469
(.897 with sections as shown)

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

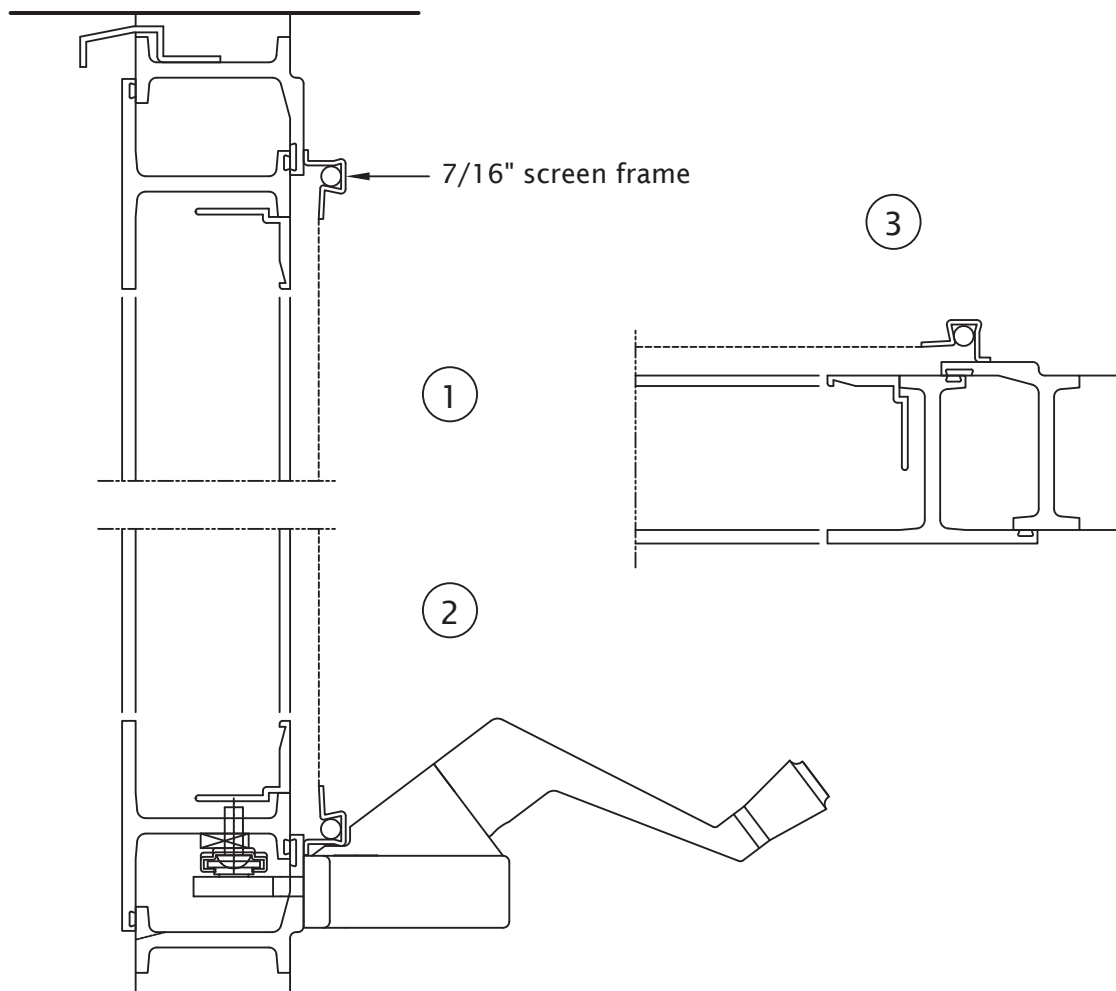
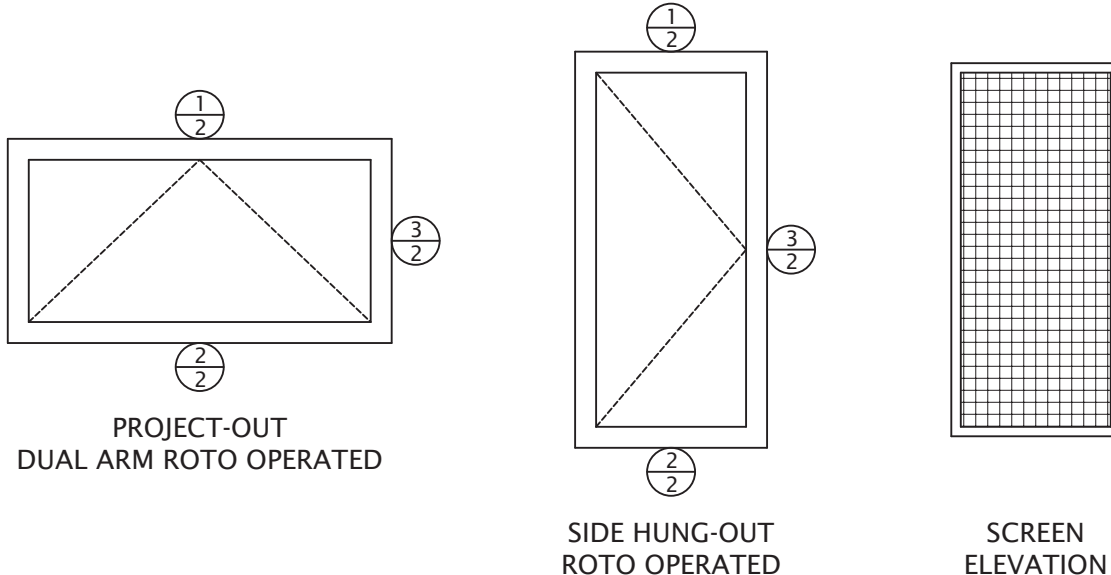
Hope's is the only steel and bronze window manufacturer that provides insect screens as a standard. As with our custom steel windows, screens are also specially fabricated to a wide variety of configurations. Flat screens are also available for roto operated project-out and side hung-out ventilators. Springbolt screens are available for both project-in and side hung-in ventilators. Wicket screens are available for simplex (hand) operated project-out and side hung-out ventilators. Consult Hope's for applications available in bronze.

PRODUCT FEATURES

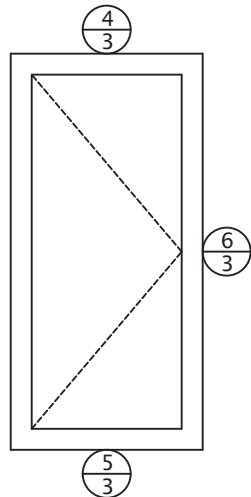
- Roll-formed from 20 gauge stainless steel or bronze
- Three corners of the screen frame are notched and bent around, and the fourth corner is mitered and spot welded to a stainless corner gusset
- All wickets are side hinged for easy access to the window fastener
- Rewireable screen mesh available in the following:
 - Gun Metal Gray Aluminum (standard)
 - Aluminum
 - Fiberglass Black
 - Stainless Steel
 - Solid Bronze
- Non-corrosive vinyl splines
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat



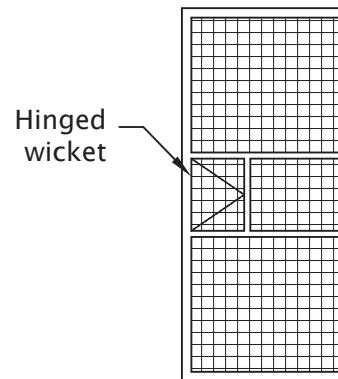
Details are full scale.



