



TECHNICAL GUIDE

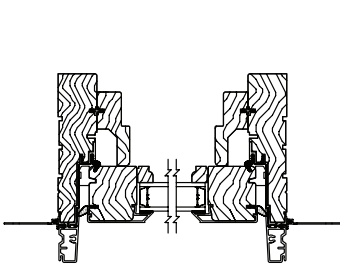
LINCOLN WOOD PRODUCTS, INC.

02.2019

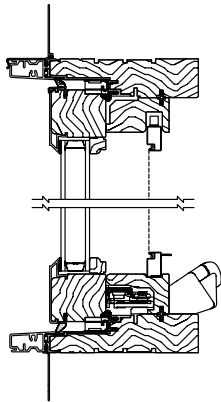
This data accurate as of 01/2019. Reference www.lincolnwindows.com for most current information.

Casement

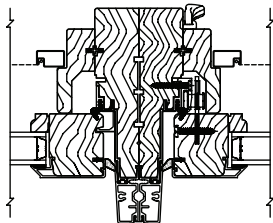
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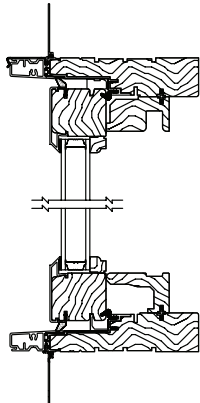
Clad Horizontal Section



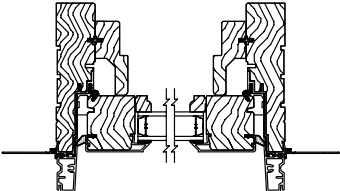
Clad Vertical Section



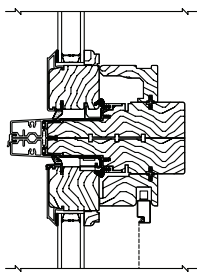
Clad Vertical Mull
Horizontal Section



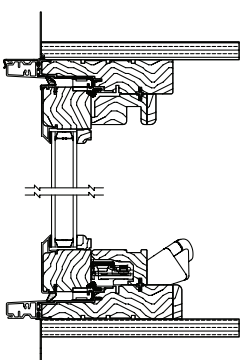
Clad Studio
Vertical Section



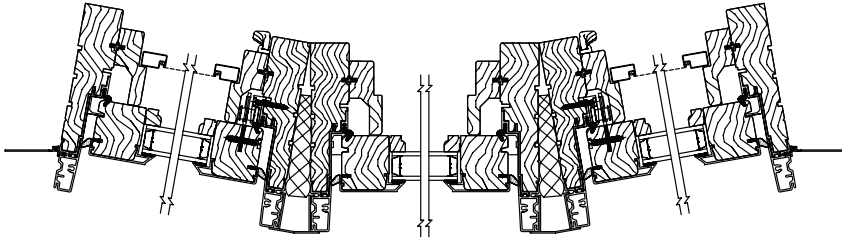
Clad Studio
Horizontal Section



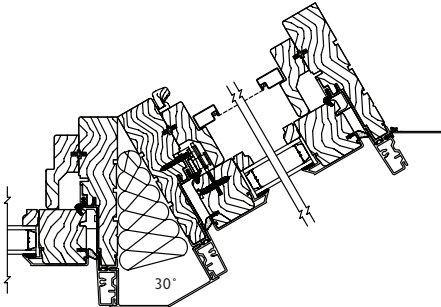
Clad Horizontal Mull
Vertical Section



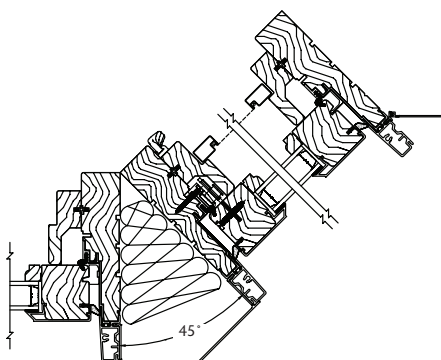
Clad Bow & Bay
Vertical Section



Clad Bow Horizontal Section



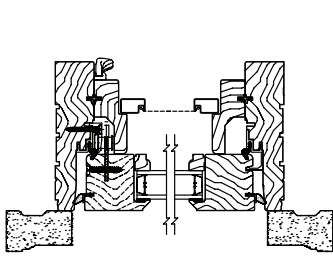
Clad 30° Bay Mull Horizontal Section



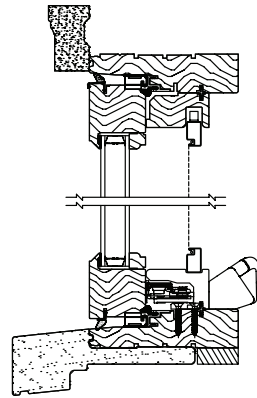
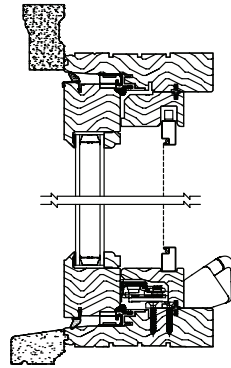
Clad 45° Bay Mull Horizontal Section

Casement

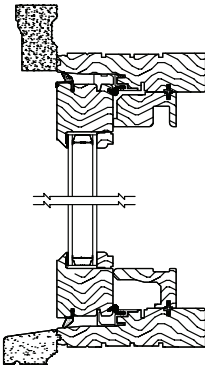
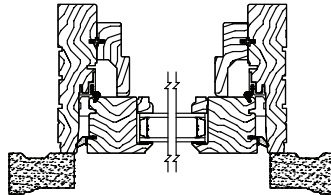
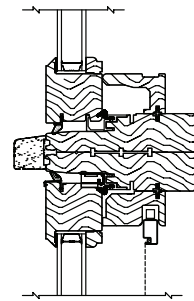
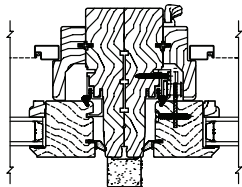
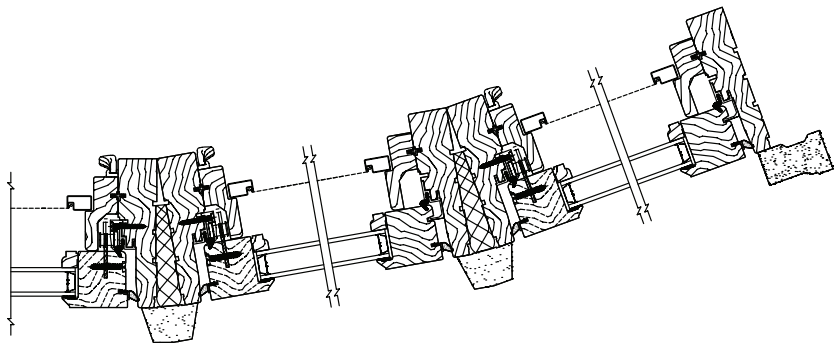
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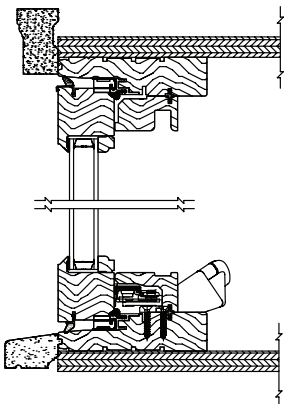
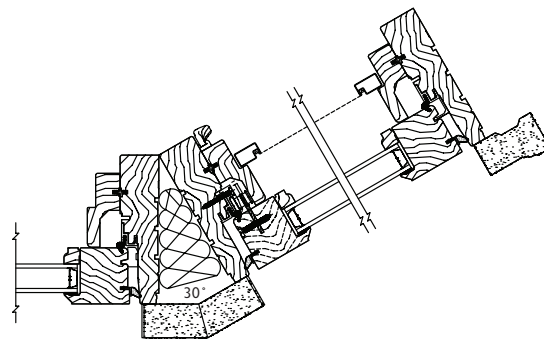
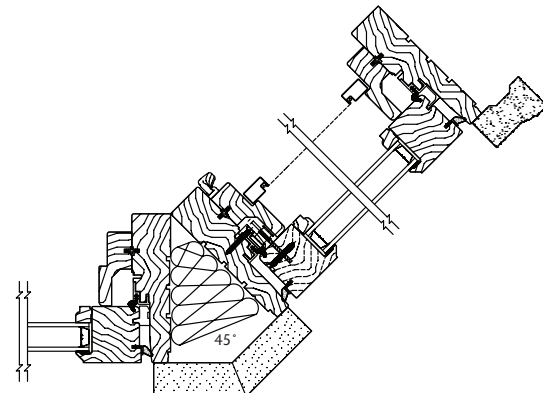
Primed Horizontal Section

Primed with 2" Sill Nosing
Vertical Section

Primed Vertical Section

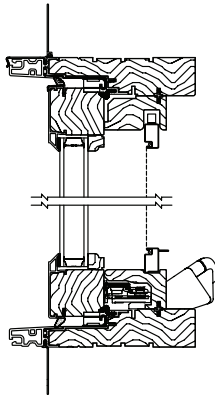
Primed Studio
Vertical SectionPrimed Studio
Horizontal SectionPrimed Horizontal Mull
Vertical SectionPrimed Vertical Mull
Horizontal Section

Primed Bow Mull Horizontal Section

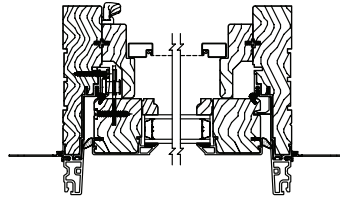
Primed Bow & Bay
Vertical SectionPrimed 30° Bay Mull Horizontal
SectionPrimed 45° Bay Mull Horizontal
Section

Casement

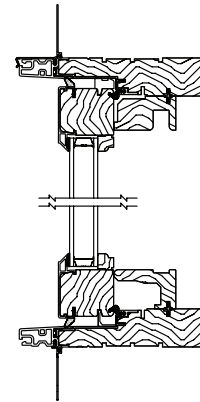
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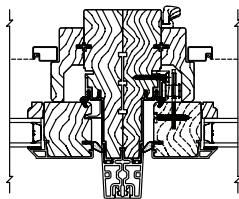
Vinyl Clad
Horizontal Section



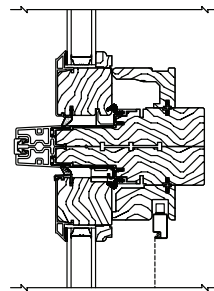
Vinyl Clad
Vertical Section



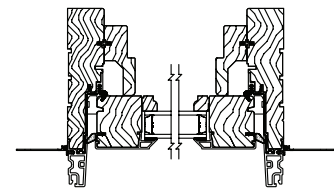
Vinyl Clad Studio Unit
Vertical Section



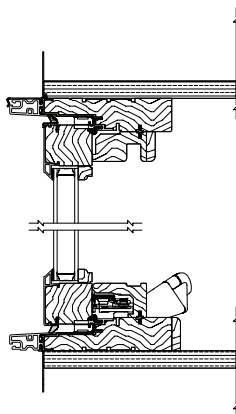
Vinyl Clad Vertical Mull
Horizontal Section



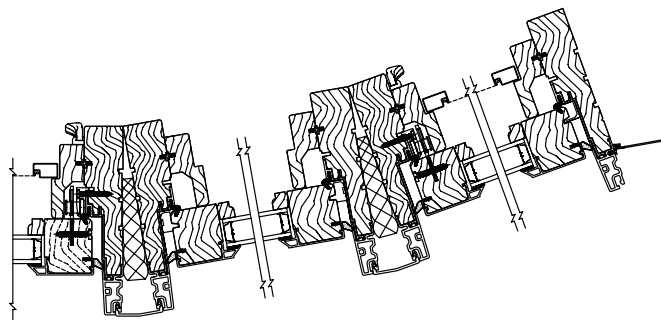
Vinyl Clad Horizontal Mull
Vertical Section



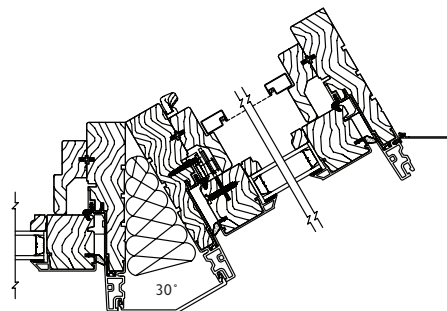
Vinyl Clad Studio Unit
Horizontal Section



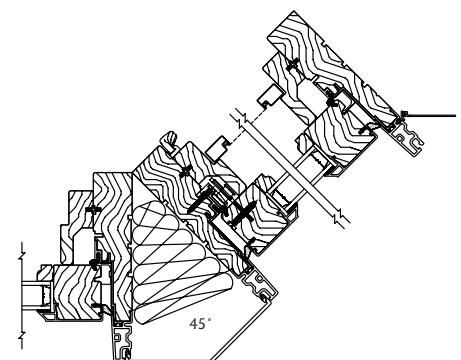
Vinyl Clad Bow & Bay
Vertical Section



Vinyl Clad Bow Horizontal Section



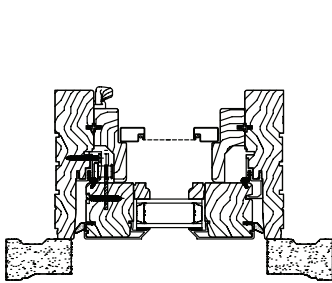
Vinyl Clad 30° Bay Mull Horizontal Section



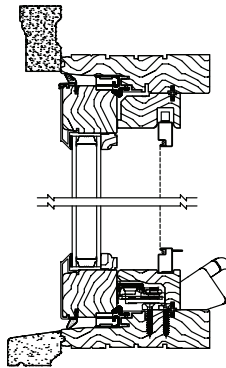
Vinyl Clad 45° Bay Mull Horizontal Section

Casement

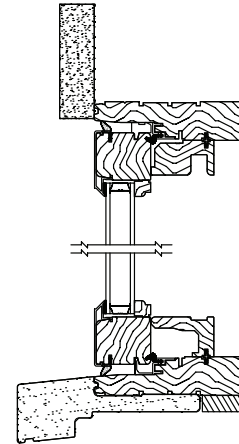
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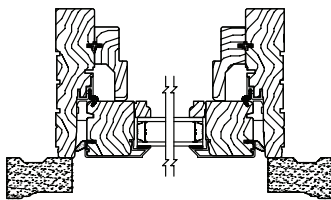
Hybrid with Clad Sash
Horizontal Section



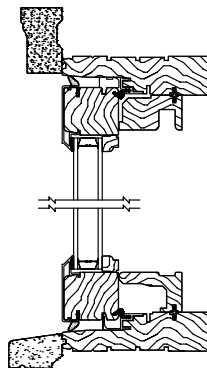
Hybrid with Clad Sash
Vertical Section



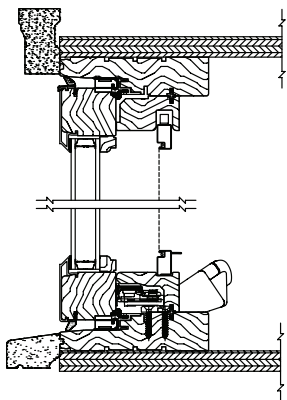
Hybrid with Clad Sash
and 2" Sill Nosing
Vertical Section



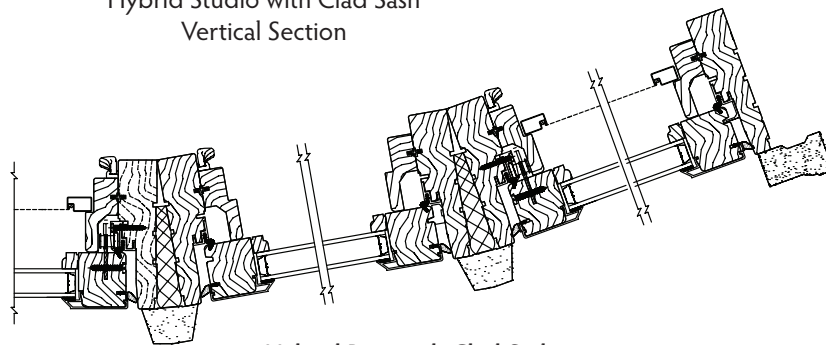
Hybrid Studio with Clad Sash
Horizontal Section



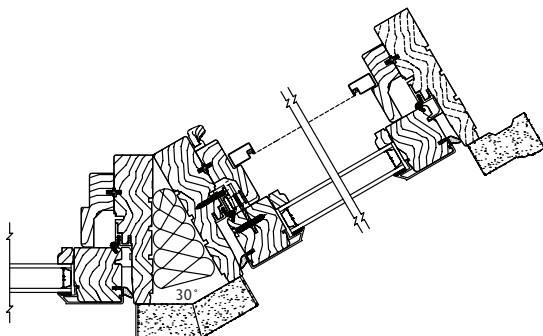
Hybrid Studio with Clad Sash
Vertical Section



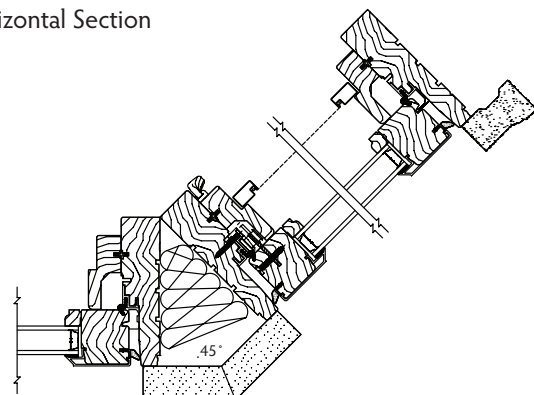
Hybrid Bow & Bay
with Clad Sash
Vertical Section



Hybrid Bow with Clad Sash
Horizontal Section



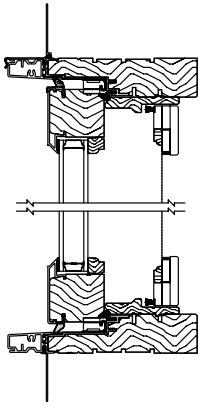
Hybrid 30° Bay Mull with Clad Sash
Horizontal Section



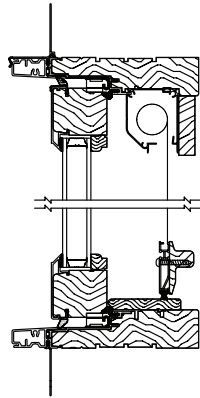
Hybrid 45° Bay Mull with Clad Sash
Horizontal Section

Casement - Push-Out Hardware

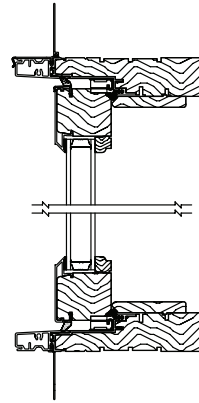
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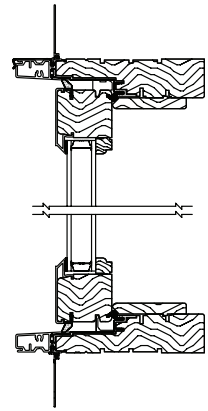
Clad Push-Out with
Wood Screen
Vertical Section



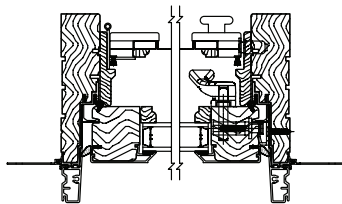
Clad Push-Out with
Retractable Screen
Vertical Section



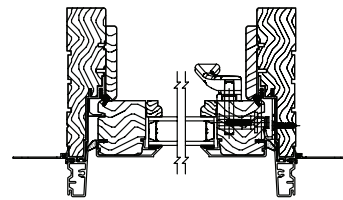
Clad Push-Out with
No Screen
Vertical Section



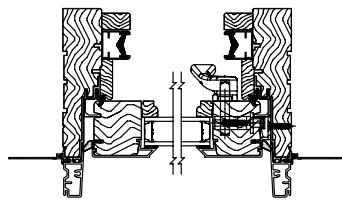
Clad Push-Out Studio
Vertical Section



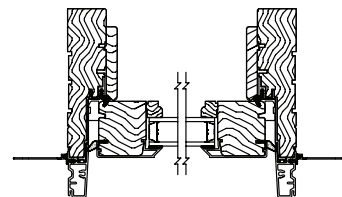
Clad Push-Out with
Wood Screen
Horizontal Section



Clad Push-Out with
No Screen
Horizontal Section



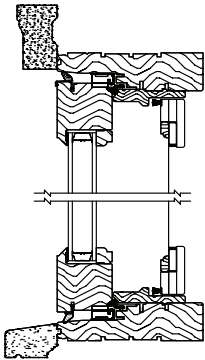
Clad Push-Out with
Retractable Screen
Horizontal Section



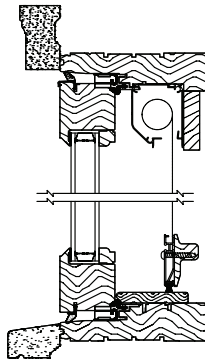
Clad Push-Out Studio
Horizontal Section

Casement - Push-Out Hardware

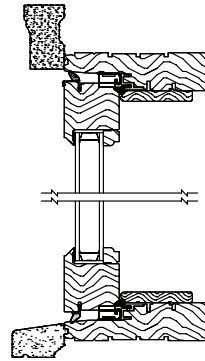
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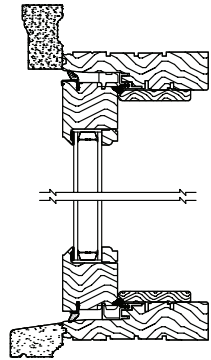
Primed Push-Out with
Wood Screen
Vertical Section



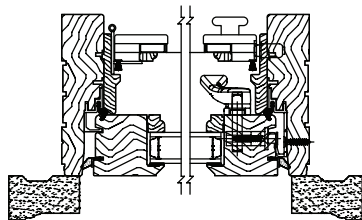
Primed Push-Out with
Retractable Screen
Vertical Section



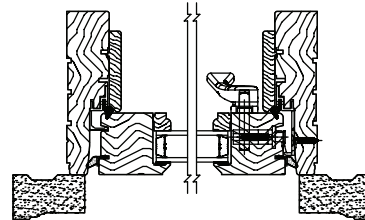
Primed Push-Out with
No Screen
Vertical Section



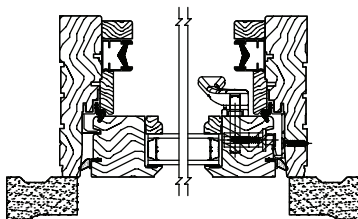
Primed Push-Out Studio
Vertical Section



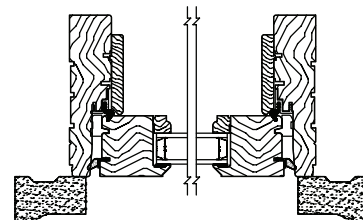
Primed Push-Out with
Wood Screen
Horizontal Section



Primed Push-Out with
No Screen
Horizontal Section



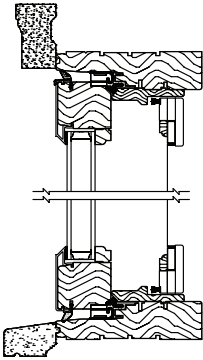
Primed Push-Out with
Retractable Screen
Horizontal Section



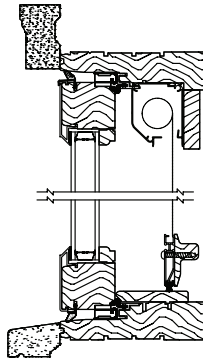
Primed Push-Out Studio
Horizontal Section

Casement - Push-Out Hardware

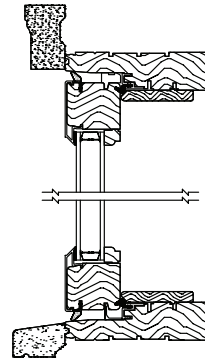
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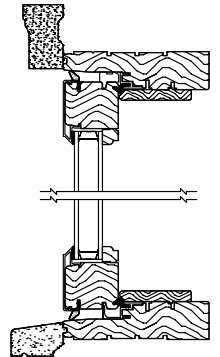
Hybrid Push-Out with
Clad Sash and Wood Screen
Vertical Section



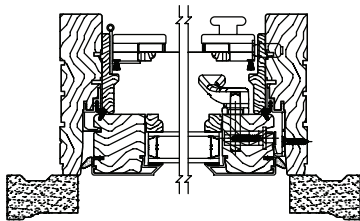
Hybrid Push-Out with
Clad Sash and Retractable Screen
Vertical Section



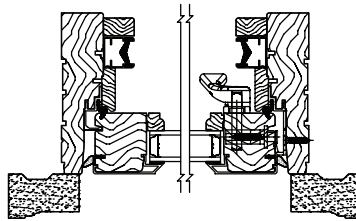
Hybrid Push-Out with
Clad Sash and No Screen
Vertical Section



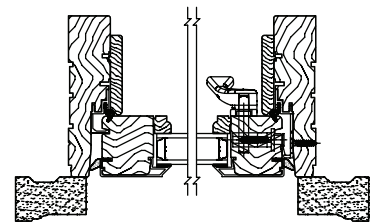
Hybrid Push-Out Studio
with Clad Sash
Vertical Section



Hybrid Push-Out with
Wood Screen
Horizontal Section



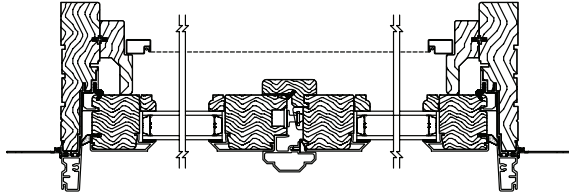
Hybrid Push-Out with
Retractable Screen
Horizontal Section



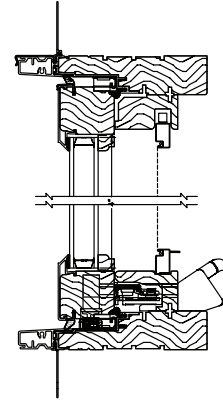
Hybrid Push-Out with
Clad Sash and No Screen
Horizontal Section

French Casement

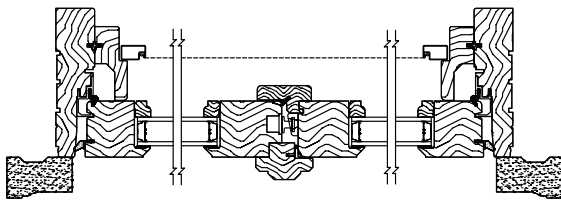
Scale: 2"=1' (all sections)



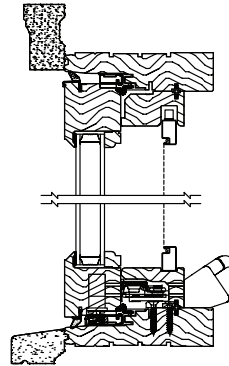
Clad French Casement
Horizontal Section



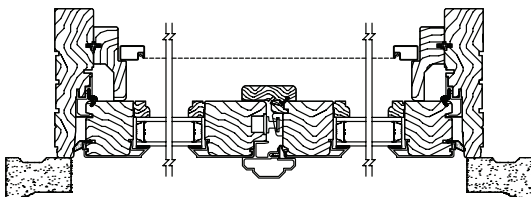
Clad French Casement
Vertical Section



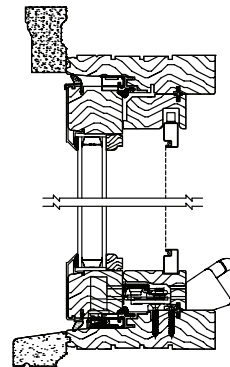
Primed French Casement
Horizontal Section



Primed French Casement
Vertical Section



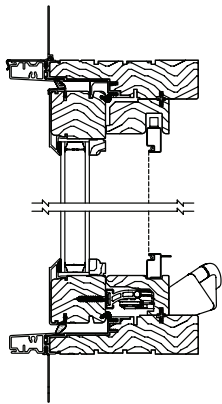
Hybrid French Casement
Horizontal Section



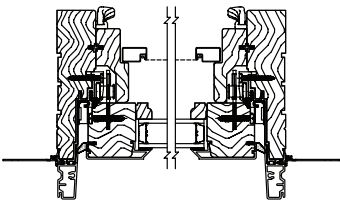
Hybrid French Casement
Vertical Section

Awning

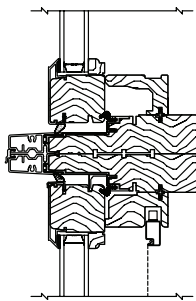
Scale: 2"=1' (all sections)



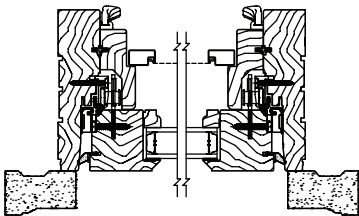
Clad Vertical Section



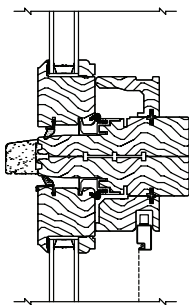
Clad Horizontal Section



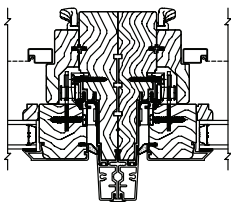
Clad Horizontal Mull Vertical Section



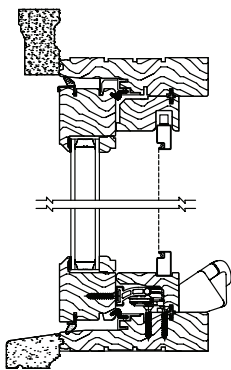
Primed Horizontal Section



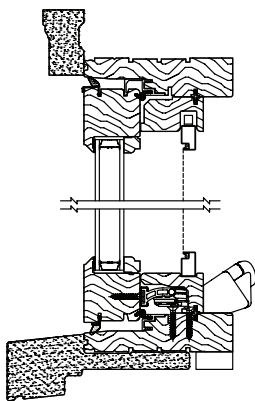
Primed Horizontal Mull Vertical Section



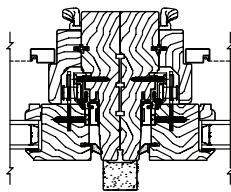
Clad Vertical Mull Horizontal Section



Primed Vertical Section



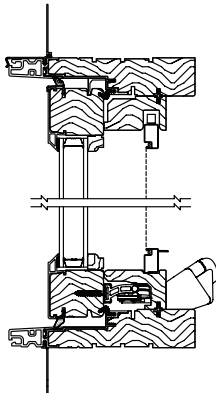
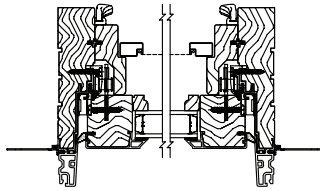
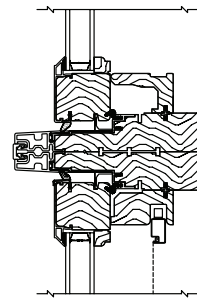
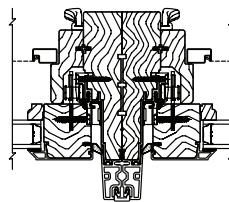
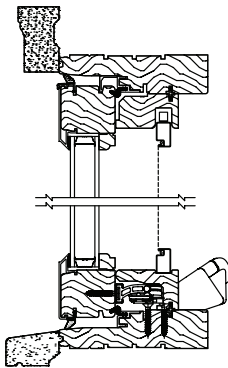
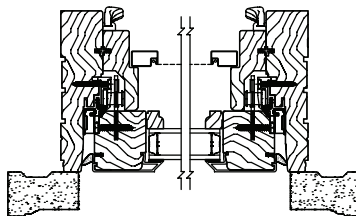
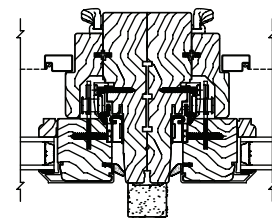
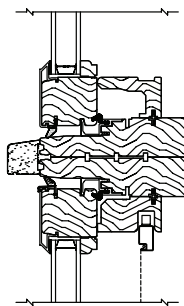
Primed w/ 2" Sill Nosing Vertical Section



Primed Vertical Mull Horizontal Section

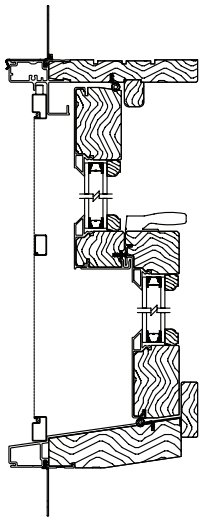
Awning

Scale: 2"=1' (all sections)

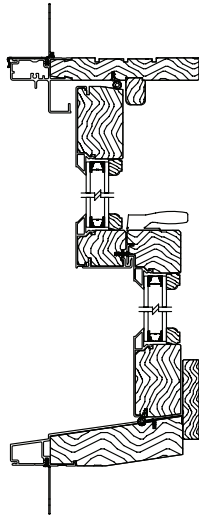
Vinyl Clad
Vertical SectionVinyl Clad
Horizontal SectionVinyl Clad Horizontal Mull
Vertical SectionVinyl Clad Vertical Mull
Horizontal SectionHybrid with Clad Sash
Vertical SectionHybrid with Clad Sash
Horizontal SectionHybrid with Clad Sash
Vertical Mull
Horizontal SectionHybrid with Clad Sash
Horizontal Mull
Vertical Section

Double Hung

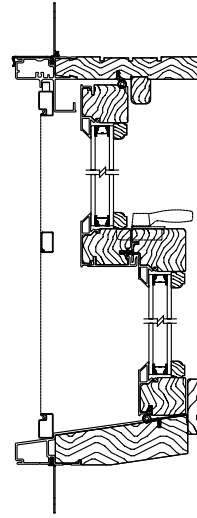
Scale: 2"=1' (all sections)



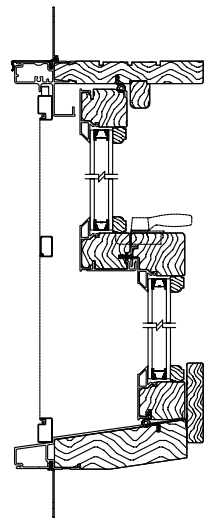
Clad DH - Wide Rails
Vertical Section



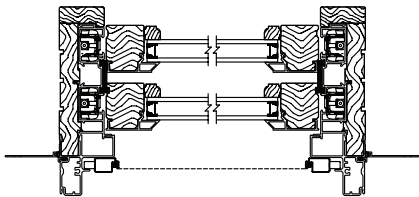
Clad DH - Wide Rails
PG50 Upgrade
Vertical Section



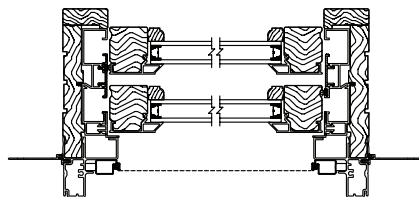
Clad DH - Narrow Rails
Vertical Section



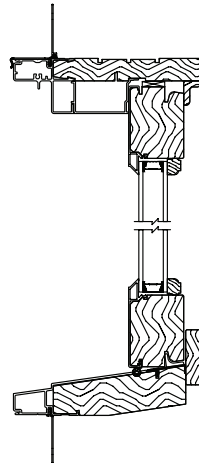
Clad DH - Narrow Rails
PG50 Upgrade
Vertical Section



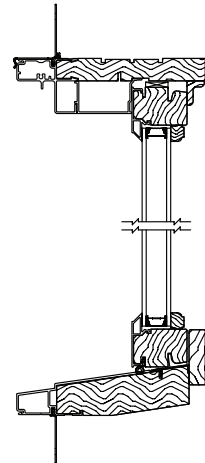
Clad DH w/ Standard Jamblers
Horizontal Section



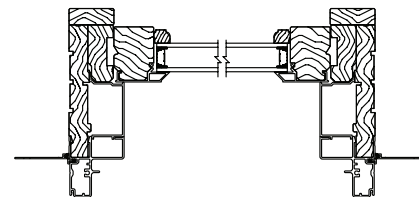
Clad DH w/ Concealed Jamblers
Horizontal Section



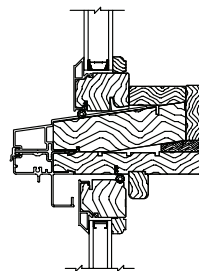
Clad DH Studio
Wide Rails
Vertical Section



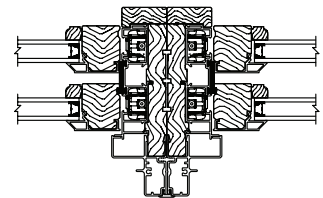
Clad DH Studio
Narrow Rails
Vertical Section



Clad DH Studio
Horizontal Section



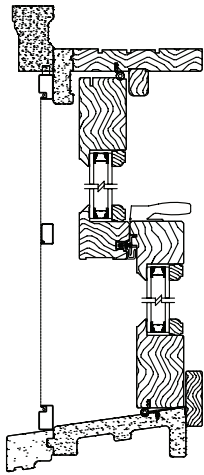
Clad Horizontal Transom
Mull Vertical Section



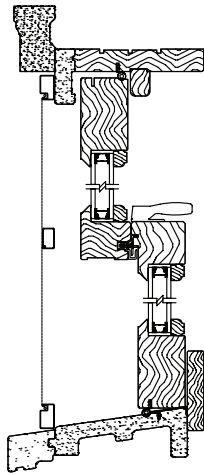
Clad Vertical Mull
Horizontal Section

Double Hung

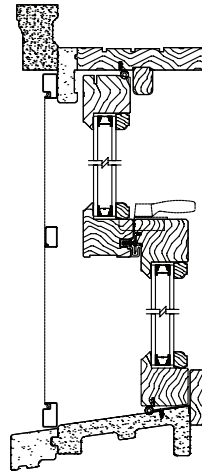
Scale: 2"=1' (all sections)



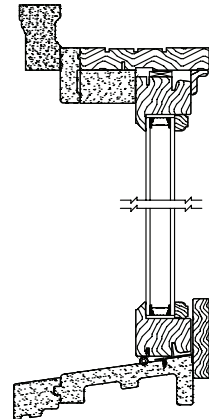
Primed DH - Wide Rails
Vertical Section



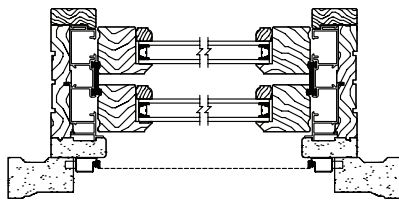
Primed DH - Wide Rails
PG50 Upgrade
Vertical Section



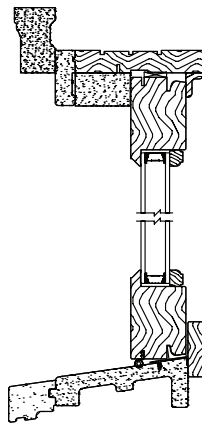
Primed DH - Narrow Rails
Vertical Section



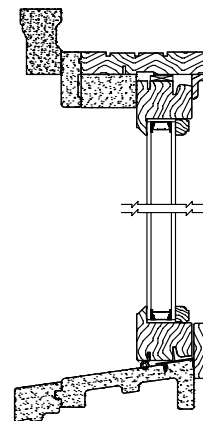
Primed DH - Narrow Rails
PG50 Upgrade
Vertical Section



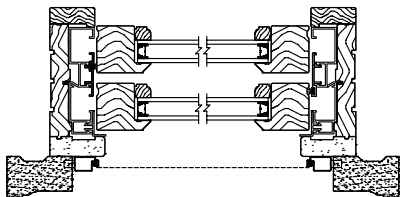
Primed DH w/ Standard
Jamb liners
Horizontal Section



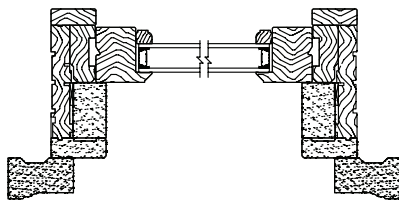
Primed DH Studio
Wide Rails
Vertical Section



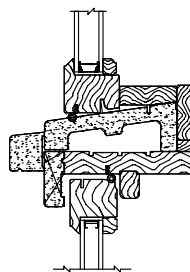
Primed DH Studio
Narrow Rails
Vertical Section



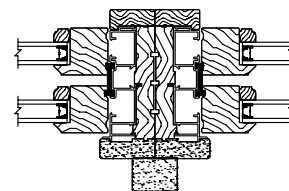
Primed DH w/ Concealed Jamb liners
Horizontal Section



Primed DH Studio
Horizontal Section



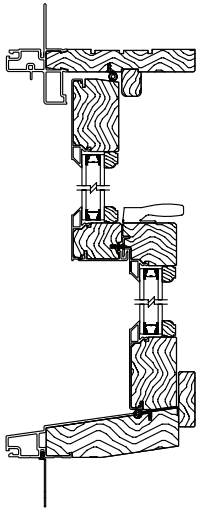
Primed Horizontal Transom
Mull Vertical Section



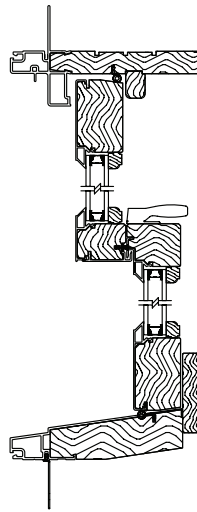
Primed Vertical Mull
Horizontal Section

Double Hung

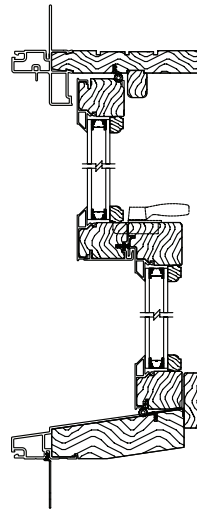
Scale: 2"=1' (all sections)



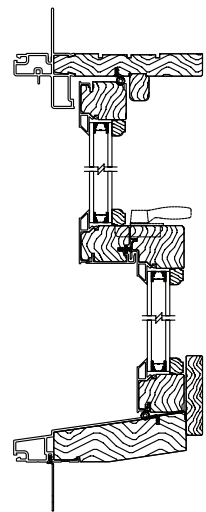
Vinyl Clad DH - Wide Rails
Vertical Section



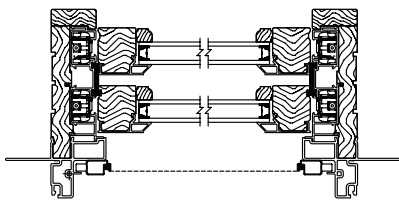
Vinyl Clad DH - Wide Rails
PG50 Upgrade
Vertical Section



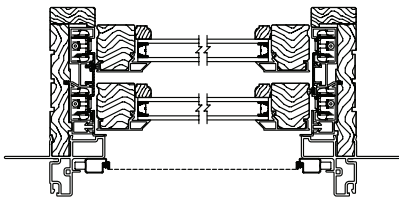
Vinyl Clad DH - Narrow Rails
Vertical Section



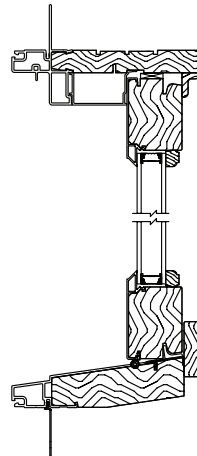
Vinyl Clad DH - Narrow Rails
PG50 Upgrade
Vertical Section



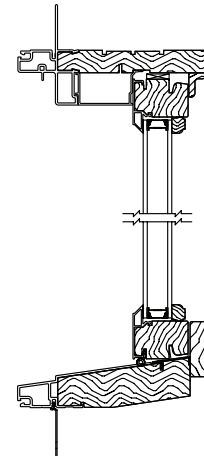
Vinyl Clad DH
w/ Standard Jamblers
Horizontal Section



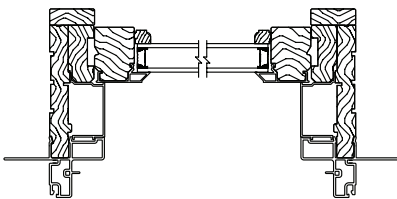
Vinyl Clad DH
w/ Concealed Jamblers
Horizontal Section



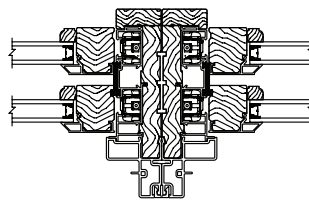
Vinyl Clad DH Studio
Wide Rails
Vertical Section



