

CHAPTER 8

CLAD ULTIMATE DOUBLE HUNG

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NOTE:

Specifications and technical data are subject to change without notice.

Allow 1/16" (2) tolerance on all measurements.

Metric measurements are shown in parenthesis.

For accessories dimensions and applications see the Accessories section of this manual.

For technical assistance about Marvin products you may call our Architectural Hotline 1-800-346-3363 or visit our website: www.Marvin.com.

CLAD ULTIMATE DOUBLE HUNG

UNIT FEATURES

Frame:

- Interior: Pine wood interior standard. Optional white oak, cherry, mahogany, vertical grain Douglas fir
- Exterior: Extruded aluminum, .050" (1.3) thick
- Frame thickness: 1 1/16" (17) thick at the head, 1 3/32" (28) thick composite jambs, and 1 7/16" (37) thick at the sill
- Frame width: 4 9/16" (116)

Sash:

- Interior: Pine wood interior standard. Optional white oak, cherry, mahogany, vertical grain Douglas fir
- Exterior: Extruded aluminum, .050" (1.3) thick
- Composite sash thickness: 1 9/16" (40)
- Transom and Picture unit sash thickness: 1 7/8" (48)
- Operating sash are removable for cleaning

Interior and exterior finish:

- Interior finish: treated bare wood or white primed (pine only)
- Exterior finish: Two coat finish system using Kynar® or Hylar® resins, meets or exceeds AAMA 2605 requirements.
Standard Color: Stone White, Bahama Brown, Bronze, Pebble Gray, Evergreen. Select Color: Sierra White, Coconut Cream, French Vanilla, Cashmere, Desert Beige, Cumulus Gray, Cadet Gray, Ebony, Arctic White, Cascade Blue, Cobalt Blue, Hampton Sage, Sherwood Green and Wineberry. Contact your Marvin representative for details on custom colors.

Operating Hardware:

- Sash lock and keeper: Surface mounted, open style crescent cam lock with sash release lever. Color: Satin Taupe. Optional: White, Brass, Satin Chrome, Polished Chrome, Antique Brass, Bronze, Oil Rubbed Bronze, Satin Nickel
- Sash lift is optional: Color: Satin Taupe. Optional: White, Brass, Satin Chrome, Antique Brass, Bronze, Oil Rubbed Bronze, Satin Nickel
- Sash tilt lever: Satin Taupe lever for sash removal. Optional: White, Brass, Satin Chrome, Antique Brass, Bronze, Oil Rubbed Bronze, Satin Nickel.
- Balance system: Block and tackle balance system

Weather Stripping:

- Operating units: Continuous leaf weather strip at head jamb; dual bulb at check rail, weather strip and bottom rail. Color: Beige
- Picture units: Continuous weather strip at perimeter; leaf and bulb weather strip at jamb, bulb weather strip at head and sill

Jamb Extensions:

- Jamb extensions available for various wall thickness factory applied, finish to match interior

Insect Screens:

- Aluminum screen: Full screen standard, half screen optional. Standard Color: Stone White, Bahama Brown, Bronze, Pebble Gray, Evergreen. Select Color: Sierra White, Coconut Cream, French Vanilla, Cashmere, Desert Beige, Cumulus Gray, Cadet Gray, Ebony, Arctic White, Cascade Blue, Cobalt Blue, Hampton Sage, Sherwood Green and Wineberry. Contact your Marvin representative for details on custom colors.
- Screen mesh: 18 by 16 charcoal fiberglass, optional screen mesh: charcoal aluminum wire, black aluminum wire, bright aluminum wire, bright bronze wire

Combination Storm Sash and Screen:

- Frame: Extruded aluminum frame, .045" (1.1) thick. Color: Stone White, Bahama Brown, Bronze, Pebble Gray or Evergreen
- Storm panel: Select quality glass in and extruded aluminum frame. Color: Stone White, Bahama Brown, Bronze, Pebble Gray and Evergreen
- Insect screen: Screen mesh 18 by 16, charcoal aluminum wire, optional screen material: charcoal fiberglass mesh, black aluminum wire, bright aluminum wire, bright bronze wire
- Weather strip: Pile weather strip between operating panels and at stiles of main frame
- Hardware: Spring loaded latches to secure storm panel

Removable Interior Grilles:

- Bar: Pine, 3/4" (19) or 1 1/8" (29) wide bars
- Pattern: Rectangular, custom lite layouts available, contact your Marvin representative

Interior / Exterior Simulated Divided Lite (SDL):

- Interior bar: 7/8" (22) or 1 1/8" (29) wide bars. Pine wood standard, optional white oak, cherry, mahogany or vertical grain Douglas fir. Finish to match interior
- Extruded aluminum clad, 7/8" (22) or 1 1/8" (29) wide bars, finish to match exterior.
- Pattern: Rectangular, custom lite layouts available, contact your Marvin representative
- Installation method: Factory applied with acrylic foam tape

Grilles-between-the-glass (GBG):

- 11/16" (17mm) white contoured aluminum bar. Optional flat aluminum spacer bar, contact your Marvin representative

Glass and Glazing:

- Glazing method: Insulated
- Glazing seal: Silicon glazed
- Glazing type: Clear, Low E II with argon, laminated, solar tints, tempered, obscure, bronze tint. Gray tint, and Reflective Bronze
- Glazing will be altitude adjusted for higher elevations, argon gas not included

Accessories:

- Installation brackets: 6 3/8" (162), 9 3/8" (238), or 15 3/8" (390)
- Masonry brackets: 6" (152) or 10" (254)
- Nailing fin: Head jamb fin/drip cap, side jamb and sill fin. Head nailing fin with drip cap not designed to replace proper flashing
- Marvin SillGuard™
- Aluminum extrusions: Brick mould casing, Flat casing, Mullion cover, Frame expander, Mullion expander, Jamb extender

Note:

Values shown in parenthesis represent metric equivalents
For product specifications please refer to the CSI Product Specifications, contact your Marvin representative

CLAD ULTIMATE DOUBLE HUNG

NFRC VALUES / MINIMUM AND MAXIMUM MEASUREMENTS

NFRC Unit Values					
Glazing Type	U-Factor	R-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Energy Star
Double Hung / Single Hung					
Size Tested	47 x 59	47 x 59	47 x 59	47 x 59	
Insulating glass	0.48	2.08	0.55	0.58	-
Insulating glass - SDL	0.48	2.08	0.49	0.51	-
Insulating glass - SDL with spacer bars	0.49	2.04	0.49	0.51	-
Insulating Low E II glass	0.31	3.23	0.30	0.51	N, NC, SC, S
Insulating Low E II glass - SDL	0.35	2.86	0.27	0.45	N, NC, SC, S
Insulating Low E II glass - SDL with spacer bars	0.36	2.78	0.27	0.45	NC, SC, S
Insulating Low E II glass - Argon	0.31	3.23	0.30	0.51	N, NC, SC, S
Insulating Low E II glass - Argon, SDL	0.31	3.23	0.27	0.45	N, NC, SC, S
Insulating Low E II glass - Argon, SDL with spacer bars	0.32	3.13	0.27	0.45	N, NC, SC, S
Transom 3/4" IG					
Size Tested	47 x 59	47 x 59	47 x 59	47 x 59	
Insulating glass	0.47	2.13	0.60	0.63	-
Insulating glass - SDL	0.47	2.13	0.54	0.56	-
Insulating glass - SDL with spacer bars	0.47	2.13	0.54	0.56	-
Insulating Low E II glass	0.33	3.03	0.32	0.55	N, NC, SC, S
Insulating Low E II glass - SDL	0.33	3.03	0.29	0.49	N, NC, SC, S
Insulating Low E II glass - SDL with spacer bars	0.34	2.94	0.29	0.49	N, NC, SC, S
Insulating Low E II glass - Argon	0.29	3.45	0.32	0.55	N, NC, SC, S
Insulating Low E II glass - Argon, SDL	0.29	3.45	0.29	0.49	N, NC, SC, S
Insulating Low E II glass - Argon, SDL with spacer bars	0.30	3.33	0.29	0.49	N, NC, SC, S
Picture 1" IG					
Size Tested	48 x 48	48 x 48	48 x 48	48 x 48	
Insulating glass	0.46	2.17	0.56	0.59	-
Insulating glass - SDL	0.46	2.17	0.51	0.52	-
Insulating glass - SDL with spacer bars	0.47	2.13	0.51	0.52	-
Insulating Low E II glass	0.33	3.03	0.31	0.52	N, NC, SC, S
Insulating Low E II glass - SDL	0.33	3.03	0.28	0.46	N, NC, SC, S
Insulating Low E II glass - SDL with spacer bars	0.34	2.94	0.28	0.46	N, NC, SC, S
Insulating Low E II glass - Argon	0.30	3.33	0.31	0.52	N, NC, SC, S
Insulating Low E II glass - Argon, SDL	0.30	3.33	0.28	0.46	N, NC, SC, S
Insulating Low E II glass - Argon, SDL with spacer bars	0.31	3.23	0.28	0.46	N, NC, SC, S

NOTE:

Product Values are determined using the National Fenestration Rating Council (NFRC) Procedures for determining fenestration product values.