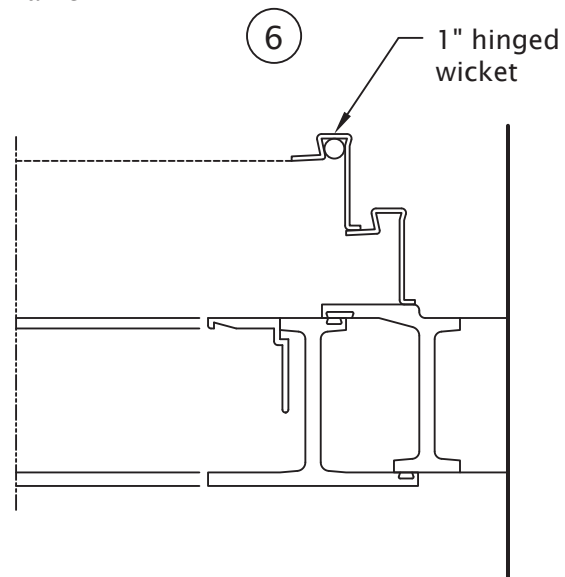
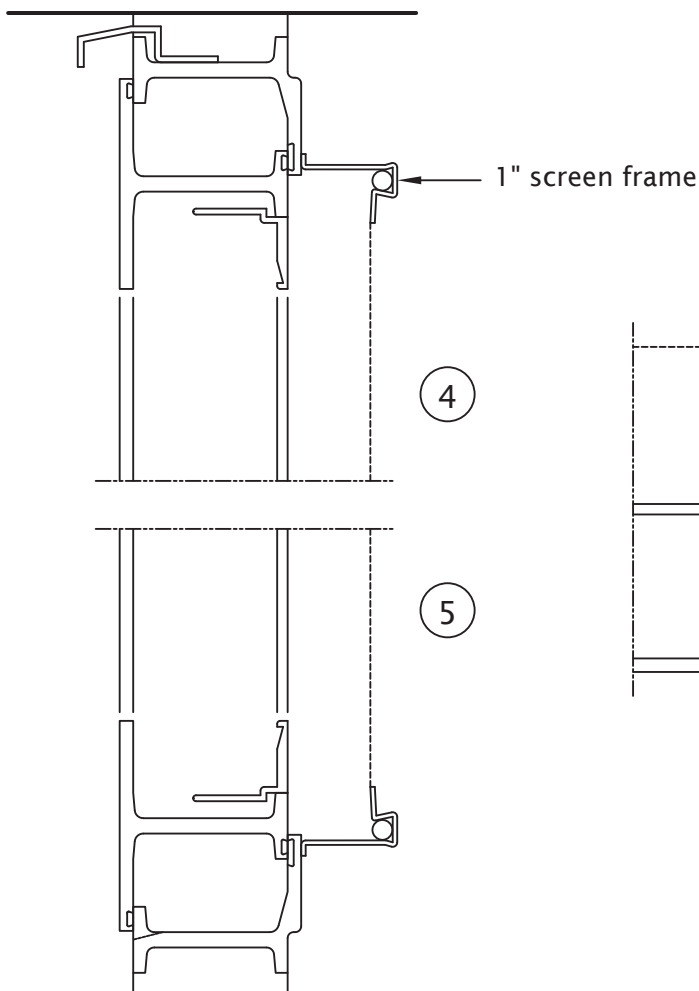
Elevations are for detail reference only. Elevations are not to scale.
Details are half scale.



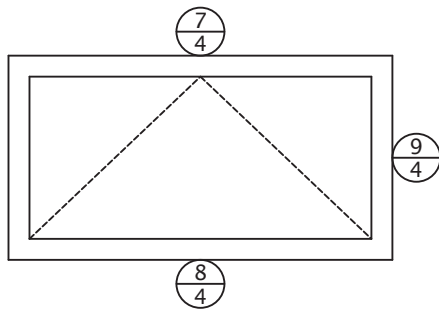
SIDE HUNG-OUT
SIMPLEX (HAND) OPERATED



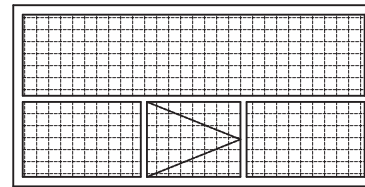
SCREEN
ELEVATION



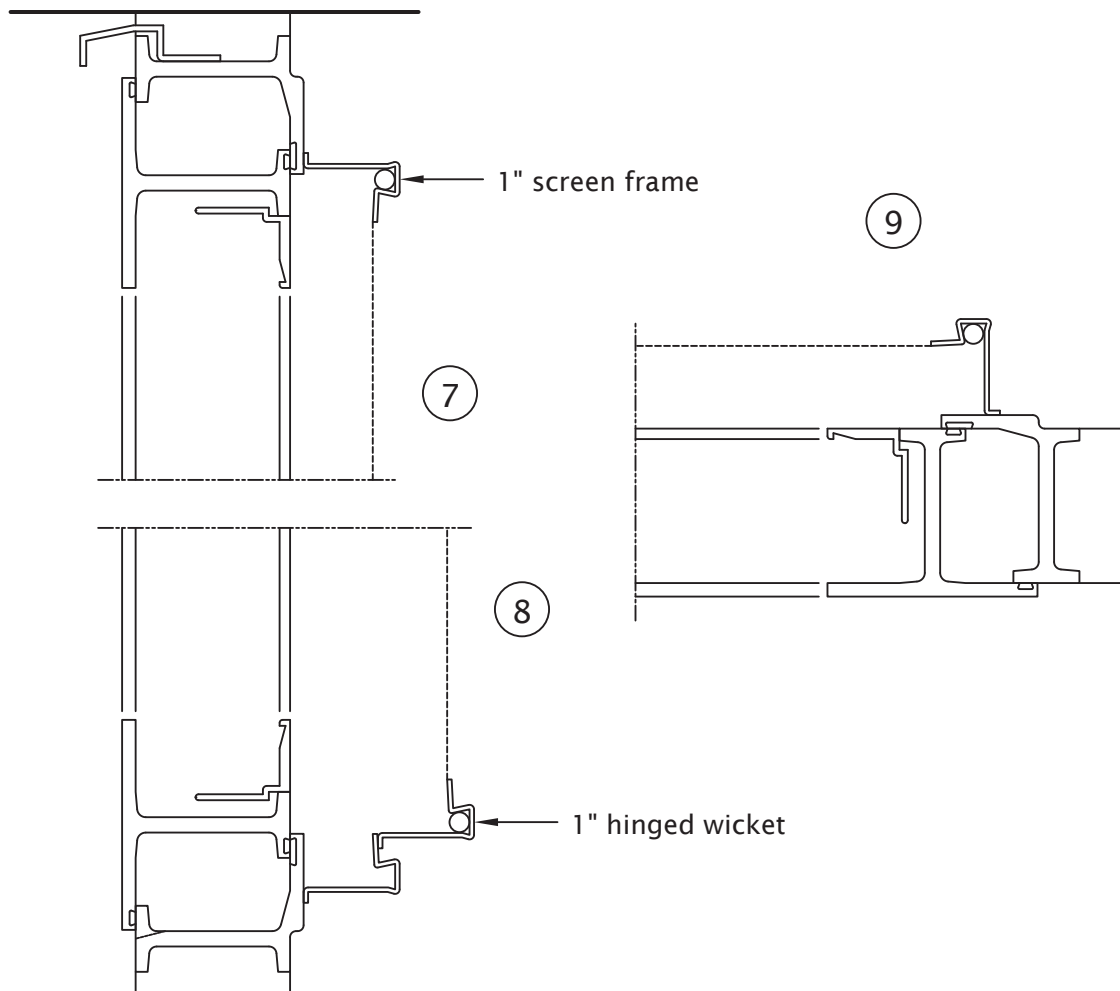
Elevations are for detail reference only. Elevations are not to scale.
Details are half scale.