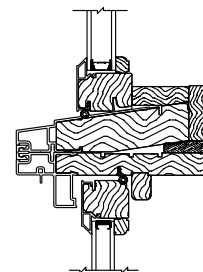
Vinyl Clad DH Studio
Narrow Rails
Vertical Section



Vinyl Clad DH Studio
Horizontal Section



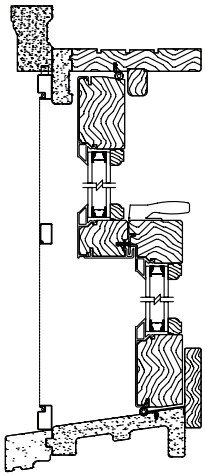
Vinyl Clad Horizontal Transom
Mull Vertical Section



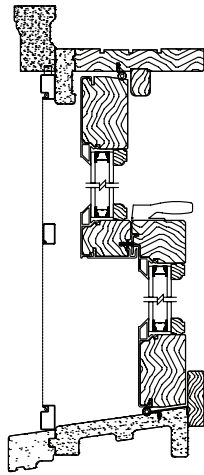
Vinyl Clad Vertical Mull
Horizontal Section

Double Hung

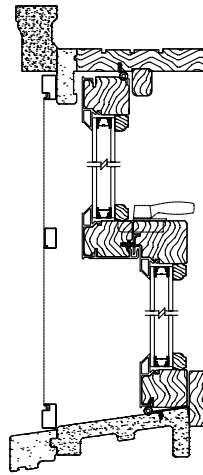
Scale: 2"=1' (all sections)



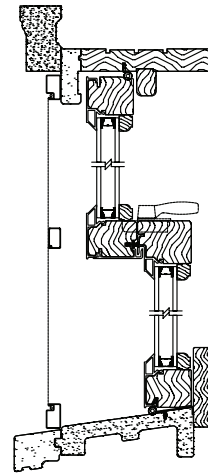
Hybrid Clad DH - Wide Rails
Vertical Section



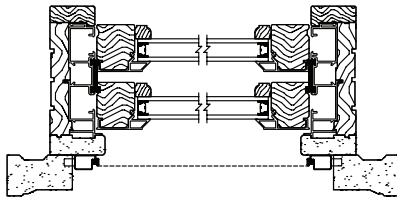
Hybrid Clad DH - Wide Rails
PG50 Upgrade
Vertical Section



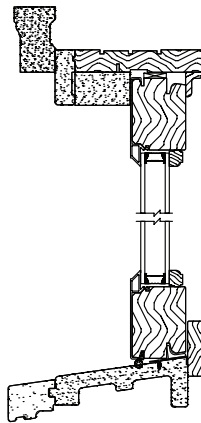
Hybrid Clad DH - Narrow Rails
Vertical Section



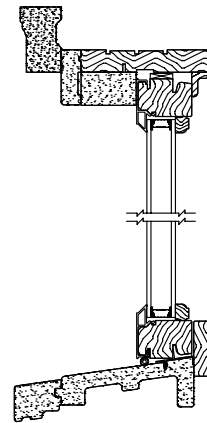
Hybrid Clad DH - Narrow Rails
PG50 Upgrade
Vertical Section



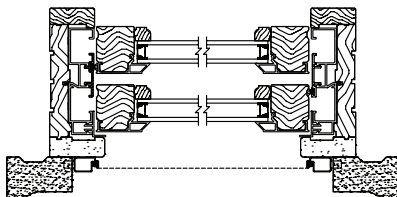
Hybrid Clad DH
w/ Standard Jambliners
Horizontal Section



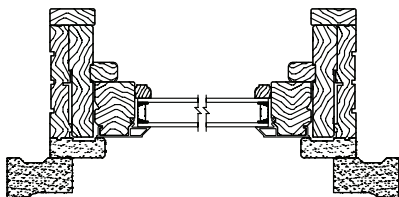
Hybrid Clad DH Studio
Wide Rails
Vertical Section



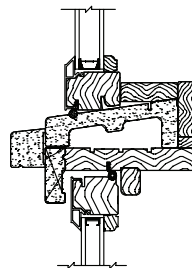
Hybrid Clad DH Studio
Narrow Rails
Vertical Section



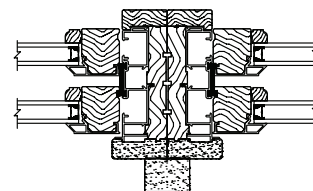
Hybrid Clad DH
w/ Concealed Jambliners
Horizontal Section



Hybrid Clad DH Studio
Horizontal Section



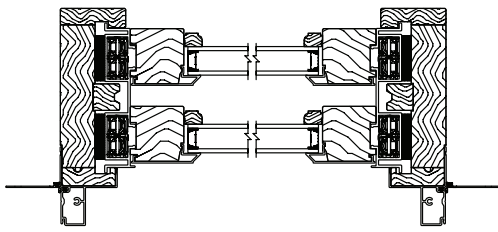
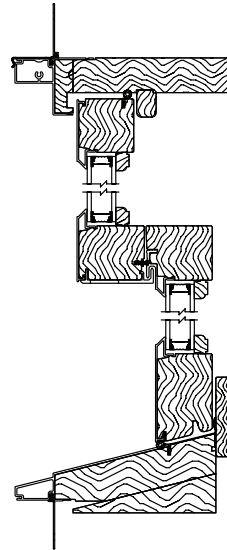
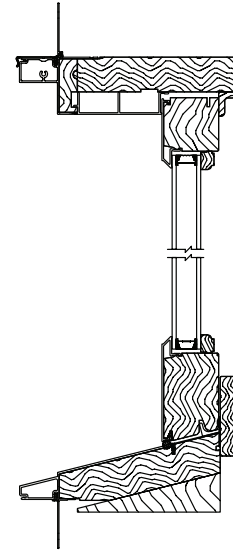
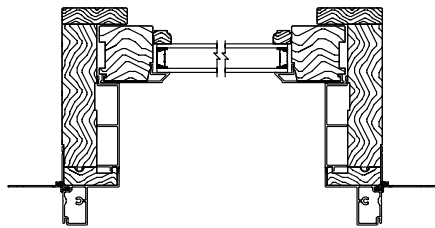
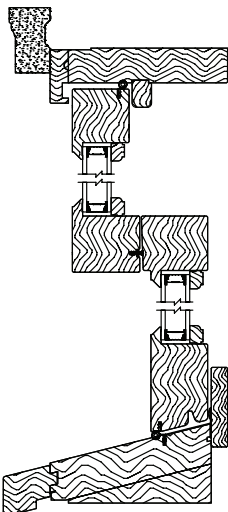
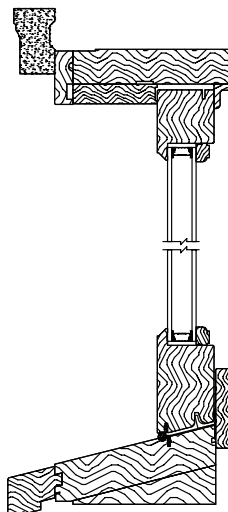
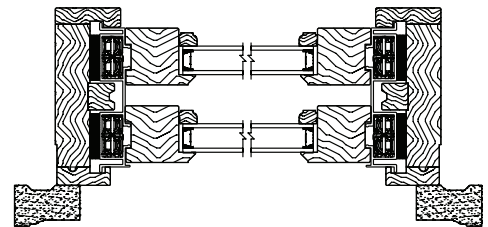
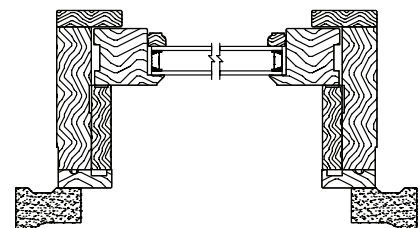
Hybrid Clad Horizontal Transom
Mull Vertical Section



Hybrid Clad Vertical Mull
Horizontal Section

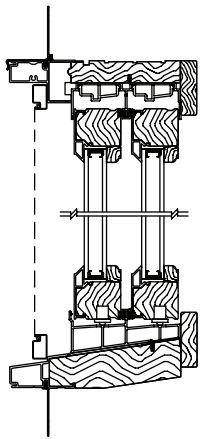
Quantum Double Hung

Scale: 2"=1' (all sections)

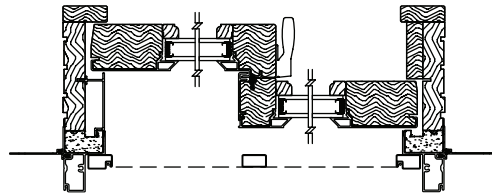
Clad Quantum
Horizontal SectionClad Quantum
Vertical SectionClad Quantum Studio
Vertical SectionClad Quantum Studio
Horizontal SectionPrimed Quantum
Vertical SectionPrimed Quantum Studio
Vertical SectionPrimed Quantum
Horizontal SectionPrimed Quantum Studio
Horizontal Section

Glider

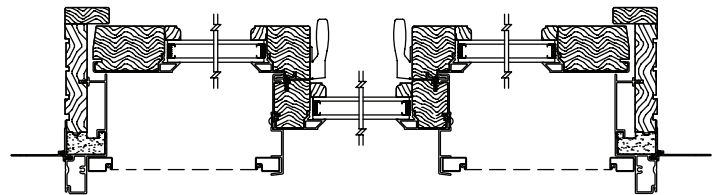
Scale: 2"=1' (all sections)



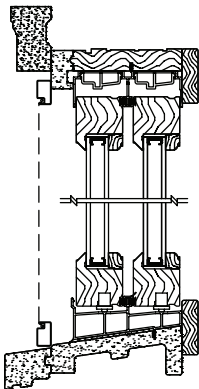
Clad Glider
Vertical Section



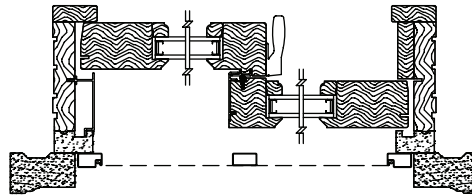
Clad Glider
Horizontal Section



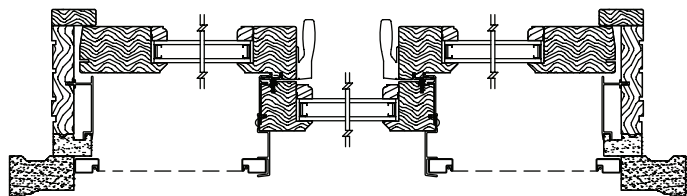
Clad Triple Glider
Horizontal Section



Primed Glider
Vertical Section



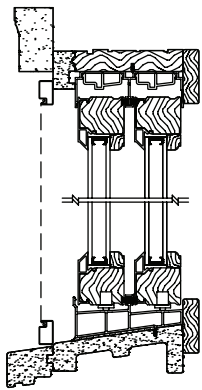
Primed Glider
Horizontal Section



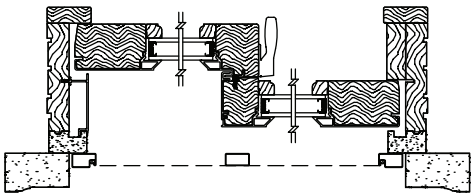
Primed Triple Glider
Horizontal Section

Glider

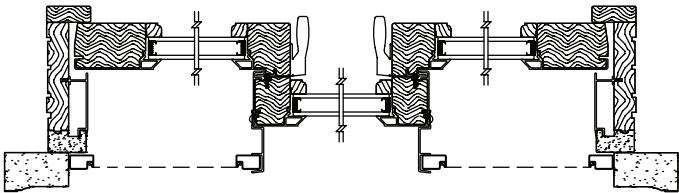
Scale: 2"=1' (all sections)



Hybrid Glider
With Clad Sash
Vertical Section



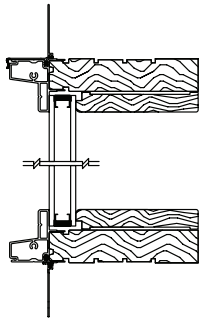
Hybrid Glider
With Clad Sash
Horizontal Section



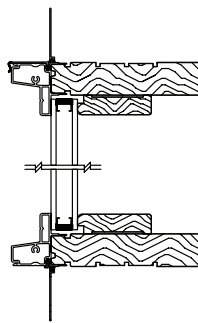
Hybrid Triple Glider
With Clad Sash
Horizontal Section

Specialty

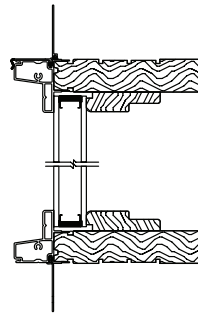
Scale: 2"=1' (all sections)



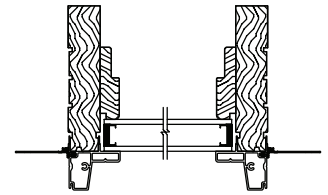
Clad Direct Set
with Full Stop Option
Vertical Section



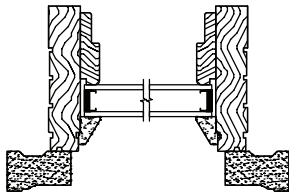
Clad Direct Set
with Square Stop Option
Vertical Section



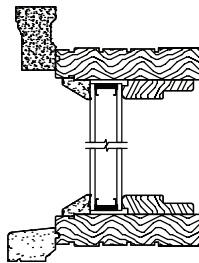
Clad Direct Set
Vertical Section



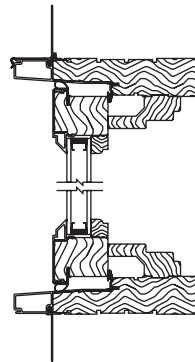
Clad Direct Set
Horizontal Section



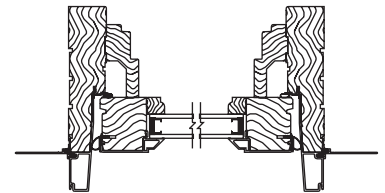
Primed Direct Set
Horizontal Section



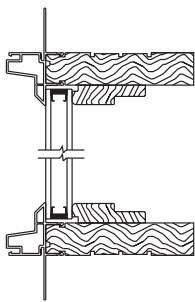
Primed Direct Set
Vertical Section



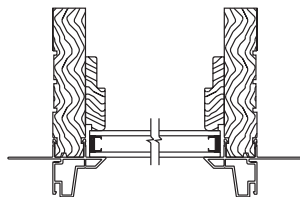
Clad Radius Sash Set
Vertical Section



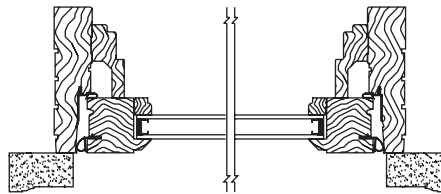
Clad Radius Sash Set
Horizontal Section



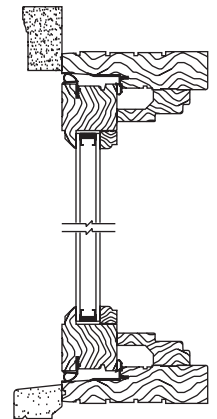
Vinyl Clad Direct Set
Vertical Section



Vinyl Clad Direct Set
Horizontal Section



Primed Radius Sash Set
Horizontal Section

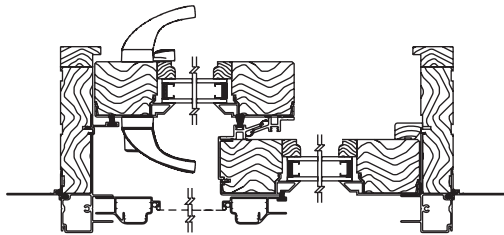


Primed Radius Sash Set
Vertical Section

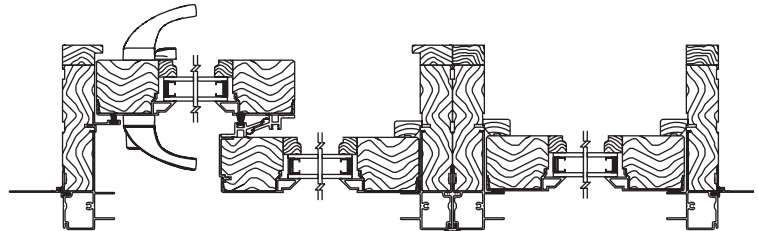
Note: The Square Stop and Full Stop option, shown only with the clad exterior, is available for all Direct Set units.

Slide Patio Doors

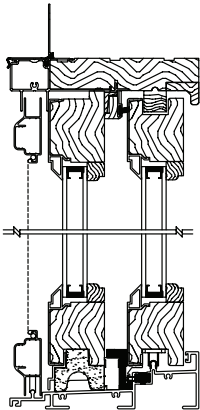
Scale: 2"=1' (all sections)



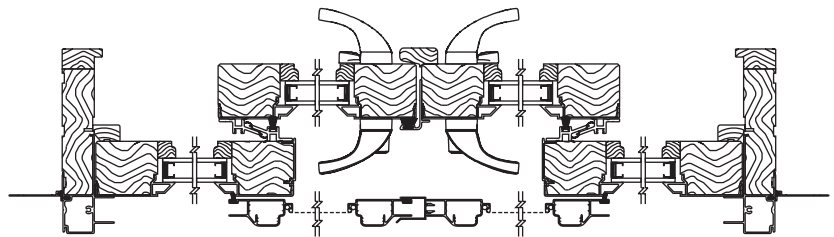
Clad Slide Patio Door
2-1/2" Stiles
Horizontal Section



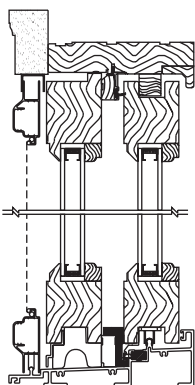
Clad Slide Patio Door with Side Lite Mull
2-1/2" Stiles
Horizontal Section



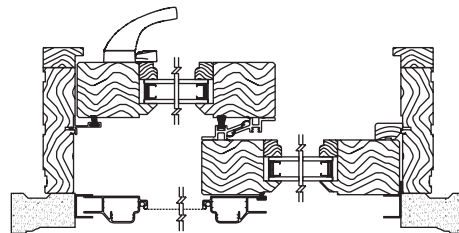
Clad Slide Patio Door
2-1/2" Stiles
Vertical Section



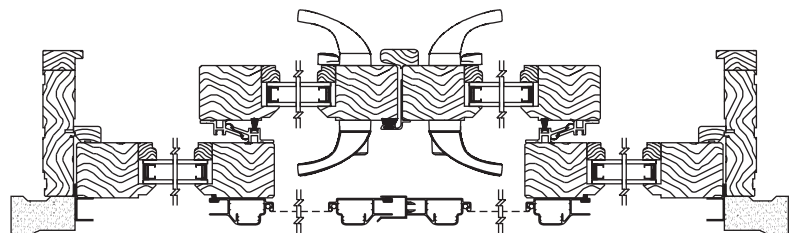
Clad Slide Patio Door OX XO
2-1/2" Stiles
Door Horizontal Section



Primed Slide Patio Door
2-1/2" Stiles
Vertical Section



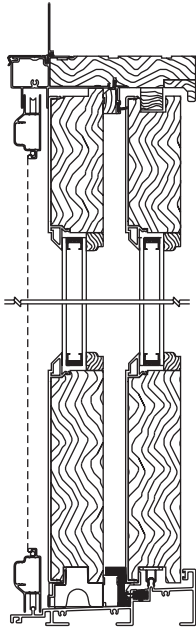
Primed Slide Patio Door
2-1/2" Stiles
Horizontal Section



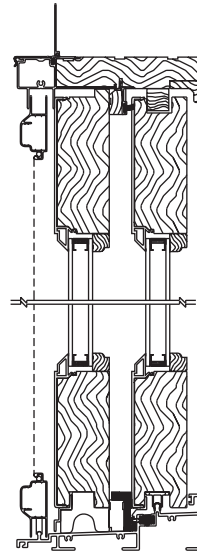
Primed Slide Patio Door OX XO
2-1/2" Stiles
Horizontal Section

Slide Patio Doors

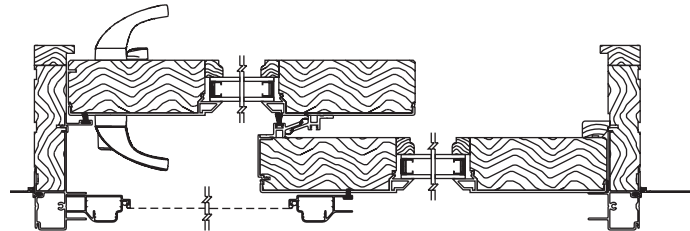
Scale: 2"=1' (all sections)



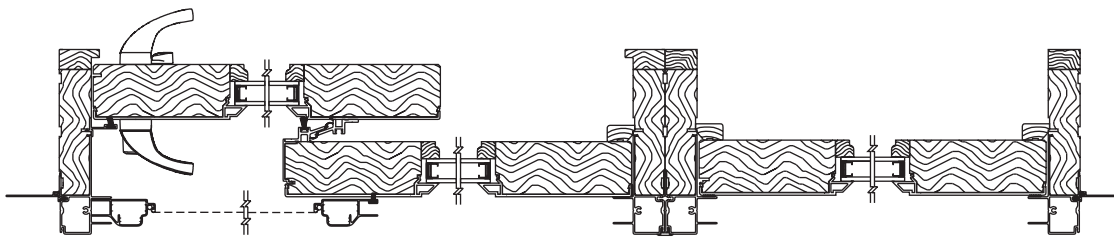
Clad Slide Patio Door
4-13/16" Stiles
6-8 and 8-0 Height
Vertical Section



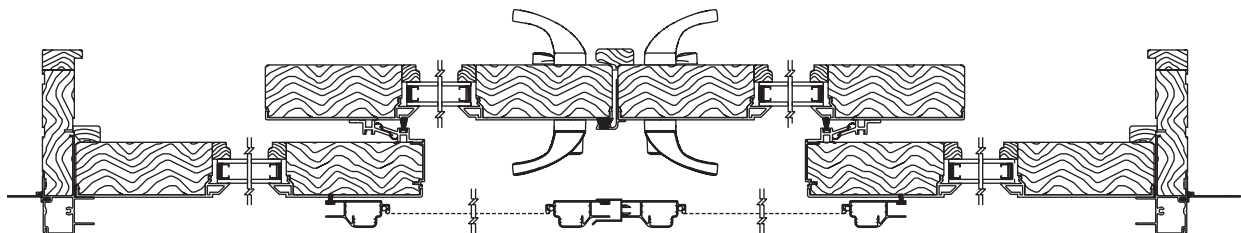
Clad Slide Patio Door
4-13/16" Stiles
6/6 Height
Vertical Section



Clad Slide Patio Door
4-13/16" Stiles
Horizontal Section



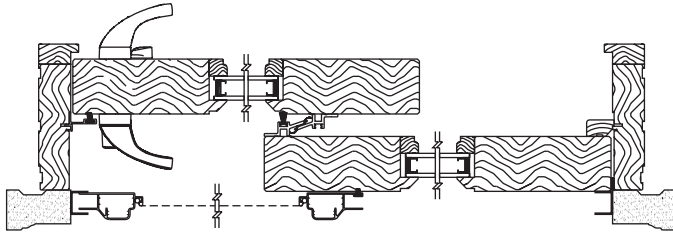
Clad Slide Patio Door with Side Lite Mull
4-13/16" Stiles
Horizontal Section



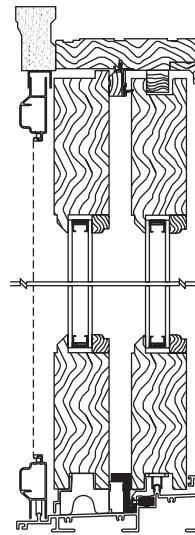
Clad Slide Patio Door OXXO
4-13/16" Stiles
Horizontal Section

Slide Patio Doors

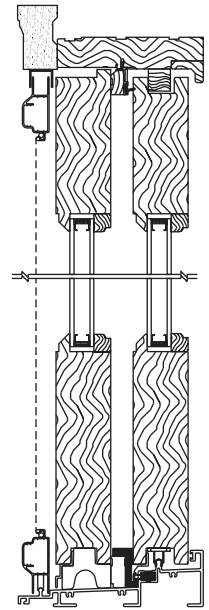
Scale: 2"=1' (all sections)



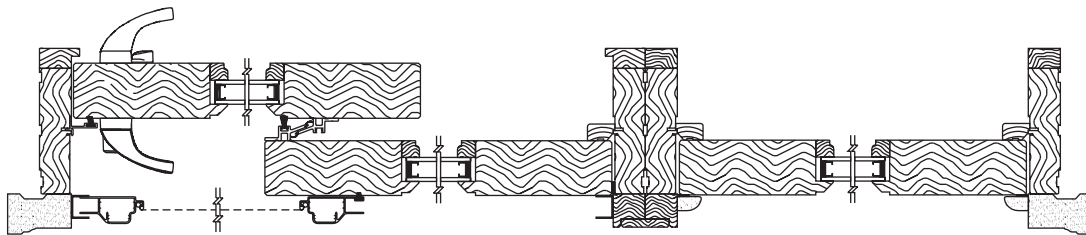
Primed Slide Patio Door
4-13/16" Stiles
Horizontal Section



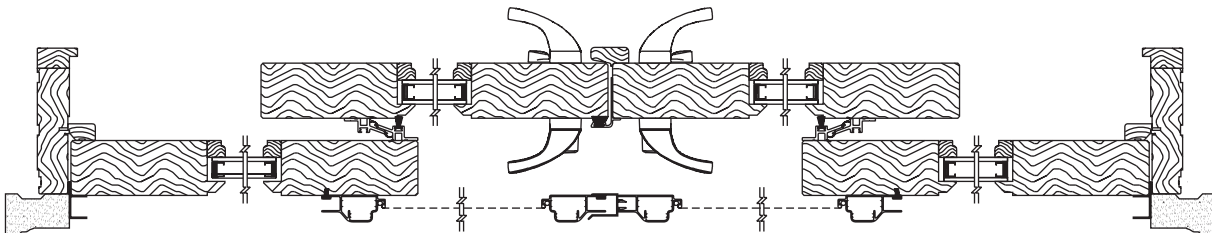
Primed Slide Patio Door
4-13/16" Stiles
6/6 Height
Vertical Section



Primed Slide Patio Door
4-13/16" Stiles
6-8 and 8-0 Height
Vertical Section



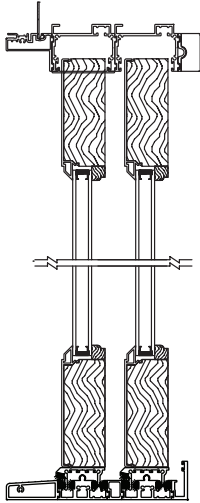
Primed Slide Patio Door with Side Lite Mull
4-13/16" Stiles
Horizontal Section



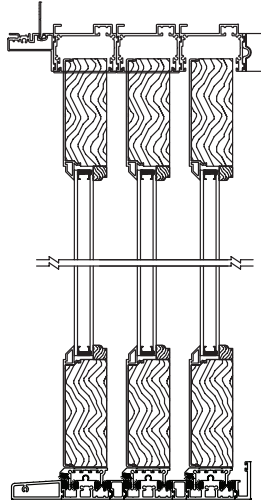
Primed Slide Patio Door OXXO
4-13/16" Stiles
Horizontal Section

Multi-Slide Patio Doors

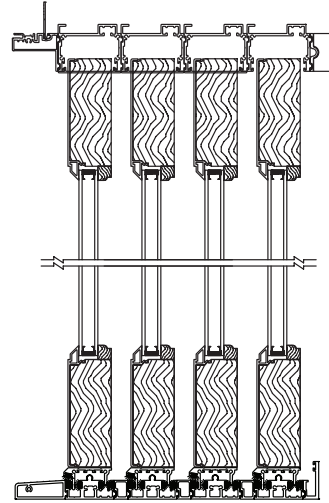
Scale: No Scale



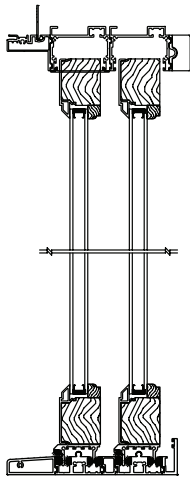
Clad 2-Panel Multi-Slide Patio Door
Wide Stile
Vertical Section



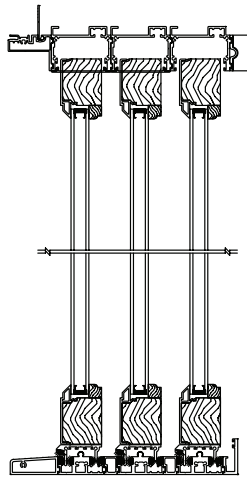
Clad 3-Panel Multi-Slide Patio Door
Wide Stile
Vertical Section



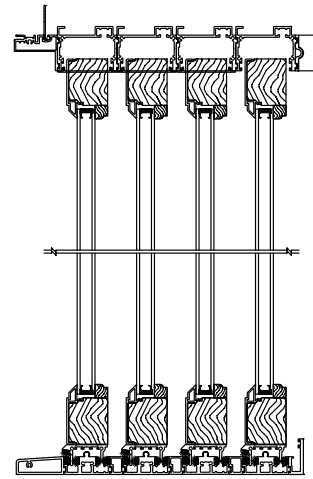
Clad 4-Panel Multi-Slide Patio Door
Wide Stile
Vertical Section



Clad 2-Panel Multi-Slide Patio Door
Narrow Stile
Vertical Section



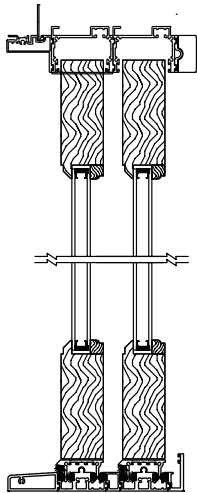
Clad 3-Panel Multi-Slide Patio Door
Narrow Stile
Vertical Section



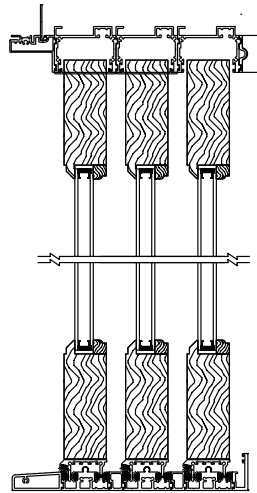
Clad 4-Panel Multi-Slide Patio Door
Narrow Stile
Vertical Section

Multi-Slide Patio Doors

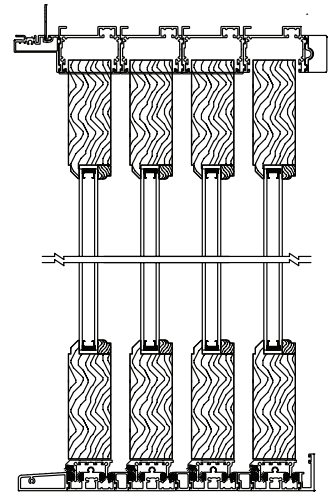
Scale: No Scale



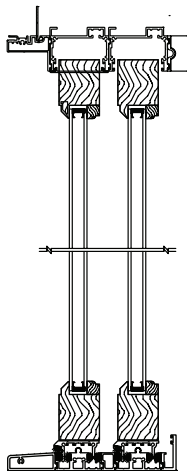
Wood 2-Panel Multi-Slide Patio Door
Wide Stile
Vertical Section



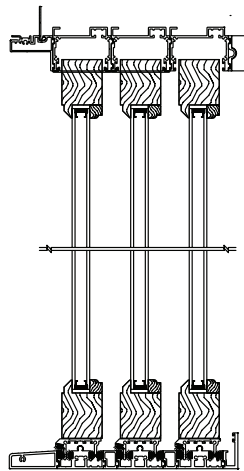
Wood 3-Panel Multi-Slide Patio Door
Wide Stile
Vertical Section



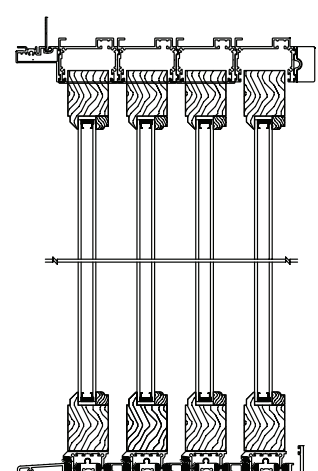
Wood 4-Panel Multi-Slide Patio Door
Wide Stile
Vertical Section



Wood 2-Panel Multi-Slide Patio Door
Narrow Stile
Vertical Section



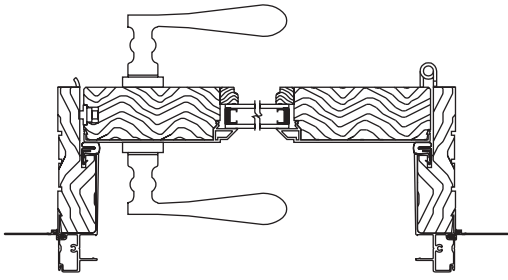
Wood 3-Panel Multi-Slide Patio Door
Narrow Stile
Vertical Section



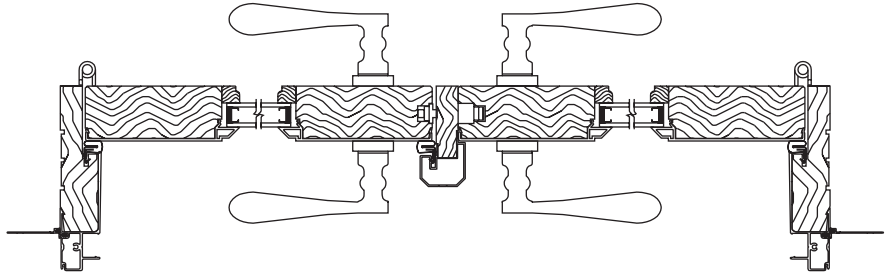
Wood 4-Panel Multi-Slide Patio Door
Narrow Stile
Vertical Section

Swing Patio Doors

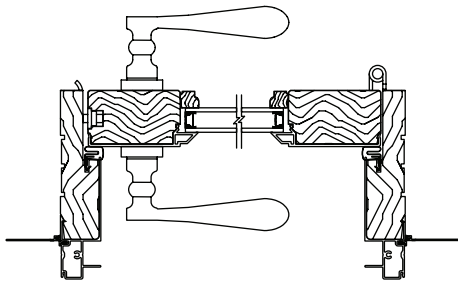
Scale: 2"=1' (all sections)



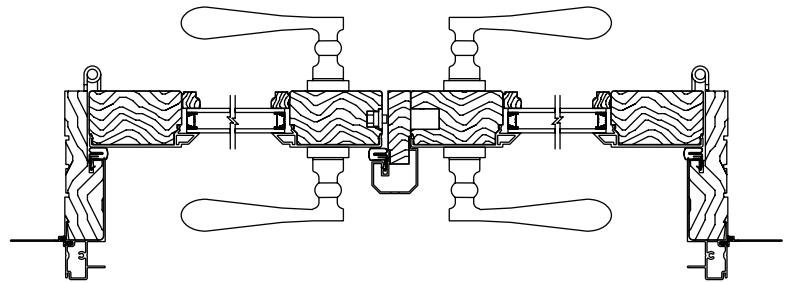
Clad In-Swing
4-13/16" Stiles
Horizontal Section



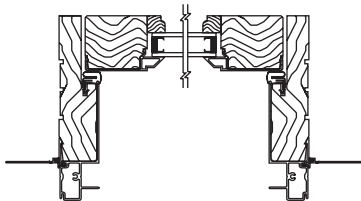
Clad French In-Swing
Horizontal Section



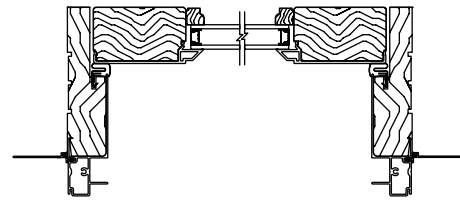
Clad In-Swing
3-3/8" Stiles
Horizontal Section



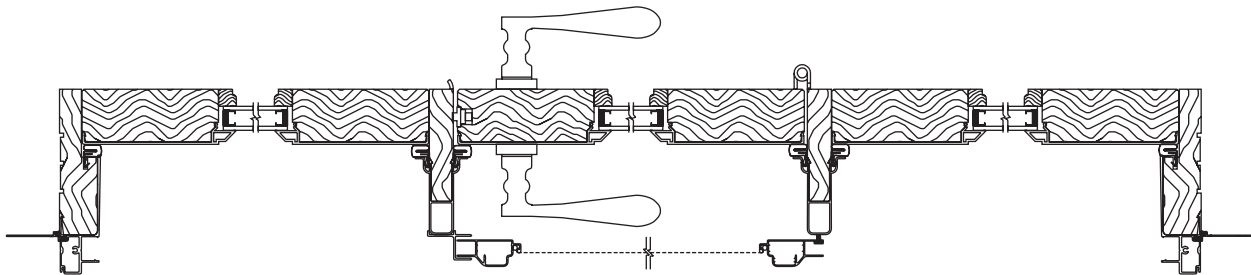
Clad French In-Swing
3-3/8" Stiles
Horizontal Section



Clad In-Swing Narrow Stile
Sidelite Horizontal Section



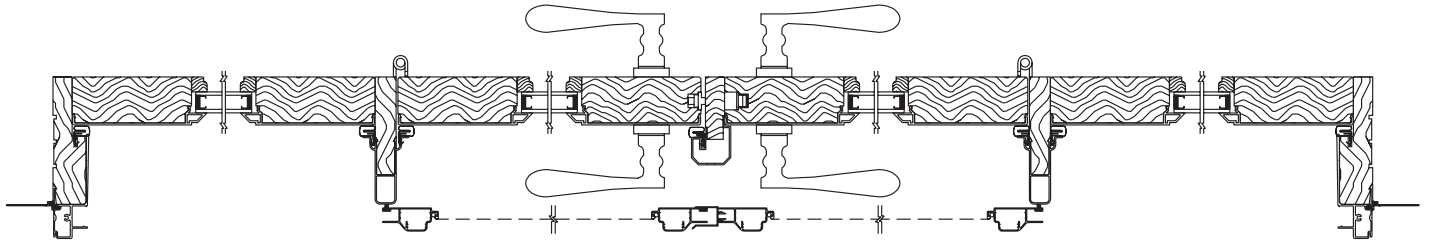
Clad In-Swing Sidelite
3-3/8" Stiles
Horizontal Section



Clad In-Swing 3 Wide Door
4-13/16" Stiles
Horizontal Section

Swing Patio Doors

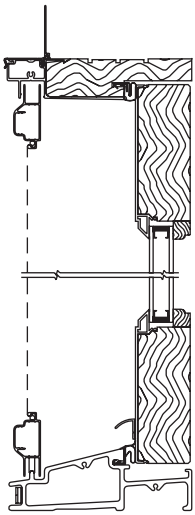
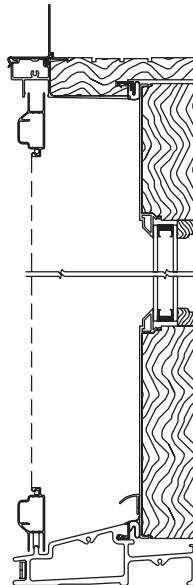
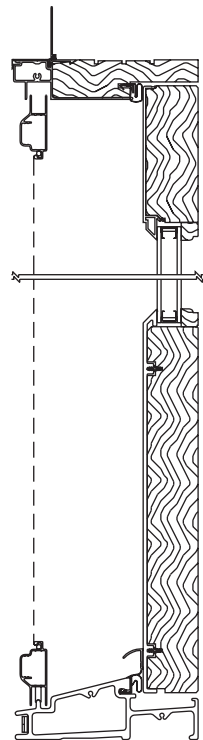
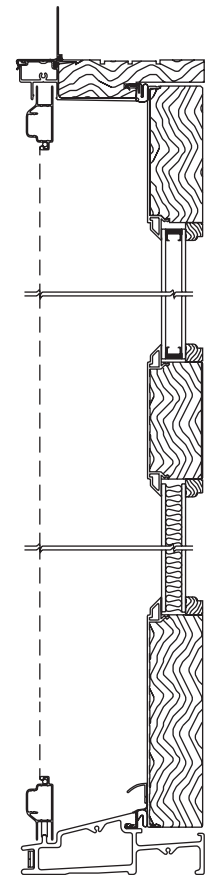
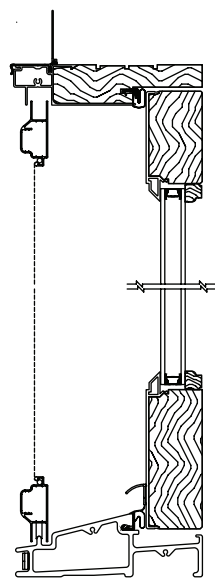
Scale: 2"=1' (all sections)



Clad In-Swing 4 Wide Door Continuous Head and Sill Horizontal Section

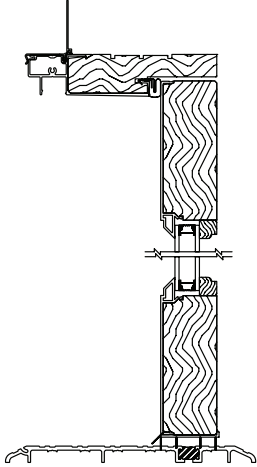
4-13/16" Stiles

(Drawing Not to scale)

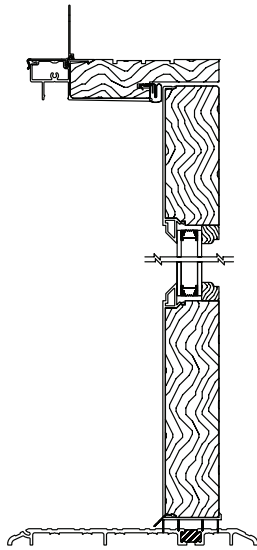
Clad In-Swing
6/6 Height
4-13/16" Bottom Rail
Vertical SectionClad In-Swing
6/8, 7/0, 8/0 & 9/0 Heights
7-13/16" Bottom Rail
Vertical SectionClad In-Swing
12" Bottom Rail
Vertical SectionClad In-Swing
Mid-Rail Door
7-13/16" Bottom Rail
Vertical SectionClad In-Swing
6/8, 7/0, 8/0 & 9/0 Heights
4-13/16" Bottom Rail
Vertical Section

Swing Patio Doors

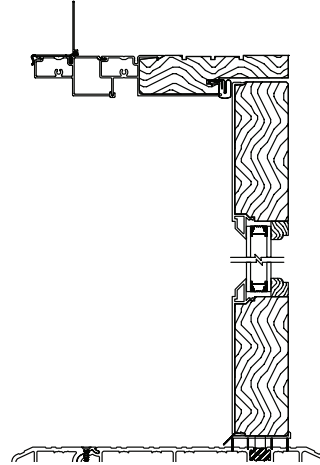
Scale: 2"=1' (all sections)



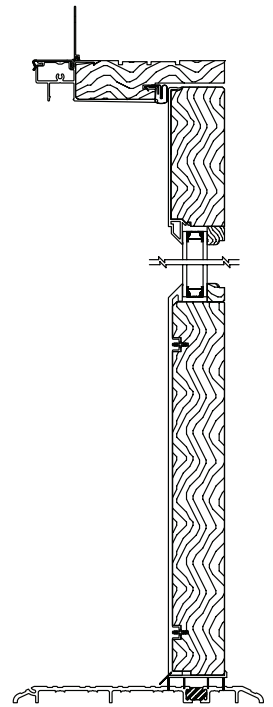
Clad In-Swing
4-13/16" Bottom Rail
ADA Sill Option



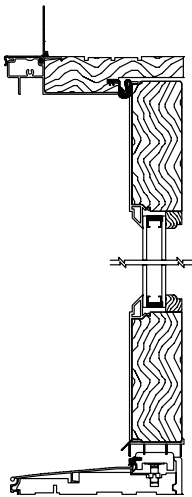
Clad In-Swing
7-13/16" Bottom Rail
ADA Sill Option



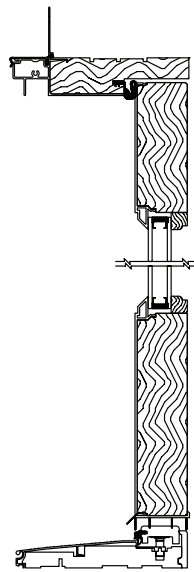
Clad In-Swing
4-13/16" Bottom Rail
6-9/16" Jamb
ADA Sill Option