U-Value: (Btu/hr-sq ft-°F) Lower the U-Value, the greater the resistance to heat flow and better its insulating value.

R-Value: (1/U-Value) Higher the R-Value, the greater the resistance to heat flow and better its insulating value.

Visible Light Transmittance (VLT): Percentage of visible light transmitted through the unit.

Solar Heat Gain Coefficient (SHGC): The lower a window's SHGC, the less solar heat it transmits, and the greater its shading ability.

Capillary tubes are required for IG units at high elevations. Argon will not be furnished in units with capillary tubes. Contact the Architectural Department Hotline at (800-346-3363) for additional NFRC Unit Values.

Minimum and Maximum Measurements					
Glazing Type	Minimum RO Width	Minimum RO Height	Maximum RO Width	Maximum RO Height	Maximum Glass Square Feet
Double Hung					
Insulating Glass	14 3/8" (365)	24 7/8" (631)	46 3/8" (1178)	80 7/8" (2054)	10.0 Sq. Feet (0.9290 Sq. Meters)
Transom					
Insulating Glass	14 3/8" (365)	14 11/32" (364)	121" (3073)	60" (1524)	25.0 Sq. Feet (2.3225 Sq. Meters)
Picture					
Insulating Glass	14 3/8" (365)	15 17/32" (393)	121" (3073)	120 1/2" (3061)	49.0 Sq. Feet (4.55 Sq. Meters)

NOTE:

These minimum and maximum measurements are guidelines for configuring custom sized units, all measurements are specific to glass type. For assistance please contact our technical support hotline at 800-346-3363 or your Marvin representative.

CLAD ULTIMATE DOUBLE HUNG

DESIGN PRESSURE VALUES

Design Pressure Values - Double Hung									
Call #	16	20	24	26	28	30	32	36	40
	Width								
12	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
14	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
16	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
18	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
20	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
22	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
24	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
26	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40
28	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 30	DP 30	DP 30
30	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 30	DP 30	DP 30
32	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 30	DP 30	DP 30
34	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 30	DP 30	DP 30
36	DP 40	DP 40	DP 40	DP 40	DP 40	DP 40	DP 30	DP 30	DP 30

Design Pressure Values - Picture					
Call #	40	48	52	60	68
	Width				
38	DP 40	DP 40	DP 40	DP 40	DP 40
42	DP 40	DP 40	DP 40	DP 40	DP 40
46	DP 40	DP 40	DP 40	DP 40	DP 40
50	DP 40	DP 40	DP 40	DP 40	DP 40
54	DP 40	DP 40	DP 40	DP 40	DP 40
58	DP 40	DP 40	DP 40	DP 40	DP 40
62	DP 40	DP 40	DP 40	DP 40	DP 30
66	DP 40	DP 40	DP 40	DP 40	DP 30
70	DP 40	DP 40	DP 40	DP 40	DP 30
74	DP 40	DP 40	DP 40	DP 30	DP 30
78	DP 40	DP 40	DP 40	DP 30	DP 30

NOTE:
Design Pressure values represent Pounds Per Square Foot (PSF). Values indicated represent standard units only. Refer to the Product Performance and Information section for additional information on Design Pressures.

CLAD ULTIMATE DOUBLE HUNG

EGRESS, LITE AND VENT INFORMATION

Egress, Lite and Vent Measurements - Double Hung													
Call #	Total Square Feet	Clear Opening Width	Clear Opening Height	Floor to Sill Height	Vent Opening	Lite (Both Sash)	Call #	Total Square Feet	Clear Opening Width	Clear Opening Height	Floor to Sill Height	Vent Opening	Lite (Both Sash)
1612	1.30	18.07	10.34	52.38	1.30	2.27	3012	2.30	32.07	10.34	52.38	2.30	4.40
1614	1.55	18.07	12.34	48.38	1.55	2.68	3014	2.75	32.07	12.34	48.38	2.75	5.20
1616	1.80	18.07	14.34	44.38	1.80	3.10	3016	3.19	32.07	14.34	44.38	3.19	6.00
1618	2.05	18.07	16.34	40.38	2.05	3.51	3018	3.64	32.07	16.34	40.38	3.64	6.81
1620	2.30	18.07	18.34	36.38	2.30	3.93	3020	4.08	32.07	18.34	36.38	4.08	7.61
1622	2.55	18.07	20.34	32.38	2.55	4.34	3022	4.53	32.07	20.34	32.38	4.53	8.41
1624	2.80	18.07	22.34	28.38	2.80	4.76	3024	4.97	32.07	22.34	28.38	4.97	9.22
1626	3.05	18.07	24.34	24.38	3.05	5.17	3026	5.42	32.07	24.34	24.38	5.42	10.02
1628	3.30	18.07	26.34	20.38	3.30	5.59	3028*	5.86	32.07	26.34	20.38	5.86	10.83
1630	3.56	18.07	28.34	16.38	3.56	6.00	3030*	6.31	32.07	28.34	16.38	6.31	11.63
1632	3.81	18.07	30.34	12.38	3.81	6.42	3032*	6.76	32.07	30.34	12.38	6.76	12.43
1634	4.06	18.07	32.34	8.38	4.06	6.83	3034*	7.20	32.07	32.34	8.38	7.20	13.24
1636	4.31	18.07	34.34	4.38	4.31	7.25	3036*	7.65	32.07	34.34	4.38	7.65	14.04
2012	1.58	22.07	10.34	52.38	1.58	2.88	3212	2.45	34.07	10.34	52.38	2.45	4.70
2014	1.89	22.07	12.34	48.38	1.89	3.40	3214	2.92	34.07	12.34	48.38	2.92	5.56
2016	2.20	22.07	14.34	44.38	2.20	3.93	3216	3.39	34.07	14.34	44.38	3.39	6.42
2018	2.50	22.07	16.34	40.38	2.50	4.45	3218	3.86	34.07	16.34	40.38	3.86	7.28
2020	2.81	22.07	18.34	36.38	2.81	4.98	3220	4.34	34.07	18.34	36.38	4.34	8.14
2022	3.12	22.07	20.34	32.38	3.12	5.51	3222	4.81	34.07	20.34	32.38	4.81	9.00
2024	3.42	22.07	22.34	28.38	3.42	6.03	3224	5.28	34.07	22.34	28.38	5.28	9.86
2026	3.73	22.07	24.34	24.38	3.73	6.56	3226*	5.76	34.07	24.34	24.38	5.76	10.72
2028	4.04	22.07	26.34	20.38	4.04	7.09	3228*	6.23	34.07	26.34	20.38	6.23	11.57
2030	4.34	22.07	28.34	16.38	4.34	7.61	3230*	6.70	34.07	28.34	16.38	6.70	12.43
2032	4.65	22.07	30.34	12.38	4.65	8.14	3232*	7.18	34.07	30.34	12.38	7.18	13.29
2034	4.96	22.07	32.34	8.38	4.96	8.66	3234*	7.65	34.07	32.34	8.38	7.65	14.15
2036	5.26	22.07	34.34	4.38	5.26	9.19	3236*	8.12	34.07	34.34	4.38	8.12	15.01
2412	1.87	26.07	10.34	52.38	1.87	3.48	3612	2.73	38.07	10.34	52.38	2.73	5.31
2414	2.23	26.07	12.34	48.38	2.23	4.12	3614	3.26	38.07	12.34	48.38	3.26	6.28
2416	2.59	26.07	14.34	44.38	2.59	4.76	3616	3.79	38.07	14.34	44.38	3.79	7.25
2418	2.96	26.07	16.34	40.38	2.96	5.40	3618	4.32	38.07	16.34	40.38	4.32	8.22
2420	3.32	26.07	18.34	36.38	3.32	6.03	3620	4.85	38.07	18.34	36.38	4.85	9.19
2422	3.68	26.07	20.34	32.38	3.68	6.67	3622	5.38	38.07	20.34	32.38	5.38	10.16
2424	4.04	26.07	22.34	28.38	4.04	7.31	3624	5.90	38.07	22.34	28.38	5.90	11.13
2426	4.41	26.07	24.34	24.38	4.41	7.94	3626*	6.43	38.07	24.34	24.38	6.43	12.10
2428	4.77	26.07	26.34	20.38	4.77	8.58	3628*	6.96	38.07	26.34	20.38	6.96	13.07
2430	5.13	26.07	28.34	16.38	5.13	9.22	3630*	7.49	38.07	28.34	16.38	7.49	14.04
2432	5.49	26.07	30.34	12.38	5.49	9.86	3632*	8.02	38.07	30.34	12.38	8.02	15.01
2434*	5.85	26.07	32.34	8.38	5.85	10.49	3634*	8.55	38.07	32.34	8.38	8.55	15.98
2436*	6.22	26.07	34.34	4.38	6.22	11.13	3636*	9.08	38.07	34.34	4.38	9.08	16.95
2612	2.01	28.07	10.34	52.38	2.01	3.79	4012	3.02	42.07	10.34	52.38	3.02	5.91
2614	2.40	28.07	12.34	48.38	2.40	4.48	4014	3.60	42.07	12.34	48.38	3.60	7.00
2616	2.79	28.07	14.34	44.38	2.79	5.17	4016	4.19	42.07	14.34	44.38	4.19	8.08
2618	3.18	28.07	16.34	40.38	3.18	5.87	4018	4.77	42.07	16.34	40.38	4.77	9.16
2620	3.57	28.07	18.34	36.38	3.57	6.56	4020	5.36	42.07	18.34	36.38	5.36	10.24
2622	3.96	28.07	20.34	32.38	3.96	7.25	4022	5.94	42.07	20.34	32.38	5.94	11.32
2624	4.35	28.07	22.34	28.38	4.35	7.94	4024	6.52	42.07	22.34	28.38	6.52	12.40
2626	4.74	28.07	24.34	24.38	4.74	8.64	4026*	7.11	42.07	24.34	24.38	7.11	13.49
2628	5.13	28.07	26.34	20.38	5.13	9.33	4028*	7.69	42.07	26.34	20.38	7.69	14.57
2630	5.52	28.07	28.34	16.38	5.52	10.02	4030*	8.28	42.07	28.34	16.38	8.28	15.65
2632*	5.91	28.07	30.34	12.38	5.91	10.72	4032*	8.86	42.07	30.34	12.38	8.86	16.73
2634*	6.30	28.07	32.34	8.38	6.30	11.41	4034*	9.45	42.07	32.34	8.38	9.45	17.81
2636*	6.69	28.07	34.34	4.38	6.69	12.10	4036*	10.03	42.07	34.34	4.38	10.03	18.89
2812	2.16	30.07	10.34	52.38	2.16	4.09							
2814	2.58	30.07	12.34	48.38	2.58	4.84							
2816	2.99	30.07	14.34	44.38	2.99	5.59							
2818	3.41	30.07	16.34	40.38	3.41	6.34							
2820	3.83	30.07	18.34	36.38	3.83	7.09							
2822	4.25	30.07	20.34	32.38	4.25	7.83							
2824	4.66	30.07	22.34	28.38	4.66	8.58							
2826	5.08	30.07	24.34	24.38	5.08	9.33							
2828	5.50	30.07	26.34	20.38	5.50	10.08							
2830*	5.92	30.07	28.34	16.38	5.92	10.83							
2832*	6.33	30.07	30.34	12.38	6.33	11.57							
2834*	6.75	30.07	32.34	8.38	6.75	12.32							
2836*	7.17	30.07	34.34	4.38	7.17	13.07							