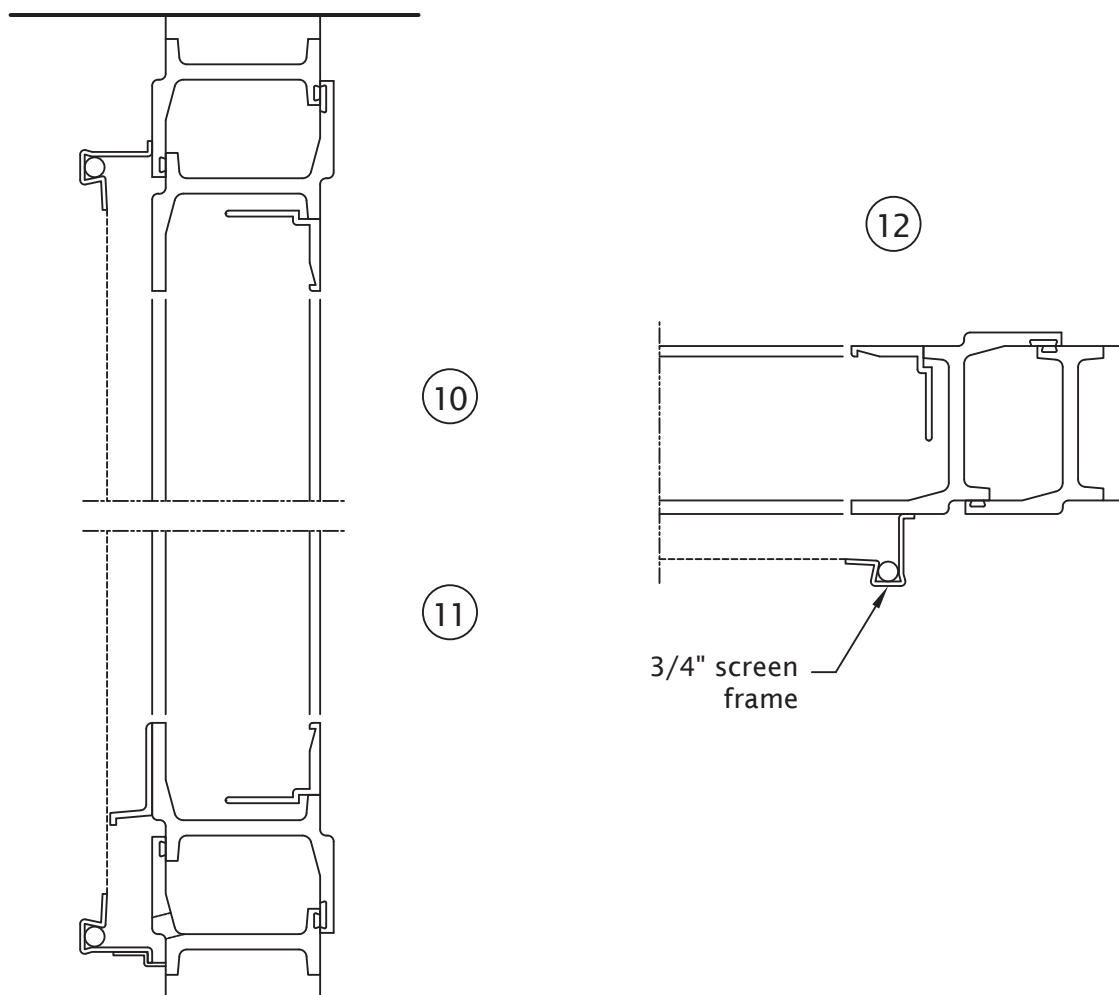
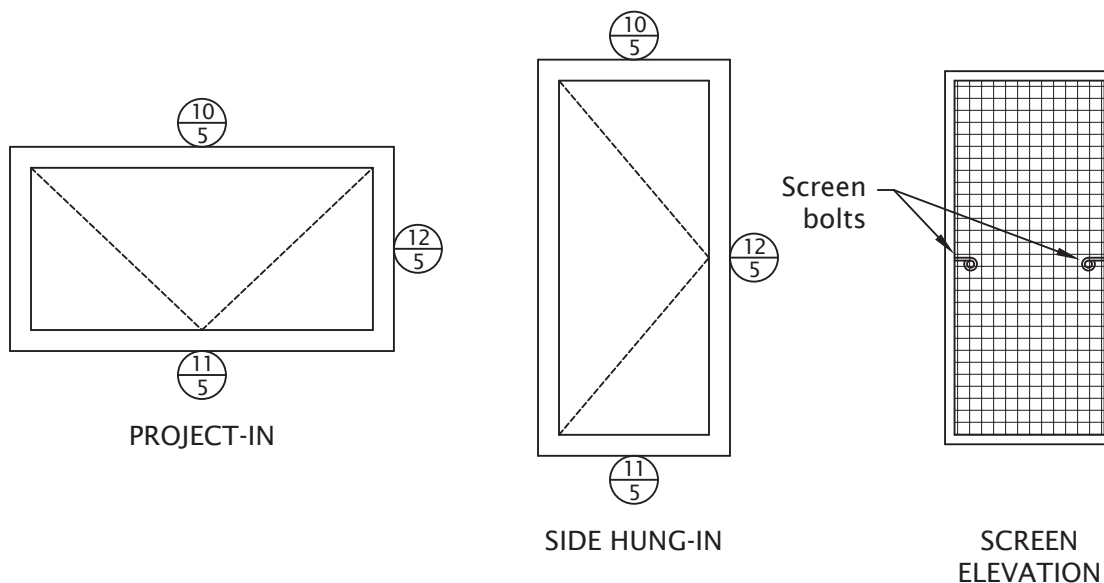
PROJECT-OUT
SIMPLEX (HAND) OPERATED



SCREEN
ELEVATION



Elevations are for detail reference only. Elevations are not to scale.
Details are half scale.



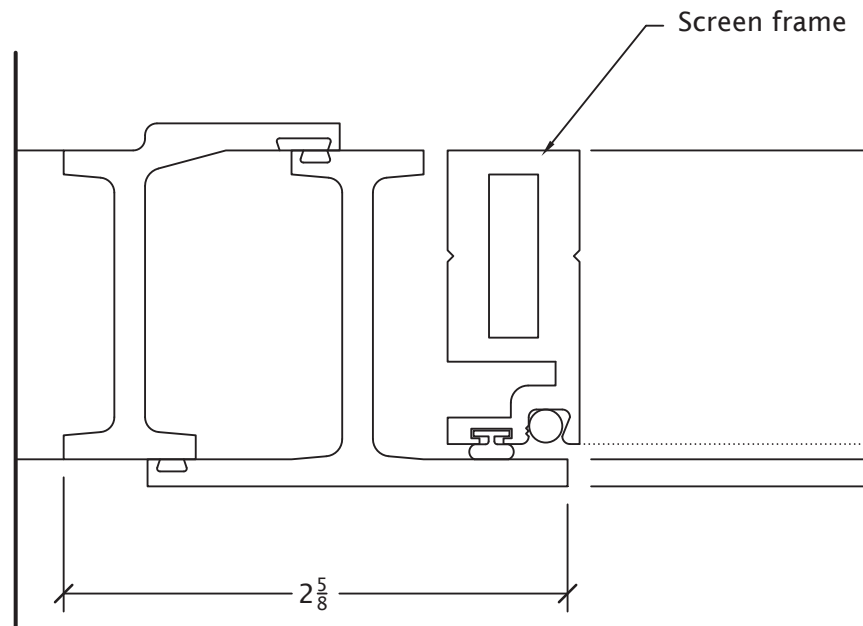
Elevations are for detail reference only. Elevations are not to scale.
Details are half scale.