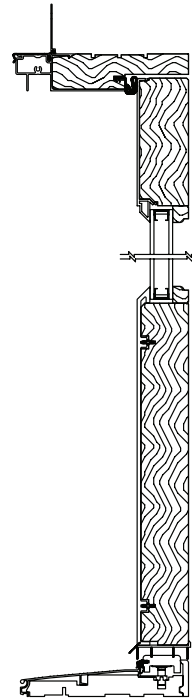
Clad In-Swing
12" Bottom Rail
ADA Sill Option



Clad In-Swing
4-13/16" Bottom Rail
Entry Sill Option



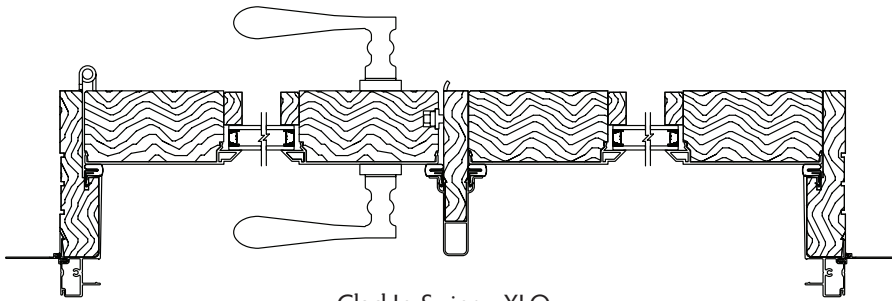
Clad In-Swing
7-13/16" Bottom Rail
Entry Sill Option



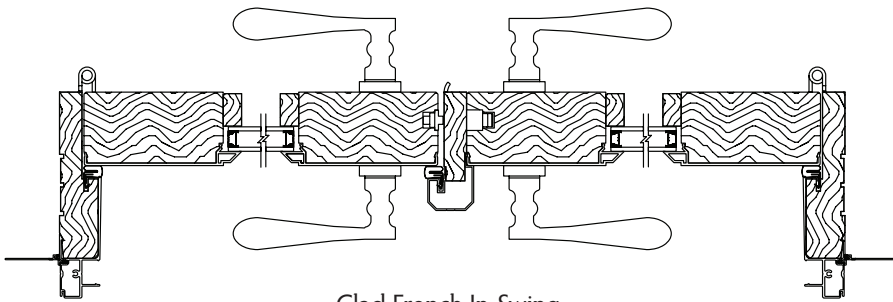
Clad In-Swing
12" Bottom Rail
Entry Sill Option

Swing Patio Doors

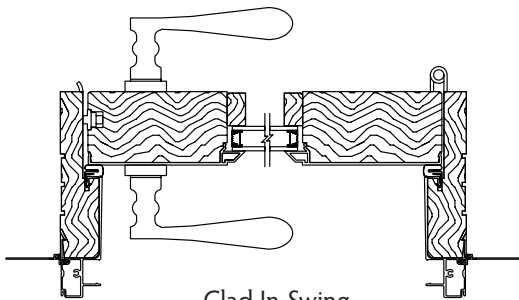
Scale: 2"=1' (all sections)



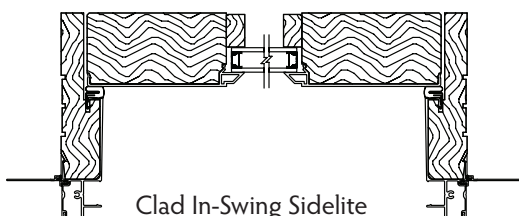
Clad In-Swing - XLO
2-1/4" Panel
4-13/16" Stiles
Horizontal Section



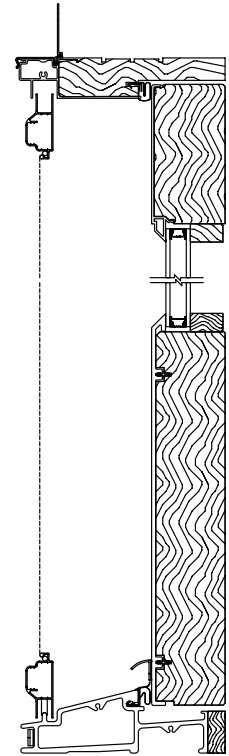
Clad French In-Swing
2-1/4" Panel
4-13/16" Stiles
Horizontal Section



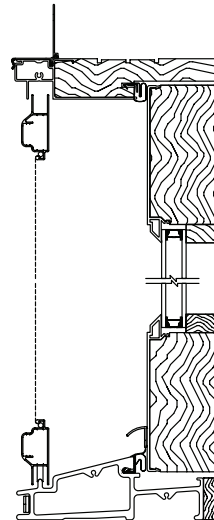
Clad In-Swing
2-1/4" Panel
4-13/16" Stiles
Horizontal Section



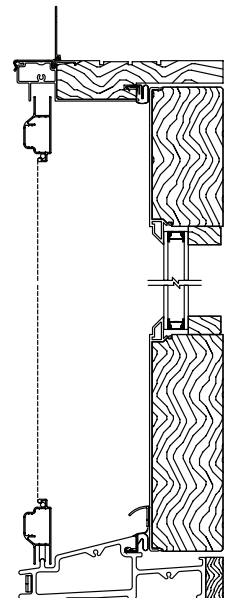
Clad In-Swing Sidelite
2-1/4" Panel
Horizontal Section



Clad In-Swing
2-1/4" Panel
12" Bottom Rail
Vertical Section



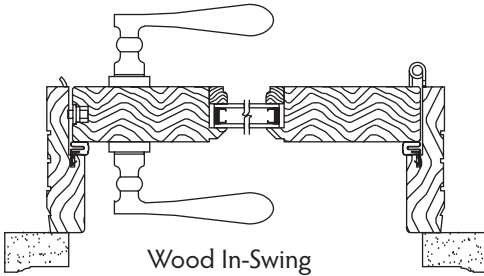
Clad In-Swing
2-1/4" Panel
4-13/16" Bottom Rail
Vertical Section



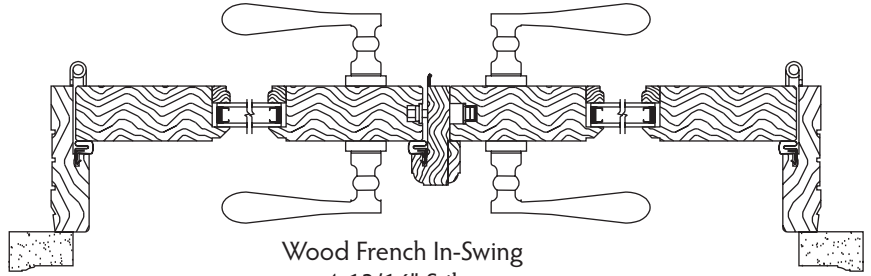
Clad In-Swing
2-1/4" Panel
7-13/16" Bottom Rail
Vertical Section

Swing Patio Doors

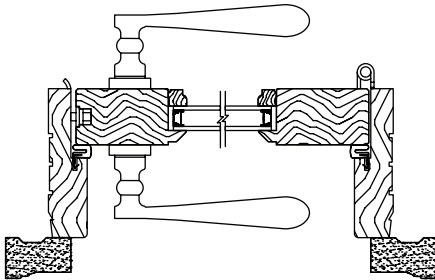
Scale: 2"=1' (all sections)



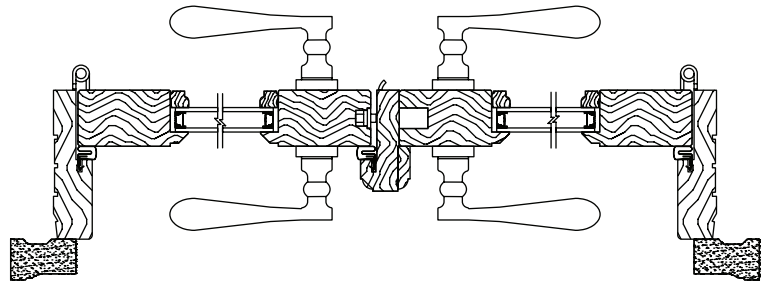
Wood In-Swing
4-13/16" Stiles
Horizontal Section



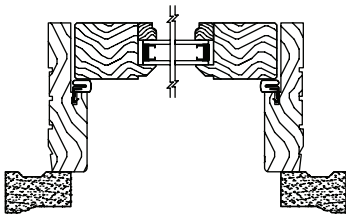
Wood French In-Swing
4-13/16" Stiles
Horizontal Section



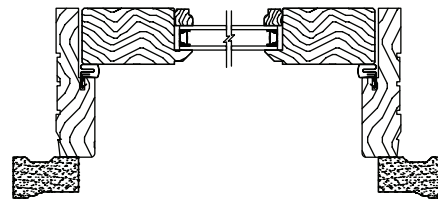
Wood In-Swing
3-3/8" Stiles
Horizontal Section



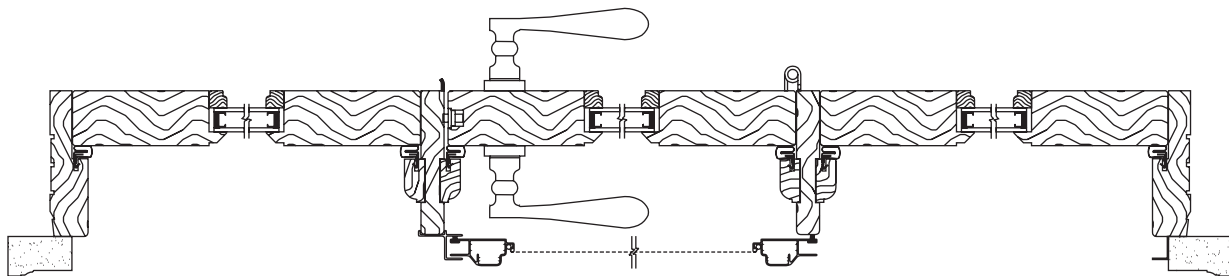
Wood French In-Swing
3-3/8" Stiles
Horizontal Section



Wood In-Swing Sidelite
Narrow Stile
Horizontal Section



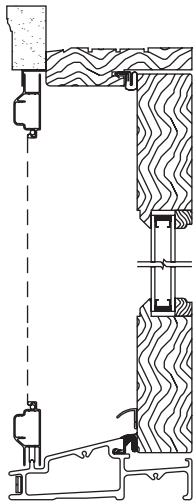
Wood In-Swing Sidelite
3-3/8" Stiles
Horizontal Section



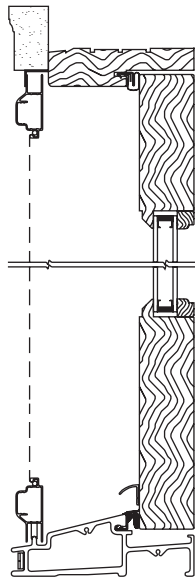
Wood In-Swing 3 Wide Door
4-13/16" Stiles
Horizontal Section

Swing Patio Doors

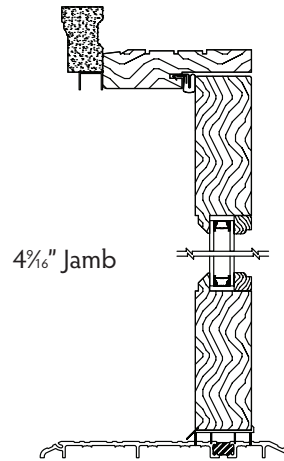
Scale: 2"=1' (all sections)



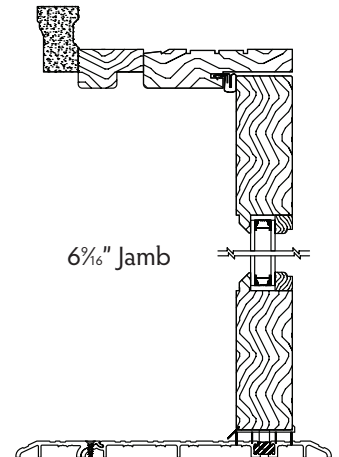
Wood In-Swing
6/6 Height
4-13/16" Bottom Rail
Vertical Section



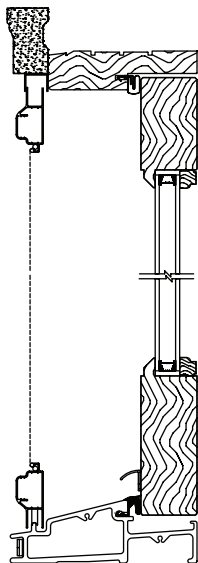
Wood In-Swing
6/8, 7/0, 8/0 & 9/0 Heights
7-13/16" Bottom Rail
Vertical Section



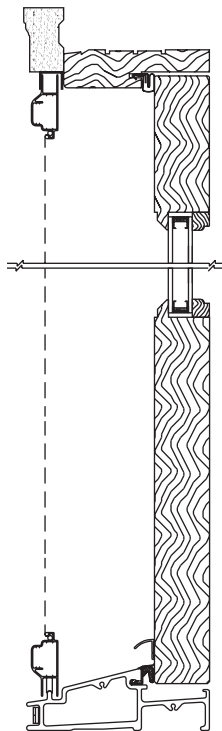
Wood In-Swing
4-13/16" Bottom Rail
ADA Sill Option



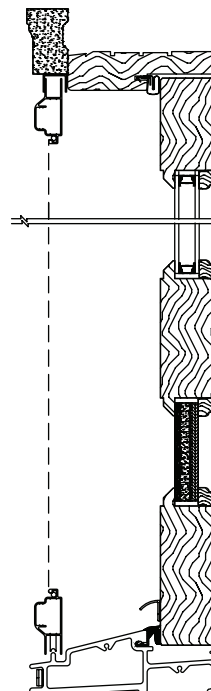
Wood In-Swing
4-13/16" Bottom Rail
ADA Sill Option



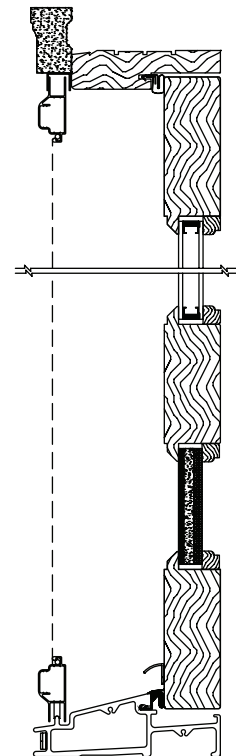
Clad In-Swing
6/8, 7/0, 8/0 & 9/0 Heights
4-13/16" Bottom Rail
Vertical Section



Wood In-Swing
12" Bottom Rail Option
Vertical Section



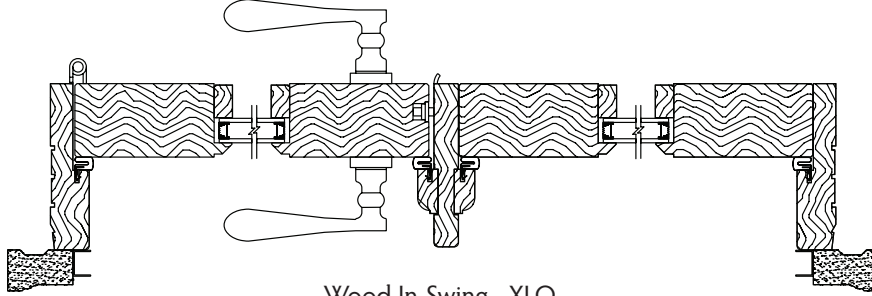
Wood In-Swing
Mid-Rail Door
4-13/16" Bottom Rail
Vertical Section



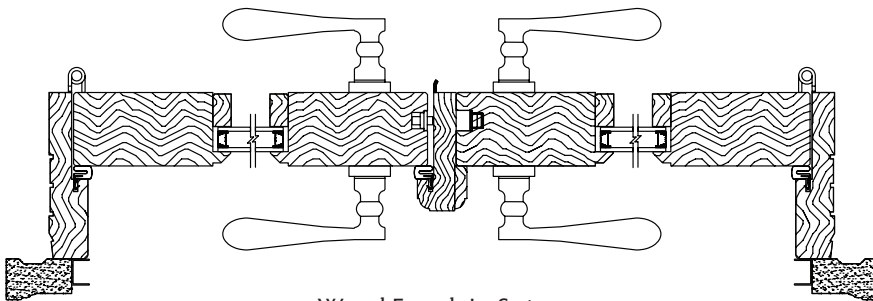
Wood In-Swing
Mid-Rail Door
7-13/16" Bottom Rail
Vertical Section

Swing Patio Doors

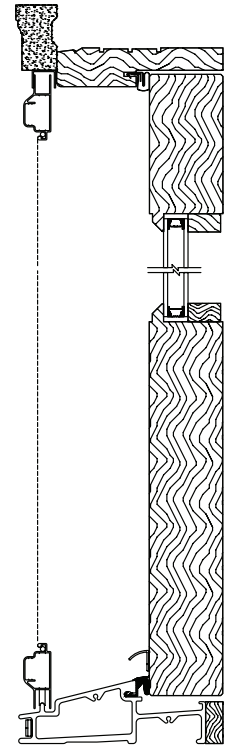
Scale: 2"=1' (all sections)



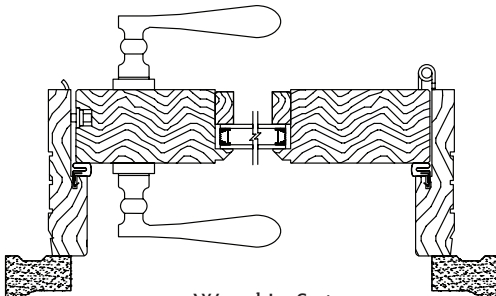
Wood In-Swing - XLO
2-1/4" Panel
4-13/16" Stiles
Horizontal Section



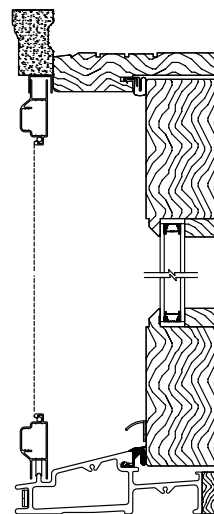
Wood French In-Swing
2-1/4" Panel
4-13/16" Stiles
Horizontal Section



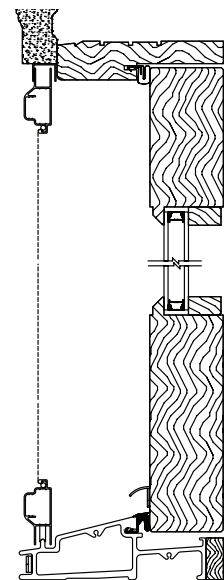
Wood In-Swing
2-1/4" Panel
12" Bottom Rail
Vertical Section



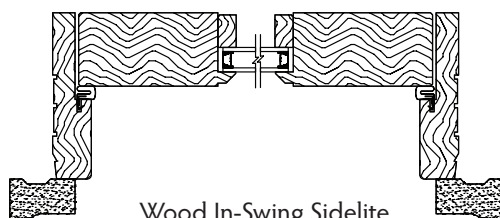
Wood In-Swing
2-1/4" Panel
4-13/16" Stiles
Horizontal Section



Wood In-Swing
2-1/4" Panel
4-13/16" Bottom Rail
Vertical Section



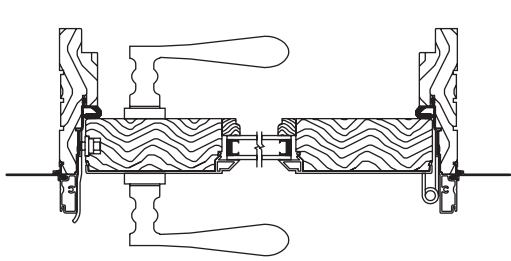
Wood In-Swing
2-1/4" Panel
7-13/16" Bottom Rail
Vertical Section



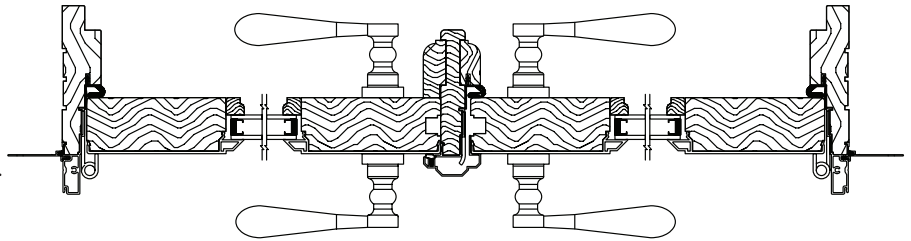
Wood In-Swing Sidelite
2-1/4" Panel
Horizontal Section

Swing Patio Doors

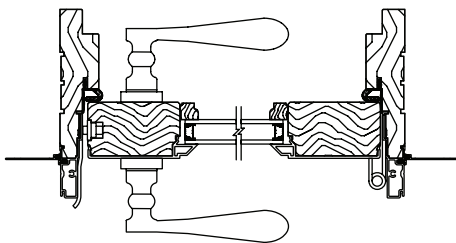
Scale: 2"=1' (all sections)



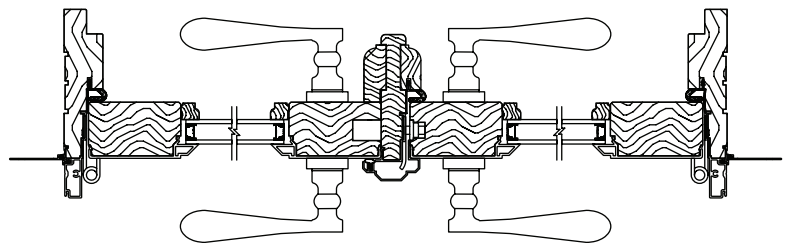
Clad Out-Swing
4-13/16" Stiles
Horizontal Section



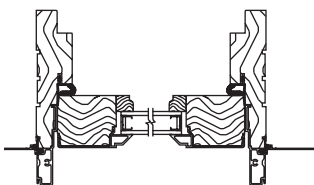
Clad French Out-Swing
4-13/16" Stiles
Horizontal Section



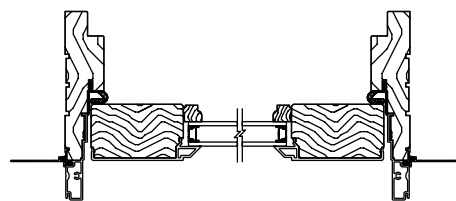
Clad Out-Swing
3-3/8" Stiles
Horizontal Section



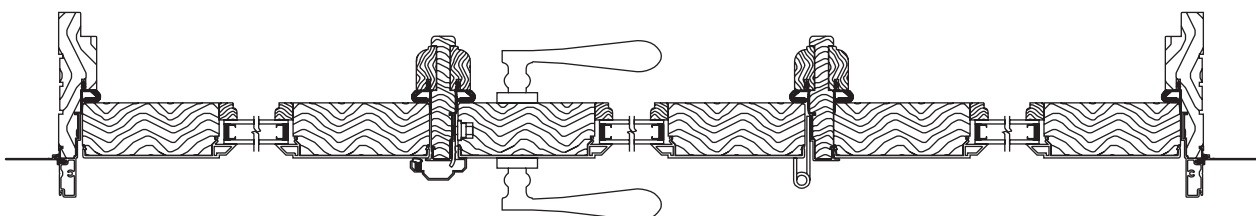
Clad French Out-Swing
3-3/8" Stiles
Horizontal Section



Clad Out-Swing Side Lite
Narrow Stile
Horizontal Section



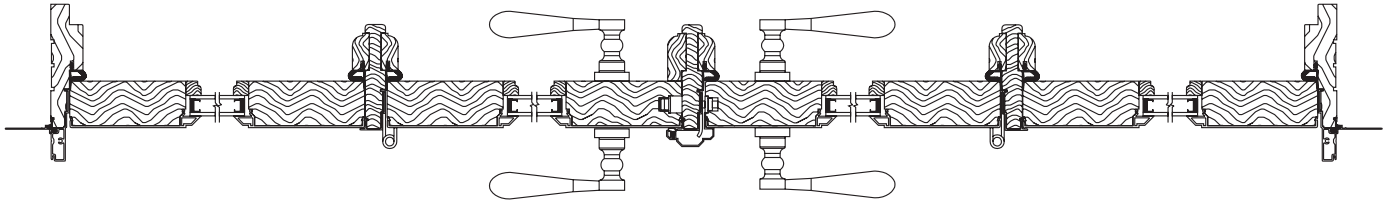
Clad Out-Swing Sidelite
3-3/8" Stiles
Horizontal Section



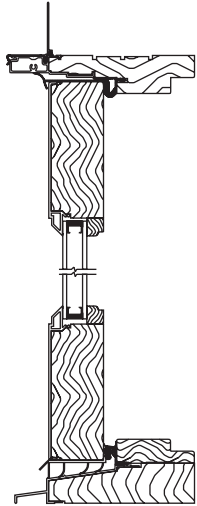
Clad Out-Swing 3-Wide Door - Continuous Head & Sill
4-13/16" Stiles
Horizontal Section

Swing Patio Doors

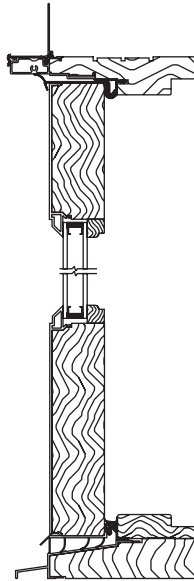
Scale: 2"=1' (all sections)



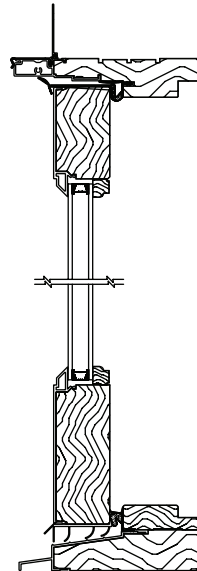
Clad Out-Swing 4-Wide Door Continuous Head and Sill - Horizontal Section
(Drawing Not to scale)



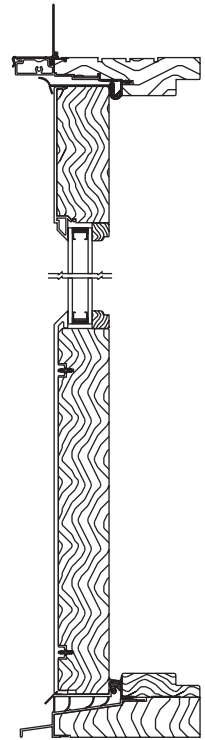
Clad Out-Swing
6/6 Height
4-13/16" Bottom Rail
Vertical Section



Clad Out-Swing
6/8, 7/0, 8/0 & 9/0 Heights
7-13/16" Bottom Rail
Vertical Section



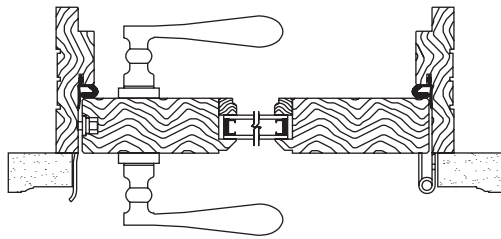
Clad Out-Swing
6/8, 7/0, 8/0 & 9/0 Heights
4-13/16" Bottom Rail
Vertical Section



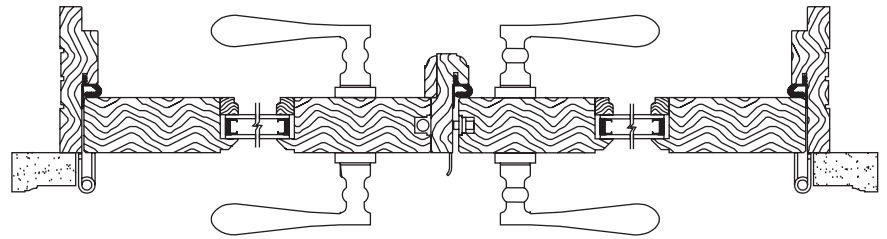
Clad Out-Swing
12" Bottom Rail Option
Vertical Section

Swing Patio Doors

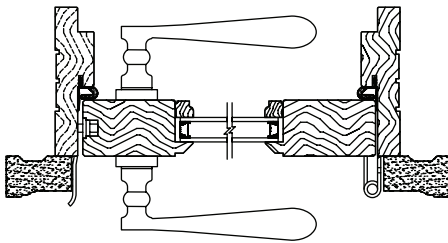
Scale: 2"=1' (all sections)



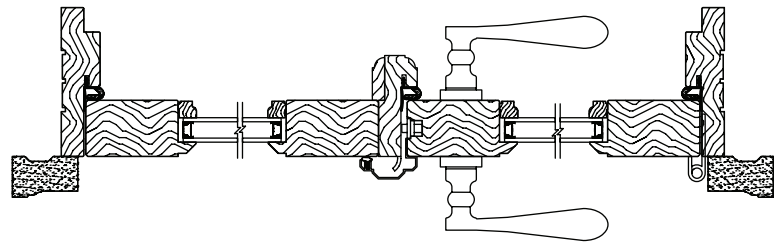
Wood Out-Swing
Horizontal Section



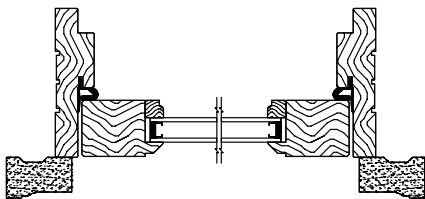
Wood Out-Swing French Door
Horizontal Section



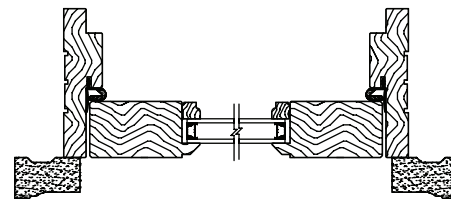
Wood Out-Swing
3-3/8" Stiles
Horizontal Section



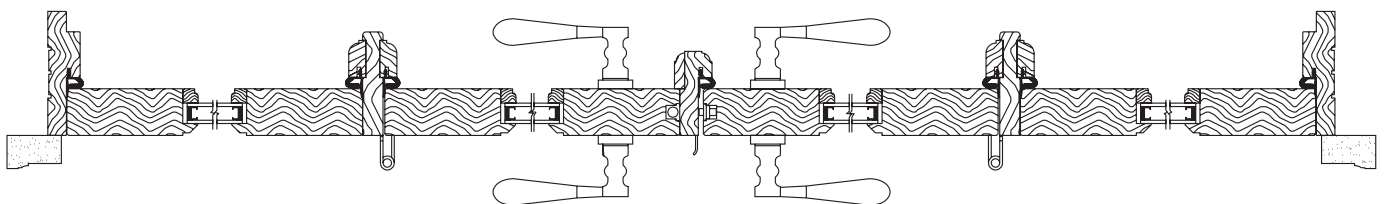
Wood Out-Swing OXR Door
3-3/8" Stiles
Horizontal Section



Wood Out-Swing Side Lite
Narrow Stile
Horizontal Section



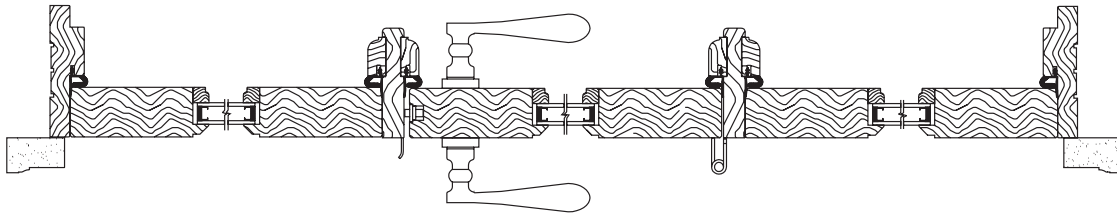
Wood Out-Swing Side Lite
3-3/8" Stiles
Horizontal Section



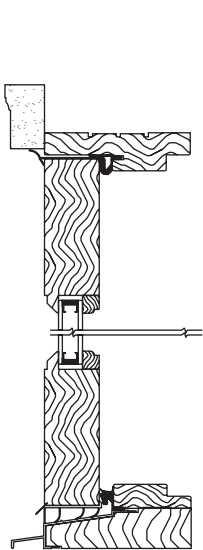
Wood Out-Swing 4-Wide Door Continuous Head and Sill
Horizontal Section

Swing Patio Doors

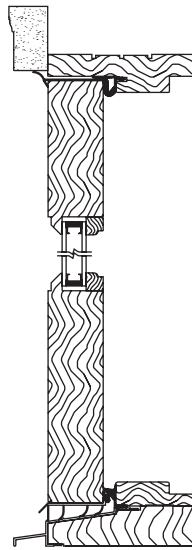
Scale: 2"=1' (all sections)



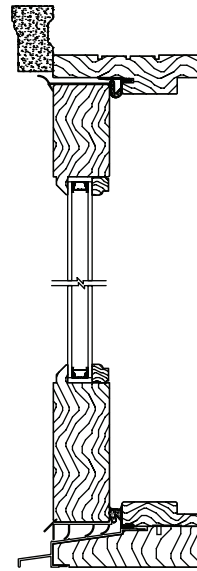
Wood Out-Swing 3-Wide Door Horizontal Section - Continuous Head & Sill
(Drawing Not to scale)



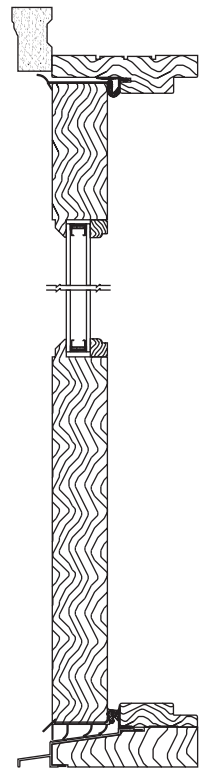
Wood Out-Swing
6/6 Height
4-13/16" Bottom Rail
Vertical Section



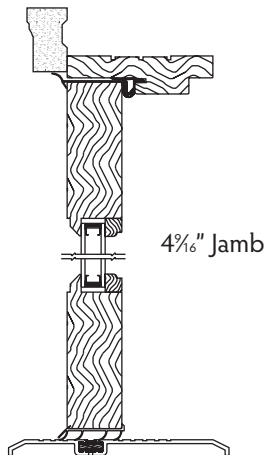
Wood Out-Swing
6/8, 7/0, 8/0 & 9/0 Heights
7-13/16" Bottom Rail
Vertical Section



Wood Out-Swing
6/8, 7/0, 8/0 & 9/0 Heights
4-13/16" Bottom Rail
Vertical Section



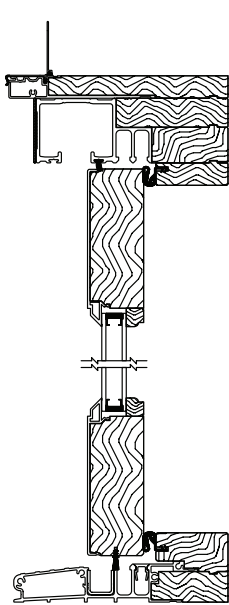
Wood Out-Swing
12" Bottom Rail Option
Vertical Section



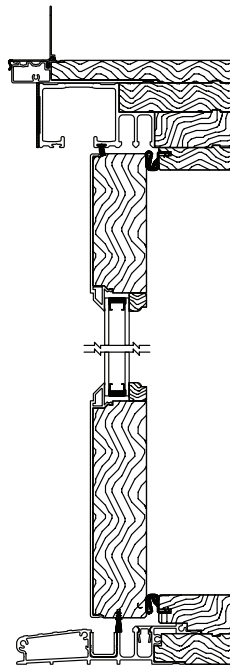
Wood Out-Swing
6/6 Height ADA Sill Option
4-13/16" Bottom Rail
Vertical Section

Fold-A-Way Patio Doors

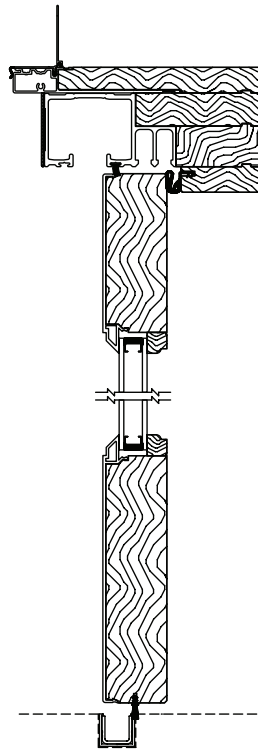
Scale: 2"=1' (all sections)



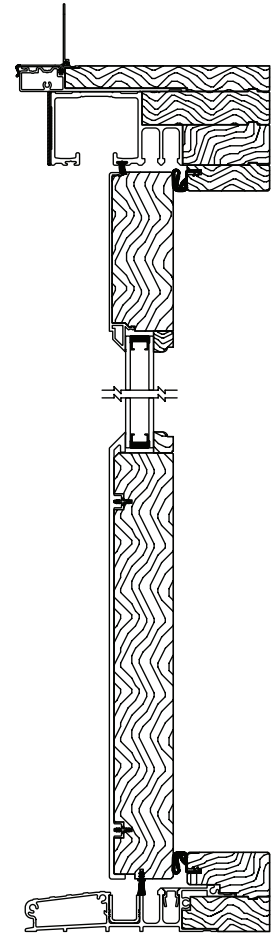
Clad Fold-A-Way
6/6 Height
4-13/16" Bottom Rail
Vertical Section



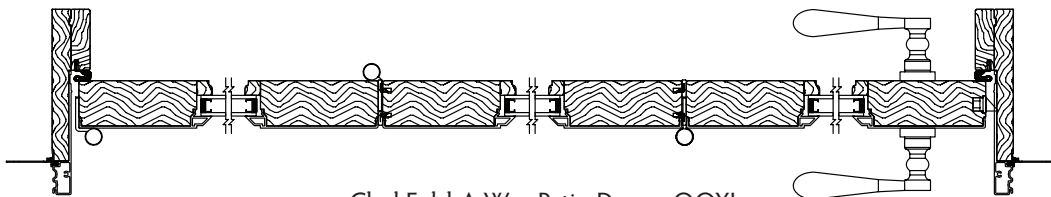
Clad Fold-A-Way
6/8, 7/0 & 8/0 Height
7-13/16" Bottom Rail
Vertical Section



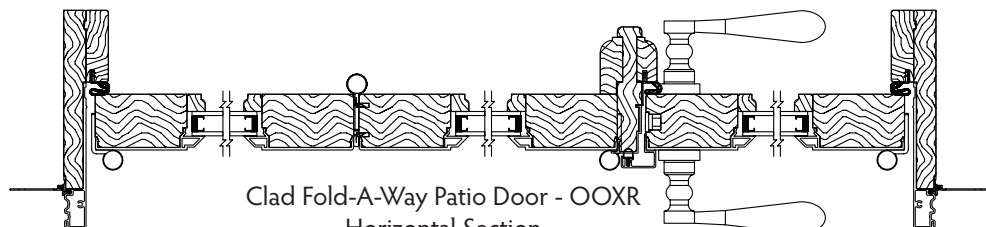
Clad Fold-A-Way
Floor Channel Application
6/8, 7/0 & 8/0 Height
7-13/16" Bottom Rail
Vertical Section



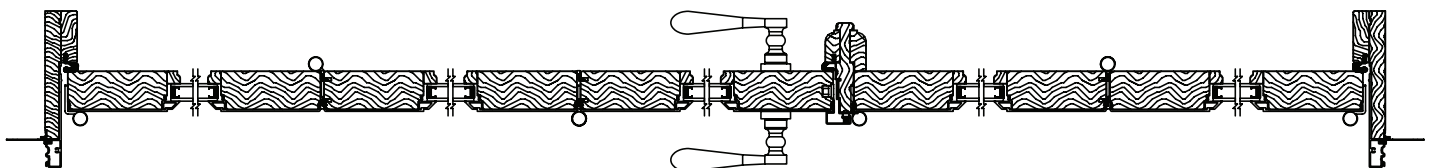
Clad Fold-A-Way
12" Bottom Rail Option
Vertical Section



Clad Fold-A-Way Patio Door - OOXL
Horizontal Section
(Drawing Not to scale)



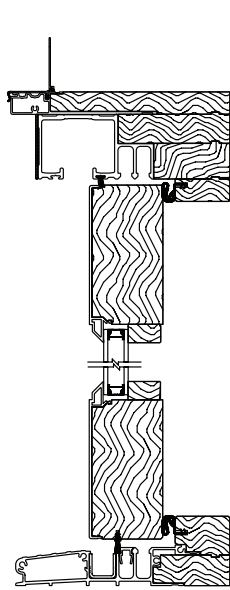
Clad Fold-A-Way Patio Door - OOXR
Horizontal Section
(Drawing Not to scale)



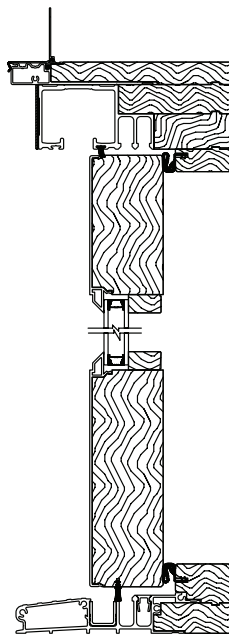
Clad Fold-A-Way Patio Door - OOXLO
(Drawing Not to scale)

Fold-A-Way Patio Doors

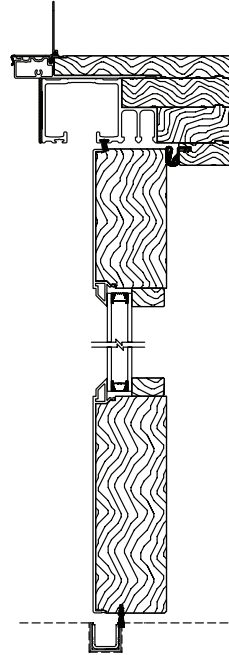
Scale: 2"=1' (all sections)



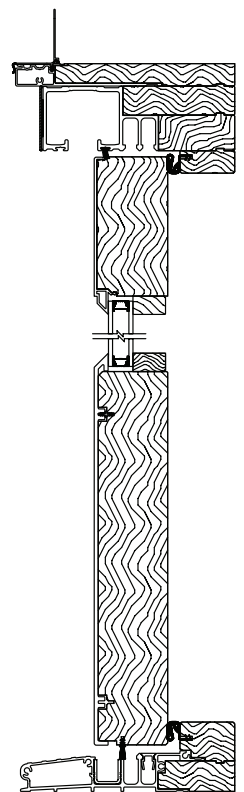
Clad Fold-A-Way
2-1/4" Panel
6/6 Height
4-13/16" Bottom Rail
Vertical Section



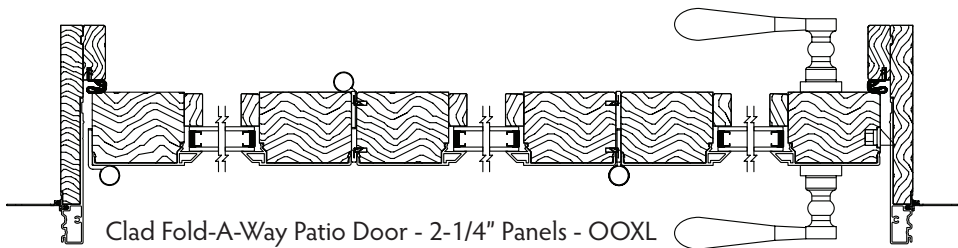
Clad Fold-A-Way
2-1/4" Panel
6/8, 7/0 & 8/0 Height
7-13/16" Bottom Rail
Vertical Section



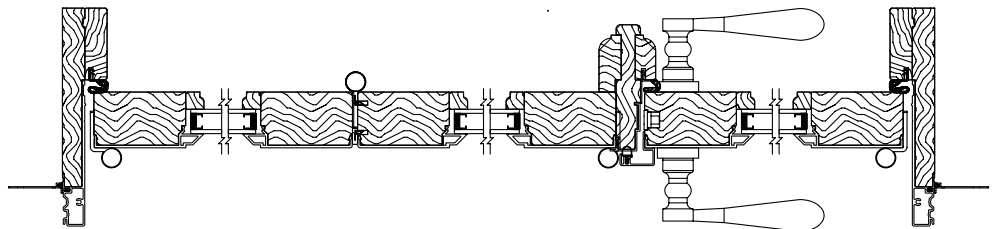
Clad Fold-A-Way
2-1/4" Panel
Floor Channel Application
6/8, 7/0 & 8/0 Height
7-13/16" Bottom Rail
Vertical Section



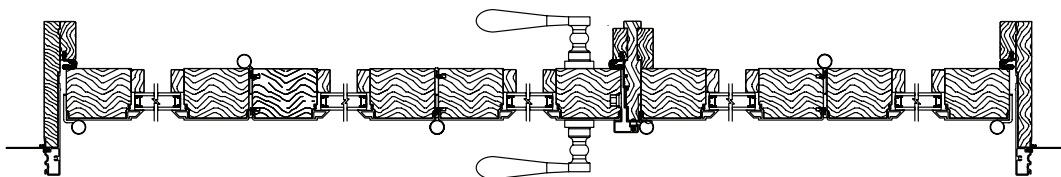
Clad Fold-A-Way
2-1/4" Panel
12" Bottom Rail Option
Vertical Section