NOTE:

* These windows meet national egress codes for fire evacuation. Local codes may differ.

Floor to sill height is based on 6' - 10 1/4" from finished floor to rough opening header. Egress widths represent standard operating hardware.

International Building Code - 2000
Section 1009 Emergency Escape and Rescue

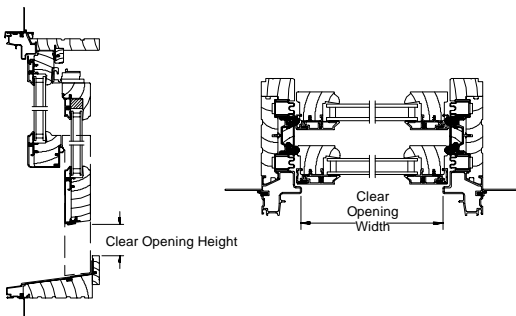
1009.2 Minimum size: Emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (0.53 m²). Exception: The minimum net clear opening for emergency escape and rescue openings on the ground level at grade is 5.0 square feet (0.46 m²).

1009.2.1 Minimum dimensions: The minimum net clear opening height dimension shall be 24 inches (610 mm). The net clear opening width dimension shall be 20 inches (508 mm). The net clear opening dimensions shall be the result of normal operation of the opening.

1009.3 Maximum height from the floor: Emergency escape and rescue opening shall have the bottom of the clear opening not greater than 44 inches (1118 mm) measured from the floor.

1009.4 Operational constraints: Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grilles, grates, or similar devices are permitted to be placed over emergency escape and rescue openings provided the minimum net clear opening size complies with Section 1009.2 and such devices shall be releasable or removable from the inside without the use of a key, tool, or force greater than that which is required for normal operation of the escape and rescue opening.

Code restrictions may vary depending on your local building codes.



CLAD ULTIMATE DOUBLE HUNG

MEASUREMENT CONVERSIONS

Measurement Conversions - Double Hung														
Size Referenced	Daylight Opening (DLO)	Glass Size (GS)	Frame Size	Rough Opening	Masonry Opening (Without Casing)	Masonry Opening (With Brick Mould Casing)	Masonry Opening (With Flat Casing)	Dimension Needed						
Daylight Opening (DLO)	Width		+ 1 1/16" (27)	Width	+ 6 7/16" (164)	Width	+ 7 7/16" (189)	Width	+ 6 15/16" (176)	Width	+ 9 9/16" (243)	Width	+ 12 15/16" (329)	
	Height		+ 1 1/16" (27)	Height	DLO x 2 + 10 1/2" (205)	Height	DLO x 2 + 11" (225)	Height	DLO x 2 + 10 3/4" (273)	Height	DLO x 2 + 12 11/16" (322)	Height	DLO x 2 + 14 3/8" (365)	
Glass Size (GS)	Width	- 1 1/16" (27)	Width		+ 5 3/8" (137)	Width	+ 6 3/8" (162)	Width	+ 5 7/8" (149)	Width	+ 8 1/2" (216)	Width	+ 11 7/8" (302)	
	Height	- 1 1/16" (27)	Height		GS x 2 + 8 3/8" (179)	Height	GS x 2 + 8 7/8" (225)	Height	GS x 2 + 8 5/8" (219)	Height	GS x 2 + 10 9/16" (268)	Height	GS x 2 + 12 1/4" (311)	
Frame Size	Width	- 6 7/16" (109)	Width	- 5 3/8" (136)	Width		+ 1" (25)	Width	+ 1/2" (13)	Width	+ 3 1/8" (79)	Width	+ 6 1/2" (165)	
	Height	- 10 1/2" + 2 (179)	Height	- 8 3/8" + 2 (179)	Height		+ 1/2" (13)	Height	+ 1/4" (19)	Height	+ 2 3/16" (56)	Height	+ 3 7/8" (98)	
Rough Opening	Width	- 7 7/16" (189)	Width	- 6 3/8" (162)	Width	- 1" (25)	Width		- 1/2" (13)	Width	+ 2 1/8" (54)	Width	+ 5 1/2" (140)	
	Height	- 11" + 2 (217)	Height	- 8 7/8" + 2 (225)	Height	- 1/2" (13)	Height		- 1/4" (6)	Height	+ 1 11/16" (43)	Height	+ 3 3/8" (86)	
Masonry Opening (Without Casing)	Width	- 6 15/16" (176)	Width	- 5 7/8" (149)	Width	- 1/2" (13)	Width	+ 1/2" (13)	Width		+ 2 5/8" (67)	Width	+ 6" (152)	
	Height	- 10 3/4" + 2 (273)	Height	- 8 5/8" + 2 (219)	Height	- 1/4" (6)	Height	+ 1/4" (6)	Height		+ 1 15/16" (49)	Height	+ 3 5/8" (92)	
Masonry Opening (With Brick Mould Casing)	Width	- 9 9/16" (243)	Width	- 8 1/2" (216)	Width	- 3 1/8" (79)	Width	- 2 1/8" (54)	Width	- 2 5/8" (67)	Width		+ 3 3/8" (86)	
	Height	- 12 11/16" + 2 (322)	Height	- 10 9/16" + 2 (268)	Height	- 2 3/16" (56)	Height	- 1 11/16" (43)	Height	- 1 15/16" (49)	Height		+ 1 11/16" (43)	
Masonry Opening (With Flat Casing)	Width	- 12 15/16" (329)	Width	- 11 7/8" (302)	Width	- 6 1/2" (165)	Width	- 5 1/2" (140)	Width	- 6" (152)	Width	- 3 3/8" (86)	Width	
	Height	- 14 3/8" + 2 (365)	Height	- 12 1/4" + 2 (311)	Height	- 3 7/8" (98)	Height	- 3 3/8" (86)	Height	- 3 5/8" (92)	Height	- 1 11/16" (43)	Height	

NOTE:
Conversions represent units without dividers. Contact Marvin's for additional conversions.