INTENTIONALLY LEFT BLANK

Hope's Jamestown175 Series screen door frames are fabricated from hot-rolled steel profiles. Jamestown175 Series screen doors can complement the Jamestown175 Series, Landmark175™ Series and University Series™ swing doors.

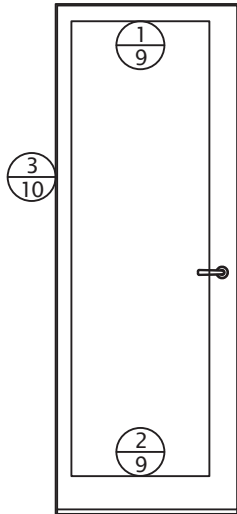
PRODUCT FEATURES

- Door frames are manufactured from hot-rolled steel profiles
- Screen frames are roll-formed from 20 gauge stainless steel
- Rewireable screen mesh available in the following:
 - Gun Metal Gray Aluminum (standard)
 - Aluminum
 - Fiberglass Black
 - Stainless Steel
 - Solid Bronze
- Non-corrosive vinyl splines
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat

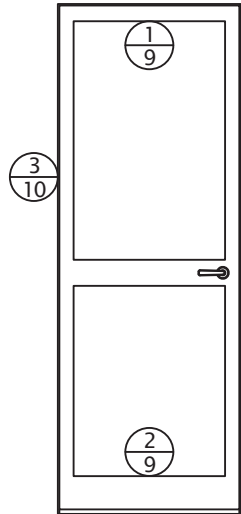


Details are full scale.

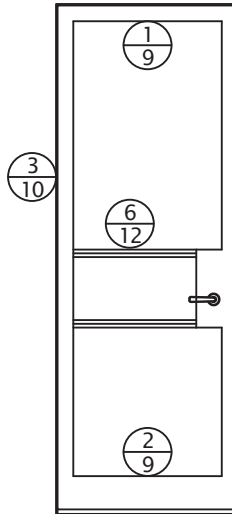
SCREEN DOOR
LOCK IN STILE
"ACCURATE" #6500
LOCK or
"G-U" MONOLOCK



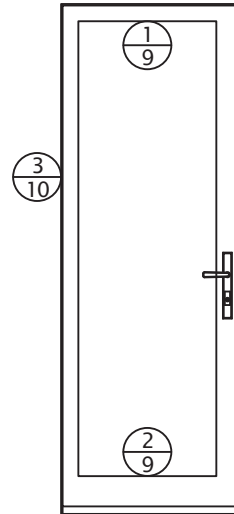
SCREEN DOOR
LOCK IN RAIL
#9508
LATCHSET



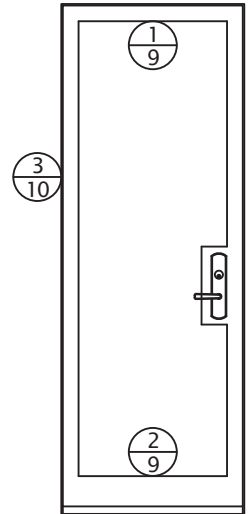
SCREEN DOOR
STACKED
SCREENS



JAMESTOWN175™
SERIES DOOR
LOCK IN STILE
MULTI-POINT LOCK



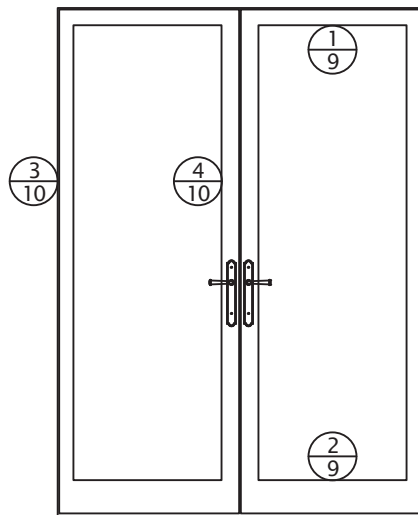
JAMESTOWN175™
SERIES DOOR
LOCK IN LOCKBOX
MORTISE LOCK



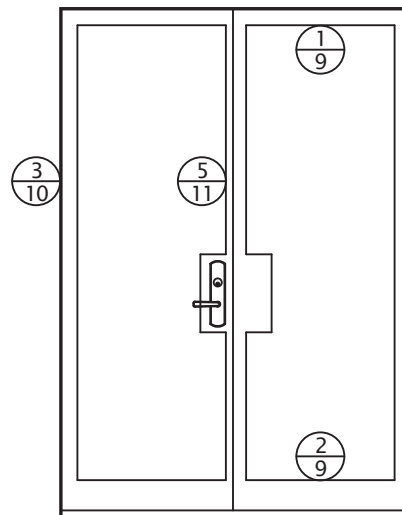
Screen door hardware trim is rose trim only.
Screen door does not incorporate the same
muntin configuration as glass door.

Glass door hardware trim is
rose or escutcheon trim.
Glass door can incorporate any
muntin configuration.