Clad Fold-A-Way Patio Door - 2-1/4" Panels - OOXL
Horizontal Section
(Drawing Not to scale)



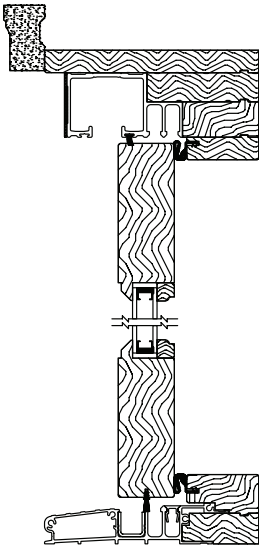
Clad Fold-A-Way Patio Door - 2-1/4" Panels - OOXR
Horizontal Section
(Drawing Not to scale)



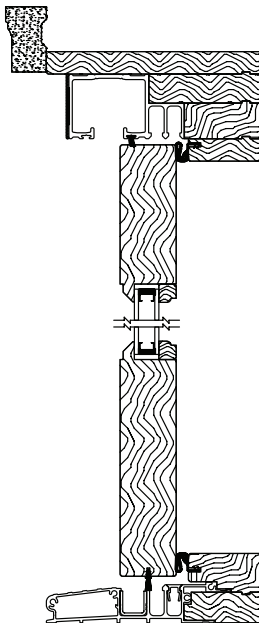
Clad Fold-A-Way Patio Door - 2-1/4" Panels - OOXLOO
(Drawing Not to scale)

Fold-A-Way Patio Doors

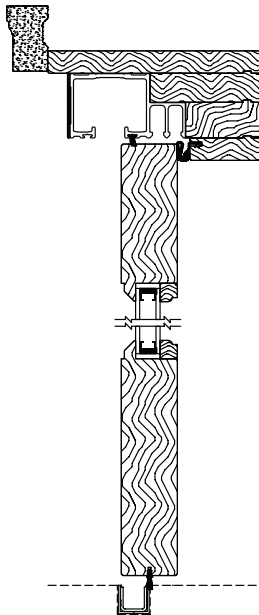
Scale: 2"=1' (all sections)



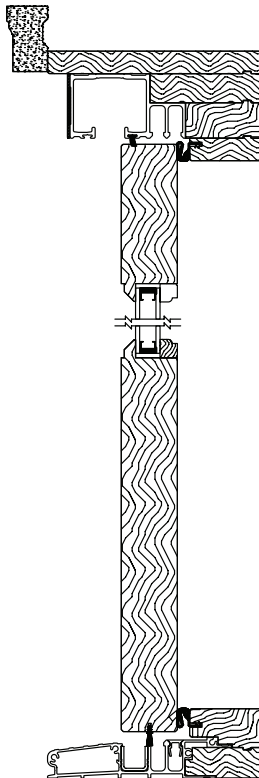
Wood Fold-A-Way
6/6 Height
4-13/16" Bottom Rail
Vertical Section



Wood Fold-A-Way
6/8, 7/0 & 8/0 Height
7-13/16" Bottom Rail
Vertical Section



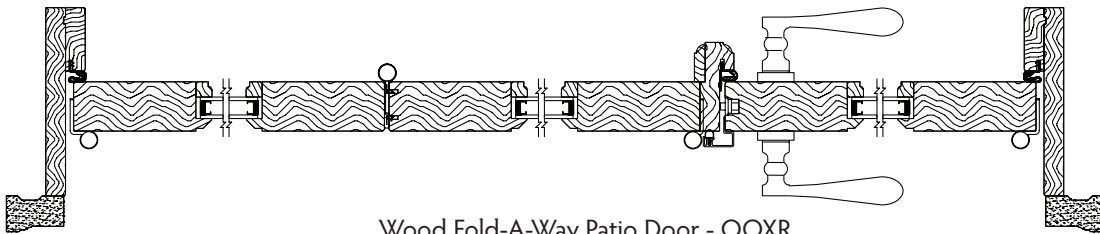
Wood Fold-A-Way
Floor Channel Application
6/8, 7/0 & 8/0 Height
Vertical Section



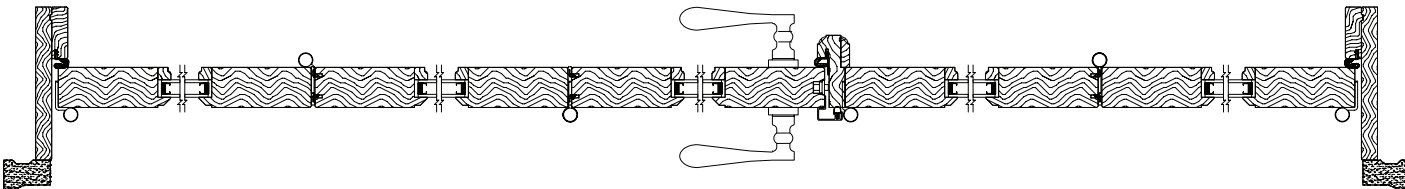
Wood Fold-A-Way
12" Bottom Rail Option
Vertical Section



Wood Fold-A-Way Patio Door - OOXL
Horizontal Section
(Drawing Not to scale)



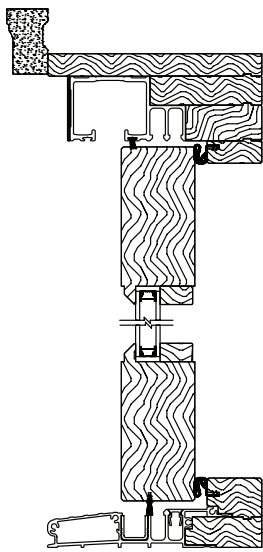
Wood Fold-A-Way Patio Door - OOXR
Horizontal Section
(Drawing Not to scale)



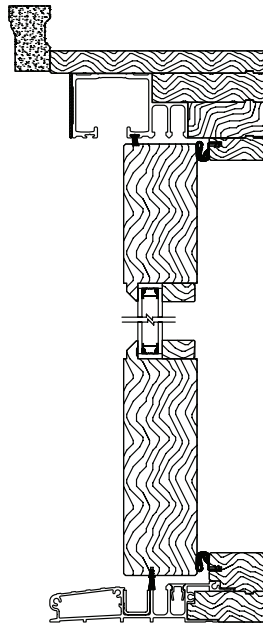
Wood Fold-A-Way Patio Door - OOXLOO
(Drawing Not to scale)

Fold-A-Way Patio Doors

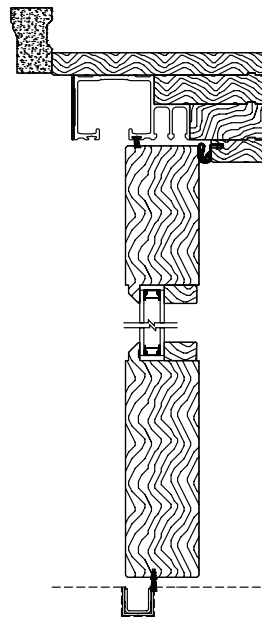
Scale: 2"=1' (all sections)



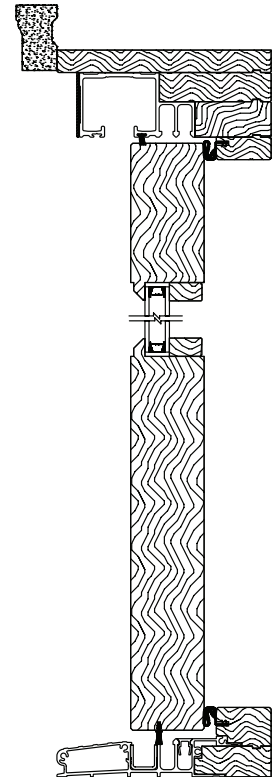
Wood Fold-A-Way
2-1/4" Panel
6/6 Height
4-13/16" Bottom Rail
Vertical Section



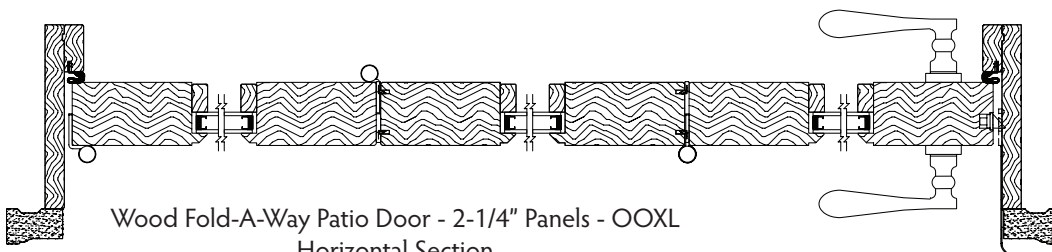
Wood Fold-A-Way
2-1/4" Panel
6/8, 7/0 & 8/0 Height
7-13/16" Bottom Rail
Vertical Section



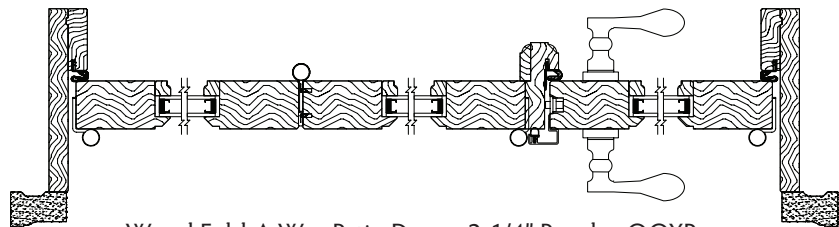
Wood Fold-A-Way
2-1/4" Panel
Floor Channel Application
6/8, 7/0 & 8/0 Height
Vertical Section



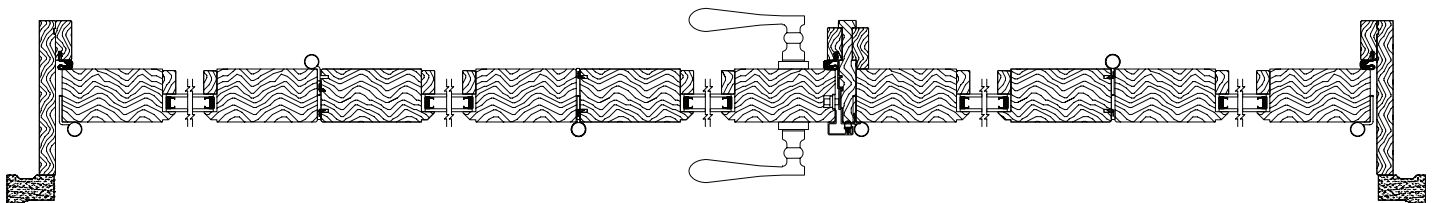
Wood Fold-A-Way
2-1/4" Panel
12" Bottom Rail Option
Vertical Section



Wood Fold-A-Way Patio Door - 2-1/4" Panels - OOXL
Horizontal Section
(Drawing Not to scale)



Wood Fold-A-Way Patio Door - 2-1/4" Panels - OOXR
Horizontal Section
(Drawing Not to scale)

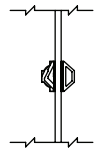


Wood Fold-A-Way Patio Door - 2-1/4" Panels - OOXLO
(Drawing Not to scale)

Grille Options

Not Scaled

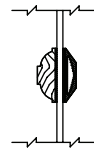
Simulated Divided Lites



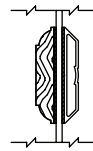
5/8" SDL
Single Glazed



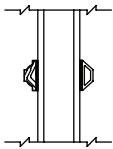
7/8" Profiled SDL
Single Glazed



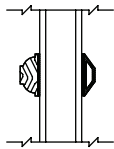
1-1/8" SDL
Single Glazed



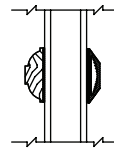
2" SDL
Single Glazed



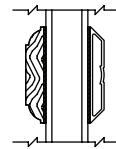
5/8" SDL
w/o Internal Grille



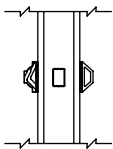
7/8" SDL
w/o Internal Grille



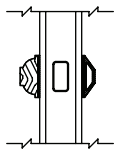
1-1/8" SDL
w/o Internal Grille



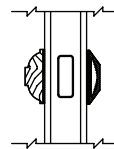
2" SDL
w/o Internal Grille



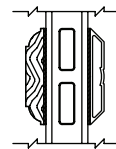
5/8" Simulated Divided Lite
with Internal Grille



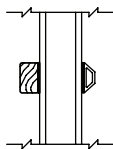
7/8" Simulated Divided Lite
with Internal Grille



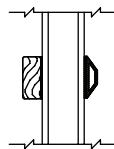
1-1/8" Simulated Divided Lite
with Internal Grille



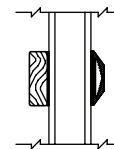
2" Simulated Divided Lite
with Internal Grille



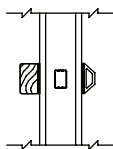
5/8" Square interior SDL
w/o Internal Grille



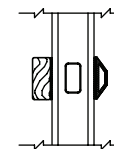
7/8" Square interior SDL
w/o Internal Grille



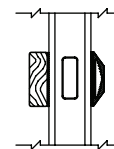
1-1/8" Square interior SDL
w/o Internal Grille



5/8" Square interior SDL
with Internal Grille

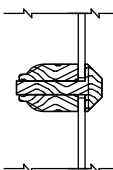


7/8" Square interior SDL
with Internal Grille

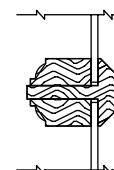


1-1/8" Square interior SDL
with Internal Grille

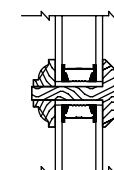
True Divided Lites



7/8" True Divided Lite
Single Glazed



1-1/4" True Divided Lite
Single Glazed



1-1/4" True Divided Lite

Trim Options

Not Scaled

Interior Trim



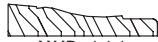
WM-376



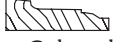
Princeton



WP-442



WP-444



Colonial



Ranch



F-131



GR-499



WM-356

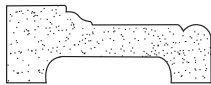


WP-445

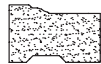


RB3-Rowell

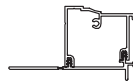
Exterior Trim



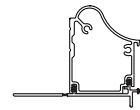
Williamsburg Exterior
Colonial - PVC



2" Brickmould



2" Brickmould
Aluminum



Bullnose Casing
Aluminum



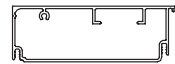
Backband Casing - PVC



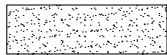
Backband Add-On
For Flat Casing



4" Brickmould
Aluminum



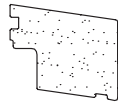
4" Flat Casing
Aluminum



1" x 3-1/2" PVC
Flat Casing



Double Hung
Sill Nosing



2" Double Hung
Sill Nosing



1/4" Sill Nosing
Aluminum



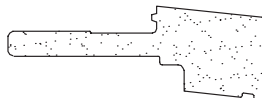
7/8" Sill Nosing
Aluminum



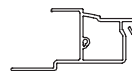
1" Box Sill
Aluminum



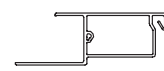
1" x 5-1/2" PVC
Flat Casing



2" Casement
Sill Nosing
(adds 1/2" to rough opening height)



2" Brickmould
Vinyl Clad



Flat Casing
Vinyl Clad

Casement Single Unit Elevations

Unit Dimension
given for primed
units only

Clad Unit Dimension
is identical to Box
Size

Masonry Opening:
Recommended
minimum of Unit or
Frame Dimension
plus ¼"

Shaded units meet
UBC egress codes
(5.7 sq. ft., 20"
width, 24" height
minimum)

Note: 2" Sill Nosing
Option adds 1/2"
to Rough Opening
Height.

	Primed Unit Dimension								
	Rough Opening								
	Box Size								
	Glass								
	19"	21"	23"	27"	31"	33"	35"	39"	45"
	16½"	18½"	20½"	24½"	28½"	30½"	32½"	36½"	42½"
	16"	18"	20"	24"	28"	30"	32"	36"	42"
	11"	13"	15"	19"	23"	25"	27"	31"	37"
20"									
22"									
26"									
30"									
32"									
34"									
38"									
42"									
44"									
50"									
56"									
54½"									
54"									
49"									

Casement Single Unit Elevations

Unit Dimension
given for primed
units only

Clad Unit Dimension
is identical to Box
Size

Masonry Opening:
Recommended
minimum of Unit or
Frame Dimension
plus ¼"

Shaded units meet
UBC egress codes
(5.7 sq. ft., 20"
width, 24" height
minimum)

Note: 2" Sill Nosing
Option adds 1/2"
to Rough Opening
Height.

	Primed Unit Dimension								
	Rough Opening								
	Box Size								
	Glass								
62"	1660	1860	2060	2460	2860	3060	3260	3660	4260
60½"									
60"									
55"									
68"	1666	1866	2066	2466	2866	3066	3266	3666	4266
66½"									
66"									
61"									
74"	1672	1872	2072	2472	2872	3072	3272	3672	4272
72½"									
72"									
67"									
80"	1678	1878	2078	2478	2878	3078	3278	3678	4278
78½"									
78"									
73"									
86"	1684	1884	2084	2484	2884	3084	3284	3684	4284
84½"									
84"									
79"									

Casement Single Unit Elevations

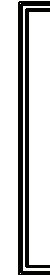
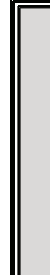
Unit Dimension given for primed units only

Clad Unit Dimension is identical to Box Size

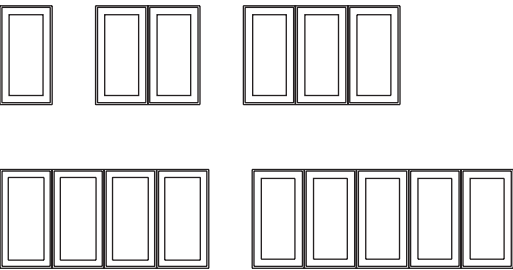
Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"

Shaded units meet UBC egress codes (5.7 sq. ft., 20" width, 24" height minimum)

Note: 2" Sill Nosing Option adds 1/2" to Rough Opening Height.

	Primed Unit Dimension								
	Rough Opening								
	Box Size								
	Class								
	19"	21"	23"	27"	31"	33"	35"	39"	45"
	16½"	18½"	20½"	24½"	28½"	30½"	32½"	36½"	42½"
	16"	18"	20"	24"	28"	30"	32"	36"	42"
	11"	13"	15"	19"	23"	25"	27"	31"	37"
92"									
90½"									
90"									
85"									
98"									
96½"									
96"									
91"									
									
	1690	1890	2090	2490	2890	3090	3290	3690	4290
									
	1696	1896	2096	2496	2896	3096	3296	3696	4296

Casement Multiple Unit Elevations



CASEMENT MULTIPLE UNIT FORMULA

Multiple unit Frame Dimension equals the sum of the individual Frame Dimension

Multiple unit Rough Opening equals the sum of the individual Frame Dimension plus ½"

Clad Unit Dimension – Same as Multiple Unit Frame Dimension

Primed multiple Unit Dimension equals the sum of the total rough opening plus 2½" in width and the total rough opening plus 1½" in height

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"

Casement Studio Unit Elevations

Primed Unit Dimension Rough Opening Box Size Glass		51"	57"	59"	63"	67"	75"	81"	87"	93"	99"
		48½"	54½"	56½"	60½"	64½"	72½"	78½"	84½"	90½"	96½"
		48"	54"	56"	60"	64"	72"	78"	84"	90"	96"
		43"	49"	51"	55"	59"	67"	73"	79"	85"	91"
20"	18½"										
22"	20½"										
26"	24½"										
30"	28½"										
32"	30½"										
34"	32½"										
38"	36½"										
42"	40½"										
44"	42½"										
50"	48½"										
56"	54½"										
66"	60½"										
68"	66½"										
74"	72½"										
72"	66"										
67"	61"										

Unit Dimension given for primed units only

Clad Unit Dimension is identical to Box Size

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"

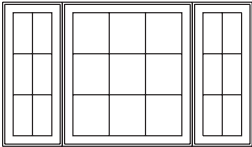
Units 48" x 48" or larger use 1" insulated glass.

Casement Studio Unit Elevations

Primed Unit Dimension		Rough Opening									
		Frame									
		Glass									
80"	78½"	51"	57"	59"	63"	67"	75"	81"	87"	93"	99"
		48½"	54½"	56½"	60½"	64½"	72½"	78½"	84½"	90½"	96½"
		48"	54"	56"	60"	64"	72"	78"	84"	90"	96"
		43"	49"	51"	55"	59"	67"	73"	79"	85"	91"
86"	84½"										
	84"										
	79"										
92"	90½"										
	90"										
	85"										
98"	96½"										
	96"										
	91"										
		4878	5478	5678	6078	6478	7278	7878	8478	9078	9678
		4884	5484	5684	6084	6484	7284	7884	8484	9084	9684
		4890	5490	5690	6090	6490	7290	7890	8490	9090	9690
		4896	5496	5696	6096	6496	7296	7896	8496	9096	9696

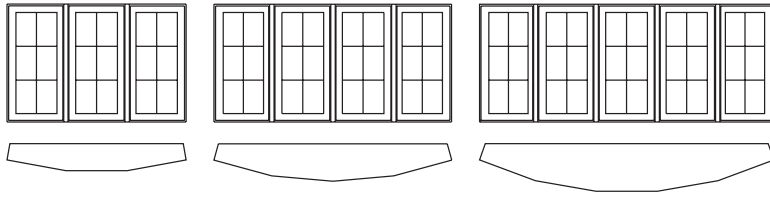
- Unit Dimension given for primed units only
- Clad Unit Dimension is identical to Box Size
- Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"
- Units 48" x 48" or larger use 1" insulated glass.

Casement Triple Picture Unit



- Casement Triple Picture Units consist of a Studio Unit Center with two single casement flankers
- Clad Triple Picture Unit Dimension – Same as Triple Picture Frame Dimension
- Triple Picture Frame dimensions equal the sum of the individual boxes.
- Primed Triple Picture Unit Dimension equals the sum of the Total Rough Opening plus 2½" width and 1½" height
- Triple Picture Rough Opening Dimension equals the complete frame dimension plus ½"
- Masonry Opening: Recommended Minimum of Unit Dimension plus ¼"

Casement Bow Unit



20" Box Widths

		3 Wide	4 Wide	5 Wide
Rough Opening	Clad	62"	81 $\frac{7}{8}$ "	101 $\frac{3}{16}$ "
	Primed	61 $\frac{1}{16}$ "	81 $\frac{5}{16}$ "	100 $\frac{1}{2}$ "
Projection	Clad	4 $\frac{9}{16}$ "	8 $\frac{1}{8}$ "	11 $\frac{5}{8}$ "
	Primed	4 $\frac{11}{16}$ "	8 $\frac{3}{8}$ "	11 $\frac{15}{16}$ "

24" Box Widths

		3 Wide	4 Wide	5 Wide
Rough Opening	Clad	73 $\frac{7}{8}$ "	97 $\frac{3}{32}$ "	120 $\frac{3}{8}$ "
	Primed	73 $\frac{5}{16}$ "	97"	119 $\frac{15}{16}$ "
Projection	Clad	5 $\frac{3}{16}$ "	9 $\frac{3}{4}$ "	13 $\frac{5}{8}$ "
	Primed	5 $\frac{17}{32}$ "	9 $\frac{11}{16}$ "	13 $\frac{15}{16}$ "

28" Box Widths

		3 Wide	4 Wide	5 Wide
Rough Opening	Clad	85 $\frac{3}{4}$ "	113 $\frac{3}{8}$ "	140 $\frac{1}{16}$ "
	Primed	85 $\frac{1}{4}$ "	112 $\frac{3}{4}$ "	139 $\frac{7}{16}$ "
Projection	Clad	5 $\frac{13}{16}$ "	10 $\frac{13}{16}$ "	15 $\frac{5}{8}$ "
	Primed	6 $\frac{1}{4}$ "	11"	15 $\frac{15}{16}$ "

32" Box Widths

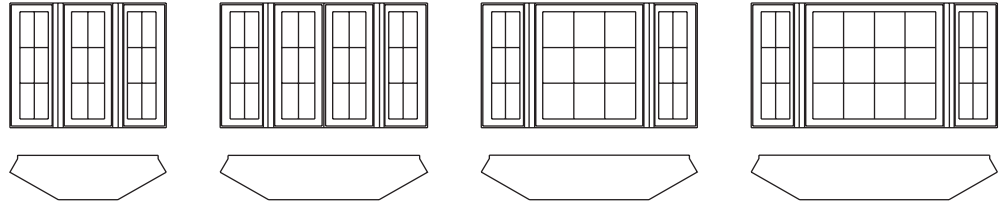
		3 Wide	4 Wide
Rough Opening	Clad	97 $\frac{11}{16}$ "	129 $\frac{1}{16}$ "
	Primed	97 $\frac{1}{8}$ "	128 $\frac{1}{2}$ "
Projection	Clad	6 $\frac{1}{2}$ "	12 $\frac{1}{8}$ "
	Primed	6 $\frac{15}{16}$ "	12 $\frac{5}{16}$ "

Glass Heights	Box Sizes Clad/Primed Heights	Rough Opening Heights
27"	33 $\frac{1}{4}$ "	33 $\frac{3}{4}$ "
31"	37 $\frac{1}{4}$ "	37 $\frac{3}{4}$ "
35"	41 $\frac{1}{4}$ "	41 $\frac{3}{4}$ "
37"	43 $\frac{1}{4}$ "	43 $\frac{3}{4}$ "
43"	49 $\frac{1}{4}$ "	49 $\frac{3}{4}$ "
49"	55 $\frac{1}{4}$ "	55 $\frac{3}{4}$ "
55"	61 $\frac{1}{4}$ "	61 $\frac{3}{4}$ "
61"	67 $\frac{1}{4}$ "	67 $\frac{3}{4}$ "
67"	73 $\frac{1}{4}$ "	73 $\frac{3}{4}$ "
73"	79 $\frac{1}{4}$ "	79 $\frac{3}{4}$ "
79"	85 $\frac{1}{4}$ "	85 $\frac{3}{4}$ "
85"	91 $\frac{1}{4}$ "	91 $\frac{3}{4}$ "
91"	97 $\frac{1}{4}$ "	97 $\frac{3}{4}$ "

Vertical rough openings indicated are standard unit heights with $\frac{1}{4}$ " added for head and seat boards – deduct for walk out bow

Vertical unit dimensions reflect clad to clad and brickmould to sill nosing. The use of head and seat boards will add an additional $\frac{1}{4}$ " to the overall frame height.

Casement Bay Window (30°)



	Box	20/20/20"	20/20/20/20"	20/54/20"	20/64/20"
Unit Dimension	Clad	60 $\frac{5}{16}$ "	80 $\frac{5}{16}$ "	94 $\frac{5}{16}$ "	104 $\frac{5}{16}$ "
	Primed	63 $\frac{1}{16}$ "	83 $\frac{1}{16}$ "	97 $\frac{1}{16}$ "	107 $\frac{1}{16}$ "
Rough Opening	Clad	60 $\frac{3}{16}$ "	80 $\frac{3}{16}$ "	94 $\frac{3}{16}$ "	104 $\frac{3}{16}$ "
	Primed	58 $\frac{13}{16}$ "	78 $\frac{13}{16}$ "	92 $\frac{13}{16}$ "	102 $\frac{13}{16}$ "
Projection	Clad	11 $\frac{7}{8}$ "	11 $\frac{7}{8}$ "	11 $\frac{7}{8}$ "	11 $\frac{7}{8}$ "
	Primed	12 $\frac{3}{8}$ "	12 $\frac{3}{8}$ "	12 $\frac{3}{8}$ "	12 $\frac{3}{8}$ "

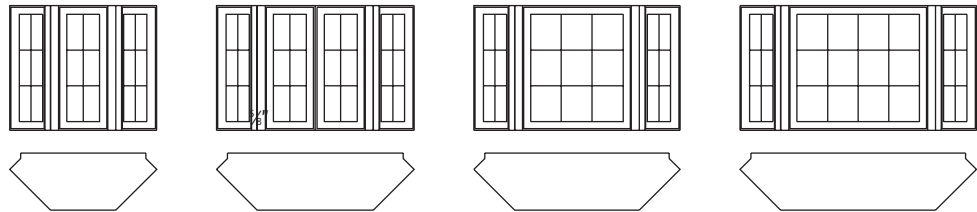
	Box	24/24/24"	24/24/24/24"	24/48/24"	24/60/24"
Unit Dimension	Clad	71 $\frac{1}{4}$ "	95 $\frac{1}{4}$ "	95 $\frac{1}{4}$ "	107 $\frac{1}{4}$ "
	Primed	74"	98"	98"	110"
Rough Opening	Clad	71 $\frac{1}{16}$ "	95 $\frac{1}{16}$ "	95 $\frac{1}{16}$ "	107 $\frac{1}{16}$ "
	Primed	69 $\frac{3}{4}$ "	93 $\frac{3}{4}$ "	93 $\frac{3}{4}$ "	105 $\frac{3}{4}$ "
Projection	Clad	13 $\frac{3}{8}$ "	13 $\frac{3}{8}$ "	13 $\frac{3}{8}$ "	13 $\frac{3}{8}$ "
	Primed	14 $\frac{3}{8}$ "	14 $\frac{3}{8}$ "	14 $\frac{3}{8}$ "	14 $\frac{3}{8}$ "

Glass Heights	Box Sizes Clad/Primed Heights	Rough Opening Heights
27"	33 $\frac{3}{4}$ "	33 $\frac{3}{4}$ "
31"	37 $\frac{1}{4}$ "	37 $\frac{3}{4}$ "
35"	41 $\frac{1}{4}$ "	41 $\frac{3}{4}$ "
37"	43 $\frac{3}{4}$ "	43 $\frac{3}{4}$ "
43"	49 $\frac{1}{4}$ "	49 $\frac{3}{4}$ "
49"	55 $\frac{1}{4}$ "	55 $\frac{3}{4}$ "
55"	61 $\frac{1}{4}$ "	61 $\frac{3}{4}$ "
61"	67 $\frac{1}{4}$ "	67 $\frac{3}{4}$ "
67"	73 $\frac{1}{4}$ "	73 $\frac{3}{4}$ "
73"	79 $\frac{1}{4}$ "	79 $\frac{3}{4}$ "
79"	85 $\frac{1}{4}$ "	85 $\frac{3}{4}$ "
85"	91 $\frac{1}{4}$ "	91 $\frac{3}{4}$ "
91"	97 $\frac{1}{4}$ "	97 $\frac{3}{4}$ "

Vertical rough openings indicated are standard unit heights with 1 $\frac{1}{4}$ " added for head and seat boards – deduct for walk out unit

Vertical unit dimensions reflect clad to clad and brickmould to sill nosing. The use of head and seat boards will add an additional 1 $\frac{1}{4}$ " to the overall frame height.

Casement Bay Window (45°)



	Box	20/20/20"	20/20/20/20"	20/54/20"	20/64/20"
Unit Dimension	Clad	56 $\frac{5}{16}$ "	76 $\frac{5}{16}$ "	90 $\frac{5}{16}$ "	100 $\frac{5}{16}$ "
	Primed	58 $\frac{5}{16}$ "	78 $\frac{5}{16}$ "	92 $\frac{5}{16}$ "	102 $\frac{15}{32}$ "
Rough Opening	Clad	55 $\frac{3}{4}$ "	75 $\frac{3}{4}$ "	89 $\frac{3}{4}$ "	99 $\frac{3}{4}$ "
	Primed	53"	73"	87"	97"
Projection	Clad	16 $\frac{3}{4}$ "	16 $\frac{3}{4}$ "	16 $\frac{3}{4}$ "	16 $\frac{3}{4}$ "
	Primed	17 $\frac{7}{16}$ "	17 $\frac{7}{16}$ "	17 $\frac{7}{16}$ "	17 $\frac{7}{16}$ "

	Box	24/24/24"	24/24/24/24"	24/48/24"	24/60/24"
Unit Dimension	Clad	66"	90"	90"	102"
	Primed	68 $\frac{5}{16}$ "	92 $\frac{5}{16}$ "	98 $\frac{1}{8}$ "	104 $\frac{5}{16}$ "
Rough Opening	Clad	63 $\frac{3}{8}$ "	89 $\frac{3}{8}$ "	89 $\frac{3}{8}$ "	101 $\frac{1}{8}$ "
	Primed	62 $\frac{11}{16}$ "	86 $\frac{11}{16}$ "	86 $\frac{11}{16}$ "	98 $\frac{11}{16}$ "
Projection	Clad	19 $\frac{5}{8}$ "	19 $\frac{5}{8}$ "	19 $\frac{5}{8}$ "	19 $\frac{5}{8}$ "
	Primed	20 $\frac{3}{8}$ "	20 $\frac{3}{8}$ "	20 $\frac{3}{8}$ "	20 $\frac{3}{8}$ "

Glass
Heights

27"
31"
35"
37"
43"
49"
55"
61"
67"
73"
79"
85"
91"

Box Sizes
Clad/Primed
Heights

33 $\frac{3}{4}$ "
37 $\frac{1}{4}$ "
41 $\frac{1}{4}$ "
43 $\frac{3}{4}$ "
49 $\frac{1}{4}$ "
55 $\frac{1}{4}$ "
61 $\frac{1}{4}$ "
67 $\frac{1}{4}$ "
73 $\frac{1}{4}$ "
79 $\frac{1}{4}$ "
85 $\frac{1}{4}$ "
91 $\frac{1}{4}$ "
97 $\frac{1}{4}$ "

Rough
Opening
Heights

33 $\frac{3}{4}$ "
37 $\frac{3}{4}$ "
41 $\frac{3}{4}$ "
43 $\frac{3}{4}$ "
49 $\frac{3}{4}$ "
55 $\frac{3}{4}$ "
61 $\frac{3}{4}$ "
67 $\frac{3}{4}$ "
73 $\frac{3}{4}$ "
79 $\frac{3}{4}$ "
85 $\frac{3}{4}$ "
91 $\frac{3}{4}$ "
97 $\frac{3}{4}$ "

Vertical rough openings indicated are standard unit heights with 1 $\frac{1}{4}$ " added for head and seat boards – deduct for walk out unit

Vertical unit dimensions reflect clad to clad and brickmould to sill nosing. The use of head and seat boards will add an additional 1 $\frac{1}{4}$ " to the overall frame height.

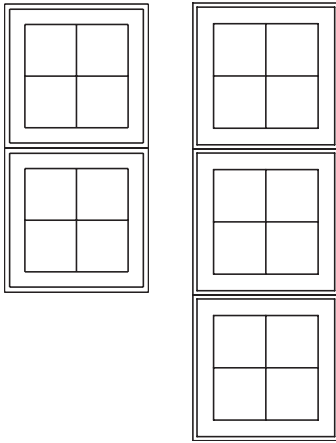
Awning Single Unit Elevations

Primed Unit Dimension Rough Opening Box Size Glass		21"	23"	27"	31"	33"	35"	39"	45"	51"	57"	63"
		18½"	20½"	24½"	28½"	30½"	32½"	36½"	42½"	48½"	54½"	60½"
		18"	20"	24"	28"	30"	32"	36"	42"	48"	54"	60"
		13"	15"	19"	23"	25"	28"	31"	37"	43"	49"	55"
20"	18½"											
22"	20½"											
26"	24½"											
30"	28½"											
32"	30½"											
34"	32½"											
38"	36½"											
42"	40½"											
44"	42½"											
50"	48½"											
56"	54½"											
62"	60½"											

Unit Dimension given for primed units only.

Clad Unit Dimension is identical to Frame Size

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"



AWNING MULTIPLE UNIT FORMULA

These formulas apply to mulled and stacked standard units as well as Awning Studio Units

Awning windows may be mulled in width as well as height. Calculate the rough opening and unit dimension as follows:

Multiple unit Frame Dimension equals the sum of the individual frame boxes

Multiple unit Rough Opening equals the sum of the individual boxes plus $\frac{1}{2}$ "

Clad Unit Dimension – Same as Multiple Unit Frame Dimension

Primed multiple Unit Dimension equals the total Rough Opening plus $2\frac{1}{2}$ " width and the Rough Opening plus $1\frac{1}{2}$ " height.

Masonry Opening: Recommended minimum of Unit Dimension plus $\frac{1}{4}$ " or Frame Dimension

Double Hung Unit Elevations

Hung Unit Dimensions		Primed Unit Dimension									
		Rough Opening									
		Frame									
		Sash Opening									
		Glass									
		24"	28"	32"	34"	36"	38"	40"	44"	48"	
		21 ¹ / ₈ "	25 ⁷ / ₈ "	29 ⁹ / ₈ "	31 ¹ / ₈ "	33 ³ / ₈ "	35 ⁵ / ₈ "	37 ⁷ / ₈ "	41 ¹ / ₈ "	45 ⁵ / ₈ "	
		21 ¹ / ₈ "	25 ³ / ₈ "	29 ⁹ / ₈ "	31 ³ / ₈ "	33 ³ / ₈ "	35 ³ / ₈ "	37 ³ / ₈ "	41 ³ / ₈ "	45 ⁵ / ₈ "	
		1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	2' 10"	3' 0"	3' 4"	3' 8"	
		16"	20"	24"	26"	28"	30"	32"	36"	40"	
WIDERAILS	NARROW RAILS	34 ¹ / ₄ "									
		38 ³ / ₄ "									
		42 ¹ / ₄ "									
		46 ¹ / ₄ "									
		50 ¹ / ₄ "									
		54 ¹ / ₄ "									
		58 ¹ / ₄ "									
		62 ¹ / ₄ "									
		66 ¹ / ₄ "									
		70 ¹ / ₄ "									
		74 ¹ / ₄ "									
		73"									
		72 ¹ / ₂ "									
		5' 10 ¹ / ₂ "									
		32"									
		33 ³ / ₈ "									

Shaded units meet UBC egress codes

• Ground Floor* (5.0 sq. ft., 20" width, 24" height minimum) in standard 6'10" header application

• Above Ground Floor (5.7 sq. ft., 20" width, 24" height minimum) in standard 6'10" header application

Double Hung Unit Elevations

	24"	28"	32"	34"	36"	38"	40"	44"	48"
Primed Unit Dimension	21 $\frac{7}{8}$ "	25 $\frac{7}{8}$ "	29 $\frac{7}{8}$ "	31 $\frac{7}{8}$ "	33 $\frac{7}{8}$ "	35 $\frac{7}{8}$ "	37 $\frac{7}{8}$ "	41 $\frac{7}{8}$ "	45 $\frac{7}{8}$ "
Rough Opening	21 $\frac{3}{8}$ "	25 $\frac{3}{8}$ "	29 $\frac{3}{8}$ "	31 $\frac{3}{8}$ "	33 $\frac{3}{8}$ "	35 $\frac{3}{8}$ "	37 $\frac{3}{8}$ "	41 $\frac{3}{8}$ "	45 $\frac{3}{8}$ "
Frame	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	2' 10"	3' 0"	3' 4"	3' 8"
Sash Opening	16"	20"	24"	26"	28"	30"	32"	36"	40"
Glass									
	21 $\frac{3}{8}$ x 76 $\frac{1}{2}$	25 $\frac{3}{8}$ x 76 $\frac{1}{2}$	29 $\frac{3}{8}$ x 76 $\frac{1}{2}$	31 $\frac{3}{8}$ x 76 $\frac{1}{2}$	33 $\frac{3}{8}$ x 76 $\frac{1}{2}$	35 $\frac{3}{8}$ x 76 $\frac{1}{2}$	37 $\frac{3}{8}$ x 76 $\frac{1}{2}$	41 $\frac{3}{8}$ x 76 $\frac{1}{2}$	45 $\frac{3}{8}$ x 76 $\frac{1}{2}$
	21 $\frac{3}{8}$ x 80 $\frac{1}{2}$	25 $\frac{3}{8}$ x 80 $\frac{1}{2}$	29 $\frac{3}{8}$ x 80 $\frac{1}{2}$	31 $\frac{3}{8}$ x 80 $\frac{1}{2}$	33 $\frac{3}{8}$ x 80 $\frac{1}{2}$	35 $\frac{3}{8}$ x 80 $\frac{1}{2}$	37 $\frac{3}{8}$ x 80 $\frac{1}{2}$	41 $\frac{3}{8}$ x 80 $\frac{1}{2}$	45 $\frac{3}{8}$ x 80 $\frac{1}{2}$
	21 $\frac{3}{8}$ x 88 $\frac{1}{2}$	25 $\frac{3}{8}$ x 88 $\frac{1}{2}$	29 $\frac{3}{8}$ x 88 $\frac{1}{2}$	31 $\frac{3}{8}$ x 88 $\frac{1}{2}$	33 $\frac{3}{8}$ x 88 $\frac{1}{2}$	35 $\frac{3}{8}$ x 88 $\frac{1}{2}$	37 $\frac{3}{8}$ x 88 $\frac{1}{2}$	41 $\frac{3}{8}$ x 88 $\frac{1}{2}$	45 $\frac{3}{8}$ x 88 $\frac{1}{2}$
	21 $\frac{3}{8}$ x 92 $\frac{1}{2}$	25 $\frac{3}{8}$ x 92 $\frac{1}{2}$	29 $\frac{3}{8}$ x 92 $\frac{1}{2}$	31 $\frac{3}{8}$ x 92 $\frac{1}{2}$	33 $\frac{3}{8}$ x 92 $\frac{1}{2}$	35 $\frac{3}{8}$ x 92 $\frac{1}{2}$	37 $\frac{3}{8}$ x 92 $\frac{1}{2}$	41 $\frac{3}{8}$ x 92 $\frac{1}{2}$	45 $\frac{3}{8}$ x 92 $\frac{1}{2}$
WIDE RAILS	78 $\frac{1}{4}$ "	82 $\frac{1}{4}$ "	86 $\frac{1}{4}$ "	90 $\frac{1}{4}$ "					
NARROW RAILS	77"	81"	85"	89"					
	76 $\frac{1}{2}$ "	80 $\frac{1}{2}$ "	84 $\frac{1}{2}$ "	88 $\frac{1}{2}$ "					
	6' 2 $\frac{1}{2}$ "	6' 6 $\frac{1}{2}$ "	7' 2 $\frac{1}{2}$ "	7' 6 $\frac{1}{2}$ "					
	34"	36"	40"	42"					
	35 $\frac{1}{8}$ "	37 $\frac{1}{8}$ "	41 $\frac{1}{8}$ "	43 $\frac{1}{8}$ "					

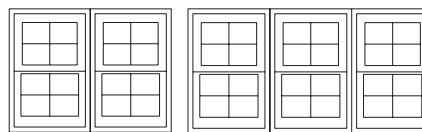
Unit Dimension given for primed units only

Clad Unit Dimension is identical to Frame Size

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus $\frac{1}{4}$ "

Shaded units meet UBC egress codes

- **Ground Floor *** (5.0 sq. ft., 20" width, 24" height minimum) in standard 6'10" header application
- **Above Ground Floor** (5.7 sq. ft., 20" width, 24" height minimum) in standard 6'10" header application



DOUBLE HUNG MULTIPLE UNIT FORMULA

Multiple unit Frame Dimension equals the sum of the individual boxes

Multiple unit Rough Opening equals the sum of the individual boxes plus $\frac{1}{2}$ "

Clad Unit Dimension – Same as Multiple Unit Frame Dimension

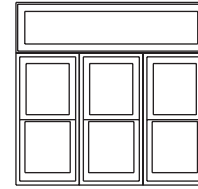
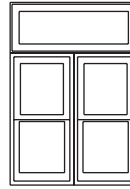
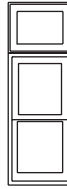
Primed multiple Unit Dimension equals the total rough opening plus 2 $\frac{1}{8}$ " in width and the total rough opening plus 1 $\frac{1}{4}$ " in height

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus $\frac{1}{4}$ "