Egress Conversions

Glass Size Width + 2 1/16", Glass Size Height - 1 5/8"
Rough Opening Width - 4 5/16", Rough Opening Height + 2 - 6 3/32"

CLAD ULTIMATE DOUBLE HUNG

MEASUREMENT CONVERSIONS

Measurement Conversions - Transom													
Size Referenced	Daylight Opening	Glass Size		Frame Size		Rough Opening		Masonry Opening (Without Casing)		Masonry Opening (With Brick Mould Casing)		Masonry Opening (With Flat Casing)	
Daylight Opening	Dimension Needed												
			Width	+ 1 1/16" (27)	Width	+ 6 7/16" (164)	Width	+ 7 7/16" (189)	Width	+ 6 15/16" (176)	Width	+ 9 9/16" (243)	Width
		Height	+ 1 1/16" (27)	Height	+ 6 3/4" (171)	Height	+ 7 1/4" (184)	Height	+ 7 " (178)	Height	+ 8 15/16" (227)	Height	+ 10 5/8" (270)
Glass Size	Width	- 1 1/16" (27)		Width	+ 5 3/8" (137)	Width	+ 6 3/8" (162)	Width	+ 5 7/8" (149)	Width	+ 8 1/2" (216)	Width	+ 11 7/8" (302)
	Height	- 1 1/16" (27)		Height	+ 5 11/16" (144)	Height	+ 6 3/16" (157)	Height	+ 5 15/16" (151)	Height	+ 7 7/8" (200)	Height	+ 9 9/16" (243)
Frame Size	Width	- 6 7/16" (164)	Width	- 5 3/8" (136)		Width	+ 1 " (25)	Width	+ 1/2" (13)	Width	+ 3 1/8" (79)	Width	+ 6 1/2" (165)
	Height	- 6 3/4" (171)	Height	- 5 11/16" (144)		Height	+ 1/2" (13)	Height	+ 1/4" (6)	Height	+ 2 3/16" (56)	Height	+ 3 7/8" (98)
Rough Opening	Width	- 7 7/16" (189)	Width	- 6 3/8" (162)	Width	- 1 " (25)		Width	- 1/2" (13)	Width	+ 2 1/8" (54)	Width	+ 5 1/2" (140)
	Height	- 7 1/4" (184)	Height	- 6 3/16" (157)	Height	- 1/2" (13)		Height	- 1/4" (6)	Height	+ 1 11/16" (43)	Height	+ 3 3/8" (86)
Masonry Opening (Without Casing)	Width	- 6 15/16" (176)	Width	- 5 7/8" (149)	Width	- 1/2" (13)	Width	+ 1/2" (13)		Width	+ 2 5/8" (67)	Width	+ 6 " (152)
	Height	- 7 " (178)	Height	- 5 5/16" (151)	Height	- 1/4" (6)	Height	+ 1/4" (6)		Height	+ 1 15/16" (49)	Height	+ 3 5/8" (92)
Masonry Opening (With Brick Mould Casing)	Width	- 9 9/16" (243)	Width	- 8 1/2" (216)	Width	- 3 1/8" (79)	Width	- 2 1/8" (54)	Width	- 2 5/8" (67)		Width	+ 3 3/8" (86)
	Height	- 8 15/16" (227)	Height	- 7 7/8" (200)	Height	- 2 3/16" (56)	Height	- 1 11/16" (43)	Height	- 1 15/16" (49)		Height	+ 1 11/16" (43)
Masonry Opening (With Flat Casing)	Width	- 12 15/16" (329)	Width	- 11 7/8" (302)	Width	- 6 1/2" (165)	Width	- 5 1/2" (140)	Width	- 6 " (152)	Width	- 3 3/8" (86)	
	Height	- 10 5/8" (270)	Height	- 9 9/16" (243)	Height	- 3 7/8" (98)	Height	- 3 3/8" (86)	Height	- 3 5/8" (92)	Height	- 1 11/16" (43)	

NOTE:
Conversions represent units without dividers. Contact your Marvin representative for additional conversions.

CLAD ULTIMATE DOUBLE HUNG

Built around you.™

MEASUREMENT CONVERSIONS

Measurement Conversions - Picture													
Size Referenced	Daylight Opening	Glass Size		Frame Size		Rough Opening		Masonry Opening (Without Casing)		Masonry Opening (With Brick Mould Casing)		Masonry Opening (With Flat Casing)	
Daylight Opening	Dimension Needed												
			Width	+ 1 1/16" (27)	Width	+ 6 7/16" (164)	Width	+ 7 7/16" (189)	Width	+ 6 15/16" (176)	Width	+ 9 9/16" (243)	Width
		Height	+ 1 1/16" (27)	Height	+ 8 3/32" (206)	Height	+ 8 19/32" (218)	Height	+ 8 11/32" (212)	Height	+ 10 9/32" (261)	Height	+ 11 31/32" (304)
Glass Size	Width	- 1 1/16" (27)		Width	+ 5 3/8" (136)	Width	+ 6 3/8" (162)	Width	+ 5 7/8" (149)	Width	+ 8 1/2" (216)	Width	+ 11 7/8" (302)
	Height	- 1 1/16" (27)		Height	+ 7 1/32" (179)	Height	+ 7 17/32" (191)	Height	+ 7 9/32" (185)	Height	+ 9 7/32" (234)	Height	+ 10 29/32" (277)
Frame Size	Width	- 6 7/16" (164)	Width	- 5 3/8" (136)		Width	+ 1" (25)	Width	+ 1/2" (13)	Width	+ 3 1/8" (79)	Width	+ 6 1/2" (165)
	Height	- 8 3/32" (206)	Height	- 7 1/32" (179)		Height	+ 1/2" (13)	Height	+ 1/4" (6)	Height	+ 2 3/16" (56)	Height	+ 3 7/8" (98)
Rough Opening	Width	- 7 7/16" (189)	Width	- 6 3/8" (162)	Width	- 1" (25)		Width	- 1/2" (13)	Width	+ 2 1/8" (54)	Width	+ 5 1/2" (140)
	Height	- 8 19/32" (218)	Height	- 7 17/32" (191)	Height	- 1/2" (13)		Height	- 1/4" (6)	Height	+ 1 11/16" (43)	Height	+ 3 3/8" (86)
Masonry Opening (Without Casing)	Width	- 6 15/16" (176)	Width	- 5 7/8" (149)	Width	- 1/2" (13)	Width	+ 1/2" (13)		Width	+ 2 5/8" (67)	Width	+ 6" (152)
	Height	- 8 11/32" (212)	Height	- 7 9/32" (185)	Height	- 1/4" (6)	Height	+ 1/4" (6)		Height	+ 1 15/16" (49)	Height	+ 3 5/8" (92)
Masonry Opening (With Brick Mould Casing)	Width	- 9 9/16" (243)	Width	- 8 1/2" (216)	Width	- 3 1/8" (79)	Width	- 2 1/8" (54)	Width	- 2 5/8" (67)		Width	+ 3 3/8" (86)
	Height	- 10 9/32" (261)	Height	- 9 7/32" (234)	Height	- 2 3/16" (56)	Height	- 1 11/16" (43)	Height	- 1 15/16" (49)		Height	+ 1 11/16" (43)
Masonry Opening (With Flat Casing)	Width	- 12 15/16" (329)	Width	- 11 7/8" (302)	Width	- 6 1/2" (165)	Width	- 5 1/2" (140)	Width	- 6" (152)	Width	- 3 3/8" (86)	
	Height	- 11 31/32" (304)	Height	- 10 29/32" (277)	Height	- 3 7/8" (98)	Height	- 3 3/8" (86)	Height	- 3 5/8" (92)	Height	- 1 11/16" (43)	

NOTE:
Conversions represent units without dividers. Contact Marvin's for additional conversions.