SCREEN DOOR
LOCK IN STILE

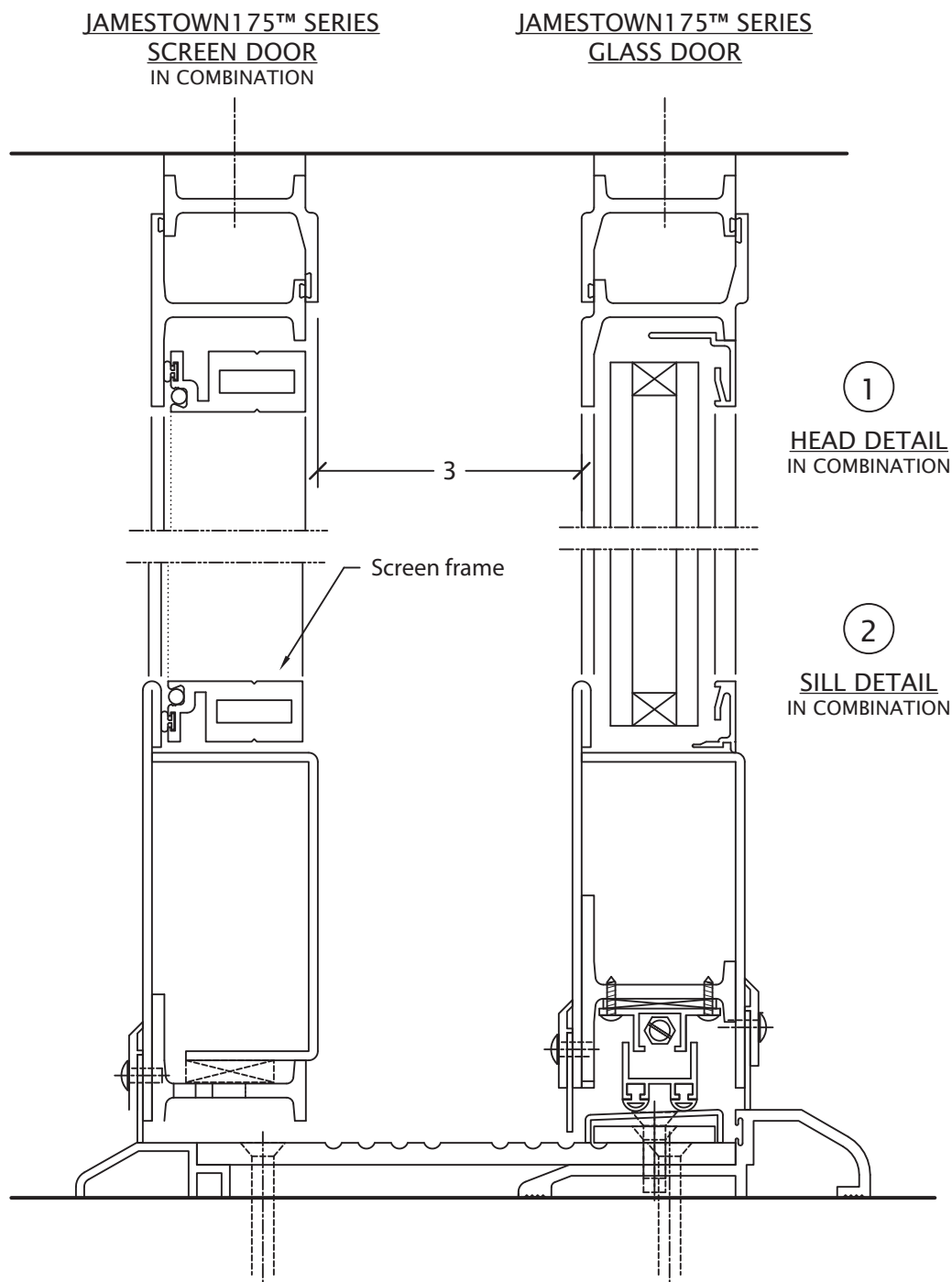


JAMESTOWN175™ SERIES DOOR
LOCK IN LOCKBOX
MORTISE LOCK

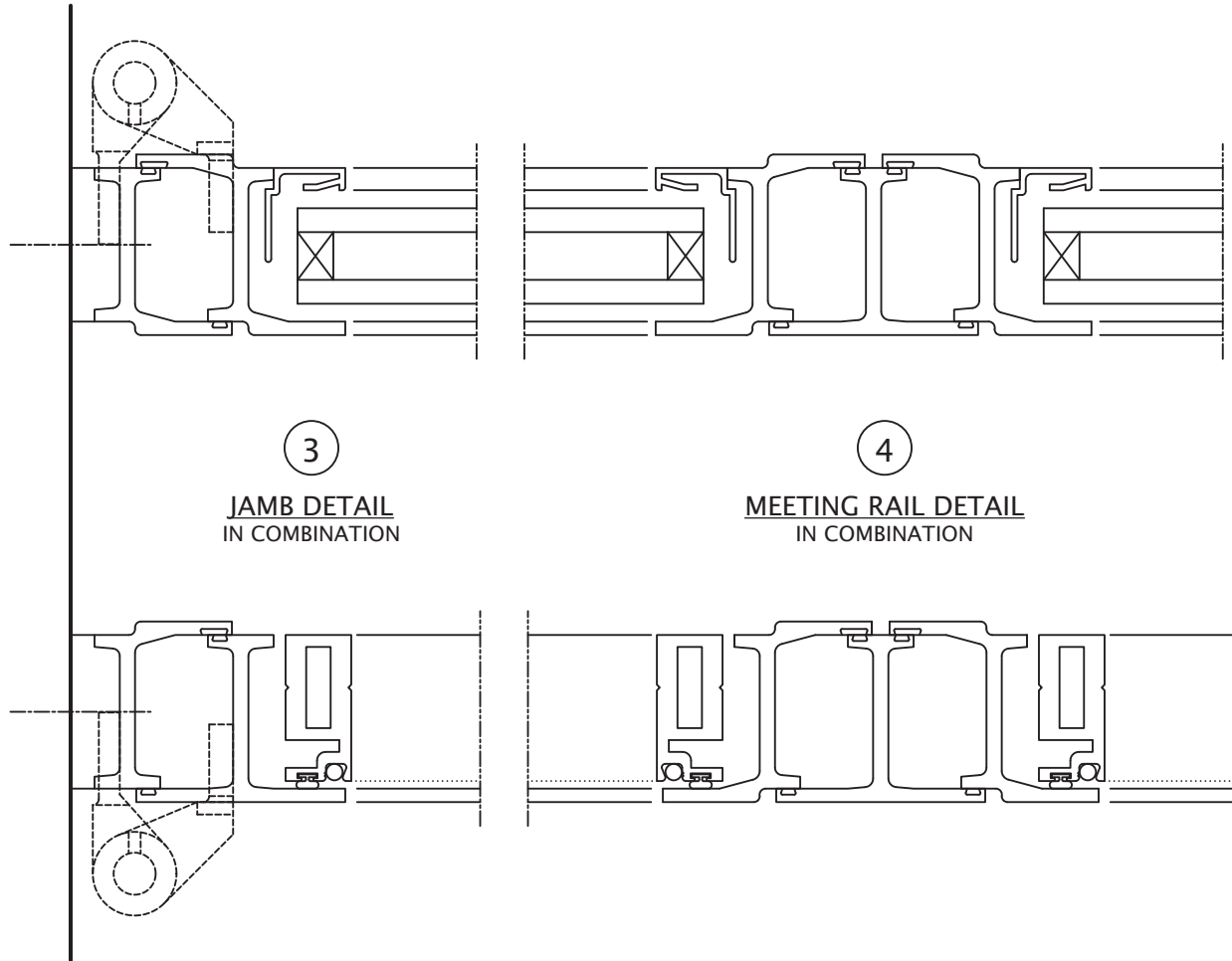


Glass door hardware trim is rose or escutcheon trim.
Glass door can incorporate any muntin configuration.

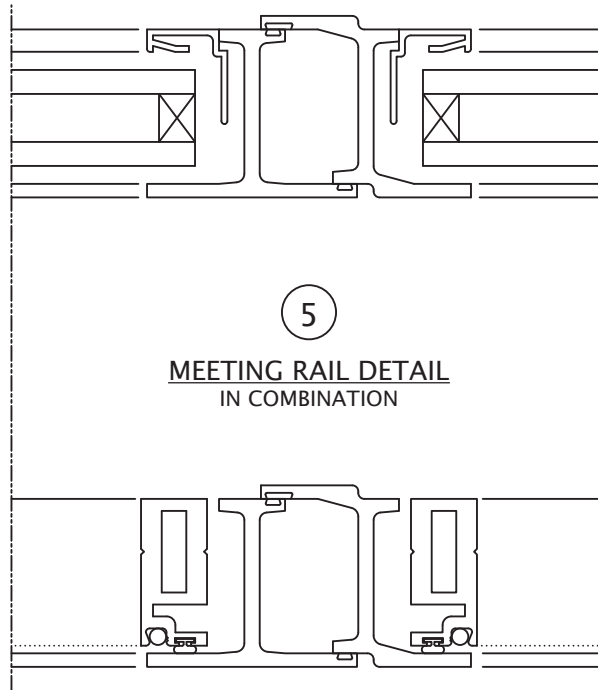
Elevations are for detail reference only. Elevations are not to scale.
All Hope's products are custom manufactured for your specific project requirements.