		Primed Unit Dimension										Rough Opening										Frame										Sash Opening										Glass																																																	
		44"										52"										56"										64"										68"										76"										80"										88"										104"									
		41 7/8"										49 7/8"										53 3/8"										61 7/8"										65 5/8"										73 7/8"										77 7/8"										85 7/8"										101 7/8"									
		41 3/8"										49 3/8"										53 3/8"										61 3/8"										65 3/8"										73 3/8"										77 3/8"										85 3/8"										101 3/8"									
		3' 4"										4' 0"										4' 4"										5' 0"										5' 4"										6' 0"										6' 4"										7' 0"										8' 4"									
		36"										44"										48"										56"										60"										68"										72"										80"										96"									
WIDE RAILS	NARROW RAILS	50 1/4"		41 3/8"x48 1/2"		49 3/8"x48 1/2"		53 3/8"x48 1/2"		61 3/8"x48 1/2"		65 5/8"x48 1/2"		73 3/8"x48 1/2"		77 3/8"x48 1/2"		85 3/8"x48 1/2"		101 3/8"x48 1/2"																																																																							
		54 1/4"		41 3/8"x52 1/2"		49 3/8"x52 1/2"		53 3/8"x52 1/2"		61 3/8"x52 1/2"		65 5/8"x52 1/2"		73 3/8"x52 1/2"		77 3/8"x52 1/2"		85 3/8"x52 1/2"		101 3/8"x52 1/2"																																																																							
		58 1/4"		41 3/8"x56 1/2"		49 3/8"x56 1/2"		53 3/8"x56 1/2"		61 3/8"x56 1/2"		65 5/8"x56 1/2"		73 3/8"x56 1/2"		77 3/8"x56 1/2"		85 3/8"x56 1/2"		101 3/8"x56 1/2"																																																																							
		62 1/4"		41 3/8"x60 1/2"		49 3/8"x60 1/2"		53 3/8"x60 1/2"		61 3/8"x60 1/2"		65 5/8"x60 1/2"		73 3/8"x60 1/2"		77 3/8"x60 1/2"		85 3/8"x60 1/2"		101 3/8"x60 1/2"																																																																							
		66 1/4"		41 3/8"x64 1/2"		49 3/8"x64 1/2"		53 3/8"x64 1/2"		61 3/8"x64 1/2"		65 5/8"x64 1/2"		73 3/8"x64 1/2"		77 3/8"x64 1/2"		85 3/8"x64 1/2"		101 3/8"x64 1/2"																																																																							
		70 1/4"		41 3/8"x64 1/2"		49 3/8"x64 1/2"		53 3/8"x64 1/2"		61 3/8"x64 1/2"		65 5/8"x64 1/2"		73 3/8"x64 1/2"		77 3/8"x64 1/2"		85 3/8"x64 1/2"		101 3/8"x64 1/2"																																																																							
		74 1/4"		41 3/8"x64 1/2"		49 3/8"x64 1/2"		53 3/8"x64 1/2"		61 3/8"x64 1/2"		65 5/8"x64 1/2"		73 3/8"x64 1/2"		77 3/8"x64 1/2"		85 3/8"x64 1/2"		101 3/8"x64 1/2"																																																																							
		78 1/4"		41 3/8"x72 1/2"		49 3/8"x72 1/2"		53 3/8"x72 1/2"		61 3/8"x72 1/2"		65																																																																															

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"

Double Hung Transom Unit Charts



Frame Height	Width	21 $\frac{3}{8}$ "	42 $\frac{3}{4}$ "	64 $\frac{1}{8}$ "
	Glass	1 - 16	2 - 16	3 - 16
1' 1"	8"	DT1-16/08-1	DT2-16/08-1	DT3-16/08-1
1' 5"	12"	DT1-16/12-1	DT2-16/12-1	DT3-16/12-1
1' 9"	16"	DT1-16/16-1	DT2-16/16-1	DT3-16/16-1
2' 1"	20"	DT1-16/20-1	DT2-16/20-1	DT3-16/20-1

Frame Height	Width	25 $\frac{3}{8}$ "	50 $\frac{3}{4}$ "	76 $\frac{1}{4}$ "
	Glass	1 - 20	2 - 20	3 - 20
1' 1"	8"	DT1-20/08-1	DT2-20/08-1	DT3-20/08-1
1' 5"	12"	DT1-20/12-1	DT2-20/12-1	DT3-20/12-1
1' 9"	16"	DT1-20/16-1	DT2-20/16-1	DT3-20/16-1
2' 1"	20"	DT1-20/20-1	DT2-20/20-1	DT3-20/20-1

Frame Height	Width	29 $\frac{3}{8}$ "	58 $\frac{3}{4}$ "	88 $\frac{1}{8}$ "
	Glass	1 - 24	2 - 24	3 - 24
1' 1"	8"	DT1-24/08-1	DT2-24/08-1	DT3-24/08-1
1' 5"	12"	DT1-24/12-1	DT2-24/12-1	DT3-24/12-1
1' 9"	16"	DT1-24/16-1	DT2-24/16-1	DT3-24/16-1
2' 1"	20"	DT1-24/20-1	DT2-24/20-1	DT3-24/20-1

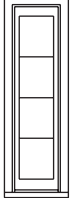
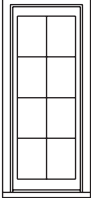
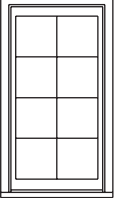
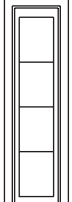
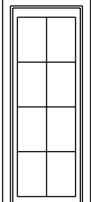
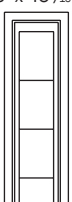
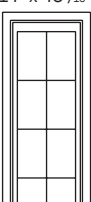
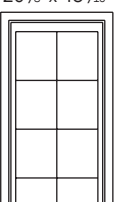
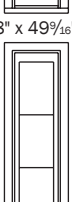
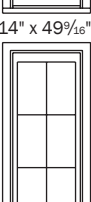
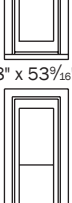
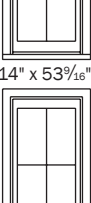
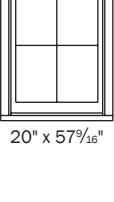
Frame Height	Width	33 $\frac{3}{8}$ "	66 $\frac{3}{4}$ "	88 $\frac{1}{8}$ "
	Glass	1 - 28	2 - 28	3 - 28
1' 1"	8"	DT1-28/08-1	DT2-28/08-1	DT3-28/08-1
1' 5"	12"	DT1-28/12-1	DT2-28/12-1	DT3-28/12-1
1' 9"	16"	DT1-28/16-1	DT2-28/16-1	DT3-28/16-1
2' 1"	20"	DT1-28/20-1	DT2-28/20-1	DT3-28/20-1

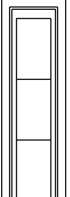
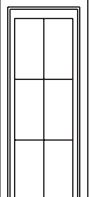
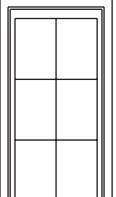
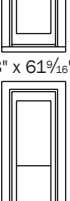
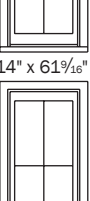
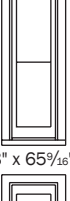
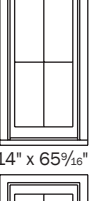
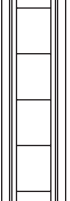
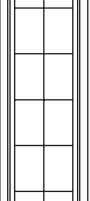
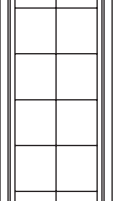
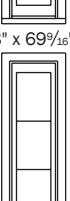
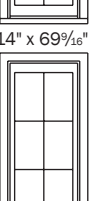
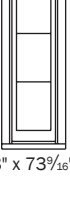
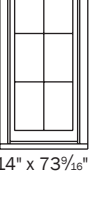
Frame Height	Width	37 $\frac{3}{8}$ "	74 $\frac{3}{4}$ "	112 $\frac{1}{8}$ "
	Glass	1 - 32	2 - 32	3 - 32
1' 1"	8"	DT1-32/08-1	DT2-32/08-1	DT3-32/08-1
1' 5"	12"	DT1-32/12-1	DT2-32/12-1	DT3-32/12-1
1' 9"	16"	DT1-32/16-1	DT2-32/16-1	DT3-32/16-1
2' 1"	20"	DT1-32/20-1	DT2-32/20-1	DT3-32/20-1

Frame Height	Width	41 $\frac{3}{8}$ "	82 $\frac{3}{4}$ "	124 $\frac{1}{8}$ "
	Glass	1 - 36	2 - 36	3 - 36
1' 1"	8"	DT1-36/08-1	DT2-36/08-1	DT3-36/08-1
1' 5"	12"	DT1-36/12-1	DT2-36/12-1	DT3-36/12-1
1' 9"	16"	DT1-36/16-1	DT2-36/16-1	DT3-36/16-1
2' 1"	20"	DT1-36/20-1	DT2-36/20-1	DT3-36/20-1

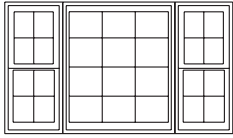
Frame Height	Width	45 $\frac{3}{8}$ "	90 $\frac{3}{4}$ "	136 $\frac{1}{8}$ "
	Glass	1 - 40	2 - 40	3 - 40
1' 1"	8"	DT1-40/08-1	DT2-40/08-1	DT3-40/08-1
1' 5"	12"	DT1-40/12-1	DT2-40/12-1	DT3-40/12-1
1' 9"	16"	DT1-40/16-1	DT2-40/16-1	DT3-40/16-1
2' 1"	20"	DT1-40/20-1	DT2-40/20-1	DT3-40/20-1

Double Hung Studio Sidelites Unit Elevations

	Primed Unit Dimension			Rough Opening			Frame			Sash Opening			Glass		
	16"			22"			28"			16"			22"		
	13 ³ / ₈ "			19 ⁷ / ₈ "			25 ⁵ / ₈ "			13 ³ / ₈ "			19 ³ / ₈ "		
	12"			18"			24"			12"			18"		
	8"			14"			20"			8"			14"		
50 ¹ / ₄ "															
	8" x 41 ⁹ / ₁₆ "			14" x 41 ⁹ / ₁₆ "			20" x 41 ⁹ / ₁₆ "			8" x 45 ⁹ / ₁₆ "			14" x 45 ⁹ / ₁₆ "		
54 ¹ / ₄ "															
	8" x 45 ⁹ / ₁₆ "			14" x 45 ⁹ / ₁₆ "			20 ³ / ₈ " x 45 ⁹ / ₁₆ "								
58 ¹ / ₄ "															
	8" x 49 ⁹ / ₁₆ "			14" x 49 ⁹ / ₁₆ "			20" x 49 ⁹ / ₁₆ "								
62 ¹ / ₄ "															
	8" x 53 ⁹ / ₁₆ "			14" x 53 ⁹ / ₁₆ "			20" x 53 ⁹ / ₁₆ "								
66 ¹ / ₄ "															
	8" x 57 ⁹ / ₁₆ "			14" x 57 ⁹ / ₁₆ "			20" x 57 ⁹ / ₁₆ "								
61"															
64 ¹ / ₂ "															
5' 2 ¹ / ₂ "															
57 ⁹ / ₁₆ "															
59 ⁹ / ₁₆ "															
WIDE RAILS															
NARROW RAILS															

	Primed Unit Dimension			Rough Opening			Frame			Sash Opening			Glass		
	16"			22"			28"			16"			22"		
	13 ³ / ₈ "			19 ⁷ / ₈ "			25 ⁵ / ₈ "			13 ³ / ₈ "			19 ³ / ₈ "		
	12"			18"			24"			12"			18"		
	8"			14"			20"			8"			14"		
70 ¹ / ₄ "															
	8" x 61 ⁹ / ₁₆ "			14" x 61 ⁹ / ₁₆ "			20" x 61 ⁹ / ₁₆ "								
74 ¹ / ₄ "															
	8" x 65 ⁹ / ₁₆ "			14" x 65 ⁹ / ₁₆ "			20" x 65 ⁹ / ₁₆ "								
78 ¹ / ₄ "															
	8" x 69 ⁹ / ₁₆ "			14" x 69 ⁹ / ₁₆ "			20" x 69 ⁹ / ₁₆ "								
82 ¹ / ₄ "															
	8" x 73 ⁹ / ₁₆ "			14" x 73 ⁹ / ₁₆ "			20" x 73 ⁹ / ₁₆ "								
81"															
80 ¹ / ₂ "															
6' 6 ¹ / ₂ "															
73 ⁹ / ₁₆ "															
75 ⁹ / ₁₆ "															
WIDE RAILS															
NARROW RAILS															

Double Hung Triple Picture Unit



Double Hung Triple Picture Units consist of a Studio Unit Center with two single double hung flankers

Triple Picture Frame dimensions equal the sum of the individual boxes

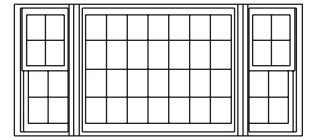
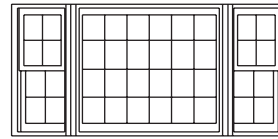
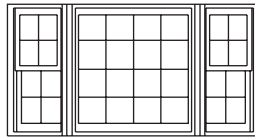
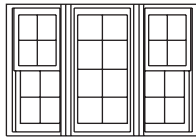
Triple Picture Rough Opening Dimension equals the complete frame dimension plus $\frac{1}{2}$ "

Clad Triple Picture Unit Dimension – Same as Triple Picture Frame Dimension

Primed Triple Picture Unit Dimension equals the total Rough Opening plus $2\frac{1}{8}$ " in width and the Rough Opening plus $1\frac{1}{4}$ " in height

Masonry Opening: Recommended Minimum of Unit or Frame Dimension plus $\frac{1}{4}$ "

Double Hung Bay Windows (30°)



	Glass	16/32/16"	16/44/16"	16/48/16"	16/56/16"
Unit Dimension	Clad	80"	92"	96"	104"
	Primed	82 $\frac{3}{8}$ "	94 $\frac{3}{8}$ "	98 $\frac{3}{8}$ "	106 $\frac{3}{8}$ "
Rough Opening	Clad	79 $\frac{1}{8}$ "	91 $\frac{1}{8}$ "	95 $\frac{1}{8}$ "	103 $\frac{1}{8}$ "
	Primed	78 $\frac{1}{16}$ "	90 $\frac{1}{16}$ "	94 $\frac{1}{16}$ "	102 $\frac{1}{16}$ "
Projection	Clad	12 $\frac{1}{16}$ "	12 $\frac{1}{16}$ "	12 $\frac{1}{16}$ "	12 $\frac{1}{16}$ "
	Primed	13"	13"	13"	13"

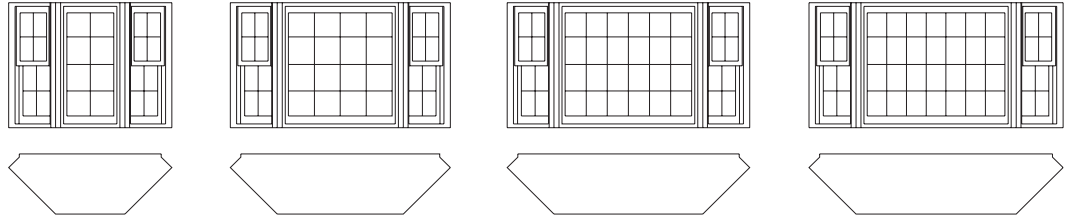
	Glass	20/32/20"	20/44/20"	20/48/20"	20/56/20"
Unit Dimension	Clad	87"	99"	103"	111"
	Primed	89 $\frac{5}{16}$ "	101 $\frac{5}{16}$ "	105 $\frac{5}{16}$ "	113 $\frac{5}{16}$ "
Rough Opening	Clad	86 $\frac{3}{8}$ "	98 $\frac{3}{8}$ "	102 $\frac{3}{8}$ "	110 $\frac{3}{8}$ "
	Primed	85 $\frac{3}{8}$ "	97 $\frac{3}{8}$ "	101 $\frac{3}{8}$ "	109 $\frac{3}{8}$ "
Projection	Clad	14 $\frac{3}{16}$ "	14 $\frac{3}{16}$ "	14 $\frac{3}{16}$ "	14 $\frac{3}{16}$ "
	Primed	15"	15"	15"	15"

Vertical rough openings indicated are standard unit heights with $1\frac{1}{4}$ " added for head and seat boards – deduct for walk out unit

Vertical unit dimensions reflect clad to clad and brickmould to sill nosing. The use of head and seat boards will add an additional $1\frac{1}{4}$ " to the overall frame height.

Glass Heights	Unit Dimension Clad/Primed Heights	Rough Opening Heights
20"	48 $\frac{1}{2}$ "/50 $\frac{1}{4}$ "	50 $\frac{1}{4}$ "
22"	52 $\frac{1}{2}$ "/54 $\frac{1}{4}$ "	54 $\frac{1}{4}$ "
24"	56 $\frac{1}{2}$ "/58 $\frac{1}{4}$ "	58 $\frac{1}{4}$ "
28"	64 $\frac{1}{2}$ "/66 $\frac{1}{4}$ "	66 $\frac{1}{4}$ "
30"	68 $\frac{1}{2}$ "/70 $\frac{1}{4}$ "	70 $\frac{1}{4}$ "

Double Hung Bay Windows (45°)



	Glass	16/33 $\frac{3}{4}$ /16"	16/45 $\frac{3}{4}$ /16"	16/49 $\frac{3}{4}$ /16"	16/57 $\frac{3}{4}$ /16"
Unit Dimension	Clad	75 $\frac{5}{8}$ "	87 $\frac{5}{8}$ "	91 $\frac{5}{8}$ "	99 $\frac{5}{8}$ "
	Primed	77 $\frac{7}{8}$ "	89 $\frac{7}{8}$ "	93 $\frac{7}{8}$ "	101 $\frac{7}{8}$ "
Rough Opening	Clad	75"	87"	91"	99"
	Primed	72 $\frac{5}{8}$ "	84 $\frac{5}{8}$ "	88 $\frac{5}{8}$ "	96 $\frac{5}{8}$ "
Projection	Clad	17 $\frac{3}{4}$ "	17 $\frac{3}{4}$ "	17 $\frac{3}{4}$ "	17 $\frac{3}{4}$ "
	Primed	18 $\frac{1}{8}$ "	18 $\frac{1}{8}$ "	18 $\frac{1}{8}$ "	18 $\frac{1}{8}$ "

	Glass	20/33 $\frac{3}{4}$ /20"	20/45 $\frac{3}{4}$ /20"	20/49 $\frac{3}{4}$ /20"	20/57 $\frac{3}{4}$ /20"
Unit Dimension	Clad	81 $\frac{1}{4}$ "	93 $\frac{1}{4}$ "	97 $\frac{1}{4}$ "	105 $\frac{1}{4}$ "
	Primed	83 $\frac{3}{8}$ "	95 $\frac{3}{8}$ "	99 $\frac{3}{8}$ "	107 $\frac{3}{8}$ "
Rough Opening	Clad	80 $\frac{5}{8}$ "	92 $\frac{5}{8}$ "	96 $\frac{5}{8}$ "	104 $\frac{5}{8}$ "
	Primed	78 $\frac{3}{8}$ "	90 $\frac{3}{8}$ "	94 $\frac{3}{8}$ "	102 $\frac{3}{8}$ "
Projection	Clad	20 $\frac{9}{16}$ "	20 $\frac{9}{16}$ "	20 $\frac{9}{16}$ "	20 $\frac{9}{16}$ "
	Primed	21 $\frac{1}{4}$ "	21 $\frac{1}{4}$ "	21 $\frac{1}{4}$ "	21 $\frac{1}{4}$ "

Vertical rough openings indicated are standard unit heights with 1 $\frac{1}{4}$ " added for head and seat boards – deduct for walk out unit

Vertical unit dimensions reflect clad to clad and brickmould to sill nosing. The use of head and seat boards will add an additional 1 $\frac{1}{4}$ " to the overall frame height.

Glass Heights

20"
22"
24"
28"
30"

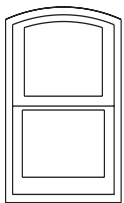
Unit Dimension Clad/Primed Heights

48 $\frac{1}{2}$ "/50 $\frac{1}{4}$ "
52 $\frac{1}{2}$ "/54 $\frac{1}{4}$ "
56 $\frac{1}{2}$ "/58 $\frac{1}{4}$ "
64 $\frac{1}{2}$ "/66 $\frac{1}{4}$ "
68 $\frac{1}{2}$ "/70 $\frac{1}{4}$ "

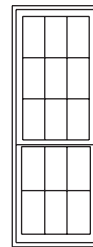
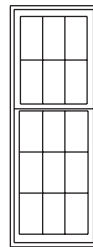
Rough Opening Heights

50 $\frac{1}{4}$ "
54 $\frac{1}{4}$ "
58 $\frac{1}{4}$ "
66 $\frac{1}{4}$ "
70 $\frac{1}{4}$ "

Double Hung Segment Head



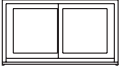
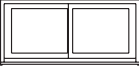
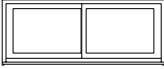
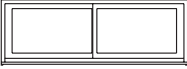
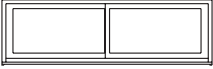
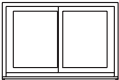
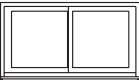
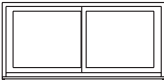
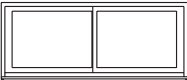
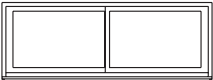
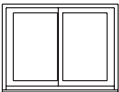
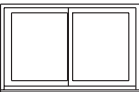
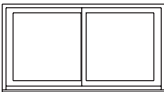
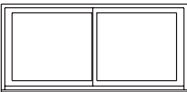
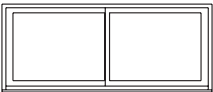
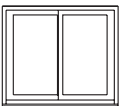
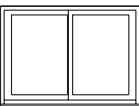
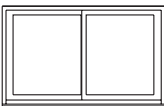
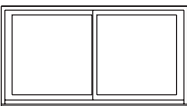
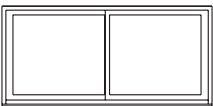
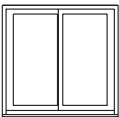
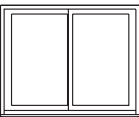
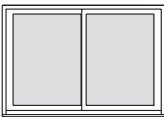
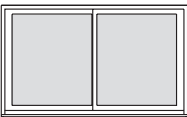
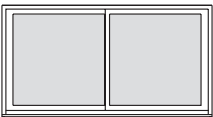
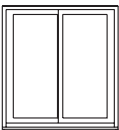
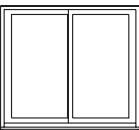
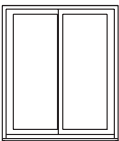
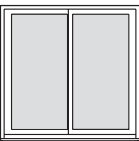
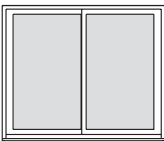
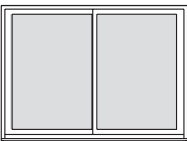
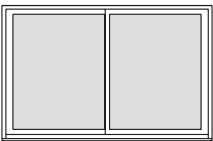
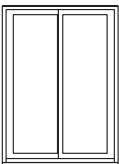
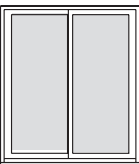
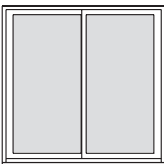
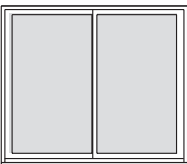
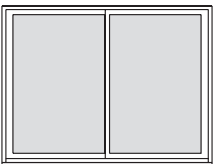
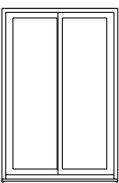
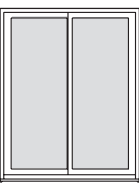
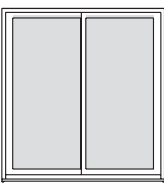
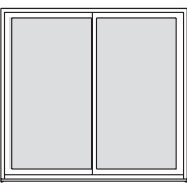
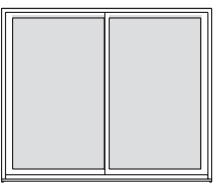
Segment head single hungs are available as aluminum clad and primed wood units only. Glass sizes 20 through 32 inch width have a standard radius. As a custom unit it may be ordered with a custom radius to include a true extended leg half round top sash. The unit offers a half screen.



Double Hung Cottage & Oriel

Cottage and Oriel style double hung windows are available in all exterior options. Standard units are comprised of all standard widths and a 5'-6" sash opening height. Custom sizing is available. Maximum size may not exceed a 40" glass width or a 36" glass height.

Glider Unit Elevations

	Primed Unit Dimension	Rough Opening	Frame	Glass					
					42½"	50½"	58½"	66½"	74½"
					40⅝"	48⅝"	56⅝"	64⅝"	72⅝"
					39⅞"	47⅞"	55⅞"	63⅞"	71⅞"
					16"	20"	24"	28"	32"
23⅞"	22⅝"	22⅝"	16"						
27⅞"	26⅝"	26⅝"	20"						
31⅞"	30⅝"	30⅝"	24"						
35⅞"	34⅝"	34⅝"	28"						
39⅞"	38⅝"	38⅝"	32"						
43⅞"	42⅝"	42⅝"	36"						
47⅞"	46⅝"	46⅝"	40"						
55⅞"	54⅝"	54⅝"	48"						
61⅞"	60⅝"	60⅝"	54"						
					1616	2016	2416	2816	3216
					1620	2020	2420	2820	3220
					1624	2024	2424	2824	3224
					1628	2028	2428	2828	3228
					1632	2032	2432	2832	3232
					1636	2036	2436	2836	3236
					1640	2040	2440	2840	3240
					1648	2048	2448	2848	3248
					1654	2054	2454	2854	3254

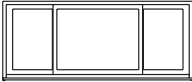
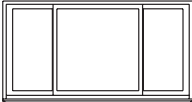
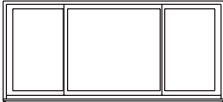
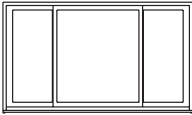
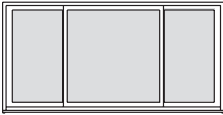
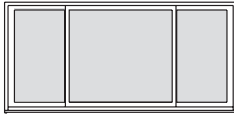
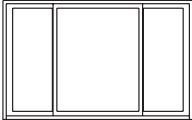
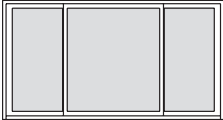
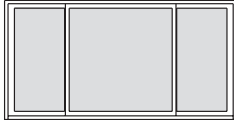
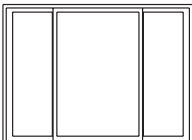
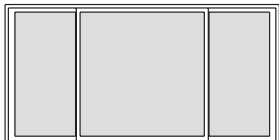
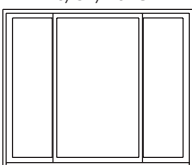
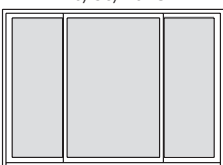
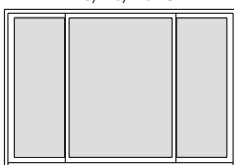
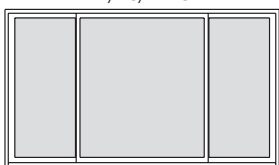
Unit Dimension given for primed units only

Clad unit dimension width is identical to frame width. Clad unit dimension height is ¼" less than frame height.

Masonry Opening: Recommended minimum of Unit Dimension plus ¼". Due to the side jamb sill wedges, the clad vertical exterior unit dimension is ¼" smaller than the frame height. This may affect masonry framing.

Shaded units meet UBC egress codes (5.7 sq. ft., 20" width, 24" height minimum).

Triple Glider Picture Unit Elevations

Primed Unit Dimension Rough Opening Frame Class	76 $\frac{1}{8}$ "	88 $\frac{1}{8}$ "	92 $\frac{1}{8}$ "	108 $\frac{1}{8}$ "
	73 $\frac{1}{8}$ "	85 $\frac{1}{8}$ "	89 $\frac{1}{8}$ "	105 $\frac{1}{8}$ "
	73 $\frac{3}{8}$ "	85 $\frac{3}{8}$ "	89 $\frac{3}{8}$ "	105 $\frac{3}{8}$ "
	16/32/16	20/36/20	20/40/20	24/48/24
31 $\frac{1}{8}$ "	 16/32/1624	 20/36/2024	 20/40/2024	 24/48/2424
39 $\frac{1}{8}$ "	 16/32/1632	 20/36/2032	 20/40/2032	 24/48/2432
43 $\frac{1}{8}$ "	 16/32/1636	 20/36/2036	 20/40/2036	 24/48/2436
47 $\frac{1}{8}$ "	 16/32/1640	 20/36/2040	 20/40/2040	 24/48/2440
55 $\frac{1}{8}$ "	 16/32/1648	 20/36/2048	 20/40/2048	 24/48/2448
61 $\frac{1}{8}$ "	 16/32/1654	 20/36/2054	 20/40/2054	 24/48/2454

Unit Dimension given for primed units only

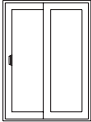
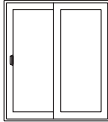
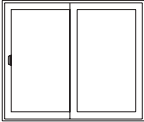
Clad unit dimension width is identical to frame width. Clad unit dimension height is $\frac{1}{4}$ " less than frame height.

Masonry Opening: Recommended minimum of Unit Dimension plus $\frac{1}{4}$ ". Due to the side jamb sill wedges, the clad vertical exterior unit dimension is $\frac{1}{4}$ " smaller than the frame height. This may affect masonry opening.

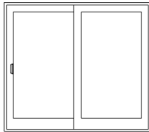
Shaded units meet UBC egress codes (5.7 sq. ft., 20" width, 24" height minimum).

Slide Patio Doors

6/6 Replacement Height

Narrow Stile				Wide Stile			
80³/₄" 80¹/₄" 79³/₄" 73"(N) / 68³/₄"(W)	Primed Unit Dimension	60 ³ / ₁₆ "	72 ³ / ₁₆ "	96 ³ / ₁₆ "	60 ³ / ₁₆ "	72 ³ / ₁₆ "	96 ³ / ₁₆ "
	Rough Opening	58 ¹¹ / ₁₆ "	70 ¹ / ₁₆ "	94 ¹ / ₁₆ "	58 ¹¹ / ₁₆ "	70 ¹ / ₁₆ "	94 ¹ / ₁₆ "
	Frame	58 ³ / ₁₆ "	70 ³ / ₁₆ "	94 ³ / ₁₆ "	58 ³ / ₁₆ "	70 ³ / ₁₆ "	94 ³ / ₁₆ "
	Glass	25"	31"	43"	21 ⁵ / ₈ "	27 ⁵ / ₈ "	39 ⁵ / ₈ "
	   5066 6066 8066				   5066 6066 8066		

6/8 and 8/0 Heights

Narrow Stile				Wide Stile			
83³/₄" 83¹/₄" 82¹/₄" 76"(N) / 68³/₄"(W)	Primed Unit Dimension	60 ³ / ₁₆ "	78 ³ / ₁₆ "	96 ³ / ₁₆ "	60 ³ / ₁₆ "	78 ³ / ₁₆ "	96 ³ / ₁₆ "
	Rough Opening	58 ¹¹ / ₁₆ "	76 ¹¹ / ₁₆ "	94 ¹¹ / ₁₆ "	58 ¹¹ / ₁₆ "	76 ¹¹ / ₁₆ "	94 ¹¹ / ₁₆ "
	Frame	58 ³ / ₁₆ "	76 ³ / ₁₆ "	94 ³ / ₁₆ "	58 ³ / ₁₆ "	76 ³ / ₁₆ "	94 ³ / ₁₆ "
	Glass	25"	34"	43"	21 ¹ / ₈ "	30 ³ / ₈ "	39 ³ / ₈ "
   5068 6068 8068    5068 6068 8068							
97⁵/₈" 97¹/₈" 96⁵/₈" 89⁷/₈"(N) / 82¹³/₁₆"(W)	Primed Unit Dimension	60 ³ / ₁₆ "	78 ³ / ₁₆ "	96 ³ / ₁₆ "	60 ³ / ₁₆ "	78 ³ / ₁₆ "	96 ³ / ₁₆ "
	Rough Opening	58 ¹¹ / ₁₆ "	76 ¹¹ / ₁₆ "	94 ¹¹ / ₁₆ "	58 ¹¹ / ₁₆ "	76 ¹¹ / ₁₆ "	94 ¹¹ / ₁₆ "
	Frame	58 ³ / ₁₆ "	76 ³ / ₁₆ "	94 ³ / ₁₆ "	58 ³ / ₁₆ "	76 ³ / ₁₆ "	94 ³ / ₁₆ "
	Glass	25"	34"	43"	21 ¹ / ₈ "	30 ³ / ₈ "	39 ³ / ₈ "
   5080 6080 8080    5080 6080 8080							

Unit Dimension given for primed units only

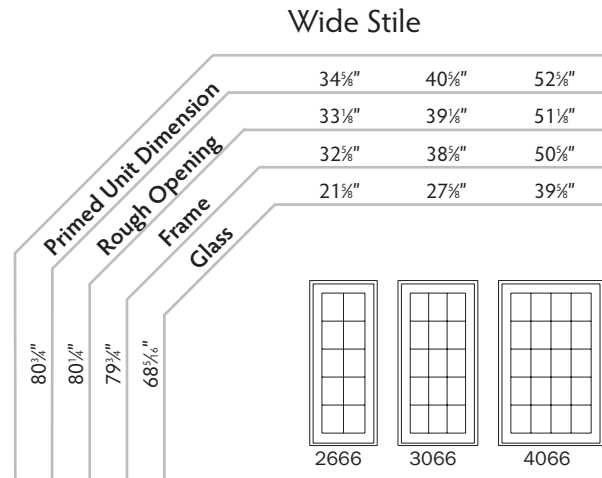
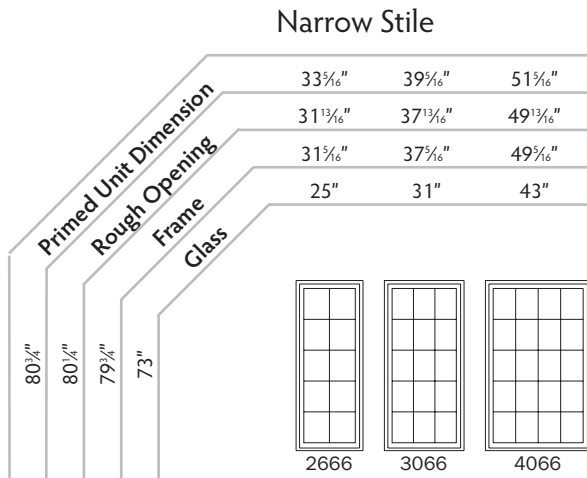
Clad Unit Dimension is identical to Frame Size

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus 1/4"

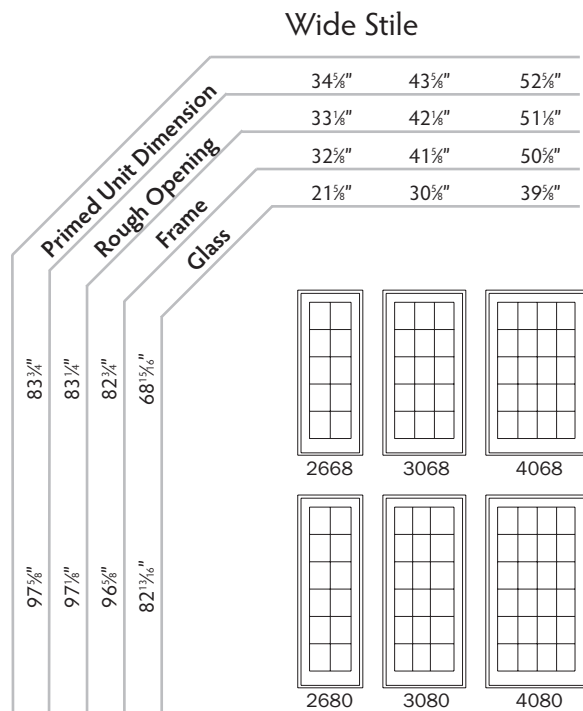
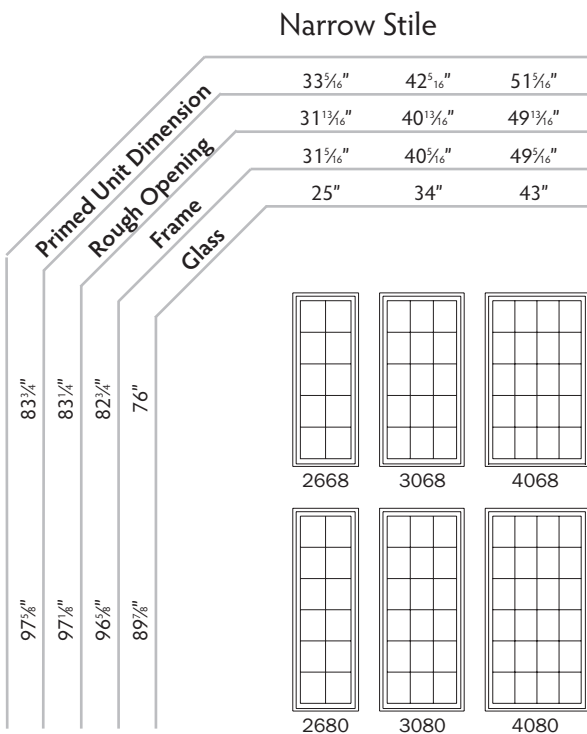
Standard lite division depicted on single panel side lites

Slide Patio Doors Single Panel Sidelites

6/6 Replacement Height

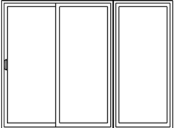
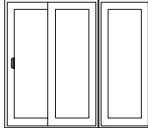
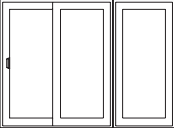
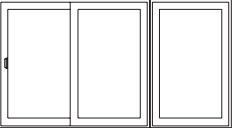


6/8 and 8/0 Heights

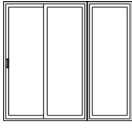
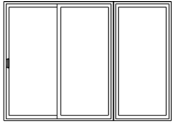
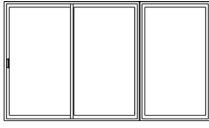
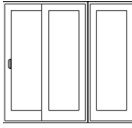
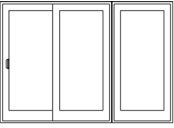
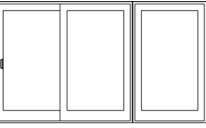
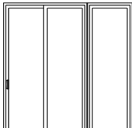
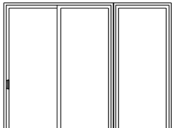
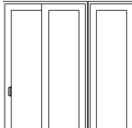


3-Wide Primed and Clad Slide Patio Doors

6/6 Replacement Height

Narrow Stile				Wide Stile		
Primed Unit Dimension	Rough Opening	Frame	Glass	91½"	109½"	145½"
				90"	108"	144"
				89½"	107½"	143½"
				25"	31"	43"
80¼"				92⅓⁄₁₆"	110⅓⁄₁₆"	146⅓⁄₁₆"
80¼"				91⅓⁄₁₆"	109⅓⁄₁₆"	145⅓⁄₁₆"
79¾"				90⅓⁄₁₆"	108⅓⁄₁₆"	144⅓⁄₁₆"
73"(N) / 68⅝"(W)				21⅝"	27⅝"	39⅝"
						
				7666	9066	12066
						
				7666	9066	12066

6/8 and 8/0 Heights

Narrow Stile				Wide Stile		
Primed Unit Dimension	Rough Opening	Frame	Glass	91½"	118½"	145½"
				90"	117"	144"
				89½"	116½"	143½"
				25"	34"	43"
83¾"				92⅓⁄₁₆"	119⅓⁄₁₆"	146⅓⁄₁₆"
83¾"				91⅓⁄₁₆"	118⅓⁄₁₆"	145⅓⁄₁₆"
82¾"				90⅓⁄₁₆"	117⅓⁄₁₆"	144⅓⁄₁₆"
76"(N) / 68⅝"(W)				21⅝"	30⅝"	39⅝"
						
				7668	9068	12068
						
				7668	90FS68	12068
						
				7680	9080	12080
						
				7680	90FS80	12080

Unit Dimension given for primed units only

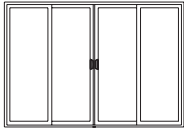
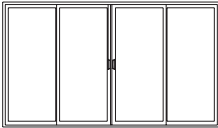
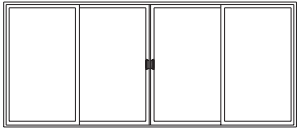
Clad Unit Dimension is identical to Frame Size

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus ¼"

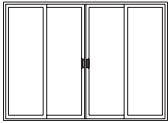
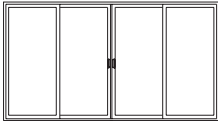
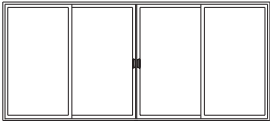
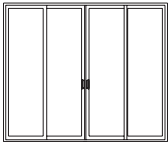
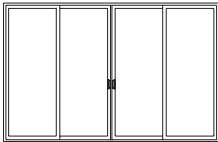
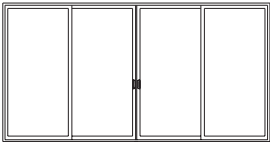
Standard lite division depicted on single panel side lites

4-Wide Primed and Clad Slide Patio Doors

6/6 Replacement Height

Narrow Stile			
	Primed Unit Dimension	Rough Opening	Frame
80 $\frac{3}{4}$ "	116 $\frac{5}{16}$ "	140 $\frac{5}{16}$ "	188 $\frac{5}{16}$ "
80 $\frac{1}{4}$ "	114 $\frac{13}{16}$ "	138 $\frac{13}{16}$ "	186 $\frac{13}{16}$ "
79 $\frac{3}{4}$ "	114 $\frac{5}{16}$ "	138 $\frac{5}{16}$ "	186 $\frac{5}{16}$ "
73"	25"	31"	43"
	Glass		
	  		
	10066	12066	16066

6/8 and 8/0 Heights

Narrow Stile			
	Primed Unit Dimension	Rough Opening	Frame
83 $\frac{3}{4}$ "	116 $\frac{5}{16}$ "	152 $\frac{5}{16}$ "	188 $\frac{5}{16}$ "
83 $\frac{1}{4}$ "	114 $\frac{13}{16}$ "	150 $\frac{13}{16}$ "	186 $\frac{13}{16}$ "
82 $\frac{1}{4}$ "	114 $\frac{5}{16}$ "	150 $\frac{5}{16}$ "	186 $\frac{5}{16}$ "
76"	25"	34"	43"
	Glass		
	  		
	10068	12068	16068
	  		
	10080	12080	16080

Unit Dimension given for primed units only

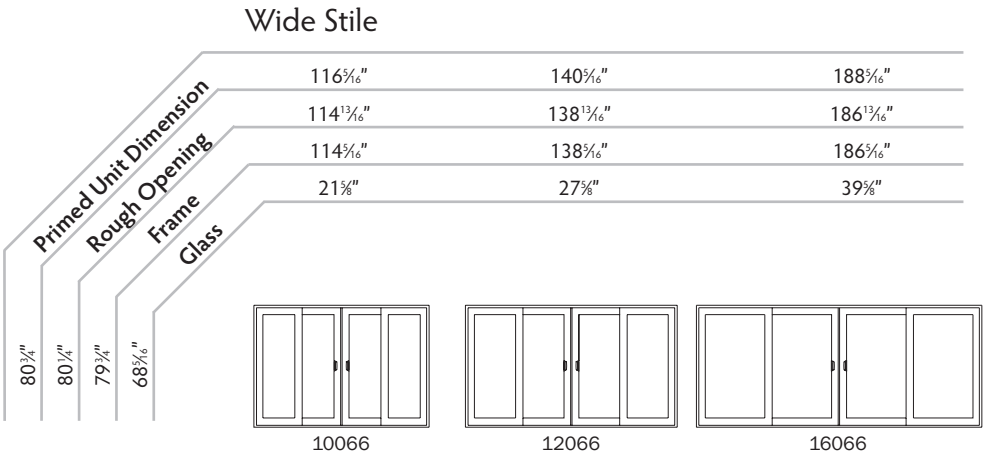
Clad Unit Dimension is identical to Frame Size

Masonry Opening: Recommended minimum of Unit or Frame Dimension plus $\frac{1}{4}$ "

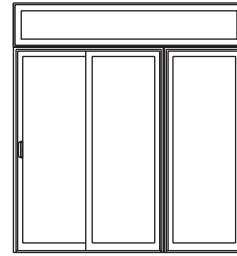
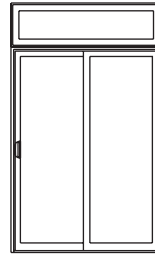
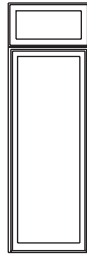
Standard lite division depicted on single panel side lites

4-Wide Primed and Clad Slide Patio Doors

6/6 Replacement Height



Slide Patio Door Transom Unit Charts



Frame Height	Width		31 $\frac{5}{16}$ "	58 $\frac{3}{16}$ "	89 $\frac{1}{2}$ "
	Glass		1 - 26	2 - 50	3 - 76
13"	8"		SLT1-26/08-1	SLT2-50/08-1	SLT3-76/08-1
17"	12"		SLT1-26/12-1	SLT2-50/12-1	SLT3-76/12-1
21"	16"		SLT1-26/16-1	SLT2-50/16-1	SLT3-76/16-1
25"	20"		SLT1-26/20-1	SLT1-50/20-1	SLT3-76/20-1