CLAD ULTIMATE DOUBLE HUNG

ELEVATIONS: OPERATOR

NOT TO SCALE

CAUTION: It is recommended that a minimum of 1/4" be added to the rough opening height when using a rigid sill pan product such as Marvin SillGuard™.

Mas. Opg.	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opg.	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size	16" (406)	20" (508)	24" (610)	26" (660)	28" (711)	30" (762)	32" (813)	36" (914)	40" (1016)

2-8 5/8 (829) 2-8 7/8 (835) 2-8 3/8 (822) 12" (305)									
	CUDH1612	CUDH2012	CUDH2412	CUDH2612	CUDH2812	CUDH3012	CUDH3212	CUDH3612	CUDH4012
3-0 5/8 (930) 3-0 7/8 (937) 3-0 3/8 (924) 14" (356)									
	CUDH1614	CUDH2014	CUDH2414	CUDH2614	CUDH2814	CUDH3014	CUDH3214	CUDH3614	CUDH4014
3-4 5/8 (1032) 3-4 7/8 (1038) 3-4 3/8 (1026) 16" (406)									
	CUDH1616	CUDH2016	CUDH2416	CUDH2616	CUDH2816	CUDH3016	CUDH3216	CUDH3616	CUDH4016
3-8 5/8 (1133) 3-8 7/8 (1140) 3-8 3/8 (1127) 18" (457)									
	CUDH1618	CUDH2018	CUDH2418	CUDH2618	CUDH2818	CUDH3018	CUDH3218	CUDH3618	CUDH4018
4-0 5/8 (1235) 4-0 7/8 (1241) 4-0 3/8 (1229) 20" (508)									
	CUDH1620	CUDH2020	CUDH2420	CUDH2620	CUDH2820	CUDH3020	CUDH3220	CUDH3620	CUDH4020
4-4 5/8 (1337) 4-4 7/8 (1343) 4-4 3/8 (1330) 22" (559)									
	CUDH1622	CUDH2022	CUDH2422	CUDH2622	CUDH2822	CUDH3022	CUDH3222	CUDH3622	CUDH4022
4-8 5/8 (1438) 4-8 7/8 (1445) 4-8 3/8 (1432) 24" (610)									
	CUDH1624	CUDH2024	CUDH2424	CUDH2624	CUDH2824	CUDH3024	CUDH3224	CUDH3624	CUDH4024
5-0 5/8 (1540) 5-0 7/8 (1546) 5-0 3/8 (1534) 26" (660)									
	CUDH1626	CUDH2026	CUDH2426	CUDH2626	CUDH2826	CUDH3026	CUDH3226*	CUDH3626*	CUDH4026*
5-4 5/8 (1641) 5-4 7/8 (1648) 5-4 3/8 (1635) 28" (711)									
	CUDH1628	CUDH2028	CUDH2428	CUDH2628	CUDH2828	CUDH3028*	CUDH3228*	CUDH3628*	CUDH4028*
5-8 5/8 (1743) 5-8 7/8 (1749) 5-8 3/8 (1737) 30" (762)									
	CUDH1630	CUDH2030	CUDH2430	CUDH2630	CUDH2830*	CUDH3030*	CUDH3230*	CUDH3630*	CUDH4030*
6-0 5/8 (1845) 6-0 7/8 (1851) 6-0 3/8 (1838) 32" (813)									
	CUDH1632	CUDH2032	CUDH2432	CUDH2632*	CUDH2832*	CUDH3032*	CUDH3232*	CUDH3632*	CUDH4032*
6-4 5/8 (1946) 6-4 7/8 (1953) 6-4 3/8 (1940) 34" (864)									
	CUDH1634	CUDH2034	CUDH2434*	CUDH2634*	CUDH2834*	CUDH3034*	CUDH3234*	CUDH3634*	CUDH4034*
6-8 5/8 (2048) 6-8 7/8 (2054) 6-8 3/8 (2042) 36" (914)									
	CUDH1636	CUDH2036	CUDH2436*	CUDH2636*	CUDH2836*	CUDH3036*	CUDH3236*	CUDH3636*	CUDH4036*

* These units meet national egress codes for fire evacuation. Local codes may differ. See egress chart for additional information.

CLAD ULTIMATE DOUBLE HUNG

ELEVATIONS - PICTURE

NOT TO SCALE

CAUTION: It is recommended that a minimum of 1/4" be added to the rough opening height when using a rigid sill pan product such as Marvin SillGuard™.

Mas. Opg.	3-5 7/8 (1064)	4-1 7/8 (1267)	4-5 7/8 (1368)	5-1 7/8 (1572)	5-9 7/8 (1775)
Rgh. Opg.	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
Frame Size	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
Sash Opg.	3-4 (1016)	4-0 (1219)	4-4 (1321)	5-0 (1524)	5-8 (1727)
3-4 5/8 (1032) 3-4 7/8 (1038) 3-4 7/8 (1026) 3-4 3/8 (965)					
3-4 5/8 (1133) 3-4 5/8 (1140) 3-4 3/8 (1127) 3-2 (1067)					
3-8 5/8 (1235) 3-8 7/8 (1241) 3-8 3/8 (1229) 3-6 (1168)					
4-4 5/8 (1337) 4-4 7/8 (1343) 4-4 3/8 (1330) 4-2 (1270)					
4-8 5/8 (1438) 4-8 7/8 (1445) 4-8 3/8 (1432) 4-6 (1372)					
5-0 5/8 (1540) 5-0 7/8 (1546) 5-0 3/8 (1534) 4-10 (1473)					
5-4 5/8 (1641) 5-4 7/8 (1648) 5-4 3/8 (1635) 5-2 (1575)					
5-8 5/8 (1743) 5-8 7/8 (1749) 5-8 3/8 (1737) 5-6 (1676)					
6-0 5/8 (1845) 6-0 7/8 (1851) 6-0 3/8 (1838) 5-10 (1778)					
6-4 5/8 (1946) 6-4 7/8 (1953) 6-4 3/8 (1940) 6-2 (1880)					
6-8 5/8 (2048) 6-8 7/8 (2054) 6-8 3/8 (2042) 6-6 (1981)					

CLAD ULTIMATE DOUBLE HUNG

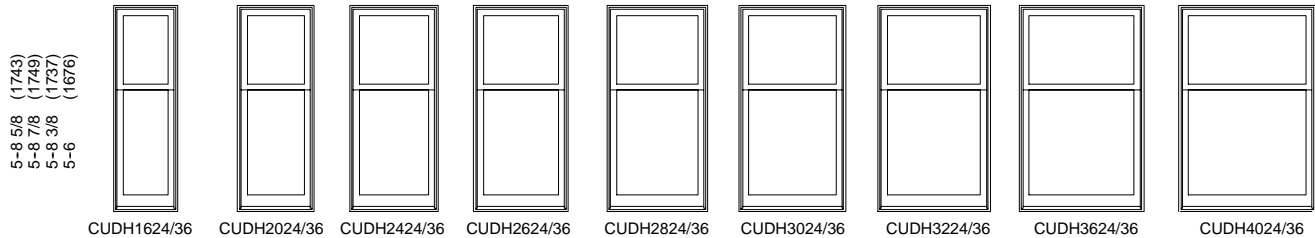
ELEVATIONS

NOT TO SCALE

CAUTION: It is recommended that a minimum of 1/4" be added to the rough opening height when using a rigid sill pan product such as Marvin SillGuard™.

Cottage Style Units

Mas. Opp.	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opp.	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Sash Opp.	1-8 (508)	2-0 (610)	2-4 (711)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	3-4 (1016)	3-8 (1118)



NOTE: The following formula will properly size a STANDARD cottage style double hung:

Formula

1. Select the standard size double hung that will fit the rough opening:
2. Add the top and bottom glass heights together:
3. Divide the total glass height by the ratio of the top sash:
4. Round to the nearest standard glass height:
5. Subtract from total glass height:
6. The call number for the example is: **CUDH2420/28**:

Example

CUDH with a 2/5-3/5 cottage style. If the rough opening is 2' 6-3/8" X 4' 8-7/8" the standard size for that RO is: CUDH2424

$$24" + 24" = 48"$$

$$48" \text{ divided by } 2/5 = 19-13/64"$$

20"

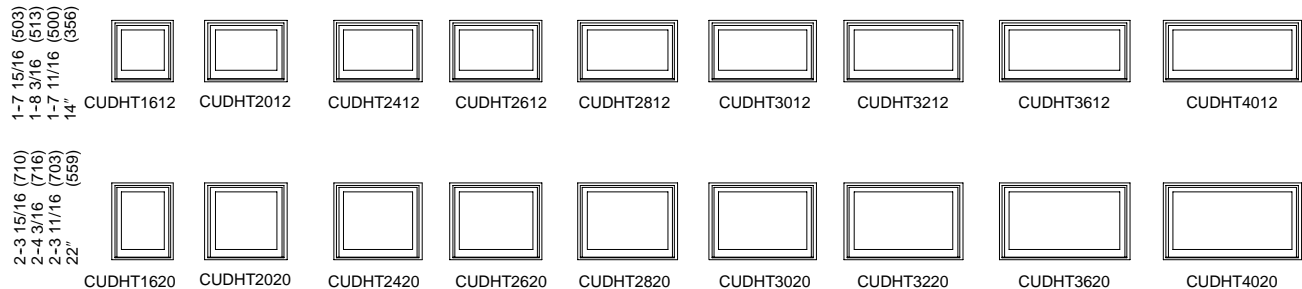
$$48" - 20" = 28"$$

The top sash will be a 2420 and the bottom sash will be a 2428

CAUTION: It is recommended that a minimum of 1/4" be added to the rough opening height when using a rigid sill pan product such as Marvin SillGuard™.