Details are half scale.

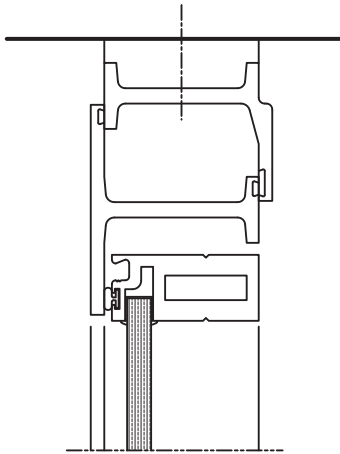


Details are half scale.

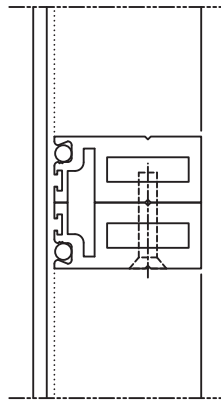


Details are half scale.

ALTERNATE STORM GLASS DETAIL



Screen frame and storm glass frame
are interchangeable in the door.



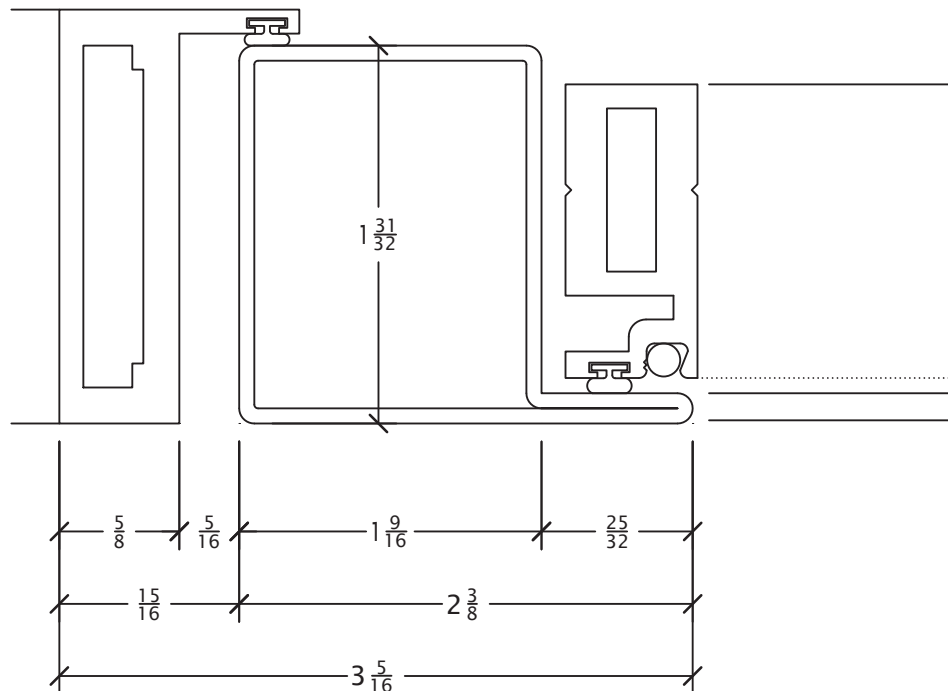
6

STACK DETAIL

Details are half scale.

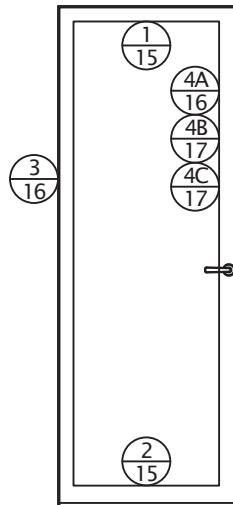
Hope's Hopkins Series™ screen door frames are custom formed steel profiles ideal for high-end residential applications. Hopkins Series screen doors can complement the Jamestown175™ Series, Landmark175™ Series and University Series™ swing doors.

- Screen frames are roll-formed from 20 gauge stainless steel
- Rewireable screen mesh available in the following:
 - Gun Metal Gray Aluminum (standard)
 - Aluminum
 - Fiberglass Black
 - Stainless Steel
 - Solid Bronze
- Non-corrosive vinyl splines
- Hope's Power of 5 Finishing System includes cleaning, pretreatment, epoxy e-coat primer, epoxy powder primer and ultrathane polyurethane top coat

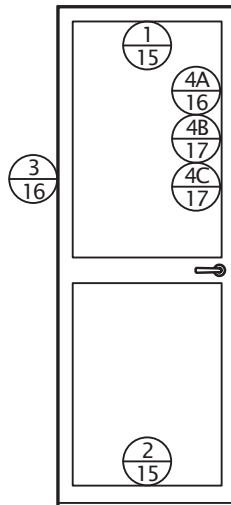


Details are full scale.