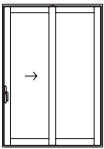
Frame Height	Width		37 $\frac{5}{16}$ "	70 $\frac{3}{16}$ "	106 $\frac{1}{2}$ "
	Glass		1 - 30	2 - 60	3 - 90
13"	8"		SLT1-30/08-1R	SLT2-60/08-1R	SLT3-90/08-1R
17"	12"		SLT1-30/12-1R	SLT2-60/12-1R	SLT3-90/12-1R
21"	16"		SLT1-30/16-1R	SLT2-60/16-1R	SLT3-90/16-1R
25"	20"		SLT1-30/20-1R	SLT1-60/20-1R	SLT3-90/20-1R

Frame Height	Width		40 $\frac{5}{16}$ "	76 $\frac{3}{16}$ "	116 $\frac{1}{2}$ "
	Glass		1 - 30	2 - 60	3 - 90
13"	8"		SLT1-30/08-1F	SLT2-60/08-1F	SLT3-90/08-1F
17"	12"		SLT1-30/12-1F	SLT2-60/12-1F	SLT3-90/12-1F
21"	16"		SLT1-30/16-1F	SLT2-60/16-1F	SLT3-90/16-1F
25"	20"		SLT1-30/20-1F	SLT1-60/20-1F	SLT3-90/20-1F

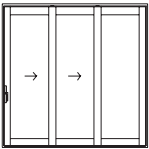
Frame Height	Width		49 $\frac{5}{16}$ "	94 $\frac{3}{16}$ "	1439* $\frac{1}{2}$ "
	Glass		1 - 40	2 - 80	3 - 120
13"	8"		SLT1-40/08-1	SLT2-80/08-1	SLT3-120/08-1
17"	12"		SLT1-40/12-1	SLT2-80/12-1	SLT3-120/12-1
21"	16"		SLT1-40/16-1	SLT2-80/16-1	SLT3-120/16-1
25"	20"		SLT1-40/20-1	SLT1-80/20-1	SLT3-120/20-1

Multi-Slide Patio Doors

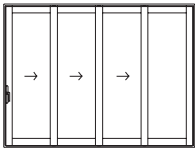
Typical Configurations



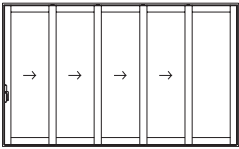
XO



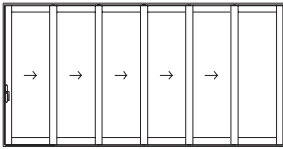
XXO



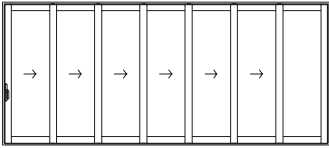
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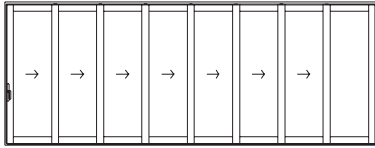
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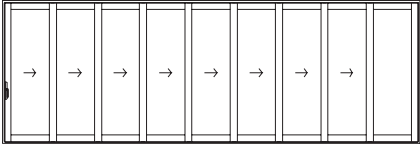
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XXXXXXO



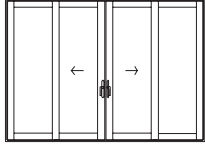
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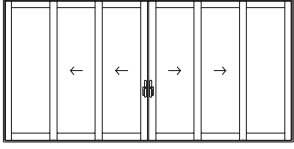
XXXXXXXXO



XXXXXXXXXO



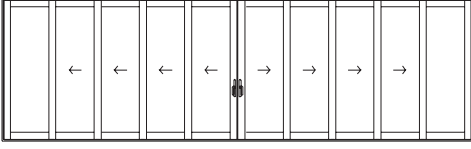
OXXO



OXXXXO



OXXXXXO



OXXXXXXO

1-3/4" Panel Thickness

Maximum Panel Width: 4' 0-1/2"

Maximum Panel Height: 9' 0"

Maximum Number of Panels: 10

Approximate Maximum Width: 38'

Maximum Height: 9' 0-3/16"

Minimum Roof Overhang: 8' 0"

2-1/4" Panel Thickness

Maximum Panel Width: 6' 0"

Maximum Panel Height: 10' 0"

Maximum Number of Panels: 10

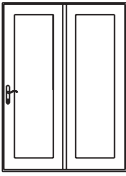
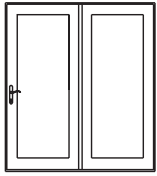
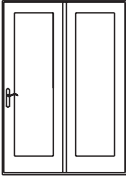
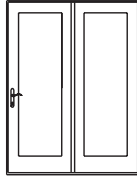
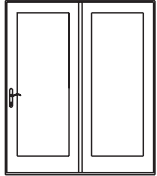
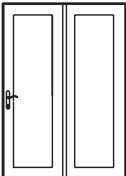
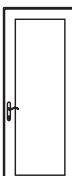
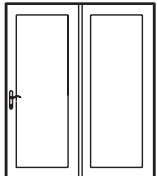
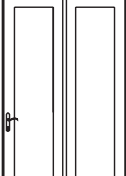
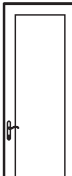
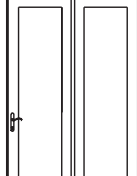
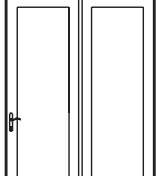
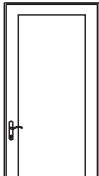
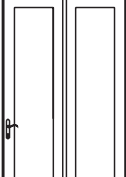
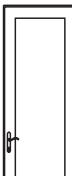
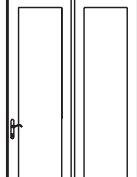
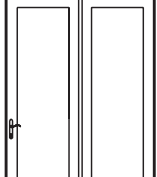
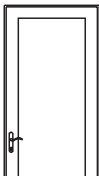
Approximate Maximum Width: 38' 0"

Maximum Height: 10' 3-1/8"

Minimum Roof Overhang: 8' 0"

Single Swing Patio Doors

2-Wide Swing Patio Doors

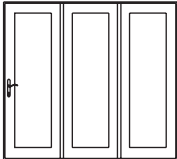
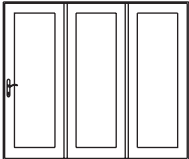
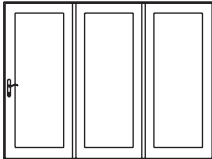
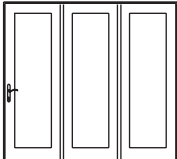
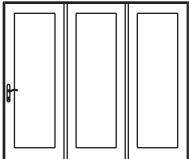
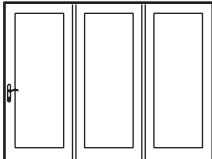
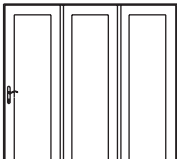
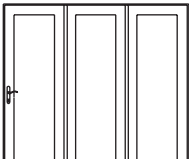
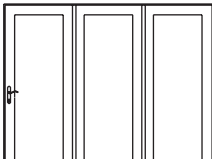
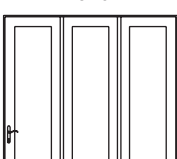
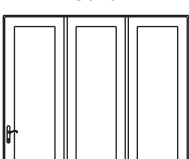
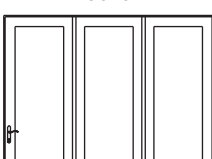
Single Swing Patio Doors					2-Wide Swing Patio Doors				
Primed Unit Dimension	Rough Opening	Box Size	Glass		Primed Unit Dimension	Rough Opening	Box Size	Glass	
				34"					64 ⁷ / ₁₆ "
				36"					68 ⁷ / ₁₆ "
				40"					76 ⁷ / ₁₆ "
Primed Unit Dimension	Rough Opening	Box Size	Glass	46"	Primed Unit Dimension	Rough Opening	Box Size	Glass	74 ⁷ / ₁₆ "
				31 ⁷ / ₈ "					61 ¹⁵ / ₁₆ "
				33 ³ / ₈ "					65 ¹⁵ / ₁₆ "
				37 ³ / ₈ "					73 ¹⁵ / ₁₆ "
Primed Unit Dimension	Rough Opening	Box Size	Glass	43 ³ / ₈ "	Primed Unit Dimension	Rough Opening	Box Size	Glass	20 ¹⁵ / ₁₆ "
				20 ¹⁵ / ₁₆ "					22 ¹⁵ / ₁₆ "
				22 ¹⁵ / ₁₆ "					26 ¹⁵ / ₁₆ "
				26 ¹⁵ / ₁₆ "					26 ¹⁵ / ₁₆ "
80 ¹ / ₈ "					80 ¹ / ₈ "				
79 ³ / ₈ "					79 ³ / ₈ "				
79 ³ / ₈ "					79 ³ / ₈ "				
68"					68"				
				2666					5066
				2866					5466
				3066					6066
				3666					
83 ¹ / ₈ "					83 ¹ / ₈ "				
82 ³ / ₄ "					82 ³ / ₄ "				
82 ³ / ₄ "					82 ³ / ₄ "				
68 ³ / ₄ "					68 ³ / ₄ "				
				2668					5068
				2868					5468
				3068					6068
				3668					
87 ¹ / ₈ "					87 ¹ / ₈ "				
86 ³ / ₄ "					86 ³ / ₄ "				
86 ³ / ₄ "					86 ³ / ₄ "				
72 ³ / ₄ "					72 ³ / ₄ "				
				2670					5070
				2870					5470
				3070					6070
				3670					
99 ¹ / ₈ "					99 ¹ / ₈ "				
98 ³ / ₄ "					98 ³ / ₄ "				
98 ³ / ₄ "					98 ³ / ₄ "				
84 ³ / ₄ "					84 ³ / ₄ "				
				2680					5080
				2880					5480
				3080					6080
				3680					
111 ¹ / ₈ "					111 ¹ / ₈ "				
1110 ³ / ₄ "					1110 ³ / ₄ "				
110 ³ / ₄ "					110 ³ / ₄ "				
96 ³ / ₄ "					96 ³ / ₄ "				
				2690					5090
				2890					5490
				3090					6090
				3690					

Unit Dimension given for wood In-Swing units only. Wood Out-Swing unit dimensions 3/8" larger in width and 3/16" larger in height.

Clad Unit Dimension is identical to Box Size

Masonry Opening: Recommended minimum of Unit or Box Dimension plus 1/4"

3-Wide Swing Patio Doors

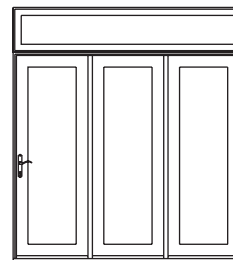
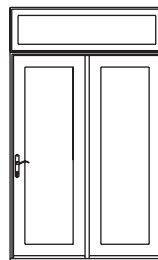
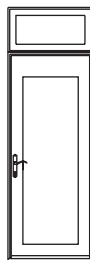
Primed Unit Dimension				95 1/8"	101 1/8"	113 1/8"
Rough Opening				93"	99"	111"
Box Size				92 1/2"	98 1/2"	110 1/2"
Glass				20 15/16"	22 15/16"	26 15/16"
80 1/16"	83 3/16"	87 9/16"	99 1/16"			
79 9/8"	82 1/4"	86 3/4"	98 3/4"	7666	8066	9066
79 9/8"	82 1/4"	86 3/4"	98 3/4"			
68"	68 3/4"	72 3/4"	84 3/4"	7668	8068	9068
						
				7670	8070	9070
						
				7680	8080	9080

Unit Dimension given for primed In-Swing units only. Out-Swing 3/8" larger in width and 3/16" larger in height.

Clad Unit Dimension is identical to Box Size

Masonry Opening: Recommended minimum of Unit or Box Dimension plus 1/4"

Swing Patio Door Transom Unit Charts



Box Height	Width	31 $\frac{3}{8}$ "	61 $\frac{15}{16}$ "	92 $\frac{1}{2}$ "
	Glass	1 - 26	2 - 50	3 - 76
12"	7"	SWT1-26/07-1	SWT2-50/07-1	SWT3-76/07-1
18"	13"	SWT1-26/13-1	SWT2-50/13-1	SWT3-76/13-1
20"	15"	SWT1-26/15-1	SWT2-50/15-1	SWT3-76/15-1
24"	19"	SWT1-26/19-1	SWT1-50/19-1	SWT3-76/19-1
28"	23"	SWT1-26/23-1	SWT1-50/23-1	SWT3-76/23-1

Box Height	Width	33 $\frac{3}{8}$ "	65 $\frac{15}{16}$ "	98 $\frac{1}{2}$ "
	Glass	1 - 28	2 - 54	3 - 80
12"	7"	SWT1-28/07-1	SWT2-54/07-1	SWT3-80/07-1
18"	13"	SWT1-28/13-1	SWT2-54/13-1	SWT3-80/13-1
20"	15"	SWT1-28/15-1	SWT2-54/15-1	SWT3-80/15-1
24"	19"	SWT1-28/19-1	SWT1-54/19-1	SWT3-80/19-1
28"	23"	SWT1-28/23-1	SWT1-54/23-1	SWT3-80/23-1

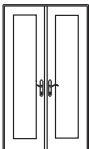
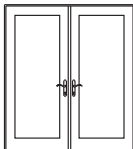
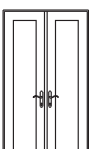
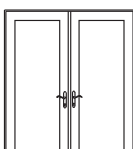
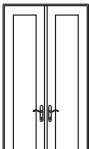
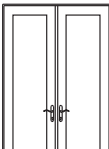
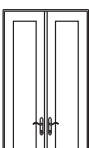
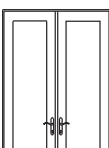
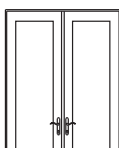
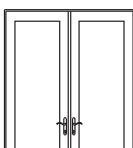
Box Height	Width	37 $\frac{3}{8}$ "	73 $\frac{15}{16}$ "	106 $\frac{1}{2}$ "
	Glass	1 - 30	2 - 60	3 - 90
12"	7"	SWT1-30/07-1	SWT2-60/07-1	SWT3-90/07-1
18"	13"	SWT1-30/13-1	SWT2-60/13-1	SWT3-90/13-1
20"	15"	SWT1-30/15-1	SWT2-60/15-1	SWT3-90/15-1
24"	19"	SWT1-30/19-1	SWT1-60/19-1	SWT3-90/19-1
28"	23"	SWT1-30/23-1	SWT1-60/23-1	SWT3-90/23-1

French Swing Patio Doors

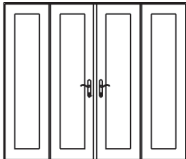
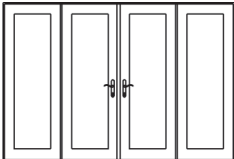
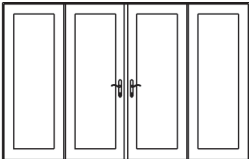
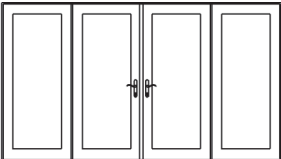
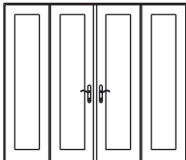
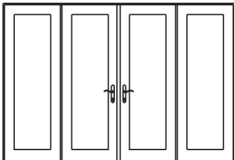
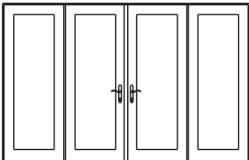
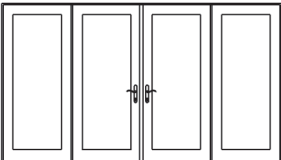
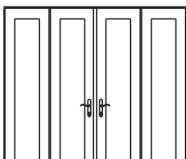
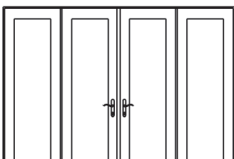
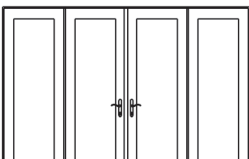
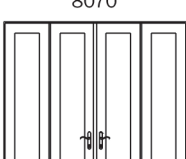
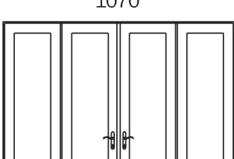
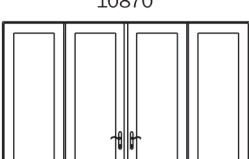
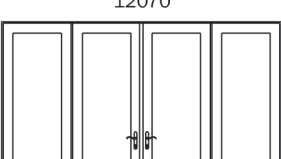
Unit Dimension given for primed In-Swing units only. Out-Swing 3/8" larger in width and 3/16" larger in height. Clad Unit Dimension is identical to Box Size.

Masonry Opening: Recommended minimum of Unit or Box Dimension plus 1/4"

Swing doors are available as in-swing or out-swing.

Primed Unit Dimension				52 1/16"	64 1/16"	68 1/16"	76 1/16"
Rough Opening				50 7/16"	62 7/16"	66 7/16"	74 7/16"
Box Size				49 15/16"	61 1 1/16"	65 15/16"	73 15/16"
Glass				14 15/16"	20 15/16"	22 15/16"	26 15/16"
80 7/16"	80 7/16"	80 7/16"	80 7/16"				
79 9/16"	79 9/16"	79 9/16"	79 9/16"	4066	5066	5466	6066
79 9/16"	79 9/16"	79 9/16"	79 9/16"				
68"	68"	68"	68"	4068	5068	5468	6068
83 7/16"	83 7/16"	83 7/16"	83 7/16"				
82 3/4"	82 3/4"	82 3/4"	82 3/4"	4070	5070	5470	6070
82 3/4"	82 3/4"	82 3/4"	82 3/4"				
82 3/4"	82 3/4"	82 3/4"	82 3/4"	4080	5080	5480	6080
68 1/4"	68 1/4"	68 1/4"	68 1/4"				
87 7/16"	87 7/16"	87 7/16"	87 7/16"	4090	5090	5490	6090
86 3/4"	86 3/4"	86 3/4"	86 3/4"				
86 3/4"	86 3/4"	86 3/4"	86 3/4"				
86 3/4"	86 3/4"	86 3/4"	86 3/4"				
72 1/4"	72 1/4"	72 1/4"	72 1/4"				
99 7/16"	99 7/16"	99 7/16"	99 7/16"				
98 3/4"	98 3/4"	98 3/4"	98 3/4"				
98 3/4"	98 3/4"	98 3/4"	98 3/4"				
84 3/4"	84 3/4"	84 3/4"	84 3/4"				
111 7/16"	111 7/16"	111 7/16"	111 7/16"				
110 3/4"	110 3/4"	110 3/4"	110 3/4"				
110 3/4"	110 3/4"	110 3/4"	110 3/4"				
96 3/4"	96 3/4"	96 3/4"	96 3/4"				

4-Wide French Swing Patio Doors with Sidelites

	Primed Unit Dimension			
	Rough Opening			
	Box Size			
	Glass			
	101 $\frac{5}{8}$ "	125 $\frac{5}{8}$ "	133 $\frac{5}{8}$ "	149 $\frac{5}{8}$ "
	99 $\frac{1}{2}$ "	123 $\frac{1}{2}$ "	131 $\frac{1}{2}$ "	147 $\frac{1}{2}$ "
	99"	123"	131"	147"
	14 $\frac{15}{16}$ "	20 $\frac{15}{16}$ "	22 $\frac{15}{16}$ "	26 $\frac{15}{16}$ "
80 $\frac{7}{16}$ "				
	8066	1066	10866	12066
83 $\frac{7}{16}$ "				
	8068	1068	10868	12068
86 $\frac{7}{16}$ "				
	8070	1070	10870	12070
88 $\frac{7}{16}$ "				
	8080	1080	10880	12080

Unit Dimension given for primed In-Swing units only. Out-Swing 3/8" larger in width and 3/16" larger in height.

Clad Unit Dimension is identical to Box Size

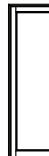
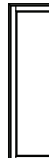
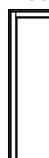
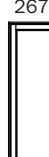
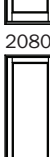
Masonry Opening: Recommended minimum of Unit or Box Dimension plus 1/4"

Swing Patio Door Sidelites

2-1/2" Stile Sidelites

	Box		
	Panel		
	Glass		
	13 3/8"	19 3/8"	25 3/8"
	11 3/4"	17 3/4"	23 3/4"
	7 1/6"	13 1/6"	19 1/6"
79 1/8"			
	1066	1666	2066
82 1/4"			
	1068	1668	2068
86 1/4"			
	1070	1670	2070
98 1/4"			
	1080	1680	2080
110 1/4"			
	1090	1690	2090

3-3/8" Stile Sidelites

	Box			
	Panel			
	Glass			
	25 3/8"	31 3/8"	33 3/8"	37 3/8"
	23 13/16"	29 13/16"	31 13/16"	35 13/16"
	17 13/16"	23 13/16"	25 13/16"	29 13/16"
79 1/8"				
	2066	2666	2866	3066
82 1/4"				
	2068	2668	2868	3068
86 1/4"				
	2070	2670	2870	3070
98 1/4"				
	2080	2680	2880	3080
110 1/4"				
	2090	2690	2890	3090

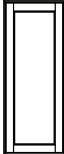
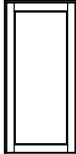
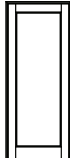
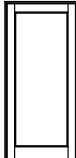
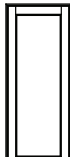
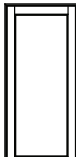
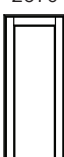
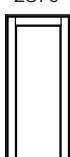
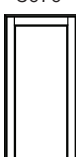
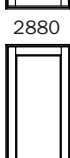
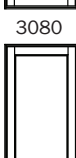
Rough Opening Widths: Individual Units Muller. For rough opening width add R.O. of Swing door of your choice plus box(es) of sidelite.

Panels with Continuous Head and Sill: For rough opening width add R.O. of Swing door of your choice plus glass width of Sidelite panel(s) plus 4 15/16" (for each panel) – 2-1/2" stile only

Swing Patio Door Sidelites

4-13/16" Stile Sidelites

Rough Opening Widths: Individual Units Mullled. For rough opening width add R.O. of Swing door of your choice plus box(es) of sidelite.

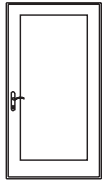
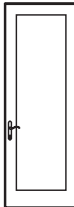
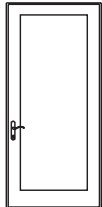
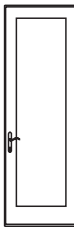
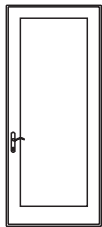
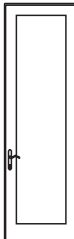
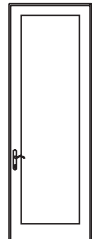
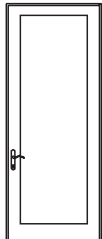
	Box	Panel	Glass	4-13/16" Stile Sidelites			
				25 3/8"	31 3/8"	33 3/8"	37 3/8"
				23 13/16"	29 13/16"	31 13/16"	35 13/16"
				14 15/16"	20 15/16"	22 15/16"	26 15/16"
79 1/8"							
				2066	2666	2866	3066
76 27/32"							
				2068	2668	2868	3068
82 1/4"							
				2070	2670	2870	3070
79 1/32"							
				2080	2680	2880	3080
86 1/4"							
				2090	2690	2890	3090
83 1/2"							
72 3/4"							
98 1/4"							
95 1/2"							
84 3/4"							
110 1/4"							
107 31/32"							
96 3/4"							

Single Swing Patio Doors - 2-1/4" Panels

Unit Dimension given for wood In-Swing units only. Wood Out-Swing unit dimensions 3/8" larger in width and 3/16" larger in height.

Clad Unit Dimension is identical to Box Size

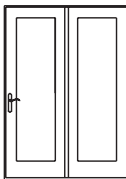
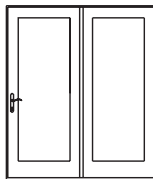
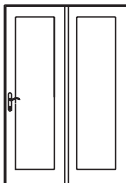
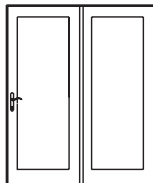
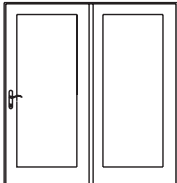
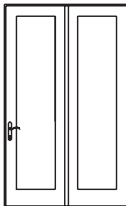
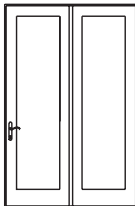
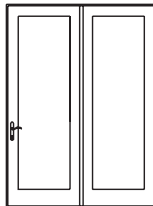
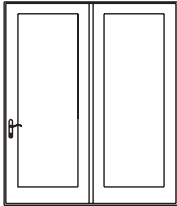
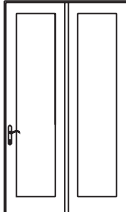
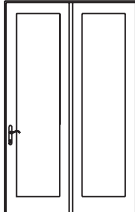
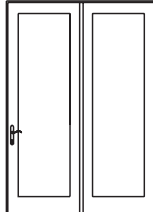
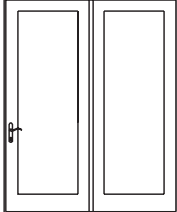
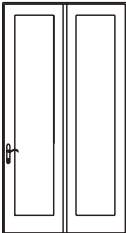
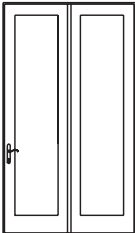
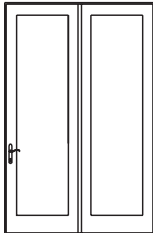
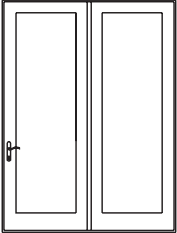
Masonry Opening: Recommended minimum of Unit or Box Dimension plus 1/4"

	Primed Unit Dimension				Rough Opening				Box Size				Glass			
	34"				36"				40"				46"			
	31 7/8"				33 7/8"				37 7/8"				43 7/8"			
	31 3/8"				33 3/8"				37 3/8"				42 3/8"			
	20 15/16"				22 15/16"				26 15/16"				32 15/16"			
																
	2668				2868				3068				3668			
																
	2670				2870				3070				3670			
83 3/16"																
	2680				2880				3080				3680			
87 3/16"																
	2690				2890				3090				3690			
99 3/16"																
	2690				2890				3090				3690			
111 3/16"																
	2690				2890				3090				3690			
123 3/16"																
	2690				2890				3090				3690			
122 1/4"																
	2690				2890				3090				3690			
98 3/4"																
	2690				2890				3090				3690			
	2690				2890				3090				3690			
	2690				2890				3090				3690			

Unit Dimension given for wood In-Swing units only. Wood Out-Swing unit dimensions 3/8" larger in width and 3/16" larger in height.

Clad Unit Dimension is identical to Box Size

Masonry Opening: Recommended minimum of Unit or Box Dimension plus $\frac{1}{4}"$

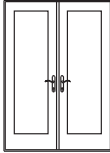
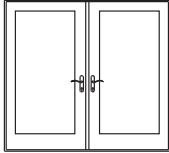
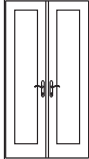
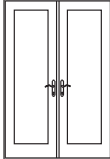
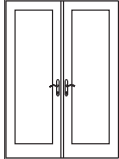
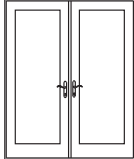
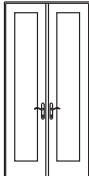
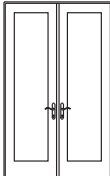
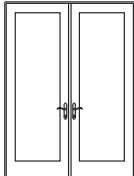
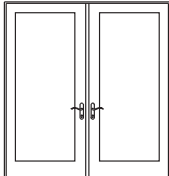
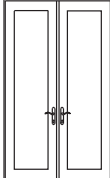
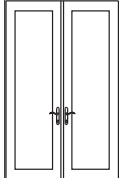
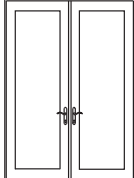
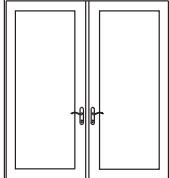
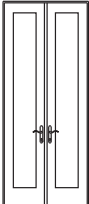
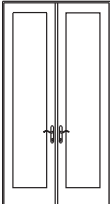
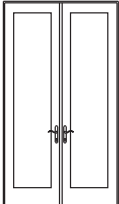
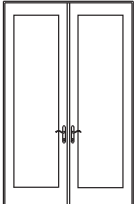
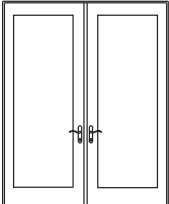
Primed Unit Dimension	Rough Opening	Box Size	Glass	64 ⁵ / ₁₆ "	68 ⁵ / ₁₆ "	76 ⁵ / ₁₆ "	88 ⁵ / ₁₆ "
				62 ⁷ / ₁₆ "	66 ⁷ / ₁₆ "	74 ⁷ / ₁₆ "	86 ⁷ / ₁₆ "
				61 ¹⁵ / ₁₆ "	65 ¹⁵ / ₁₆ "	73 ¹⁵ / ₁₆ "	85 ¹⁵ / ₁₆ "
				20 ¹⁵ / ₁₆ "	22 ¹⁵ / ₁₆ "	26 ¹⁵ / ₁₆ "	32 ¹⁵ / ₁₆ "
83 ³ / ₁₆ "	82 ³ / ₄ "	82 ¹ / ₄ "	68 ³ / ₄ "				
				5068	5468	6068	7068
87 ⁹ / ₁₆ "	86 ³ / ₄ "	86 ¹ / ₄ "	72 ³ / ₄ "				
				5070	5470	6070	7070
99 ⁹ / ₁₆ "	98 ³ / ₄ "	98 ¹ / ₄ "	84 ³ / ₄ "				
				5080	5480	6080	7080
111 ¹ / ₁₆ "	110 ³ / ₄ "	110 ¹ / ₄ "	96 ³ / ₄ "				
				5090	5490	6090	7090
123 ³ / ₁₆ "	122 ³ / ₄ "	122 ¹ / ₄ "	98 ³ / ₄ "				
				50100	54100	60100	70100

French Swing Patio Doors - 2-1/4" Panels

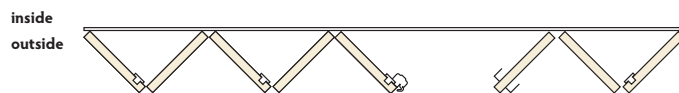
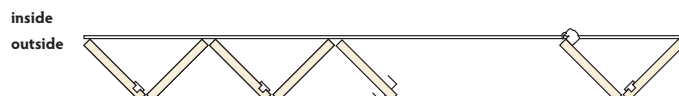
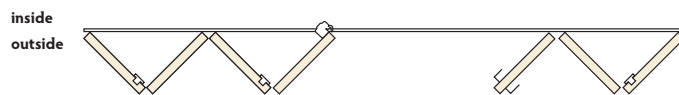
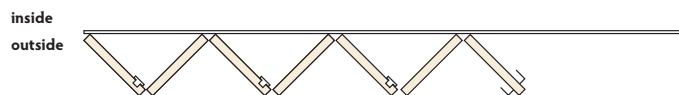
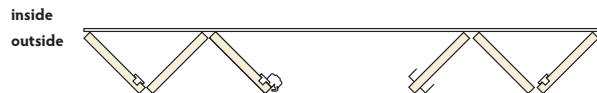
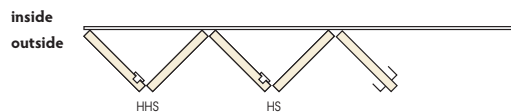
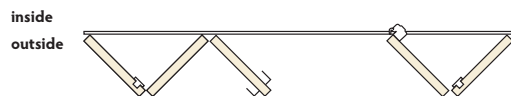
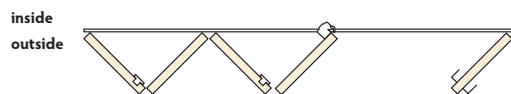
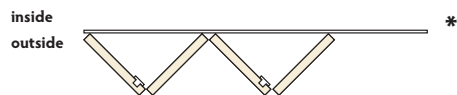
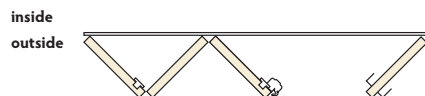
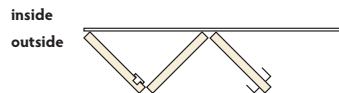
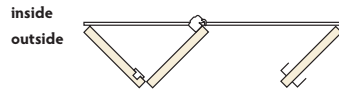
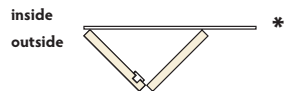
Unit Dimension given for primed In-Swing units only. Out-Swing 3/8" larger in width and 3/16" larger in height. Clad Unit Dimension is identical to Box Size

Masonry Opening: Recommended minimum of Unit or Box Dimension plus 1/4"

Swing doors are available as in-swing or out-swing.

	Primed Unit Dimension				
	Rough Opening				
	Box Size				
	Glass				
	52 1/16"	64 1/16"	68 1/16"	76 1/16"	88 1/16"
	50 7/16"	62 7/16"	66 7/16"	74 7/16"	86 7/16"
	49 15/16"	61 1 1/16"	65 15/16"	73 15/16"	85 15/16"
	14 15/16"	20 15/16"	22 15/16"	26 15/16"	32 15/16"
83 3/16"					
	4068	5068	5468	6068	7068
87 7/16"					
	4070	5070	5470	6070	7070
98 7/16"					
	4080	5080	5480	6080	7080
111 9/16"					
	4090	5090	5490	6090	7090
123 3/16"					
	40100	50100	54100	60100	70100

Fold-A-Way Patio Door Typical Configurations



1-3/4" Panel Thickness

Maximum Panel Width: 3' 6"

Maximum Panel Height: 9' 0"

Maximum Number of Panels: 16

Approximate Maximum Width: 56' 0"

Maximum Panel Weight: 250 lbs

2-1/4" Panel Thickness

Maximum Panel Width: 3' 6"

Maximum Panel Height: 10' 0"

Maximum Number of Panels: 16

Approximate Maximum Width: 56' 0"

Maximum Panel Weight: 250 lbs

*NOTE: Configurations without access panels are not accessible from the exterior.

Casement - Crank Operator & Standard Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
16	18	7-1/2	13-5/16	0.69	20	18	11-1/2	13-5/16	1.06
16	20	7-1/2	15-5/16	0.80	20	20	11-1/2	15-5/16	1.22
16	24	7-1/2	19-5/16	1.01	20	24	11-1/2	19-5/16	1.54
16	28	7-1/2	23-5/16	1.21	20	28	11-1/2	23-5/16	1.86
16	30	7-1/2	25-5/16	1.32	20	30	11-1/2	25-5/16	2.02
16	32	7-1/2	27-5/16	1.42	20	32	11-1/2	27-5/16	2.18
16	36	7-1/2	31-5/16	1.63	20	36	11-1/2	31-5/16	2.50
16	40	7-1/2	35-5/16	1.84	20	40	11-1/2	35-5/16	2.82
16	42	7-1/2	37-5/16	1.94	20	42	11-1/2	37-5/16	2.98
16	48	7-1/2	43-5/16	2.26	20	48	11-1/2	43-5/16	3.46
16	54	7-1/2	49-5/16	2.57	20	54	11-1/2	49-5/16	3.94
16	60	7-1/2	55-5/16	2.88	20	60	11-1/2	55-5/16	4.42
16	66	7-1/2	61-5/16	3.19	20	66	11-1/2	61-5/16	4.90
16	72	7-1/2	67-5/16	3.51	20	72	11-1/2	67-5/16	5.38
16	78	7-1/2	73-5/16	3.82	20	78	11-1/2	73-5/16	5.85
16	84	7-1/2	79-5/16	4.13	20	84	11-1/2	79-5/16	6.33
16	90	7-1/2	85-5/16	4.44	20	90	11-1/2	85-5/16	6.81
16	96	7-1/2	91-5/16	4.76	20	96	11-1/2	91-5/16	7.29
18	18	9-1/2	13-5/16	0.88	24	18	15-1/2	13-5/16	1.43
18	20	9-1/2	15-5/16	1.01	24	20	15-1/2	15-5/16	1.65
18	24	9-1/2	19-5/16	1.27	24	24	15-1/2	19-5/16	2.08
18	28	9-1/2	23-5/16	1.54	24	28	15-1/2	23-5/16	2.51
18	30	9-1/2	25-5/16	1.67	24	30	15-1/2	25-5/16	2.72
18	32	9-1/2	27-5/16	1.80	24	32	15-1/2	27-5/16	2.94
18	36	9-1/2	31-5/16	2.07	24	36	15-1/2	31-5/16	3.37
18	40	9-1/2	35-5/16	2.33	24	40	15-1/2	35-5/16	3.80
18	42	9-1/2	37-5/16	2.46	24	42	15-1/2	37-5/16	4.02
18	48	9-1/2	43-5/16	2.86	24	48	15-1/2	43-5/16	4.66
18	54	9-1/2	49-5/16	3.25	24	54	15-1/2	49-5/16	5.31
18	60	9-1/2	55-5/16	3.65	24	60	15-1/2	55-5/16	5.95
18	66	9-1/2	61-5/16	4.04	24	66	15-1/2	61-5/16	6.60
18	72	9-1/2	67-5/16	4.44	24	72	15-1/2	67-5/16	7.25
18	78	9-1/2	73-5/16	4.84	24	78	15-1/2	73-5/16	7.89
18	84	9-1/2	79-5/16	5.23	24	84	15-1/2	79-5/16	8.54
18	90	9-1/2	85-5/16	5.63	24	90	15-1/2	85-5/16	9.18
18	96	9-1/2	91-5/16	6.02	24	96	15-1/2	91-5/16	9.83

All dimensions $\pm 1/16"$

Clear opening Width = Box - $8\frac{1}{2}"$

Clear Opening Height = Box - $4\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator & Standard Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
28	18	19-1/2	13-5/16	1.80	32	18	23-1/2	13-5/16	2.17
28	20	19-1/2	15-5/16	2.07	32	20	23-1/2	15-5/16	2.50
28	24	19-1/2	19-5/16	2.62	32	24	23-1/2	19-5/16	3.15
28	28	19-1/2	23-5/16	3.16	32	28	23-1/2	23-5/16	3.80
28	30	19-1/2	25-5/16	3.43	32	30	23-1/2	25-5/16	4.13
28	32	19-1/2	27-5/16	3.70	32	32	23-1/2	27-5/16	4.46
28	36	19-1/2	31-5/16	4.24	32	36	23-1/2	31-5/16	5.11
28	40	19-1/2	35-5/16	4.78	32	40	23-1/2	35-5/16	5.76
28	42	19-1/2	37-5/16	5.05	32	42	23-1/2	37-5/16	6.09
28	48	19-1/2	43-5/16	5.87	32	48	23-1/2	43-5/16	7.07
28	54	19-1/2	49-5/16	6.68	32	54	23-1/2	49-5/16	8.05
28	60	19-1/2	55-5/16	7.49	32	60	23-1/2	55-5/16	9.03
28	66	19-1/2	61-5/16	8.30	32	66	23-1/2	61-5/16	10.01
28	72	19-1/2	67-5/16	9.12	32	72	23-1/2	67-5/16	10.99
28	78	19-1/2	73-5/16	9.93	32	78	23-1/2	73-5/16	11.96
28	84	19-1/2	79-5/16	10.74	32	84	23-1/2	79-5/16	12.94
28	90	19-1/2	85-5/16	11.55	32	90	23-1/2	85-5/16	13.92
28	96	19-1/2	91-5/16	12.37	32	96	23-1/2	91-5/16	14.90
30	18	21-1/2	13-5/16	1.99	36	18	27-1/2	13-5/16	2.54
30	20	21-1/2	15-5/16	2.29	36	20	27-1/2	15-5/16	2.92
30	24	21-1/2	19-5/16	2.88	36	24	27-1/2	19-5/16	3.69
30	28	21-1/2	23-5/16	3.48	36	28	27-1/2	23-5/16	4.45
30	30	21-1/2	25-5/16	3.78	36	30	27-1/2	25-5/16	4.83
30	32	21-1/2	27-5/16	4.08	36	32	27-1/2	27-5/16	5.22
30	36	21-1/2	31-5/16	4.68	36	36	27-1/2	31-5/16	5.98
30	40	21-1/2	35-5/16	5.27	36	40	27-1/2	35-5/16	6.74
30	42	21-1/2	37-5/16	5.57	36	42	27-1/2	37-5/16	7.13
30	48	21-1/2	43-5/16	6.47	36	48	27-1/2	43-5/16	8.27
30	54	21-1/2	49-5/16	7.36	36	54	27-1/2	49-5/16	9.42
30	60	21-1/2	55-5/16	8.26	36	60	27-1/2	55-5/16	10.56
30	66	21-1/2	61-5/16	9.15	36	66	27-1/2	61-5/16	11.71
30	72	21-1/2	67-5/16	10.05	36	72	27-1/2	67-5/16	12.85
30	78	21-1/2	73-5/16	10.95	36	78	27-1/2	73-5/16	14.00
30	84	21-1/2	79-5/16	11.84	36	84	27-1/2	79-5/16	15.15
30	90	21-1/2	85-5/16	12.74	36	90	27-1/2	85-5/16	16.29
30	96	21-1/2	91-5/16	13.63	36	96	27-1/2	91-5/16	17.44

All dimensions $\pm 1/16"$

Clear opening Width = Box - $8\frac{1}{2}"$

Clear Opening Height = Box - $4\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator & Standard Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	18	33-1/2	13-5/16	3.10
42	20	33-1/2	15-5/16	3.56
42	24	33-1/2	19-5/16	4.49
42	28	33-1/2	23-5/16	5.42
42	30	33-1/2	25-5/16	5.89
42	32	33-1/2	27-5/16	6.35
42	36	33-1/2	31-5/16	7.28
42	40	33-1/2	35-5/16	8.22
42	42	33-1/2	37-5/16	8.68
42	48	33-1/2	43-5/16	10.08
42	54	33-1/2	49-5/16	11.47
42	60	33-1/2	55-5/16	12.87
42	66	33-1/2	61-5/16	14.26
42	72	33-1/2	67-5/16	15.66
42	78	33-1/2	73-5/16	17.06
42	84	33-1/2	79-5/16	18.45
42	90	33-1/2	85-5/16	19.85
42	96	33-1/2	91-5/16	21.24

All dimensions $\pm 1/16"$

Clear opening Width = Box - $8\frac{1}{2}"$

Clear Opening Height = Box - $4\frac{11}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator & Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
16	18	6-5/8	12-9/16	0.58	20	18	10-5/8	12-9/16	0.93
16	20	6-5/8	14-9/16	0.67	20	20	10-5/8	14-9/16	1.07
16	24	6-5/8	18-9/16	0.85	20	24	10-5/8	18-9/16	1.37
16	28	6-5/8	22-9/16	1.04	20	28	10-5/8	22-9/16	1.66
16	30	6-5/8	24-9/16	1.13	20	30	10-5/8	24-9/16	1.81
16	32	6-5/8	26-9/16	1.22	20	32	10-5/8	26-9/16	1.96
16	36	6-5/8	30-9/16	1.41	20	36	10-5/8	30-9/16	2.26
16	40	6-5/8	34-9/16	1.59	20	40	10-5/8	34-9/16	2.55
16	42	6-5/8	36-9/16	1.68	20	42	10-5/8	36-9/16	2.70
16	48	6-5/8	42-9/16	1.96	20	48	10-5/8	42-9/16	3.14
16	54	6-5/8	48-9/16	2.23	20	54	10-5/8	48-9/16	3.58
16	60	6-5/8	54-9/16	2.51	20	60	10-5/8	54-9/16	4.03
16	66	6-5/8	60-9/16	2.79	20	66	10-5/8	60-9/16	4.47
16	72	6-5/8	66-9/16	3.06	20	72	10-5/8	66-9/16	4.91
16	78	6-5/8	72-9/16	3.34	20	78	10-5/8	72-9/16	5.35
16	84	6-5/8	78-9/16	3.61	20	84	10-5/8	78-9/16	5.80
16	90	6-5/8	84-9/16	3.89	20	90	10-5/8	84-9/16	6.24
16	96	6-5/8	90-9/16	4.17	20	96	10-5/8	90-9/16	6.68
18	18	8-5/8	12-9/16	0.75	24	18	14-5/8	12-9/16	1.28
18	20	8-5/8	14-9/16	0.87	24	20	14-5/8	14-9/16	1.48
18	24	8-5/8	18-9/16	1.11	24	24	14-5/8	18-9/16	1.89
18	28	8-5/8	22-9/16	1.35	24	28	14-5/8	22-9/16	2.29
18	30	8-5/8	24-9/16	1.47	24	30	14-5/8	24-9/16	2.49
18	32	8-5/8	26-9/16	1.59	24	32	14-5/8	26-9/16	2.70
18	36	8-5/8	30-9/16	1.83	24	36	14-5/8	30-9/16	3.10
18	40	8-5/8	34-9/16	2.07	24	40	14-5/8	34-9/16	3.51
18	42	8-5/8	36-9/16	2.19	24	42	14-5/8	36-9/16	3.71
18	48	8-5/8	42-9/16	2.55	24	48	14-5/8	42-9/16	4.32
18	54	8-5/8	48-9/16	2.91	24	54	14-5/8	48-9/16	4.93
18	60	8-5/8	54-9/16	3.27	24	60	14-5/8	54-9/16	5.54
18	66	8-5/8	60-9/16	3.63	24	66	14-5/8	60-9/16	6.15
18	72	8-5/8	66-9/16	3.99	24	72	14-5/8	66-9/16	6.76
18	78	8-5/8	72-9/16	4.35	24	78	14-5/8	72-9/16	7.37
18	84	8-5/8	78-9/16	4.71	24	84	14-5/8	78-9/16	7.98
18	90	8-5/8	84-9/16	5.06	24	90	14-5/8	84-9/16	8.59
18	96	8-5/8	90-9/16	5.42	24	96	14-5/8	90-9/16	9.20