Transom Units

Mas. Opp.	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opp.	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size	16" (406)	20" (508)	24" (610)	26" (660)	28" (711)	30" (762)	32" (813)	36" (914)	40" (1016)

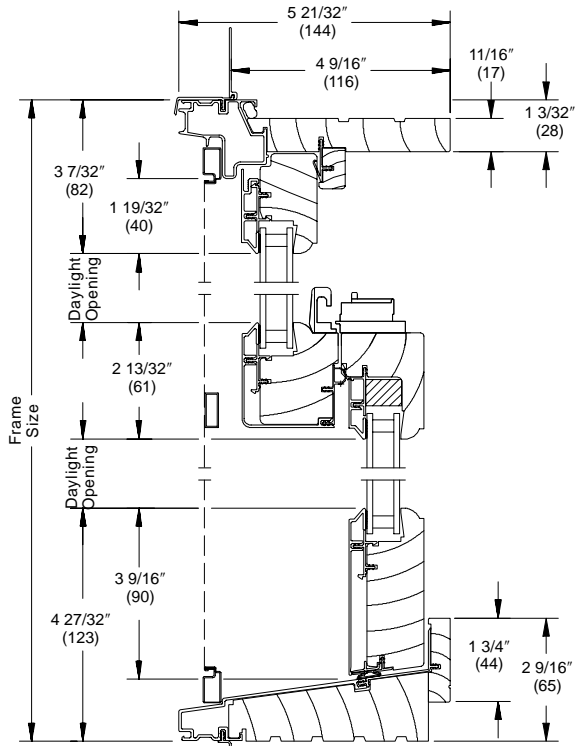


CLAD ULTIMATE DOUBLE HUNG

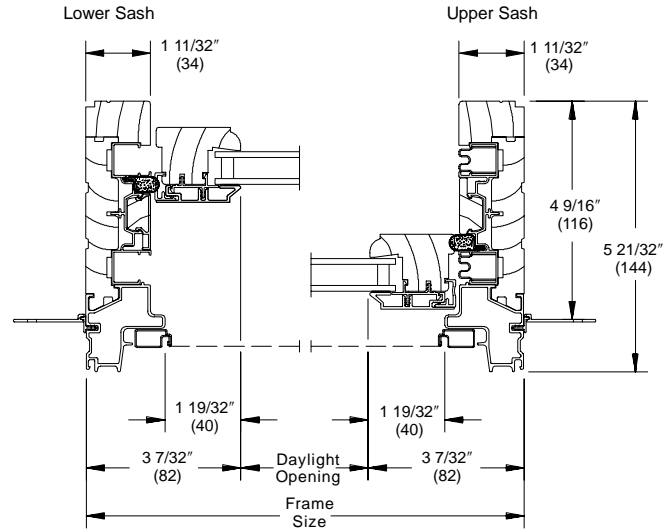
SECTION DETAILS: OPERATING ONLY

SCALE: 3" = 1' 0"

Double Hung

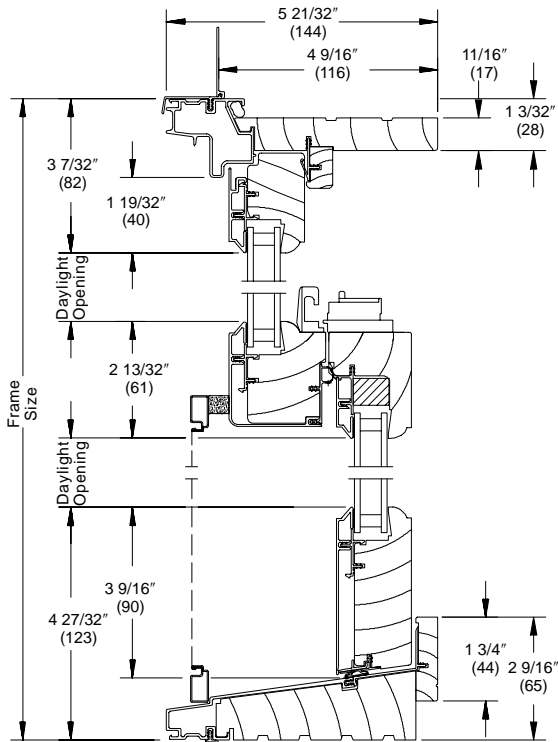


Head Jamb and Sill

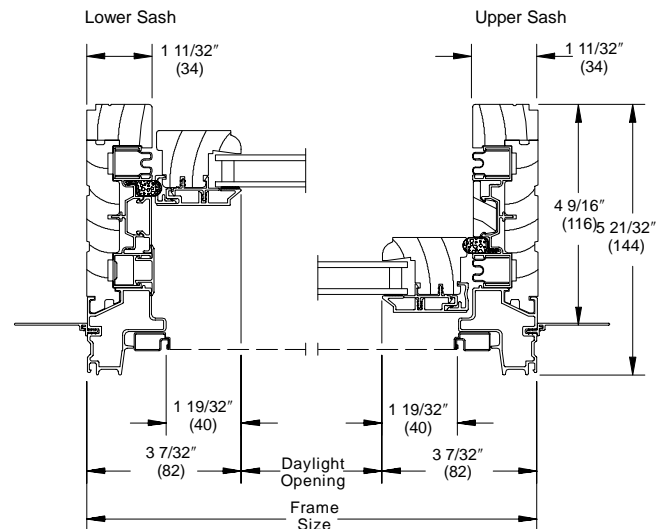


Double Hung Jamb
Lower and upper sash

Single Hung



Head Jamb and Sill



Single Hung Jamb
Lower and upper sash

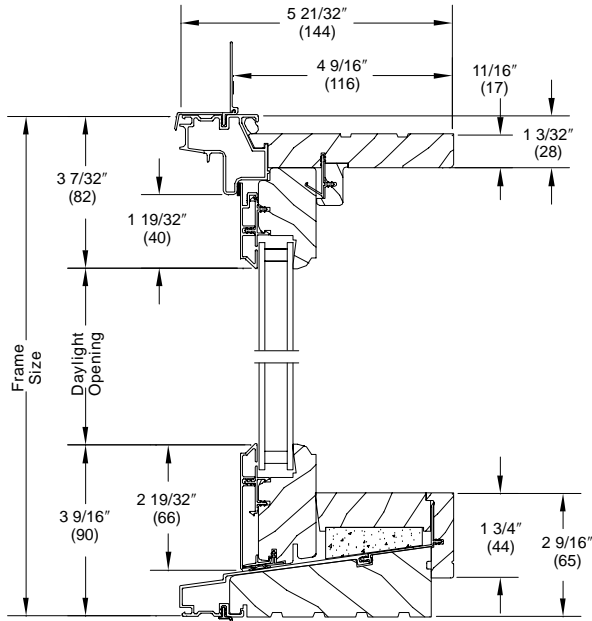
NOTE:
Optional half screen shown.