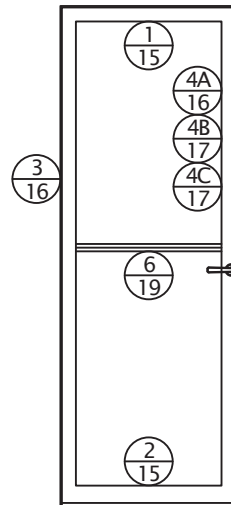
SCREEN DOOR
LOCK IN STILE



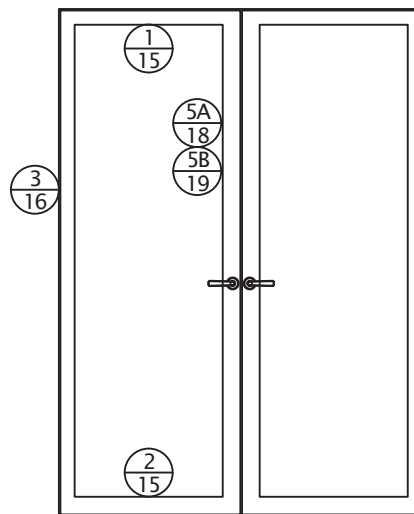
SCREEN DOOR
LOCK IN RAIL



SCREEN DOOR
STACKED
SCREENS

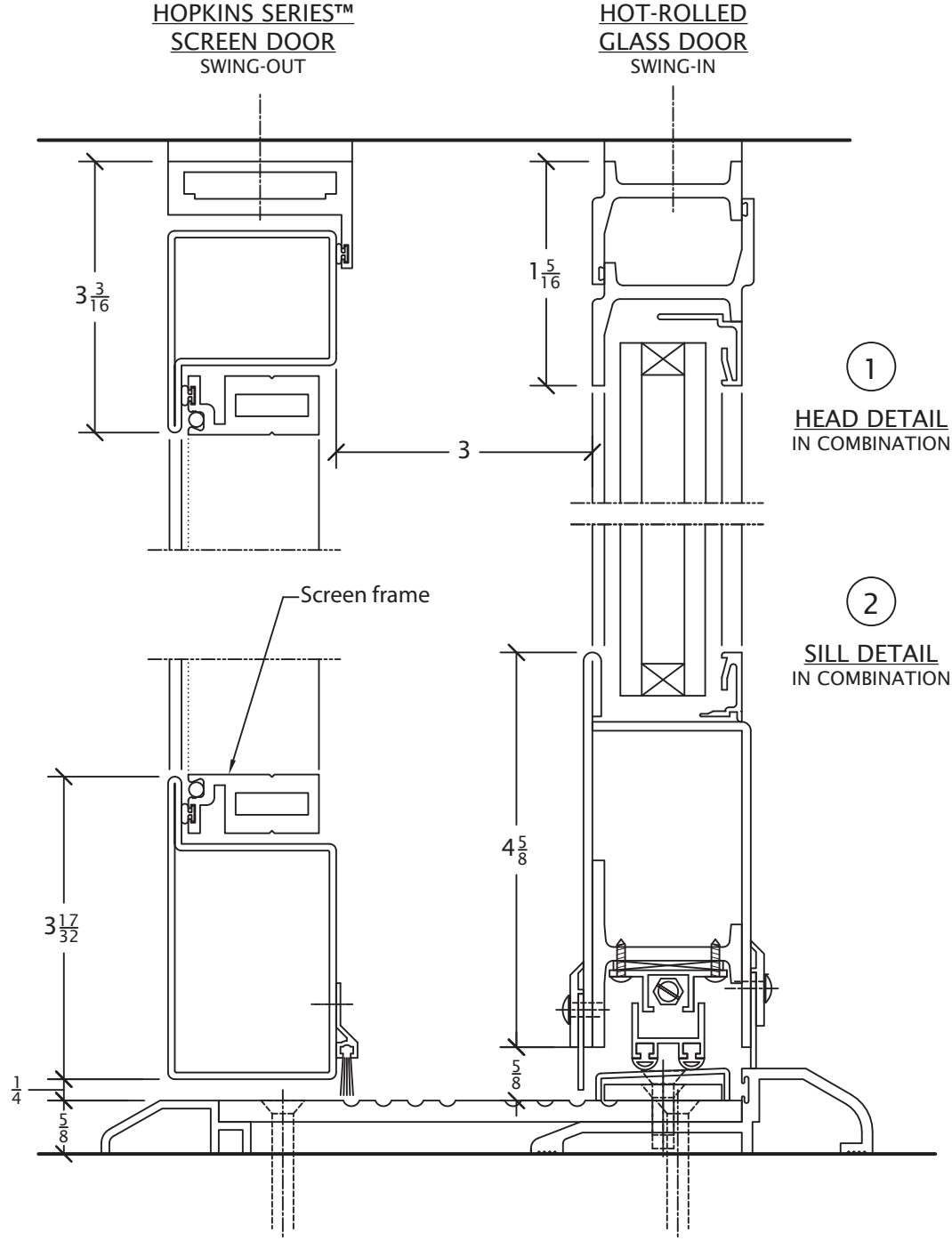


SCREEN DOOR
LOCK IN STILE

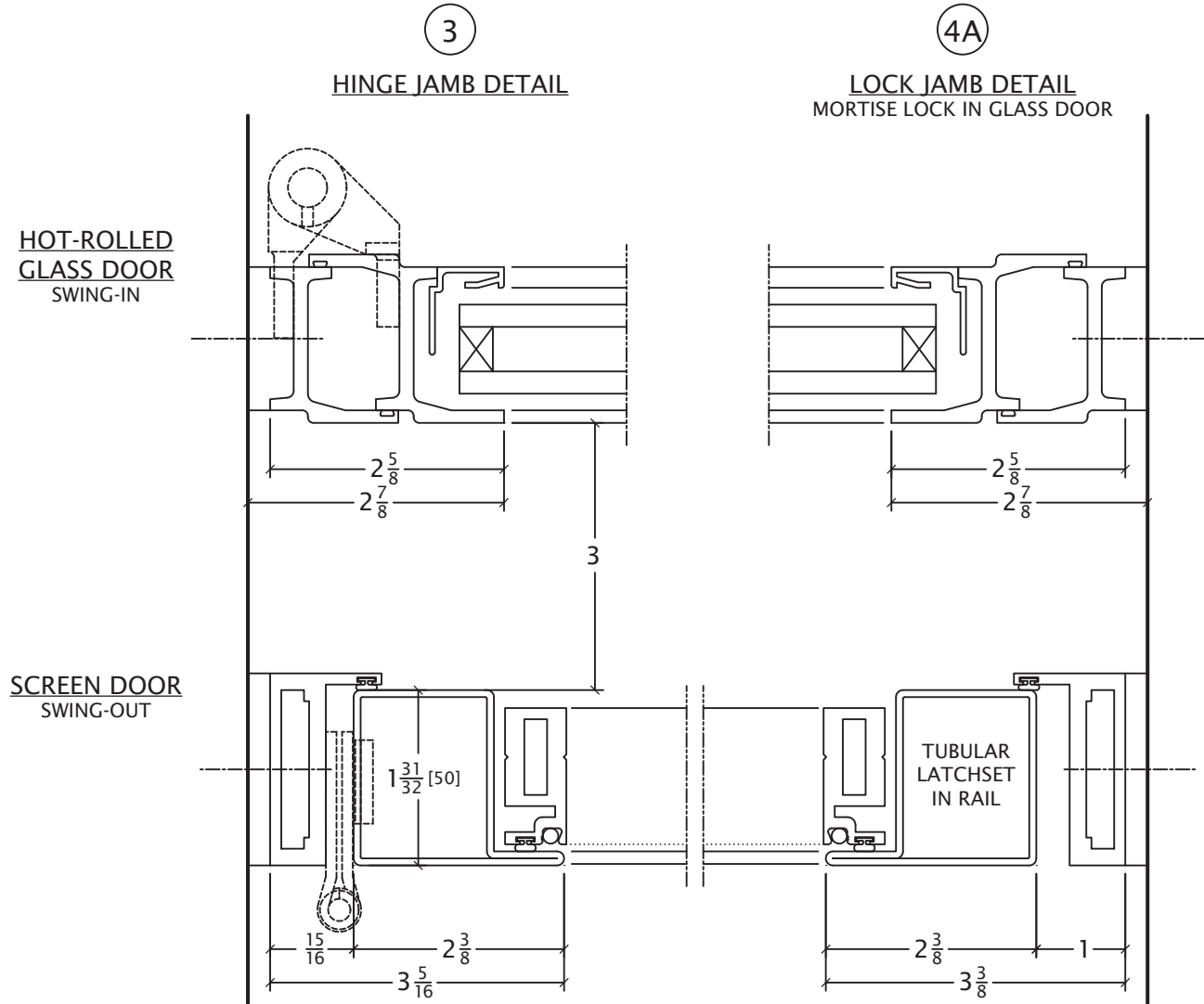


Screen door hardware trim is rose trim only.
Screen door does not incorporate the same
muntin configuration as glass door.

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



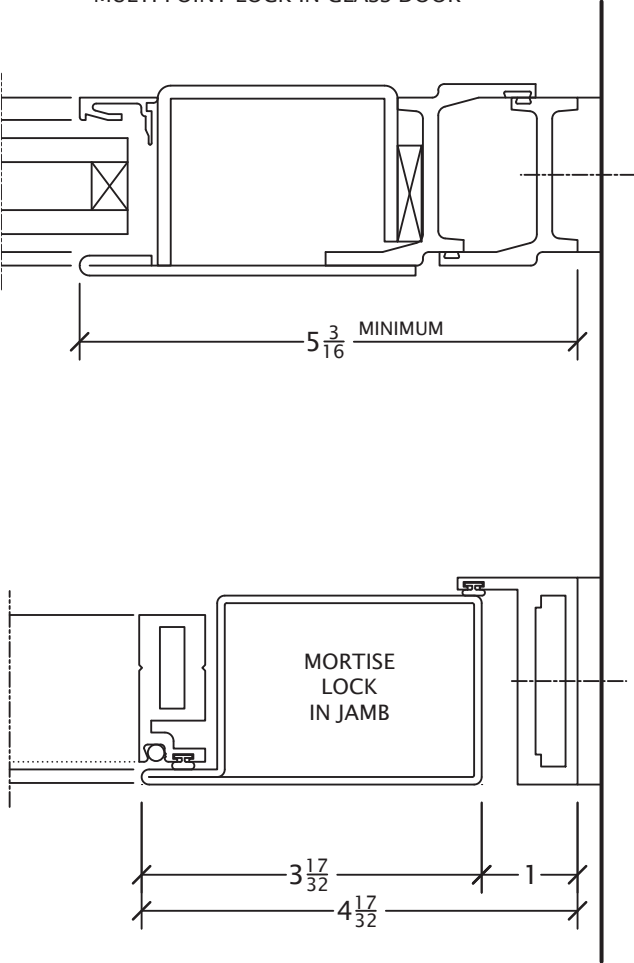
Details are half scale.