All dimensions $\pm 1/16"$

Clear opening Width = Box - $9\frac{3}{8}"$

Clear Opening Height = Box - $5\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator & Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
28	18	18-5/8	12-9/16	1.62	32	18	22-5/8	12-9/16	1.97
28	20	18-5/8	14-9/16	1.88	32	20	22-5/8	14-9/16	2.29
28	24	18-5/8	18-9/16	2.40	32	24	22-5/8	18-9/16	2.92
28	28	18-5/8	22-9/16	2.92	32	28	22-5/8	22-9/16	3.54
28	30	18-5/8	24-9/16	3.18	32	30	22-5/8	24-9/16	3.86
28	32	18-5/8	26-9/16	3.44	32	32	22-5/8	26-9/16	4.17
28	36	18-5/8	30-9/16	3.95	32	36	22-5/8	30-9/16	4.80
28	40	18-5/8	34-9/16	4.47	32	40	22-5/8	34-9/16	5.43
28	42	18-5/8	36-9/16	4.73	32	42	22-5/8	36-9/16	5.74
28	48	18-5/8	42-9/16	5.51	32	48	22-5/8	42-9/16	6.69
28	54	18-5/8	48-9/16	6.28	32	54	22-5/8	48-9/16	7.63
28	60	18-5/8	54-9/16	7.06	32	60	22-5/8	54-9/16	8.57
28	66	18-5/8	60-9/16	7.83	32	66	22-5/8	60-9/16	9.52
28	72	18-5/8	66-9/16	8.61	32	72	22-5/8	66-9/16	10.46
28	78	18-5/8	72-9/16	9.39	32	78	22-5/8	72-9/16	11.40
28	84	18-5/8	78-9/16	10.16	32	84	22-5/8	78-9/16	12.34
28	90	18-5/8	84-9/16	10.94	32	90	22-5/8	84-9/16	13.29
28	96	18-5/8	90-9/16	11.71	32	96	22-5/8	90-9/16	14.23
30	18	20-5/8	12-9/16	1.80	36	18	26-5/8	12-9/16	2.32
30	20	20-5/8	14-9/16	2.09	36	20	26-5/8	14-9/16	2.69
30	24	20-5/8	18-9/16	2.66	36	24	26-5/8	18-9/16	3.43
30	28	20-5/8	22-9/16	3.23	36	28	26-5/8	22-9/16	4.17
30	30	20-5/8	24-9/16	3.52	36	30	26-5/8	24-9/16	4.54
30	32	20-5/8	26-9/16	3.80	36	32	26-5/8	26-9/16	4.91
30	36	20-5/8	30-9/16	4.38	36	36	26-5/8	30-9/16	5.65
30	40	20-5/8	34-9/16	4.95	36	40	26-5/8	34-9/16	6.39
30	42	20-5/8	36-9/16	5.24	36	42	26-5/8	36-9/16	6.76
30	48	20-5/8	42-9/16	6.10	36	48	26-5/8	42-9/16	7.87
30	54	20-5/8	48-9/16	6.96	36	54	26-5/8	48-9/16	8.98
30	60	20-5/8	54-9/16	7.81	36	60	26-5/8	54-9/16	10.09
30	66	20-5/8	60-9/16	8.67	36	66	26-5/8	60-9/16	11.20
30	72	20-5/8	66-9/16	9.53	36	72	26-5/8	66-9/16	12.31
30	78	20-5/8	72-9/16	10.39	36	78	26-5/8	72-9/16	13.42
30	84	20-5/8	78-9/16	11.25	36	84	26-5/8	78-9/16	14.53
30	90	20-5/8	84-9/16	12.11	36	90	26-5/8	84-9/16	15.64
30	96	20-5/8	90-9/16	12.97	36	96	26-5/8	90-9/16	16.74

All dimensions $\pm 1/16"$

Clear opening Width = Box - $9\frac{3}{8}"$

Clear Opening Height = Box - $5\frac{1}{8}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator & Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	18	32-5/8	12-9/16	2.85
42	20	32-5/8	14-9/16	3.30
42	24	32-5/8	18-9/16	4.21
42	28	32-5/8	22-9/16	5.11
42	30	32-5/8	24-9/16	5.56
42	32	32-5/8	26-9/16	6.02
42	36	32-5/8	30-9/16	6.92
42	40	32-5/8	34-9/16	7.83
42	42	32-5/8	36-9/16	8.28
42	48	32-5/8	42-9/16	9.64
42	54	32-5/8	48-9/16	11.00
42	60	32-5/8	54-9/16	12.36
42	66	32-5/8	60-9/16	13.72
42	72	32-5/8	66-9/16	15.08
42	78	32-5/8	72-9/16	16.44
42	84	32-5/8	78-9/16	17.80
42	90	32-5/8	84-9/16	19.16
42	96	32-5/8	90-9/16	20.52

All dimensions $\pm 1/16"$

Clear opening Width = Box - $9\frac{3}{8}"$

Clear Opening Height = Box - $5\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator, Standard Screen & Butt Hinges

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
16	18	10-11/16	13-5/16	0.99	20	18	14-11/16	13-5/16	1.36
16	20	10-11/16	15-5/16	1.14	20	20	14-11/16	15-5/16	1.56
16	24	10-11/16	19-5/16	1.43	20	24	14-11/16	19-5/16	1.97
16	28	10-11/16	23-5/16	1.73	20	28	14-11/16	23-5/16	2.38
16	30	10-11/16	25-5/16	1.88	20	30	14-11/16	25-5/16	2.58
16	32	10-11/16	27-5/16	2.03	20	32	14-11/16	27-5/16	2.79
16	36	10-11/16	31-5/16	2.32	20	36	14-11/16	31-5/16	3.19
16	40	10-11/16	35-5/16	2.62	20	40	14-11/16	35-5/16	3.60
16	42	10-11/16	37-5/16	2.77	20	42	14-11/16	37-5/16	3.81
16	48	10-11/16	43-5/16	3.21	20	48	14-11/16	43-5/16	4.42
16	54	10-11/16	49-5/16	3.66	20	54	14-11/16	49-5/16	5.03
16	60	10-11/16	55-5/16	4.11	20	60	14-11/16	55-5/16	5.64
16	66	10-11/16	61-5/16	4.55	20	66	14-11/16	61-5/16	6.25
16	72	10-11/16	67-5/16	5.00	20	72	14-11/16	67-5/16	6.87
16	78	10-11/16	73-5/16	5.44	20	78	14-11/16	73-5/16	7.48
16	84	10-11/16	79-5/16	5.89	20	84	14-11/16	79-5/16	8.09
16	90	10-11/16	85-5/16	6.33	20	90	14-11/16	85-5/16	8.70
16	96	10-11/16	91-5/16	6.78	20	96	14-11/16	91-5/16	9.31
18	18	12-11/16	13-5/16	1.17	24	18	18-11/16	13-5/16	1.73
18	20	12-11/16	15-5/16	1.35	24	20	18-11/16	15-5/16	1.99
18	24	12-11/16	19-5/16	1.70	24	24	18-11/16	19-5/16	2.51
18	28	12-11/16	23-5/16	2.05	24	28	18-11/16	23-5/16	3.03
18	30	12-11/16	25-5/16	2.23	24	30	18-11/16	25-5/16	3.28
18	32	12-11/16	27-5/16	2.41	24	32	18-11/16	27-5/16	3.54
18	36	12-11/16	31-5/16	2.76	24	36	18-11/16	31-5/16	4.06
18	40	12-11/16	35-5/16	3.11	24	40	18-11/16	35-5/16	4.58
18	42	12-11/16	37-5/16	3.29	24	42	18-11/16	37-5/16	4.84
18	48	12-11/16	43-5/16	3.82	24	48	18-11/16	43-5/16	5.62
18	54	12-11/16	49-5/16	4.34	24	54	18-11/16	49-5/16	6.40
18	60	12-11/16	55-5/16	4.87	24	60	18-11/16	55-5/16	7.18
18	66	12-11/16	61-5/16	5.40	24	66	18-11/16	61-5/16	7.96
18	72	12-11/16	67-5/16	5.93	24	72	18-11/16	67-5/16	8.74
18	78	12-11/16	73-5/16	6.46	24	78	18-11/16	73-5/16	9.51
18	84	12-11/16	79-5/16	6.99	24	84	18-11/16	79-5/16	10.29
18	90	12-11/16	85-5/16	7.52	24	90	18-11/16	85-5/16	11.07
18	96	12-11/16	91-5/16	8.05	24	96	18-11/16	91-5/16	11.85

All dimensions $\pm 1/16"$

Clear opening Width = Box - $5\frac{5}{16}"$

Clear Opening Height = Box - $4\frac{11}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator, Standard Screen & Butt Hinges

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
28	18	22-11/16	13-5/16	2.10	32	18	26-11/16	13-5/16	2.47
28	20	22-11/16	15-5/16	2.41	32	20	26-11/16	15-5/16	2.84
28	24	22-11/16	19-5/16	3.04	32	24	26-11/16	19-5/16	3.58
28	28	22-11/16	23-5/16	3.67	32	28	26-11/16	23-5/16	4.32
28	30	22-11/16	25-5/16	3.99	32	30	26-11/16	25-5/16	4.69
28	32	22-11/16	27-5/16	4.30	32	32	26-11/16	27-5/16	5.06
28	36	22-11/16	31-5/16	4.93	32	36	26-11/16	31-5/16	5.80
28	40	22-11/16	35-5/16	5.56	32	40	26-11/16	35-5/16	6.54
28	42	22-11/16	37-5/16	5.88	32	42	26-11/16	37-5/16	6.92
28	48	22-11/16	43-5/16	6.82	32	48	26-11/16	43-5/16	8.03
28	54	22-11/16	49-5/16	7.77	32	54	26-11/16	49-5/16	9.14
28	60	22-11/16	55-5/16	8.71	32	60	26-11/16	55-5/16	10.25
28	66	22-11/16	61-5/16	9.66	32	66	26-11/16	61-5/16	11.36
28	72	22-11/16	67-5/16	10.61	32	72	26-11/16	67-5/16	12.48
28	78	22-11/16	73-5/16	11.55	32	78	26-11/16	73-5/16	13.59
28	84	22-11/16	79-5/16	12.50	32	84	26-11/16	79-5/16	14.70
28	90	22-11/16	85-5/16	13.44	32	90	26-11/16	85-5/16	15.81
28	96	22-11/16	91-5/16	14.39	32	96	26-11/16	91-5/16	16.92
30	18	24-11/16	13-5/16	2.28	36	18	30-11/16	13-5/16	2.84
30	20	24-11/16	15-5/16	2.63	36	20	30-11/16	15-5/16	3.26
30	24	24-11/16	19-5/16	3.31	36	24	30-11/16	19-5/16	4.12
30	28	24-11/16	23-5/16	4.00	36	28	30-11/16	23-5/16	4.97
30	30	24-11/16	25-5/16	4.34	36	30	30-11/16	25-5/16	5.39
30	32	24-11/16	27-5/16	4.68	36	32	30-11/16	27-5/16	5.82
30	36	24-11/16	31-5/16	5.37	36	36	30-11/16	31-5/16	6.67
30	40	24-11/16	35-5/16	6.05	36	40	30-11/16	35-5/16	7.53
30	42	24-11/16	37-5/16	6.40	36	42	30-11/16	37-5/16	7.95
30	48	24-11/16	43-5/16	7.43	36	48	30-11/16	43-5/16	9.23
30	54	24-11/16	49-5/16	8.45	36	54	30-11/16	49-5/16	10.51
30	60	24-11/16	55-5/16	9.48	36	60	30-11/16	55-5/16	11.79
30	66	24-11/16	61-5/16	10.51	36	66	30-11/16	61-5/16	13.07
30	72	24-11/16	67-5/16	11.54	36	72	30-11/16	67-5/16	14.34
30	78	24-11/16	73-5/16	12.57	36	78	30-11/16	73-5/16	15.62
30	84	24-11/16	79-5/16	13.60	36	84	30-11/16	79-5/16	16.90
30	90	24-11/16	85-5/16	14.63	36	90	30-11/16	85-5/16	18.18
30	96	24-11/16	91-5/16	15.65	36	96	30-11/16	91-5/16	19.46

All dimensions $\pm 1/16"$

Clear opening Width = Box - $5\frac{5}{16}"$

Clear Opening Height = Box - $4\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Crank Operator, Standard Screen & Butt Hinges

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	18	36-11/16	13-5/16	3.39
42	20	36-11/16	15-5/16	3.90
42	24	36-11/16	19-5/16	4.92
42	28	36-11/16	23-5/16	5.94
42	30	36-11/16	25-5/16	6.45
42	32	36-11/16	27-5/16	6.96
42	36	36-11/16	31-5/16	7.98
42	40	36-11/16	35-5/16	9.00
42	42	36-11/16	37-5/16	9.51
42	48	36-11/16	43-5/16	11.03
42	54	36-11/16	49-5/16	12.56
42	60	36-11/16	55-5/16	14.09
42	66	36-11/16	61-5/16	15.62
42	72	36-11/16	67-5/16	17.15
42	78	36-11/16	73-5/16	18.68
42	84	36-11/16	79-5/16	20.21
42	90	36-11/16	85-5/16	21.74
42	96	36-11/16	91-5/16	23.26

All dimensions $\pm 1/16"$

Clear opening Width = Box - $5\frac{5}{16}"$

Clear Opening Height = Box - $4\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator & Wood Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
16	18	7-7/16	14-11/16	0.76
16	20	7-7/16	16-11/16	0.86
16	24	7-7/16	20-11/16	1.07
16	28	7-7/16	24-11/16	1.28
16	30	7-7/16	26-11/16	1.38
16	32	7-7/16	28-11/16	1.48
16	36	7-7/16	32-11/16	1.69
16	40	7-7/16	36-11/16	1.89
16	42	7-7/16	38-11/16	2.00
16	48	7-7/16	44-11/16	2.31
16	54	7-7/16	50-11/16	2.62
16	60	7-7/16	56-11/16	2.93
16	66	7-7/16	62-11/16	3.24
16	72	7-7/16	68-11/16	3.55
16	78	7-7/16	74-11/16	3.86
16	84	7-7/16	80-11/16	4.17
16	90	7-7/16	86-11/16	4.48
16	96	7-7/16	92-11/16	4.79
18	18	9-7/16	14-11/16	0.96
18	20	9-7/16	16-11/16	1.09
18	24	9-7/16	20-11/16	1.36
18	28	9-7/16	24-11/16	1.62
18	30	9-7/16	26-11/16	1.75
18	32	9-7/16	28-11/16	1.88
18	36	9-7/16	32-11/16	2.14
18	40	9-7/16	36-11/16	2.40
18	42	9-7/16	38-11/16	2.54
18	48	9-7/16	44-11/16	2.93
18	54	9-7/16	50-11/16	3.32
18	60	9-7/16	56-11/16	3.72
18	66	9-7/16	62-11/16	4.11
18	72	9-7/16	68-11/16	4.50
18	78	9-7/16	74-11/16	4.89
18	84	9-7/16	80-11/16	5.29
18	90	9-7/16	86-11/16	5.68
18	96	9-7/16	92-11/16	6.07

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
20	18	11-7/16	14-11/16	1.17
20	20	11-7/16	16-11/16	1.33
20	24	11-7/16	20-11/16	1.64
20	28	11-7/16	24-11/16	1.96
20	30	11-7/16	26-11/16	2.12
20	32	11-7/16	28-11/16	2.28
20	36	11-7/16	32-11/16	2.60
20	40	11-7/16	36-11/16	2.91
20	42	11-7/16	38-11/16	3.07
20	48	11-7/16	44-11/16	3.55
20	54	11-7/16	50-11/16	4.03
20	60	11-7/16	56-11/16	4.50
20	66	11-7/16	62-11/16	4.98
20	72	11-7/16	68-11/16	5.46
20	78	11-7/16	74-11/16	5.93
20	84	11-7/16	80-11/16	6.41
20	90	11-7/16	86-11/16	6.89
20	96	11-7/16	92-11/16	7.36
24	18	15-7/16	14-11/16	1.57
24	20	15-7/16	16-11/16	1.79
24	24	15-7/16	20-11/16	2.22
24	28	15-7/16	24-11/16	2.65
24	30	15-7/16	26-11/16	2.86
24	32	15-7/16	28-11/16	3.08
24	36	15-7/16	32-11/16	3.50
24	40	15-7/16	36-11/16	3.93
24	42	15-7/16	38-11/16	4.15
24	48	15-7/16	44-11/16	4.79
24	54	15-7/16	50-11/16	5.43
24	60	15-7/16	56-11/16	6.08
24	66	15-7/16	62-11/16	6.72
24	72	15-7/16	68-11/16	7.36
24	78	15-7/16	74-11/16	8.01
24	84	15-7/16	80-11/16	8.65
24	90	15-7/16	86-11/16	9.29
24	96	15-7/16	92-11/16	9.94

All dimensions $\pm 1/16"$

Clear opening Width = Box - $8\frac{3}{8}"$

Clear Opening Height = Box - 3"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator & Wood Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
28	18	19-7/16	14-11/16	1.98	32	18	23-7/16	14-11/16	2.39
28	20	19-7/16	16-11/16	2.25	32	20	23-7/16	16-11/16	2.72
28	24	19-7/16	20-11/16	2.79	32	24	23-7/16	20-11/16	3.37
28	28	19-7/16	24-11/16	3.33	32	28	23-7/16	24-11/16	4.02
28	30	19-7/16	26-11/16	3.60	32	30	23-7/16	26-11/16	4.34
28	32	19-7/16	28-11/16	3.87	32	32	23-7/16	28-11/16	4.67
28	36	19-7/16	32-11/16	4.41	32	36	23-7/16	32-11/16	5.32
28	40	19-7/16	36-11/16	4.95	32	40	23-7/16	36-11/16	5.97
28	42	19-7/16	38-11/16	5.22	32	42	23-7/16	38-11/16	6.30
28	48	19-7/16	44-11/16	6.03	32	48	23-7/16	44-11/16	7.27
28	54	19-7/16	50-11/16	6.84	32	54	23-7/16	50-11/16	8.25
28	60	19-7/16	56-11/16	7.65	32	60	23-7/16	56-11/16	9.23
28	66	19-7/16	62-11/16	8.46	32	66	23-7/16	62-11/16	10.20
28	72	19-7/16	68-11/16	9.27	32	72	23-7/16	68-11/16	11.18
28	78	19-7/16	74-11/16	10.08	32	78	23-7/16	74-11/16	12.16
28	84	19-7/16	80-11/16	10.89	32	84	23-7/16	80-11/16	13.13
28	90	19-7/16	86-11/16	11.70	32	90	23-7/16	86-11/16	14.11
28	96	19-7/16	92-11/16	12.51	32	96	23-7/16	92-11/16	15.09
30	18	21-7/16	14-11/16	2.19	36	18	27-7/16	14-11/16	2.80
30	20	21-7/16	16-11/16	2.48	36	20	27-7/16	16-11/16	3.18
30	24	21-7/16	20-11/16	3.08	36	24	27-7/16	20-11/16	3.94
30	28	21-7/16	24-11/16	3.68	36	28	27-7/16	24-11/16	4.70
30	30	21-7/16	26-11/16	3.97	36	30	27-7/16	26-11/16	5.08
30	32	21-7/16	28-11/16	4.27	36	32	27-7/16	28-11/16	5.47
30	36	21-7/16	32-11/16	4.87	36	36	27-7/16	32-11/16	6.23
30	40	21-7/16	36-11/16	5.46	36	40	27-7/16	36-11/16	6.99
30	42	21-7/16	38-11/16	5.76	36	42	27-7/16	38-11/16	7.37
30	48	21-7/16	44-11/16	6.65	36	48	27-7/16	44-11/16	8.51
30	54	21-7/16	50-11/16	7.55	36	54	27-7/16	50-11/16	9.66
30	60	21-7/16	56-11/16	8.44	36	60	27-7/16	56-11/16	10.80
30	66	21-7/16	62-11/16	9.33	36	66	27-7/16	62-11/16	11.94
30	72	21-7/16	68-11/16	10.23	36	72	27-7/16	68-11/16	13.09
30	78	21-7/16	74-11/16	11.12	36	78	27-7/16	74-11/16	14.23
30	84	21-7/16	80-11/16	12.01	36	84	27-7/16	80-11/16	15.37
30	90	21-7/16	86-11/16	12.91	36	90	27-7/16	86-11/16	16.52
30	96	21-7/16	92-11/16	13.80	36	96	27-7/16	92-11/16	17.66

All dimensions $\pm 1/16"$

Clear opening Width = Box - $8\frac{3}{8}"$

Clear Opening Height = Box - 3"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator & Wood Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	18	33-7/16	14-11/16	3.41
42	20	33-7/16	16-11/16	3.87
42	24	33-7/16	20-11/16	4.80
42	28	33-7/16	24-11/16	5.73
42	30	33-7/16	26-11/16	6.20
42	32	33-7/16	28-11/16	6.66
42	36	33-7/16	32-11/16	7.59
42	40	33-7/16	36-11/16	8.52
42	42	33-7/16	38-11/16	8.98
42	48	33-7/16	44-11/16	10.38
42	54	33-7/16	50-11/16	11.77
42	60	33-7/16	56-11/16	13.16
42	66	33-7/16	62-11/16	14.56
42	72	33-7/16	68-11/16	15.95
42	78	33-7/16	74-11/16	17.34
42	84	33-7/16	80-11/16	18.74
42	90	33-7/16	86-11/16	20.13
42	96	33-7/16	92-11/16	21.52

All dimensions $\pm 1/16"$

Clear opening Width = Box - $8\frac{3}{8}"$

Clear Opening Height = Box - 3"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator & Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
16	18	7	13-7/16	0.65	20	18	11	13-7/16	1.03
16	20	7	15-7/16	0.75	20	20	11	15-7/16	1.18
16	24	7	19-7/16	0.94	20	24	11	19-7/16	1.48
16	28	7	23-7/16	1.14	20	28	11	23-7/16	1.79
16	30	7	25-7/16	1.24	20	30	11	25-7/16	1.94
16	32	7	27-7/16	1.33	20	32	11	27-7/16	2.10
16	36	7	31-7/16	1.53	20	36	11	31-7/16	2.40
16	40	7	35-7/16	1.72	20	40	11	35-7/16	2.71
16	42	7	37-7/16	1.82	20	42	11	37-7/16	2.86
16	48	7	43-7/16	2.11	20	48	11	43-7/16	3.32
16	54	7	49-7/16	2.40	20	54	11	49-7/16	3.78
16	60	7	55-7/16	2.69	20	60	11	55-7/16	4.23
16	66	7	61-7/16	2.99	20	66	11	61-7/16	4.69
16	72	7	67-7/16	3.28	20	72	11	67-7/16	5.15
16	78	7	73-7/16	3.57	20	78	11	73-7/16	5.61
16	84	7	79-7/16	3.86	20	84	11	79-7/16	6.07
16	90	7	85-7/16	4.15	20	90	11	85-7/16	6.53
16	96	7	91-7/16	4.44	20	96	11	91-7/16	6.98
18	18	9	13 -7/16	0.84	24	18	15	13-7/16	1.40
18	20	9	15 -7/16	0.96	24	20	15	15-7/16	1.61
18	24	9	19 -7/16	1.21	24	24	15	19-7/16	2.02
18	28	9	23 -7/16	1.46	24	28	15	23-7/16	2.44
18	30	9	25 -7/16	1.59	24	30	15	25-7/16	2.65
18	32	9	27 -7/16	1.71	24	32	15	27-7/16	2.86
18	36	9	31 -7/16	1.96	24	36	15	31-7/16	3.27
18	40	9	35 -7/16	2.21	24	40	15	35-7/16	3.69
18	42	9	37 -7/16	2.34	24	42	15	37-7/16	3.90
18	48	9	43 -7/16	2.71	24	48	15	43-7/16	4.52
18	54	9	49 -7/16	3.09	24	54	15	49-7/16	5.15
18	60	9	55 -7/16	3.46	24	60	15	55-7/16	5.77
18	66	9	61 -7/16	3.84	24	66	15	61-7/16	6.40
18	72	9	67 -7/16	4.21	24	72	15	67-7/16	7.02
18	78	9	73 -7/16	4.59	24	78	15	73-7/16	7.65
18	84	9	79 -7/16	4.96	24	84	15	79-7/16	8.27
18	90	9	85 -7/16	5.34	24	90	15	85-7/16	8.90
18	96	9	91 -7/16	5.71	24	96	15	91-7/16	9.52

All dimensions ± 1/16"

Clear opening Width = Box - 9"

Clear Opening Height = Box - 4 1/8"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator & Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
28	18	19	13-7/16	1.77	32	18	23	13-7/16	2.15
28	20	19	15-7/16	2.04	32	20	23	15-7/16	2.47
28	24	19	19-7/16	2.56	32	24	23	19-7/16	3.10
28	28	19	23-7/16	3.09	32	28	23	23-7/16	3.74
28	30	19	25-7/16	3.36	32	30	23	25-7/16	4.06
28	32	19	27-7/16	3.62	32	32	23	27-7/16	4.38
28	36	19	31-7/16	4.15	32	36	23	31-7/16	5.02
28	40	19	35-7/16	4.68	32	40	23	35-7/16	5.66
28	42	19	37-7/16	4.94	32	42	23	37-7/16	5.98
28	48	19	43-7/16	5.73	32	48	23	43-7/16	6.94
28	54	19	49-7/16	6.52	32	54	23	49-7/16	7.90
28	60	19	55-7/16	7.31	32	60	23	55-7/16	8.85
28	66	19	61-7/16	8.11	32	66	23	61-7/16	9.81
28	72	19	67-7/16	8.90	32	72	23	67-7/16	10.77
28	78	19	73-7/16	9.69	32	78	23	73-7/16	11.73
28	84	19	79-7/16	10.48	32	84	23	79-7/16	12.69
28	90	19	85-7/16	11.27	32	90	23	85-7/16	13.65
28	96	19	91-7/16	12.06	32	96	23	91-7/16	14.60
30	18	21	13-7/16	1.96	36	18	27	13-7/16	2.52
30	20	21	15-7/16	2.25	36	20	27	15-7/16	2.89
30	24	21	19-7/16	2.83	36	24	27	19-7/16	3.64
30	28	21	23-7/16	3.42	36	28	27	23-7/16	4.39
30	30	21	25-7/16	3.71	36	30	27	25-7/16	4.77
30	32	21	27-7/16	4.00	36	32	27	27-7/16	5.14
30	36	21	31-7/16	4.58	36	36	27	31-7/16	5.89
30	40	21	35-7/16	5.17	36	40	27	35-7/16	6.64
30	42	21	37-7/16	5.46	36	42	27	37-7/16	7.02
30	48	21	43-7/16	6.33	36	48	27	43-7/16	8.14
30	54	21	49-7/16	7.21	36	54	27	49-7/16	9.27
30	60	21	55-7/16	8.08	36	60	27	55-7/16	10.39
30	66	21	61-7/16	8.96	36	66	27	61-7/16	11.52
30	72	21	67-7/16	9.83	36	72	27	67-7/16	12.64
30	78	21	73-7/16	10.71	36	78	27	73-7/16	13.77
30	84	21	79-7/16	11.58	36	84	27	79-7/16	14.89
30	90	21	85-7/16	12.46	36	90	27	85-7/16	16.02
30	96	21	91-7/16	13.33	36	96	27	91-7/16	17.14

All dimensions $\pm 1/16"$

Clear opening Width = Box - 9"

Clear Opening Height = Box - 4 $\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator & Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	18	33	13-7/16	3.08
42	20	33	15-7/16	3.54
42	24	33	19-7/16	4.45
42	28	33	23-7/16	5.37
42	30	33	25-7/16	5.83
42	32	33	27-7/16	6.29
42	36	33	31-7/16	7.20
42	40	33	35-7/16	8.12
42	42	33	37-7/16	8.58
42	48	33	43-7/16	9.95
42	54	33	49-7/16	11.33
42	60	33	55-7/16	12.70
42	66	33	61-7/16	14.08
42	72	33	67-7/16	15.45
42	78	33	73-7/16	16.83
42	84	33	79-7/16	18.20
42	90	33	85-7/16	19.58
42	96	33	91-7/16	20.95

All dimensions $\pm 1/16"$

Clear opening Width = Box - 9"

Clear Opening Height = Box - 4 1/4"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator, Retractable Screen & Butt Hinges

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
16	18	10-13/16	13-7/16	1.01
16	20	10-13/16	15-7/16	1.16
16	24	10-13/16	19-7/16	1.46
16	28	10-13/16	23-7/16	1.76
16	30	10-13/16	25-7/16	1.91
16	32	10-13/16	27-7/16	2.06
16	36	10-13/16	31-7/16	2.36
16	40	10-13/16	35-7/16	2.66
16	42	10-13/16	37-7/16	2.81
16	48	10-13/16	43-7/16	3.26
16	54	10-13/16	49-7/16	3.71
16	60	10-13/16	55-7/16	4.16
16	66	10-13/16	61-7/16	4.61
16	72	10-13/16	67-7/16	5.06
16	78	10-13/16	73-7/16	5.51
16	84	10-13/16	79-7/16	5.96
16	90	10-13/16	85-7/16	6.42
16	96	10-13/16	91-7/16	6.87
18	18	12-13/16	13-7/16	1.20
18	20	12-13/16	15-7/16	1.37
18	24	12-13/16	19-7/16	1.73
18	28	12-13/16	23-7/16	2.09
18	30	12-13/16	25-7/16	2.26
18	32	12-13/16	27-7/16	2.44
18	36	12-13/16	31-7/16	2.80
18	40	12-13/16	35-7/16	3.15
18	42	12-13/16	37-7/16	3.33
18	48	12-13/16	43-7/16	3.86
18	54	12-13/16	49-7/16	4.40
18	60	12-13/16	55-7/16	4.93
18	66	12-13/16	61-7/16	5.47
18	72	12-13/16	67-7/16	6.00
18	78	12-13/16	73-7/16	6.53
18	84	12-13/16	79-7/16	7.07
18	90	12-13/16	85-7/16	7.60
18	96	12-13/16	91-7/16	8.14

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
20	18	14-13/16	13-7/16	1.38
20	20	14-13/16	15-7/16	1.59
20	24	14-13/16	19-7/16	2.00
20	28	14-13/16	23-7/16	2.41
20	30	14-13/16	25-7/16	2.62
20	32	14-13/16	27-7/16	2.82
20	36	14-13/16	31-7/16	3.23
20	40	14-13/16	35-7/16	3.65
20	42	14-13/16	37-7/16	3.85
20	48	14-13/16	43-7/16	4.47
20	54	14-13/16	49-7/16	5.09
20	60	14-13/16	55-7/16	5.70
20	66	14-13/16	61-7/16	6.32
20	72	14-13/16	67-7/16	6.94
20	78	14-13/16	73-7/16	7.55
20	84	14-13/16	79-7/16	8.17
20	90	14-13/16	85-7/16	8.79
20	96	14-13/16	91-7/16	9.41
24	18	18-13/16	13-7/16	1.76
24	20	18-13/16	15-7/16	2.02
24	24	18-13/16	19-7/16	2.54
24	28	18-13/16	23-7/16	3.06
24	30	18-13/16	25-7/16	3.32
24	32	18-13/16	27-7/16	3.58
24	36	18-13/16	31-7/16	4.11
24	40	18-13/16	35-7/16	4.63
24	42	18-13/16	37-7/16	4.89
24	48	18-13/16	43-7/16	5.67
24	54	18-13/16	49-7/16	6.46
24	60	18-13/16	55-7/16	7.24
24	66	18-13/16	61-7/16	8.03
24	72	18-13/16	67-7/16	8.81
24	78	18-13/16	73-7/16	9.59
24	84	18-13/16	79-7/16	10.38
24	90	18-13/16	85-7/16	11.16
24	96	18-13/16	91-7/16	11.95

All dimensions $\pm 1/16"$

Clear opening Width = Box - $5\frac{3}{16}"$

Clear Opening Height = Box - $4\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator, Retractable Screen & Butt Hinges

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
28	18	22-13/16	13-7/16	2.13	32	18	26-13/16	13-7/16	2.50
28	20	22-13/16	15-7/16	2.45	32	20	26-13/16	15-7/16	2.87
28	24	22-13/16	19-7/16	3.08	32	24	26-13/16	19-7/16	3.62
28	28	22-13/16	23-7/16	3.71	32	28	26-13/16	23-7/16	4.36
28	30	22-13/16	25-7/16	4.03	32	30	26-13/16	25-7/16	4.74
28	32	22-13/16	27-7/16	4.35	32	32	26-13/16	27-7/16	5.11
28	36	22-13/16	31-7/16	4.98	32	36	26-13/16	31-7/16	5.85
28	40	22-13/16	35-7/16	5.61	32	40	26-13/16	35-7/16	6.60
28	42	22-13/16	37-7/16	5.93	32	42	26-13/16	37-7/16	6.97
28	48	22-13/16	43-7/16	6.88	32	48	26-13/16	43-7/16	8.09
28	54	22-13/16	49-7/16	7.83	32	54	26-13/16	49-7/16	9.21
28	60	22-13/16	55-7/16	8.78	32	60	26-13/16	55-7/16	10.32
28	66	22-13/16	61-7/16	9.73	32	66	26-13/16	61-7/16	11.44
28	72	22-13/16	67-7/16	10.68	32	72	26-13/16	67-7/16	12.56
28	78	22-13/16	73-7/16	11.63	32	78	26-13/16	73-7/16	13.67
28	84	22-13/16	79-7/16	12.58	32	84	26-13/16	79-7/16	14.79
28	90	22-13/16	85-7/16	13.54	32	90	26-13/16	85-7/16	15.91
28	96	22-13/16	91-7/16	14.49	32	96	26-13/16	91-7/16	17.03
30	18	24-13/16	13-7/16	2.32	36	18	30-13/16	13-7/16	2.88
30	20	24-13/16	15-7/16	2.66	36	20	30-13/16	15-7/16	3.30
30	24	24-13/16	19-7/16	3.35	36	24	30-13/16	19-7/16	4.16
30	28	24-13/16	23-7/16	4.04	36	28	30-13/16	23-7/16	5.02
30	30	24-13/16	25-7/16	4.38	36	30	30-13/16	25-7/16	5.44
30	32	24-13/16	27-7/16	4.73	36	32	30-13/16	27-7/16	5.87
30	36	24-13/16	31-7/16	5.42	36	36	30-13/16	31-7/16	6.73
30	40	24-13/16	35-7/16	6.11	36	40	30-13/16	35-7/16	7.58
30	42	24-13/16	37-7/16	6.45	36	42	30-13/16	37-7/16	8.01
30	48	24-13/16	43-7/16	7.48	36	48	30-13/16	43-7/16	9.29
30	54	24-13/16	49-7/16	8.52	36	54	30-13/16	49-7/16	10.58
30	60	24-13/16	55-7/16	9.55	36	60	30-13/16	55-7/16	11.86
30	66	24-13/16	61-7/16	10.59	36	66	30-13/16	61-7/16	13.15
30	72	24-13/16	67-7/16	11.62	36	72	30-13/16	67-7/16	14.43
30	78	24-13/16	73-7/16	12.65	36	78	30-13/16	73-7/16	15.71
30	84	24-13/16	79-7/16	13.69	36	84	30-13/16	79-7/16	17.00
30	90	24-13/16	85-7/16	14.72	36	90	30-13/16	85-7/16	18.28
30	96	24-13/16	91-7/16	15.76	36	96	30-13/16	91-7/16	19.57

All dimensions ± 1/16"

Clear opening Width = Box - 5 3/16"

Clear Opening Height = Box - 4 1 1/16"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Casement - Push-Out Operator, Retractable Screen & Butt Hinges

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	18	36-13/16	13-7/16	3.44
42	20	36-13/16	15-7/16	3.95
42	24	36-13/16	19-7/16	4.97
42	28	36-13/16	23-7/16	5.99
42	30	36-13/16	25-7/16	6.50
42	32	36-13/16	27-7/16	7.01
42	36	36-13/16	31-7/16	8.04
42	40	36-13/16	35-7/16	9.06
42	42	36-13/16	37-7/16	9.57
42	48	36-13/16	43-7/16	11.10
42	54	36-13/16	49-7/16	12.64
42	60	36-13/16	55-7/16	14.17
42	66	36-13/16	61-7/16	15.71
42	72	36-13/16	67-7/16	17.24
42	78	36-13/16	73-7/16	18.77
42	84	36-13/16	79-7/16	20.31
42	90	36-13/16	85-7/16	21.84
42	96	36-13/16	91-7/16	23.38

All dimensions $\pm 1/16"$

Clear opening Width = Box - $5\frac{3}{16}"$

Clear Opening Height = Box - $4\frac{1}{16}"$

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

French Casement with Standard Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	40	29-3/8	35-5/16	7.20
42	42	29-3/8	37-5/16	7.61
42	48	29-3/8	43-5/16	8.84
42	54	29-3/8	49-5/16	10.06
42	60	29-3/8	55-5/16	11.28
42	66	29-3/8	61-5/16	12.51
42	72	29-3/8	67-5/16	13.73
42	78	29-3/8	73-5/16	14.96
48	40	35-3/8	35-5/16	8.67
48	42	35-3/8	37-5/16	9.17
48	48	35-3/8	43-5/16	10.64
48	54	35-3/8	49-5/16	12.11
48	60	35-3/8	55-5/16	13.59
48	66	35-3/8	61-5/16	15.06
48	72	35-3/8	67-5/16	16.54
48	78	35-3/8	73-5/16	18.01
54	40	41-3/8	35-5/16	10.15
54	42	41-3/8	37-5/16	10.72
54	48	41-3/8	43-5/16	12.44
54	54	41-3/8	49-5/16	14.17
54	60	41-3/8	55-5/16	15.89
54	66	41-3/8	61-5/16	17.62
54	72	41-3/8	67-5/16	19.34
54	78	41-3/8	73-5/16	21.06
60	40	47-3/8	35-5/16	11.62
60	42	47-3/8	37-5/16	12.28
60	48	47-3/8	43-5/16	14.25
60	54	47-3/8	49-5/16	16.22
60	60	47-3/8	55-5/16	18.20
60	66	47-3/8	61-5/16	20.17
60	72	47-3/8	67-5/16	22.15
60	78	47-3/8	73-5/16	24.12

French Casement with Retractable Screen

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
42	40	29-3/8	34-9/16	7.05
42	42	29-3/8	36-9/16	7.46
42	48	29-3/8	42-9/16	8.68
42	54	29-3/8	48-9/16	9.91
42	60	29-3/8	54-9/16	11.13
42	66	29-3/8	60-9/16	12.35
42	72	29-3/8	66-9/16	13.58
42	78	29-3/8	72-9/16	14.80
48	40	35-3/8	34-9/16	8.49
48	42	35-3/8	36-9/16	8.98
48	48	35-3/8	42-9/16	10.46
48	54	35-3/8	48-9/16	11.93
48	60	35-3/8	54-9/16	13.40
48	66	35-3/8	60-9/16	14.88
48	72	35-3/8	66-9/16	16.35
48	78	35-3/8	72-9/16	17.83
54	40	41-3/8	34-9/16	9.93
54	42	41-3/8	36-9/16	10.51
54	48	41-3/8	42-9/16	12.23
54	54	41-3/8	48-9/16	13.95
54	60	41-3/8	54-9/16	15.68
54	66	41-3/8	60-9/16	17.40
54	72	41-3/8	66-9/16	19.13
54	78	41-3/8	72-9/16	20.85
60	40	47-3/8	34-9/16	11.37
60	42	47-3/8	36-9/16	12.03
60	48	47-3/8	42-9/16	14.00
60	54	47-3/8	48-9/16	15.98
60	60	47-3/8	54-9/16	17.95
60	66	47-3/8	60-9/16	19.92
60	72	47-3/8	66-9/16	21.90
60	78	47-3/8	72-9/16	23.87

All dimensions ± 1/16"

Clear opening Width = Box - 12 $\frac{5}{8}$ "

Clear Opening Height = Box - 4 $\frac{1}{16}$ "

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

All dimensions ± 1/16"

Clear opening Width = Box - 12 $\frac{5}{8}$ "

Clear Opening Height = Box - 5 $\frac{1}{16}$ "

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Glider Units

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
39-7/8	22-1/8	16-9/16	17-7/8	2.06
39-7/8	26-1/8	16-9/16	21-7/8	2.52
39-7/8	30-1/8	16-9/16	25-7/8	2.98
39-7/8	34-1/8	16-9/16	29-7/8	3.44
39-7/8	38-1/8	16-9/16	33-7/8	3.90
39-7/8	42-1/8	16-9/16	37-7/8	4.36
39-7/8	46-1/8	16-9/16	41-7/8	4.82
39-7/8	54-1/8	16-9/16	49-7/8	5.74
47-7/8	22-1/8	20-9/16	17-7/8	2.55
47-7/8	26-1/8	20-9/16	21-7/8	3.12
47-7/8	30-1/8	20-9/16	25-7/8	3.69
47-7/8	34-1/8	20-9/16	29-7/8	4.27
47-7/8	38-1/8	20-9/16	33-7/8	4.84
47-7/8	42-1/8	20-9/16	37-7/8	5.41
47-7/8	46-1/8	20-9/16	41-7/8	5.98
47-7/8	54-1/8	20-9/16	49-7/8	7.12
55-7/8	22-1/8	24-9/16	17-7/8	3.05
55-7/8	26-1/8	24-9/16	21-7/8	3.73
55-7/8	30-1/8	24-9/16	25-7/8	4.41
55-7/8	34-1/8	24-9/16	29-7/8	5.10
55-7/8	38-1/8	24-9/16	33-7/8	5.78
55-7/8	42-1/8	24-9/16	37-7/8	6.46
55-7/8	46-1/8	24-9/16	41-7/8	7.14
55-7/8	54-1/8	24-9/16	49-7/8	8.51
63-7/8	22-1/8	28-9/16	17-7/8	3.55
63-7/8	26-1/8	28-9/16	21-7/8	4.34
63-7/8	30-1/8	28-9/16	25-7/8	5.13
63-7/8	34-1/8	28-9/16	29-7/8	5.93
63-7/8	38-1/8	28-9/16	33-7/8	6.72
63-7/8	42-1/8	28-9/16	37-7/8	7.51
63-7/8	46-1/8	28-9/16	41-7/8	8.31
63-7/8	54-1/8	28-9/16	49-7/8	9.89
71-7/8	22-1/8	32-9/16	17-7/8	4.04
71-7/8	26-1/8	32-9/16	21-7/8	4.95
71-7/8	30-1/8	32-9/16	25-7/8	5.85
71-7/8	34-1/8	32-9/16	29-7/8	6.76
71-7/8	38-1/8	32-9/16	33-7/8	7.66
71-7/8	42-1/8	32-9/16	37-7/8	8.56
71-7/8	46-1/8	32-9/16	41-7/8	9.47
71-7/8	54-1/8	32-9/16	49-7/8	11.28