CLAD ULTIMATE DOUBLE HUNG

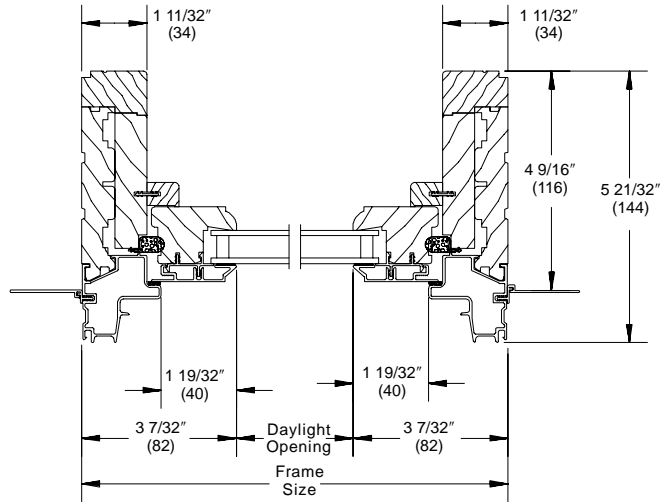
SECTION DETAILS: TRANSOM / PICTURE

SCALE: 3" = 1' 0"

Transom

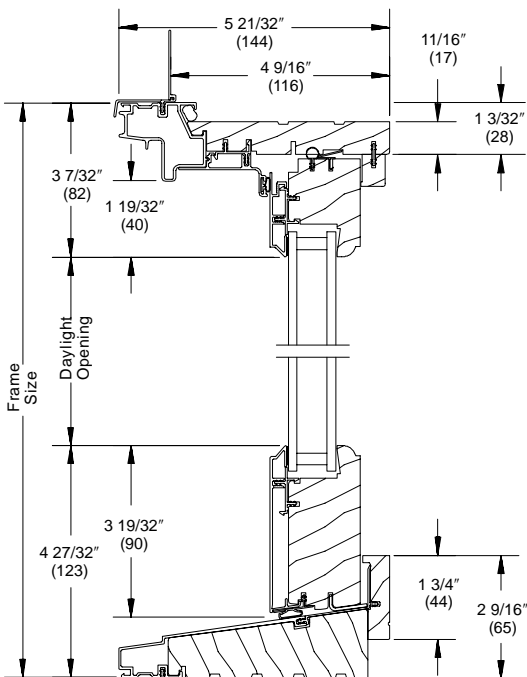


Head Jamb and Sill

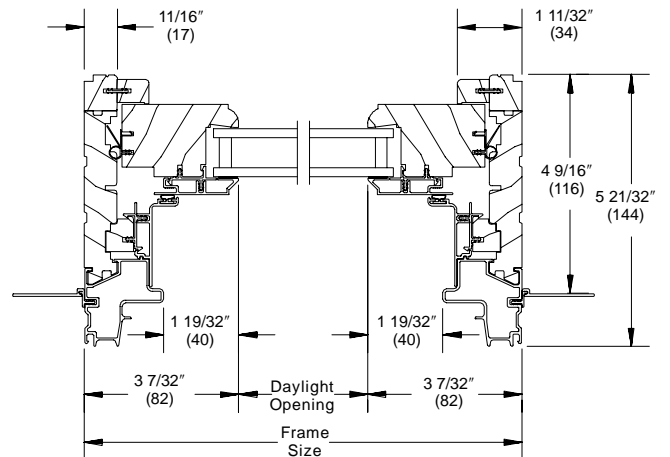


Jambs

2" Picture



Head Jamb and Sill



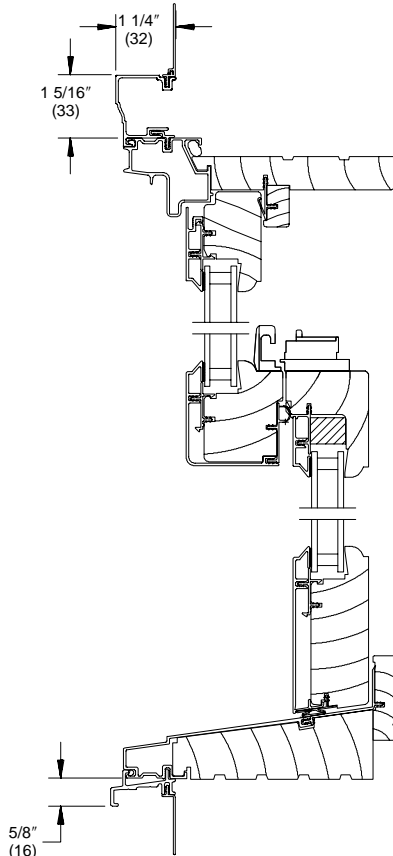
Jambs

CLAD ULTIMATE DOUBLE HUNG

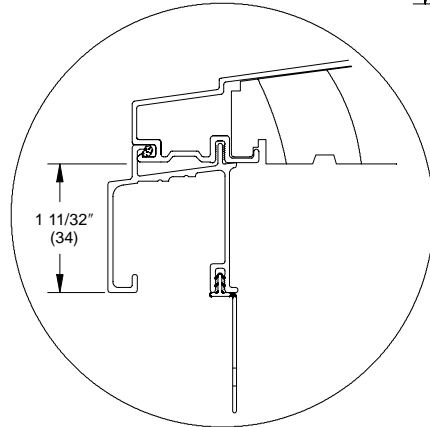
SECTION DETAILS: CASINGS / COMBINATION

SCALE: 3" = 1' 0"