Details are half scale.

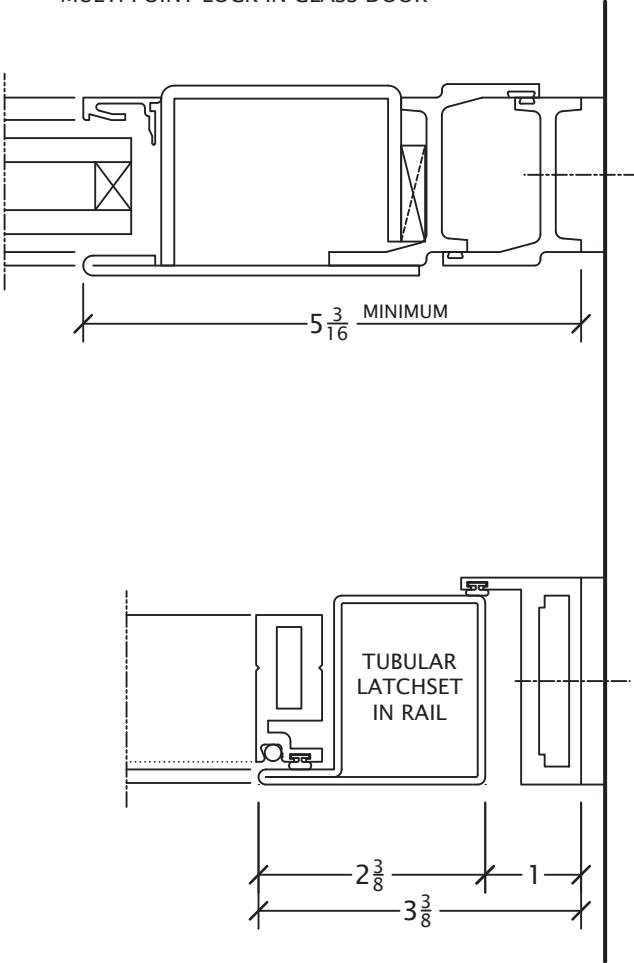
4B

LOCK JAMB DETAIL
MULTI-POINT LOCK IN GLASS DOOR



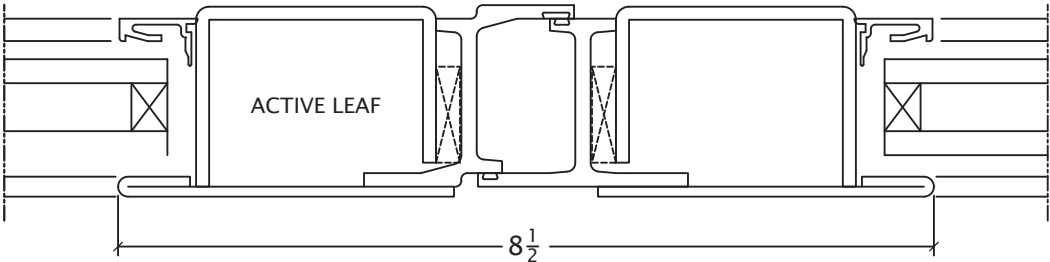
4C

LOCK JAMB DETAIL
MULTI-POINT LOCK IN GLASS DOOR



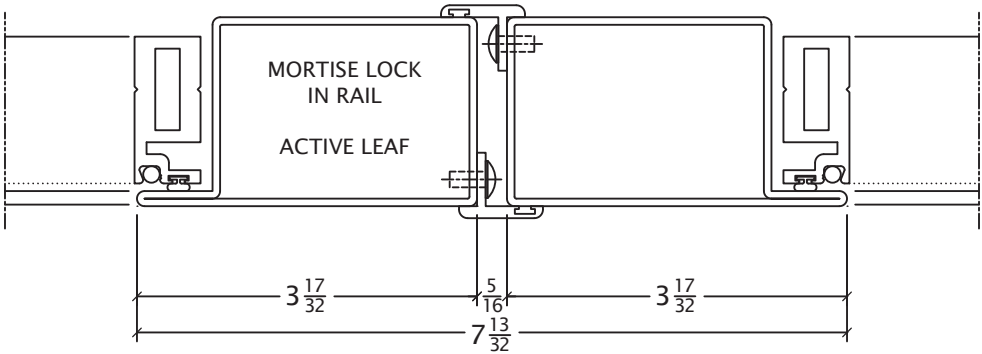
Details are half scale.

HOT-ROLLED
GLASS DOOR
SWING-IN



5A

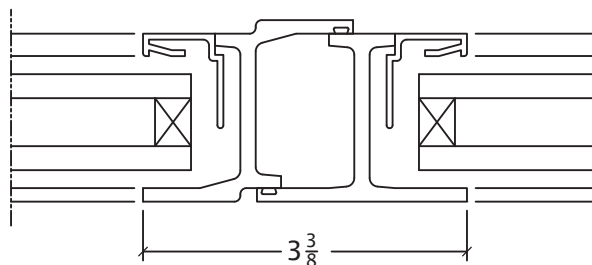
MEETING RAIL DETAIL



SCREEN DOOR
SWING-OUT

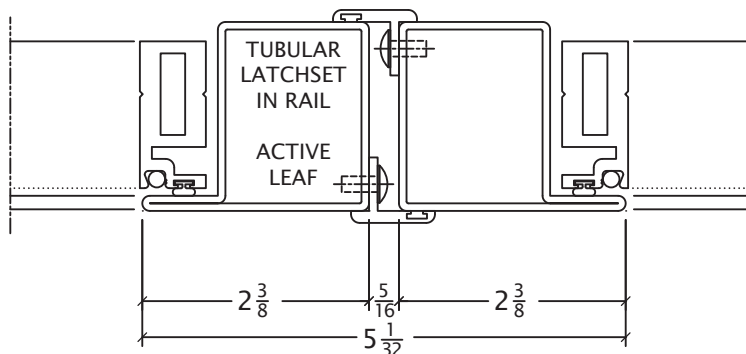
Details are half scale.

HOT-ROLLED
GLASS DOOR
SWING-IN

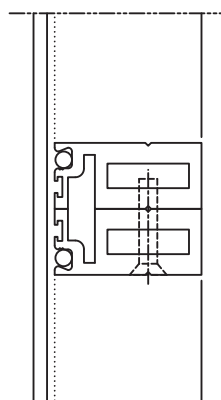


5B

MEETING RAIL DETAIL
MEETING RAIL WITH MORTISE LOCK



SCREEN DOOR
SWING-OUT



6

STACK DETAIL

Details are half scale.

INTENTIONALLY LEFT BLANK

HOPE'S[®]

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