All dimensions $\pm 1/16"$

Triple Glider Units

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
73-3/8	6-1/8	18-1/8	1-7/8	0.24
73-3/8	6-1/8	18-1/8	1-7/8	0.24
73-3/8	6-1/8	18-1/8	1-7/8	0.24
73-3/8	6-1/8	18-1/8	1-7/8	0.24
73-3/8	6-1/8	18-1/8	1-7/8	0.24
85-3/8	6-1/8	22-1/8	1-7/8	0.29
85-3/8	6-1/8	22-1/8	1-7/8	0.29
85-3/8	6-1/8	22-1/8	1-7/8	0.29
85-3/8	6-1/8	22-1/8	1-7/8	0.29
85-3/8	6-1/8	22-1/8	1-7/8	0.29
89-3/8	6-1/8	22-1/8	1-7/8	0.29
89-3/8	6-1/8	22-1/8	1-7/8	0.29
89-3/8	6-1/8	22-1/8	1-7/8	0.29
89-3/8	6-1/8	22-1/8	1-7/8	0.29
89-3/8	6-1/8	22-1/8	1-7/8	0.29
105-3/8	6-1/8	26-1/8	1-7/8	0.34
105-3/8	6-1/8	26-1/8	1-7/8	0.34
105-3/8	6-1/8	26-1/8	1-7/8	0.34
105-3/8	6-1/8	26-1/8	1-7/8	0.34
105-3/8	6-1/8	26-1/8	1-7/8	0.34

All dimensions $\pm 1/16"$

***The clear opening width shown above is with one sash open

Double Hungs - Standard or Concealed Jambliners

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
17-3/8	32-1/2	14	11-3/4	1.14	29-3/8	32-1/2	26	11-3/4	2.12
17-3/8	36-1/2	14	13-3/4	1.34	29-3/8	36-1/2	26	13-3/4	2.48
17-3/8	40-1/2	14	15-3/4	1.53	29-3/8	40-1/2	26	15-3/4	2.84
17-3/8	44-1/2	14	17-3/4	1.73	29-3/8	44-1/2	26	17-3/4	3.20
17-3/8	48-1/2	14	19-3/4	1.92	29-3/8	48-1/2	26	19-3/4	3.57
17-3/8	52-1/2	14	21-3/4	2.11	29-3/8	52-1/2	26	21-3/4	3.93
17-3/8	56-1/2	14	23-3/4	2.31	29-3/8	56-1/2	26	23-3/4	4.29
17-3/8	60-1/2	14	25-3/4	2.50	29-3/8	60-1/2	26	25-3/4	4.65
17-3/8	64-1/2	14	27-3/4	2.70	29-3/8	64-1/2	26	27-3/4	5.01
17-3/8	68-1/2	14	29-3/4	2.89	29-3/8	68-1/2	26	29-3/4	5.37
17-3/8	72-1/2	14	31-3/4	3.09	29-3/8	72-1/2	26	31-3/4	5.73
17-3/8	76-1/2	14	33-3/4	3.28	29-3/8	76-1/2	26	33-3/4	6.09
17-3/8	80-1/2	14	35-3/4	3.48	29-3/8	80-1/2	26	35-3/4	6.45
17-3/8	92-1/2	14	41-3/4	4.06	29-3/8	92-1/2	26	41-3/4	7.54
21-3/8	32-1/2	18	11-3/4	1.47	31-3/8	32-1/2	28	11-3/4	2.28
21-3/8	36-1/2	18	13-3/4	1.72	31-3/8	36-1/2	28	13-3/4	2.67
21-3/8	40-1/2	18	15-3/4	1.97	31-3/8	40-1/2	28	15-3/4	3.06
21-3/8	44-1/2	18	17-3/4	2.22	31-3/8	44-1/2	28	17-3/4	3.45
21-3/8	48-1/2	18	19-3/4	2.47	31-3/8	48-1/2	28	19-3/4	3.84
21-3/8	52-1/2	18	21-3/4	2.72	31-3/8	52-1/2	28	21-3/4	4.23
21-3/8	56-1/2	18	23-3/4	2.97	31-3/8	56-1/2	28	23-3/4	4.62
21-3/8	60-1/2	18	25-3/4	3.22	31-3/8	60-1/2	28	25-3/4	5.01
21-3/8	64-1/2	18	27-3/4	3.47	31-3/8	64-1/2	28	27-3/4	5.40
21-3/8	68-1/2	18	29-3/4	3.72	31-3/8	68-1/2	28	29-3/4	5.78
21-3/8	72-1/2	18	31-3/4	3.97	31-3/8	72-1/2	28	31-3/4	6.17
21-3/8	76-1/2	18	33-3/4	4.22	31-3/8	76-1/2	28	33-3/4	6.56
21-3/8	80-1/2	18	35-3/4	4.47	31-3/8	80-1/2	28	35-3/4	6.95
21-3/8	92-1/2	18	41-3/4	5.22	31-3/8	92-1/2	28	41-3/4	8.12
25-3/8	32-1/2	22	11-3/4	1.80	33-3/8	32-1/2	30	11-3/4	2.45
25-3/8	36-1/2	22	13-3/4	2.10	33-3/8	36-1/2	30	13-3/4	2.86
25-3/8	40-1/2	22	15-3/4	2.41	33-3/8	40-1/2	30	15-3/4	3.28
25-3/8	44-1/2	22	17-3/4	2.71	33-3/8	44-1/2	30	17-3/4	3.70
25-3/8	48-1/2	22	19-3/4	3.02	33-3/8	48-1/2	30	19-3/4	4.11
25-3/8	52-1/2	22	21-3/4	3.32	33-3/8	52-1/2	30	21-3/4	4.53
25-3/8	56-1/2	22	23-3/4	3.63	33-3/8	56-1/2	30	23-3/4	4.95
25-3/8	60-1/2	22	25-3/4	3.93	33-3/8	60-1/2	30	25-3/4	5.36
25-3/8	64-1/2	22	27-3/4	4.24	33-3/8	64-1/2	30	27-3/4	5.78
25-3/8	68-1/2	22	29-3/4	4.55	33-3/8	68-1/2	30	29-3/4	6.20
25-3/8	72-1/2	22	31-3/4	4.85	33-3/8	72-1/2	30	31-3/4	6.61
25-3/8	76-1/2	22	33-3/4	5.16	33-3/8	76-1/2	30	33-3/4	7.03
25-3/8	80-1/2	22	35-3/4	5.46	33-3/8	80-1/2	30	35-3/4	7.45
25-3/8	92-1/2	22	41-3/4	6.38	33-3/8	92-1/2	30	41-3/4	8.70

Double Hungs - Standard or Concealed Jambliners

Glass Size Width	Glass Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Glass Size Width	Glass Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
35-3/8	32-1/2	32	11-3/4	2.61	41-3/8	32-1/2	38	11-3/4	3.10
35-3/8	36-1/2	32	13-3/4	3.06	41-3/8	36-1/2	38	13-3/4	3.63
35-3/8	40-1/2	32	15-3/4	3.50	41-3/8	40-1/2	38	15-3/4	4.16
35-3/8	44-1/2	32	17-3/4	3.94	41-3/8	44-1/2	38	17-3/4	4.68
35-3/8	48-1/2	32	19-3/4	4.39	41-3/8	48-1/2	38	19-3/4	5.21
35-3/8	52-1/2	32	21-3/4	4.83	41-3/8	52-1/2	38	21-3/4	5.74
35-3/8	56-1/2	32	23-3/4	5.28	41-3/8	56-1/2	38	23-3/4	6.27
35-3/8	60-1/2	32	25-3/4	5.72	41-3/8	60-1/2	38	25-3/4	6.80
35-3/8	64-1/2	32	27-3/4	6.17	41-3/8	64-1/2	38	27-3/4	7.32
35-3/8	68-1/2	32	29-3/4	6.61	41-3/8	68-1/2	38	29-3/4	7.85
35-3/8	72-1/2	32	31-3/4	7.06	41-3/8	72-1/2	38	31-3/4	8.38
35-3/8	76-1/2	32	33-3/4	7.50	41-3/8	76-1/2	38	33-3/4	8.91
35-3/8	80-1/2	32	35-3/4	7.94	41-3/8	80-1/2	38	35-3/4	9.43
35-3/8	92-1/2	32	41-3/4	9.28	41-3/8	92-1/2	38	41-3/4	11.02
37-3/8	32-1/2	34	11-3/4	2.77	45-3/8	32-1/2	42	11-3/4	3.43
37-3/8	36-1/2	34	13-3/4	3.25	45-3/8	36-1/2	42	13-3/4	4.01
37-3/8	40-1/2	34	15-3/4	3.72	45-3/8	40-1/2	42	15-3/4	4.59
37-3/8	44-1/2	34	17-3/4	4.19	45-3/8	44-1/2	42	17-3/4	5.18
37-3/8	48-1/2	34	19-3/4	4.66	45-3/8	48-1/2	42	19-3/4	5.76
37-3/8	52-1/2	34	21-3/4	5.14	45-3/8	52-1/2	42	21-3/4	6.34
37-3/8	56-1/2	34	23-3/4	5.61	45-3/8	56-1/2	42	23-3/4	6.93
37-3/8	60-1/2	34	25-3/4	6.08	45-3/8	60-1/2	42	25-3/4	7.51
37-3/8	64-1/2	34	27-3/4	6.55	45-3/8	64-1/2	42	27-3/4	8.09
37-3/8	68-1/2	34	29-3/4	7.02	45-3/8	68-1/2	42	29-3/4	8.68
37-3/8	72-1/2	34	31-3/4	7.50	45-3/8	72-1/2	42	31-3/4	9.26
37-3/8	76-1/2	34	33-3/4	7.97	45-3/8	76-1/2	42	33-3/4	9.84
37-3/8	80-1/2	34	35-3/4	8.44	45-3/8	80-1/2	42	35-3/4	10.43
37-3/8	92-1/2	34	41-3/4	9.86	45-3/8	92-1/2	42	41-3/4	12.18

All dimensions $\pm 1/16"$

Clear opening Width = Glass + 1-7/8"

Clear Opening Height = Bottom Sash Glass Height + 3/16"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Double Hungs PG50 - Standard or Concealed Jambliners

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening	Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
17-3/8	32-1/2	14	11-1/8	1.08	29-3/8	32-1/2	26	11-1/8	2.01
17-3/8	36-1/2	14	13-1/8	1.28	29-3/8	36-1/2	26	13-1/8	2.37
17-3/8	40-1/2	14	15-1/8	1.47	29-3/8	40-1/2	26	15-1/8	2.73
17-3/8	44-1/2	14	17-1/8	1.66	29-3/8	44-1/2	26	17-1/8	3.09
17-3/8	48-1/2	14	19-1/8	1.86	29-3/8	48-1/2	26	19-1/8	3.45
17-3/8	52-1/2	14	21-1/8	2.05	29-3/8	52-1/2	26	21-1/8	3.81
17-3/8	56-1/2	14	23-1/8	2.25	29-3/8	56-1/2	26	23-1/8	4.18
17-3/8	60-1/2	14	25-1/8	2.44	29-3/8	60-1/2	26	25-1/8	4.54
17-3/8	64-1/2	14	27-1/8	2.64	29-3/8	64-1/2	26	27-1/8	4.90
17-3/8	68-1/2	14	29-1/8	2.83	29-3/8	68-1/2	26	29-1/8	5.26
17-3/8	72-1/2	14	31-1/8	3.03	29-3/8	72-1/2	26	31-1/8	5.62
17-3/8	76-1/2	14	33-1/8	3.22	29-3/8	76-1/2	26	33-1/8	5.98
17-3/8	80-1/2	14	35-1/8	3.41	29-3/8	80-1/2	26	35-1/8	6.34
17-3/8	92-1/2	14	41-1/8	4.00	29-3/8	92-1/2	26	41-1/8	7.43
21-3/8	32-1/2	18	11-1/8	1.39	31-3/8	32-1/2	28	11-1/8	2.16
21-3/8	36-1/2	18	13-1/8	1.64	31-3/8	36-1/2	28	13-1/8	2.55
21-3/8	40-1/2	18	15-1/8	1.89	31-3/8	40-1/2	28	15-1/8	2.94
21-3/8	44-1/2	18	17-1/8	2.14	31-3/8	44-1/2	28	17-1/8	3.33
21-3/8	48-1/2	18	19-1/8	2.39	31-3/8	48-1/2	28	19-1/8	3.72
21-3/8	52-1/2	18	21-1/8	2.64	31-3/8	52-1/2	28	21-1/8	4.11
21-3/8	56-1/2	18	23-1/8	2.89	31-3/8	56-1/2	28	23-1/8	4.50
21-3/8	60-1/2	18	25-1/8	3.14	31-3/8	60-1/2	28	25-1/8	4.89
21-3/8	64-1/2	18	27-1/8	3.39	31-3/8	64-1/2	28	27-1/8	5.27
21-3/8	68-1/2	18	29-1/8	3.64	31-3/8	68-1/2	28	29-1/8	5.66
21-3/8	72-1/2	18	31-1/8	3.89	31-3/8	72-1/2	28	31-1/8	6.05
21-3/8	76-1/2	18	33-1/8	4.14	31-3/8	76-1/2	28	33-1/8	6.44
21-3/8	80-1/2	18	35-1/8	4.39	31-3/8	80-1/2	28	35-1/8	6.83
21-3/8	92-1/2	18	41-1/8	5.14	31-3/8	92-1/2	28	41-1/8	8.00
25-3/8	32-1/2	22	11-1/8	1.70	33-3/8	32-1/2	30	11-1/8	2.32
25-3/8	36-1/2	22	13-1/8	2.01	33-3/8	36-1/2	30	13-1/8	2.73
25-3/8	40-1/2	22	15-1/8	2.31	33-3/8	40-1/2	30	15-1/8	3.15
25-3/8	44-1/2	22	17-1/8	2.62	33-3/8	44-1/2	30	17-1/8	3.57
25-3/8	48-1/2	22	19-1/8	2.92	33-3/8	48-1/2	30	19-1/8	3.98
25-3/8	52-1/2	22	21-1/8	3.23	33-3/8	52-1/2	30	21-1/8	4.40
25-3/8	56-1/2	22	23-1/8	3.53	33-3/8	56-1/2	30	23-1/8	4.82
25-3/8	60-1/2	22	25-1/8	3.84	33-3/8	60-1/2	30	25-1/8	5.23
25-3/8	64-1/2	22	27-1/8	4.14	33-3/8	64-1/2	30	27-1/8	5.65
25-3/8	68-1/2	22	29-1/8	4.45	33-3/8	68-1/2	30	29-1/8	6.07
25-3/8	72-1/2	22	31-1/8	4.76	33-3/8	72-1/2	30	31-1/8	6.48
25-3/8	76-1/2	22	33-1/8	5.06	33-3/8	76-1/2	30	33-1/8	6.90
25-3/8	80-1/2	22	35-1/8	5.37	33-3/8	80-1/2	30	35-1/8	7.32
25-3/8	92-1/2	22	41-1/8	6.28	33-3/8	92-1/2	30	41-1/8	8.57

Double Hungs PG50 - Standard or Concealed Jambliners

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
35-3/8	32-1/2	32	11-1/8	2.47
35-3/8	36-1/2	32	13-1/8	2.92
35-3/8	40-1/2	32	15-1/8	3.36
35-3/8	44-1/2	32	17-1/8	3.81
35-3/8	48-1/2	32	19-1/8	4.25
35-3/8	52-1/2	32	21-1/8	4.69
35-3/8	56-1/2	32	23-1/8	5.14
35-3/8	60-1/2	32	25-1/8	5.58
35-3/8	64-1/2	32	27-1/8	6.03
35-3/8	68-1/2	32	29-1/8	6.47
35-3/8	72-1/2	32	31-1/8	6.92
35-3/8	76-1/2	32	33-1/8	7.36
35-3/8	80-1/2	32	35-1/8	7.81
35-3/8	92-1/2	32	41-1/8	9.14
37-3/8	32-1/2	34	11-1/8	2.63
37-3/8	36-1/2	34	13-1/8	3.10
37-3/8	40-1/2	34	15-1/8	3.57
37-3/8	44-1/2	34	17-1/8	4.04
37-3/8	48-1/2	34	19-1/8	4.52
37-3/8	52-1/2	34	21-1/8	4.99
37-3/8	56-1/2	34	23-1/8	5.46
37-3/8	60-1/2	34	25-1/8	5.93
37-3/8	64-1/2	34	27-1/8	6.40
37-3/8	68-1/2	34	29-1/8	6.88
37-3/8	72-1/2	34	31-1/8	7.35
37-3/8	76-1/2	34	33-1/8	7.82
37-3/8	80-1/2	34	35-1/8	8.29

All dimensions $\pm 1/16"$

Clear opening Width = Glass + 1-7/8"

Clear Opening Height = Bottom Sash Glass Height + 3/16"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Quantum Double Hung

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
39-13/16	73-15/16	35 -1/8	30 -1/4	7.38
39-13/16	81-15/16	35 -1/8	34 -1/4	8.35
39-13/16	89-15/16	35 -1/8	38 -1/4	9.33
39-13/16	97-15/16	35 -1/8	42 -1/4	10.31
39-13/16	105-15/16	35 -1/8	46 -1/4	11.28
39-13/16	113-15/16	35 -1/8	50 -1/4	12.26
39-13/16	119-15/16	35 -1/8	53 -1/4	12.99
43-13/16	73-15/16	39 -1/8	30 -1/4	8.22
43-13/16	81-15/16	39 -1/8	34 -1/4	9.31
43-13/16	89-15/16	39 -1/8	38 -1/4	10.39
43-13/16	97-15/16	39 -1/8	42 -1/4	11.48
43-13/16	105-15/16	39 -1/8	46 -1/4	12.57
43-13/16	113-15/16	39 -1/8	50 -1/4	13.65
43-13/16	119-15/16	39 -1/8	53 -1/4	14.47
47-13/16	73-15/16	43 -1/8	30 -1/4	9.06
47-13/16	81-15/16	43 -1/8	34 -1/4	10.26
47-13/16	89-15/16	43 -1/8	38 -1/4	11.46
47-13/16	97-15/16	43 -1/8	42 -1/4	12.65
47-13/16	105-15/16	43 -1/8	46 -1/4	13.85
47-13/16	113-15/16	43 -1/8	50 -1/4	15.05
47-13/16	119-15/16	43 -1/8	53 -1/4	15.95
49-13/16	73-15/16	45 -1/8	30 -1/4	9.48
49-13/16	81-15/16	45 -1/8	34 -1/4	10.73
49-13/16	89-15/16	45 -1/8	38 -1/4	11.99
49-13/16	97-15/16	45 -1/8	42 -1/4	13.24
49-13/16	105-15/16	45 -1/8	46 -1/4	14.49
49-13/16	113-15/16	45 -1/8	50 -1/4	15.75
49-13/16	119-15/16	45 -1/8	53 -1/4	16.69

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
51-13/16	73-15/16	47 -1/8	30 -1/4	9.90
51-13/16	81-15/16	47 -1/8	34 -1/4	11.21
51-13/16	89-15/16	47 -1/8	38 -1/4	12.52
51-13/16	97-15/16	47 -1/8	42 -1/4	13.83
51-13/16	105-15/16	47 -1/8	46 -1/4	15.14
51-13/16	113-15/16	47 -1/8	50 -1/4	16.44
55-13/16	73-15/16	51 -1/8	30 -1/4	10.74
55-13/16	81-15/16	51 -1/8	34 -1/4	12.16
55-13/16	89-15/16	51 -1/8	38 -1/4	13.58
55-13/16	97-15/16	51 -1/8	42 -1/4	15.00
55-13/16	105-15/16	51 -1/8	46 -1/4	16.42
55-13/16	113-15/16	51 -1/8	50 -1/4	17.84
55-13/16	119-15/16	51 -1/8	53 -1/4	18.91
59-13/16	73-15/16	55 -1/8	30 -1/4	11.58
59-13/16	81-15/16	55 -1/8	34 -1/4	13.11
59-13/16	89-15/16	55 -1/8	38 -1/4	14.64
59-13/16	97-15/16	55 -1/8	42 -1/4	16.17
59-13/16	105-15/16	55 -1/8	46 -1/4	17.71
59-13/16	113-15/16	55 -1/8	50 -1/4	19.24
59-13/16	119-15/16	55 -1/8	53 -1/4	20.38

All dimensions ± 1/16"

Clear opening Width = Glass + 1-7/8"

Clear Opening Height = Bottom Sash Glass Height - 9/16"

Sq. Ft. of Clear Opening = (Clear opening width) x (Clear Opening Height) / 144

Glider Units

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
39-7/8	22-1/8	16-9/16	17-7/8	2.06
39-7/8	26-1/8	16-9/16	21-7/8	2.52
39-7/8	30-1/8	16-9/16	25-7/8	2.98
39-7/8	34-1/8	16-9/16	29-7/8	3.44
39-7/8	38-1/8	16-9/16	33-7/8	3.90
39-7/8	42-1/8	16-9/16	37-7/8	4.36
39-7/8	46-1/8	16-9/16	41-7/8	4.82
39-7/8	54-1/8	16-9/16	49-7/8	5.74
39-7/8	60-1/8	16-9/16	55-7/8	6.43
47-7/8	22-1/8	20-9/16	17-7/8	2.55
47-7/8	26-1/8	20-9/16	21-7/8	3.12
47-7/8	30-1/8	20-9/16	25-7/8	3.69
47-7/8	34-1/8	20-9/16	29-7/8	4.27
47-7/8	38-1/8	20-9/16	33-7/8	4.84
47-7/8	42-1/8	20-9/16	37-7/8	5.41
47-7/8	46-1/8	20-9/16	41-7/8	5.98
47-7/8	60-1/8	20-9/16	55-7/8	7.98
47-7/8	54-1/8	20-9/16	49-7/8	7.12
55-7/8	22-1/8	24-9/16	17-7/8	3.05
55-7/8	26-1/8	24-9/16	21-7/8	3.73
55-7/8	30-1/8	24-9/16	25-7/8	4.41
55-7/8	34-1/8	24-9/16	29-7/8	5.10
55-7/8	38-1/8	24-9/16	33-7/8	5.78
55-7/8	42-1/8	24-9/16	37-7/8	6.46
55-7/8	46-1/8	24-9/16	41-7/8	7.14

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
55-7/8	54-1/8	24-9/16	49-7/8	8.51
55-7/8	60-1/8	24-9/16	55-7/8	9.53
63-7/8	22-1/8	28-9/16	17-7/8	3.55
63-7/8	26-1/8	28-9/16	21-7/8	4.34
63-7/8	30-1/8	28-9/16	25-7/8	5.13
63-7/8	34-1/8	28-9/16	29-7/8	5.93
63-7/8	38-1/8	28-9/16	33-7/8	6.72
63-7/8	42-1/8	28-9/16	37-7/8	7.51
63-7/8	46-1/8	28-9/16	41-7/8	8.31
63-7/8	54-1/8	28-9/16	49-7/8	9.89
63-7/8	60-1/8	28-9/16	55-7/8	11.08
71-7/8	22-1/8	32-9/16	17-7/8	4.04
71-7/8	26-1/8	32-9/16	21-7/8	4.95
71-7/8	30-1/8	32-9/16	25-7/8	5.85
71-7/8	34-1/8	32-9/16	29-7/8	6.76
71-7/8	38-1/8	32-9/16	33-7/8	7.66
71-7/8	42-1/8	32-9/16	37-7/8	8.56
71-7/8	46-1/8	32-9/16	41-7/8	9.47
71-7/8	54-1/8	32-9/16	49-7/8	11.28
71-7/8	60-1/8	32-9/16	55-7/8	12.63

All dimensions $\pm 1/16"$

Clear opening Width = $\text{Box}/2 - 3-3/8"$

Clear Opening Height = $\text{Height} = \text{Box} - 4-1/4"$

Sq. Ft. of Clear Opening = $(\text{Clear opening width}) \times (\text{Clear Opening Height}) / 144$

Triple Glider Units

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
73-3/8	30-1/8	18-1/8	25-7/8	3.26
73-3/8	38-1/8	18-1/8	33-7/8	4.26
73-3/8	42-1/8	18-1/8	37-7/8	4.77
73-3/8	46-1/8	18-1/8	41-7/8	5.27
73-3/8	54-1/8	18-1/8	49-7/8	6.28
73-3/8	60-1/8	18-1/8	55-7/8	7.03
85-3/8	30-1/8	22-1/8	25-7/8	3.98
85-3/8	38-1/8	22-1/8	33-7/8	5.20
85-3/8	42-1/8	22-1/8	37-7/8	5.82
85-3/8	46-1/8	22-1/8	41-7/8	6.43
85-3/8	54-1/8	22-1/8	49-7/8	7.66
85-3/8	60-1/8	22-1/8	55-7/8	8.58
89-3/8	30-1/8	22-1/8	25-7/8	3.98
89-3/8	38-1/8	22-1/8	33-7/8	5.20

Box Size Width	Box Size Height	Clear Opening Width	Clear Opening Height	Square Ft. of Clear Opening
89-3/8	42-1/8	22-1/8	37-7/8	5.82
89-3/8	46-1/8	22-1/8	41-7/8	6.43
89-3/8	54-1/8	22-1/8	49-7/8	7.66
89-3/8	60-1/8	22-1/8	55-7/8	8.58
105-3/8	30-1/8	26-1/8	25-7/8	4.69
105-3/8	38-1/8	26-1/8	33-7/8	6.15
105-3/8	42-1/8	26-1/8	37-7/8	6.87
105-3/8	46-1/8	26-1/8	41-7/8	7.60
105-3/8	54-1/8	26-1/8	49-7/8	9.05
105-3/8	60-1/8	26-1/8	55-7/8	10.14

All dimensions $\pm 1/16"$

Clear opening Width = $\text{Box}/4 - 7/32"$

Clear Opening Height = $\text{Height} = \text{Box} - 4-1/4"$

Sq. Ft. of Clear Opening = $(\text{Clear opening width}) \times (\text{Clear Opening Height}) / 144$

Slide Patio Doors - Narrow Stile

Narrow Stile 6/6 Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	-	-	-	-	-
5/0	58-3/16	79-3/4	22-1/8	76-3/16	11.71
7/6	58-3/16	79-3/4	22-1/8	76-3/16	11.71
10/0	114-5/16	79-3/4	45 1/4	76-3/16	23.94
3/0*	-	-	-	-	-
6/0*	70-3/16	79-3/4	28-1/8	76-3/16	14.88
9/0*	70-3/16	79-3/4	28-1/8	76-3/16	14.88
12/0*	138-5/16	79-3/4	57 1/4	76-3/16	30.29
4/0	-	-	-	-	-
8/0	94-3/16	79-3/4	40-1/8	76-3/16	21.23
12/0	94-3/16	79-3/4	40-1/8	76-3/16	21.23
16/0	186-5/16	79-3/4	81 1/4	76-3/16	42.99

Narrow Stile 6/8 Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	-	-	-	-	-
5/0	58-3/16	82-3/4	22-1/8	79-3/16	12.17
7/6	58-3/16	82-3/4	22-1/8	79-3/16	12.17
10/0	114-5/16	82-3/4	45 1/4	79-3/16	24.88
3/0	-	-	-	-	-
6/0	76-3/16	82-3/4	31-1/8	79-3/16	17.12
9/0	76-3/16	82-3/4	31-1/8	79-3/16	17.12
12/0	150-5/16	82-3/4	63 1/4	79-3/16	34.78
4/0	-	-	-	-	-
8/0	94-3/16	82-3/4	40-1/8	79-3/16	22.07
12/0	94-3/16	82-3/4	40-1/8	79-3/16	22.07
16/0	186-5/16	82-3/4	81 1/4	79-3/16	44.68

Narrow Stile 8/0 Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	-	-	-	-	-
5/0	58-3/16	96 -5/8	22-1/8	93 1/16	14.30
7/6	58-3/16	96 -5/8	22-1/8	93 1/16	14.30
10/0	114-5/16	96 -5/8	45 1/4	93 1/16	29.24
3/0	-	-	-	-	-
6/0	76-3/16	96 -5/8	31-1/8	93 1/16	20.12
9/0	76-3/16	96 -5/8	31-1/8	93 1/16	20.12
12/0	150-5/16	96 -5/8	63 1/4	93 1/16	40.88
4/0	-	-	-	-	-
8/0	94-3/16	96 -5/8	40-1/8	93 1/16	25.93
12/0	94-3/16	96 -5/8	40-1/8	93 1/16	25.93
16/0	186-5/16	96 -5/8	81 1/4	93 1/16	52.51

All dimensions ± 1/16"

This data accurate as of 01/2019. Reference www.lincolnwindows.com for most current information.

Slide Patio Doors - Wide Stile

Wide Stile 6/6 Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	-	-	-	-	-
5/0	58-3/16	79 -3/4	20-13/16	76-3/16	11.01
7/6	58-3/16	79 -3/4	20-13/16	76-3/16	11.01
10/0	114-5/16	79 -3/4	42 -5/8	76-3/16	22.55
3/0*	-	-	-	-	-
6/0*	70-3/16	79 -3/4	26-13/16	76-3/16	14.19
9/0*	70-3/16	79 -3/4	26-13/16	76-3/16	14.19
12/0*	138-5/16	79 -3/4	54 -5/8	76-3/16	28.90
4/0	-	-	-	-	-
8/0	94-3/16	79 -3/4	38-13/16	76-3/16	20.53
12/0	94-3/16	79 -3/4	38-13/16	76-3/16	20.53
16/0	186-5/16	79 -3/4	78 -5/8	76-3/16	41.60

Wide Stile 6/8 Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	-	-	-	-	-
5/0	58-3/16	82 3/4	20-13/16	79-3/16	11.45
7/6	58-3/16	82 3/4	20-13/16	79-3/16	11.45
10/0	114-5/16	82 3/4	42 -5/8	79-3/16	23.44
3/0	-	-	-	-	-
6/0	76-3/16	82 3/4	29-13/16	79-3/16	16.39
9/0	76-3/16	82 3/4	29-13/16	79-3/16	16.39
12/0	150-5/16	82 3/4	60 -5/8	79-3/16	33.34
4/0	-	-	-	-	-
8/0	94-3/16	82 3/4	38-13/16	79-3/16	21.34
12/0	94-3/16	82 3/4	38-13/16	79-3/16	21.34
16/0	186-5/16	82 3/4	78 -5/8	79-3/16	43.24

Wide Stile 8/0 Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	-	-	-	-	-
5/0	58-3/16	96 -5/8	20-13/16	93 1/16	13.45
7/6	58-3/16	96 -5/8	20-13/16	93 1/16	13.45
10/0	114-5/16	96 -5/8	42 -5/8	93 1/16	27.55
3/0	-	-	-	-	-
6/0	76-3/16	96 -5/8	29-13/16	93 1/16	19.27
9/0	76-3/16	96 -5/8	29-13/16	93 1/16	19.27
12/0	150-5/16	96 -5/8	60 -5/8	93 1/16	39.18
4/0	-	-	-	-	-
8/0	94-3/16	96 -5/8	38-13/16	93 1/16	25.08
12/0	94-3/16	96 -5/8	38-13/16	93 1/16	25.08
16/0	186-5/16	96 -5/8	78 -5/8	93 1/16	50.81

All dimensions ± 1/16"

This data accurate as of 01/2019. Reference www.lincolnnwindows.com for most current information.

In-Swing Patio Doors

6/6 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31 -3/8	79 -1/8	26-13/16	75 7/8	14.13
2/8	33 -3/8	79 -1/8	28-13/16	75 7/8	15.18
3/0	37 -3/8	79 -1/8	32-13/16	75 7/8	17.29

6/8 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31 -3/8	82 -1/4	26-13/16	79	14.71
2/8	33 -3/8	82 -1/4	28-13/16	79	15.81
3/0	37 -3/8	82 -1/4	32-13/16	79	18.00

7/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31 -3/8	86 -1/4	26-13/16	83	15.45
2/8	33 -3/8	86 -1/4	28-13/16	83	16.61
3/0	37 -3/8	86 -1/4	32-13/16	83	18.91

8/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31 -3/8	98 -1/4	26-13/16	95	17.69
2/8	33 -3/8	98 -1/4	28-13/16	95	19.01
3/0	37 -3/8	98 -1/4	32-13/16	95	21.65

9/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31 -3/8	110 -1/4	26-13/16	107	19.92
2/8	33 -3/8	110 -1/4	28-13/16	107	21.41
3/0	37 -3/8	110 -1/4	32-13/16	107	24.38

Note: Clear Opening Width Based on Door Panel Open 90°

Add 1-3/4" to Width For Full Open Door

Add 7/8" To Height for Door with ADA Sill

Interior Jamb Extensions May Affect Clear Opening Widths Beyond 90°

In-Swing French Patio Doors

6/6 Height In-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	79 1/8	43 -3/8	75 7/8	22.85
5/0	61-15/16	79 1/8	55 -3/8	75 7/8	29.18
5/4	65-15/16	79 1/8	59 -3/8	75 7/8	31.29
6/0	73-15/16	79 1/8	67 -3/8	75 7/8	35.50

6/8 Height In-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	82 -1/4	43 -3/8	79	23.80
5/0	61-15/16	82 -1/4	55 -3/8	79	30.38
5/4	65-15/16	82 -1/4	59 -3/8	79	32.57
6/0	73-15/16	82 -1/4	67 -3/8	79	36.96

7/0 Height In-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	86 -1/4	43 -3/8	83	25.00
5/0	61-15/16	86 -1/4	55 -3/8	83	31.92
5/4	65-15/16	86 -1/4	59 -3/8	83	34.22
6/0	73-15/16	86 -1/4	67 -3/8	83	38.83

8/0 Height In-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	98 -1/4	43-3/8	95	28.62
5/0	61-15/16	98 -1/4	55-3/8	95	36.53
5/4	65-15/16	98 -1/4	59-3/8	95	39.17
6/0	73-15/16	98 -1/4	67-3/8	95	44.45

9/0 Height In-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	110-1/4	43 -3/8	107	32.23
5/0	61-15/16	110 -1/4	55 -3/8	107	41.15
5/4	65-15/16	110 -1/4	59 -3/8	107	44.12
6/0	73-15/16	110 -1/4	67-3/8	107	50.06

Note: Clear Opening Width Based on Both Door Panels Open 90°

Add 5" to Width For Full Open Door

Add 7/8" To Height for Door with ADA Sill

Interior Jamb Extensions May Affect Clear Opening Widths Beyond 90°

Out-Swing Patio Doors

6/6 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	79 1/8	26-7/8	75 15/16	14.17
2/8	33-3/8	79 1/8	28-7/8	75 15/16	15.23
3/0	37-3/8	79 1/8	32-7/8	75 15/16	17.34

6/8 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	82-1/4	26-7/8	79-1/16	14.76
2/8	33-3/8	82-1/4	28-7/8	79-1/16	15.85
3/0	37-3/8	82-1/4	32-7/8	79-1/16	18.05

7/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	86-1/4	26-7/8	83-1/16	15.50
2/8	33-3/8	86-1/4	28-7/8	83-1/16	16.66
3/0	37-3/8	86-1/4	32-7/8	83-1/16	18.96

8/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	98-1/4	26-7/8	95-1/16	17.74
2/8	33-3/8	98-1/4	28-7/8	95-1/16	19.06
3/0	37-3/8	98-1/4	32-7/8	95-1/16	21.70

9/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	110-1/4	26-7/8	107-1/16	19.98
2/8	33-3/8	110-1/4	28-7/8	107-1/16	21.47
3/0	37-3/8	110-1/4	32-7/8	107-1/16	24.44

Note: Clear Opening Width Based on Door Panel Open 90°

Add 1-1/2" to Width For Full Open Door

Add 1" To Height for Door with ADA Sill

Thickness of Exterior Sheeting May Affect Clear Opening Widths Beyond 90° (1 Wide and Jamb Hinged Multiples)

Brick Veneer Exterior May Affect Clear Opening Widths Beyond 90°

Out-Swing French Patio Doors

6/6 Height Out-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	79-1/8	43-5/16	75-15/16	22.84
5/0	61-15/16	79-1/8	55-5/16	75-15/16	29.17
5/4	65-15/16	79-1/8	59-5/16	75-15/16	31.28
6/0	73-15/16	79-1/8	67-5/16	75-15/16	35.50

6/8 Height Out-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	82-1/4	43-5/16	79-1/16	23.78
5/0	61-15/16	82-1/4	55-5/16	79-1/16	30.37
5/4	65-15/16	82-1/4	59-5/16	79-1/16	32.57
6/0	73-15/16	82-1/4	67-5/16	79-1/16	36.96

7/0 Height Out-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	86-1/4	43-5/16	83-1/16	24.98
5/0	61-15/16	86-1/4	55-5/16	83-1/16	31.91
5/4	65-15/16	86-1/4	59-5/16	83-1/16	34.21
6/0	73-15/16	86-1/4	67-5/16	83-1/16	38.83

8/0 Height Out-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	98-1/4	43-5/16	95-1/16	28.59
5/0	61-15/16	98-1/4	55-5/16	95-1/16	36.51
5/4	65-15/16	98-1/4	59-5/16	95-1/16	39.16
6/0	73-15/16	98-1/4	67-5/16	95-1/16	44.44

9/0 Height Out-Swing French Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	110-1/4	43-5/16	107-1/16	32.20
5/0	61-15/16	110-1/4	55-5/16	107-1/16	41.12
5/4	65-15/16	110-1/4	59-5/16	107-1/16	44.10
6/0	73-15/16	110-1/4	67-5/16	107-1/16	50.05

Note: Clear Opening Width Based on Door Panel Open 90°

Add 5-3/8" to Width For Full Open Door

Add 1" To Height for Door with ADA Sill

Thickness of Exterior Sheathing May Affect Clear Opening Widths Beyond 90° (1 Wide and Jamb Hinged Multiples)

Brick Veneer Exterior May Affect Clear Opening Widths Beyond 90°

In-Swing Patio Doors - 2-1/4" Panel

6/8 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	82-1/4	26-5/16	79	14.44
2/8	33-3/8	82-1/4	28-5/16	79	15.53
3/0	37-3/8	82-1/4	32-5/16	79	17.73
3/6	43-3/8	82-1/4	38-5/16	79	21.02

7/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	86-1/4	26-5/16	83	15.17
2/8	33-3/8	86-1/4	28-5/16	83	16.32
3/0	37-3/8	86-1/4	32-5/16	83	18.62
3/6	43-3/8	86-1/4	38-5/16	83	22.08

8/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	98-1/4	26-5/16	95	17.36
2/8	33-3/8	98-1/4	28-5/16	95	18.68
3/0	37-3/8	98-1/4	32-5/16	95	21.32
3/6	43-3/8	98-1/4	38-5/16	95	25.28

9/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	110-1/4	26-5/16	107	19.55
2/8	33-3/8	110-1/4	28-5/16	107	21.04
3/0	37-3/8	110-1/4	32-5/16	107	24.01
3/6	43-3/8	110-1/4	38-5/16	107	28.47

10/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	122-1/4	26-5/16	119	21.74
2/8	33-3/8	122-1/4	28-5/16	119	23.40
3/0	37-3/8	122-1/4	32-5/16	119	26.70
3/6	43-3/8	122-1/4	38-5/16	119	31.66

Note: Clear Opening Width Based on Door Panel Open 90°

Add 1-3/4" to Width For Full Open Door

Add 7/8" To Height for Door with ADA Sill

Interior Jamb Extensions May Affect Clear Opening Widths Beyond 90°

In-Swing French Patio Doors - 2-1/4" Panel

6/8 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
5/0	61-15/16	82-1/4	26-3/16	79	14.37
5/4	65-15/16	82-1/4	28-3/16	79	15.46
6/0	73-15/16	82-1/4	32-3/16	79	17.66
7/0	85-15/16	82-1/4	38-3/16	79	20.95

7/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
5/0	61-15/16	86-1/4	26-3/16	83	15.09
5/4	65-15/16	86-1/4	28-3/16	83	16.25
6/0	73-15/16	86-1/4	32-3/16	83	18.55
7/0	85-15/16	86-1/4	38-3/16	83	22.01

8/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
5/0	61-15/16	98-1/4	26-3/16	95	17.28
5/4	65-15/16	98-1/4	28-3/16	95	18.60
6/0	73-15/16	98-1/4	32-3/16	95	21.23
7/0	85-15/16	98-1/4	38-3/16	95	25.19

9/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
5/0	61-15/16	110-1/4	26-3/16	107	19.46
5/4	65-15/16	110-1/4	28-3/16	107	20.94
6/0	73-15/16	110-1/4	32-3/16	107	23.92
7/0	85-15/16	110-1/4	38-3/16	107	28.38

10/0 Height In-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
5/0	61-15/16	122-1/4	26-3/16	119	21.64
5/4	65-15/16	122-1/4	28-3/16	119	23.29
6/0	73-15/16	122-1/4	32-3/16	119	26.60
7/0	85-15/16	122-1/4	38-3/16	119	31.56

Out-Swing Patio Doors - 2-1/4" Panel

6/8 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	82-1/4	26-3/8	79-1/16	14.48
2/8	33-3/8	82-1/4	28-3/8	79-1/16	15.58
3/0	37-3/8	82-1/4	32-3/8	79-1/16	17.78
3/6	43-3/8	82-1/4	38-3/8	79-1/16	21.07

7/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	86-1/4	26-3/8	83-1/16	15.21
2/8	33-3/8	86-1/4	28-3/8	83-1/16	16.37
3/0	37-3/8	86-1/4	32-3/8	83-1/16	18.67
3/6	43-3/8	86-1/4	38-3/8	83-1/16	22.14

8/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	98-1/4	26-3/8	95-1/16	17.41
2/8	33-3/8	98-1/4	28-3/8	95-1/16	18.73
3/0	37-3/8	98-1/4	32-3/8	95-1/16	21.37
3/6	43-3/8	98-1/4	38-3/8	95-1/16	25.33

9/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	110-1/4	26-3/8	107-1/16	19.61
2/8	33-3/8	110-1/4	28-3/8	107-1/16	21.10
3/0	37-3/8	110-1/4	32-3/8	107-1/16	24.07
3/6	43-3/8	110-1/4	38-3/8	107-1/16	28.53

10/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
2/6	31-3/8	122-1/4	26-3/8	119-1/16	21.81
2/8	33-3/8	122-1/4	28-3/8	119-1/16	23.46
3/0	37-3/8	122-1/4	32-3/8	119-1/16	26.77
3/6	43-3/8	122-1/4	38-3/8	119-1/16	31.73

Note: Clear Opening Width Based on Door Panel Open 90°

Add 1-1/2" to Width For Full Open Door

Add 1" To Height for Door with ADA Sill

Thickness of Exterior Sheathing May Affect Clear Opening Widths Beyond 90° (1 Wide and Jamb Hinged Multiples)

Brick Veneer Exterior May Affect Clear Opening Widths Beyond 90°

Out-Swing French Patio Doors - 2-1/4" Panel

6/8 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	82-1/4	42-1/4	79-1/16	23.20
5/0	61-15/16	82-1/4	54-1/4	79-1/16	29.79
5/4	65-15/16	82-1/4	58-1/4	79-1/16	31.98
6/0	73-15/16	82-1/4	66-1/4	79-1/16	36.37
7/0	85-15/16	82-1/4	78-1/4	79-1/16	42.96

7/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	86-1/4	42-1/4	83-1/16	24.37
5/0	61-15/16	86-1/4	54-1/4	83-1/16	31.29
5/4	65-15/16	86-1/4	58-1/4	83-1/16	33.60
6/0	73-15/16	86-1/4	66-1/4	83-1/16	38.21
7/0	85-15/16	86-1/4	78-1/4	83-1/16	45.14

8/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	98-1/4	42-1/4	95-1/16	27.89
5/0	61-15/16	98-1/4	54-1/4	95-1/16	35.81
5/4	65-15/16	98-1/4	58-1/4	95-1/16	38.45
6/0	73-15/16	98-1/4	66-1/4	95-1/16	43.74
7/0	85-15/16	98-1/4	78-1/4	95-1/16	51.66

9/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	110-1/4	42-1/4	107-1/16	31.41
5/0	61-15/16	110-1/4	54-1/4	107-1/16	40.33
5/4	65-15/16	110-1/4	58-1/4	107-1/16	43.31
6/0	73-15/16	110-1/4	66-1/4	107-1/16	49.26
7/0	85-15/16	110-1/4	78-1/4	107-1/16	58.18

10/0 Height Out-Swing Doors

Unit Size	Box Size: Width	Box Size: Height	Clear Opening: Width	Clear Opening Height	Square Ft. of Clear Opening
4/0	49-15/16	122-1/4	42-1/4	119-1/16	34.93
5/0	61-15/16	122-1/4	54-1/4	119-1/16	44.86
5/4	65-15/16	122-1/4	58-1/4	119-1/16	48.16
6/0	73-15/16	122-1/4	66-1/4	119-1/16	54.78
7/0	85-15/16	122-1/4	78-1/4	119-1/16	64.70

Note: Clear Opening Width Based on Door Panel Open 90°

Add 5-3/8" to Width For Full Open Door

Add 1" To Height for Door with ADA Sill

Thickness of Exterior Sheathing May Affect Clear Opening Widths Beyond 90° (1 Wide and Jamb Hinged Multiples)

Brick Veneer Exterior May Affect Clear Opening Widths Beyond 90°



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