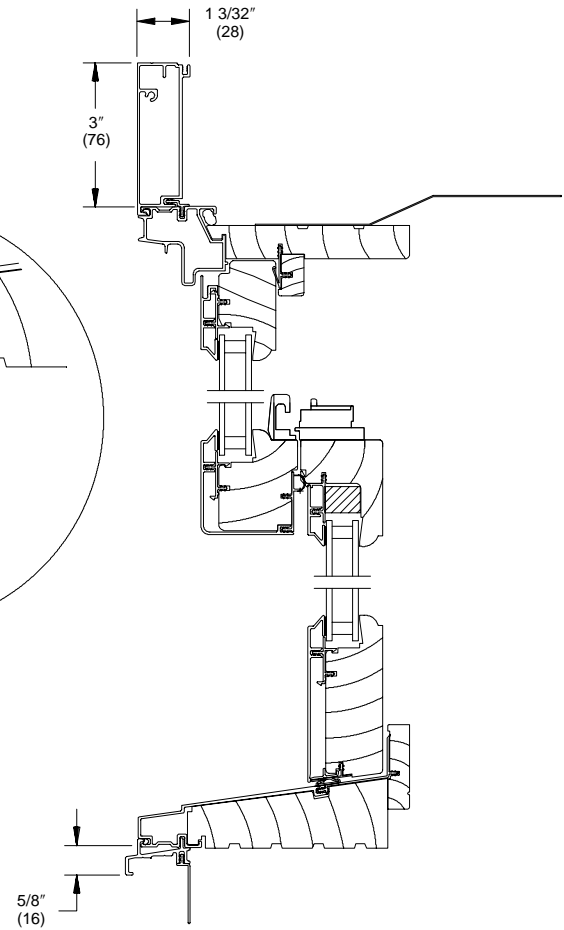
Casing Options



Head Jamb and Sill
with Clad Brick Mould Casing

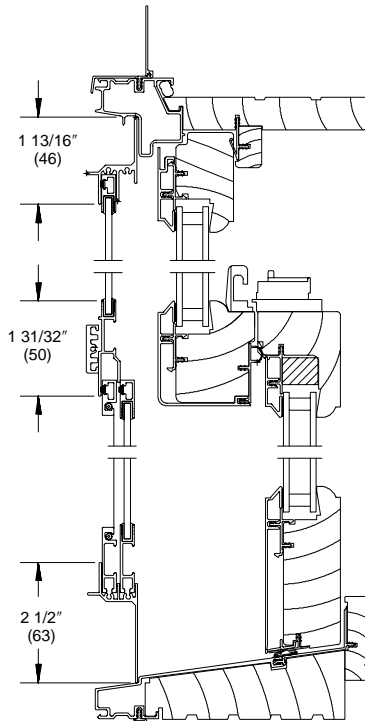


Sill with 2"
extruded subsill

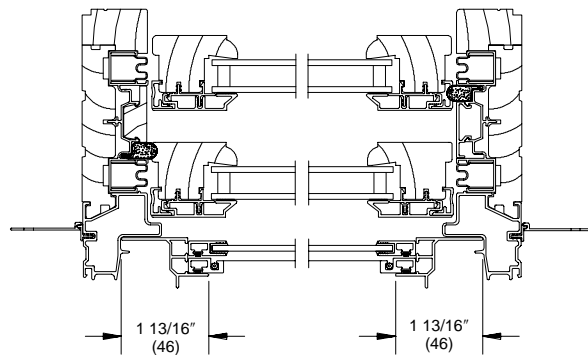


Head Jamb and Sill
with Clad Flat Casing

Combination



Head and Sill

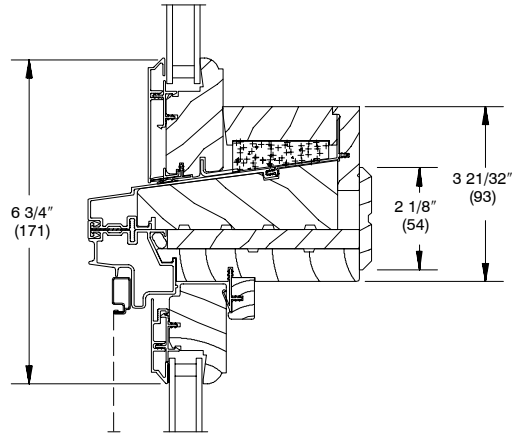


Jambs

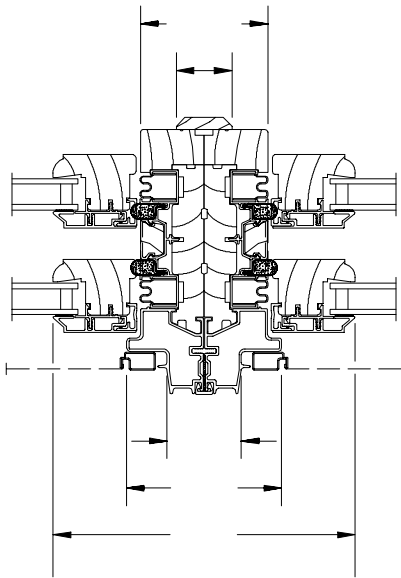
CLAD ULTIMATE DOUBLE HUNG

SECTION DETAILS

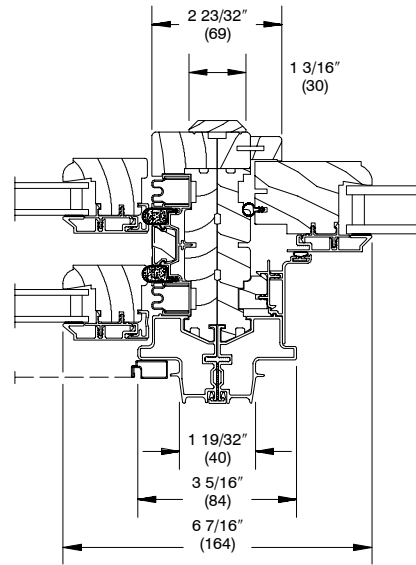
SCALE: 3" = 1' 0"



Horizontal Mullion
Transom over Double Hung

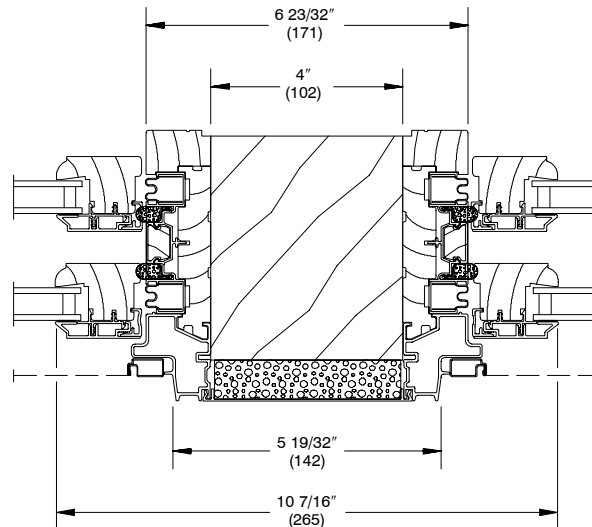


Vertical Mullion
Double Hung
Frame to Frame



Vertical Mullion
Double Hung and Picture
Frame to Frame

NOTE:
Interior trim
supplied by Marvin
applied by others



Vertical Mullion
Double Hung with 4" Space Mull

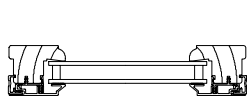
NOTE:
For information on structural mullions
refer to the Product Performance and
Information section.

CLAD ULTIMATE DOUBLE HUNG

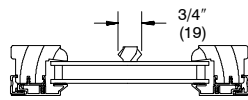
DIVIDED LITE OPTIONS

NOT TO SCALE

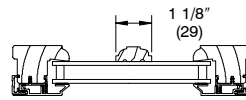
Operator Insulating Glass



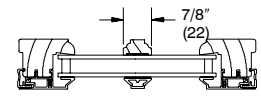
Insulating Glass



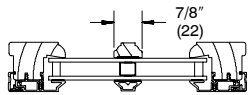
3/4" Grille



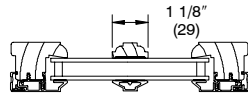
1 1/8" Grille



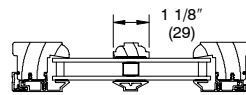
7/8" SDL
without Spacer Bar



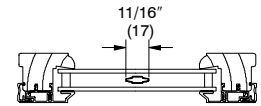
7/8" SDL
with Spacer Bar



1 1/8" SDL
without Spacer Bar

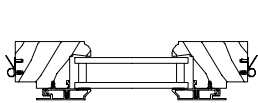


1 1/8" SDL
with Spacer Bar

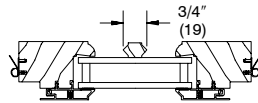


Aluminum
Grille between Glass

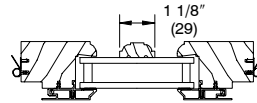
Picture 2\" Sash and Transom



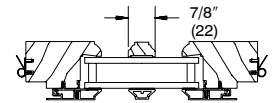
Insulating Glass



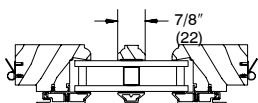
3/4" Grille



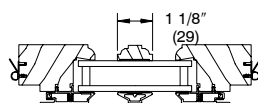
1 1/8" Grille



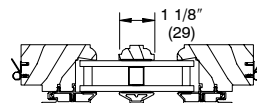
7/8" SDL
without Spacer Bar



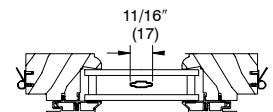
7/8" SDL
with Spacer Bar



1 1/8" SDL
without Spacer Bar



1 1/8" SDL
with Spacer Bar



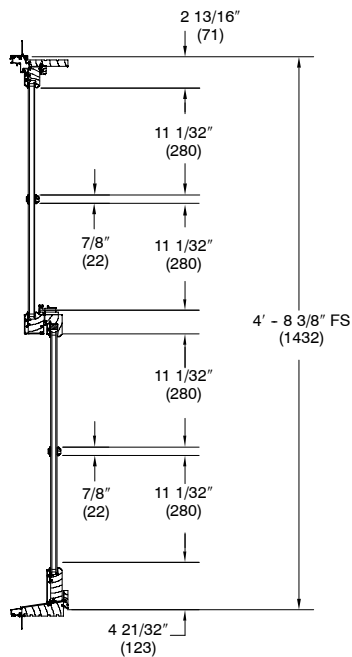
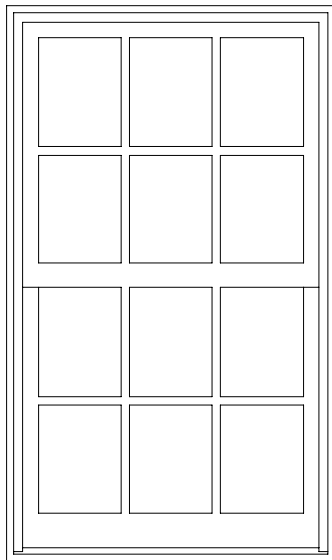
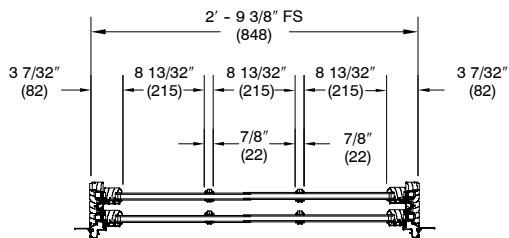
Aluminum
Grille between Glass

NOTE:

Grille = Removable interior divider
SDL = Simulated divided lite

CLAD ULTIMATE DOUBLE HUNG

RECTANGULAR DAYLIGHT OPENING CALCULATIONS



Conversion Formula:

$$\frac{\text{DLO} - \text{Total Bar Width}}{\text{Number of Lites}} = \text{Individual DLO}$$

NOTE:

For additional information on individual daylight openings please contact your Marvin representative.






















































































































CLAD ULTIMATE DOUBLE HUNG

STANDARD RECTANGULAR DIVIDED LITE PATTERNS

NOT TO SCALE

3/4" (19) Grille

7/8" (22) Simulated Divided Lite (SDL)

	2W	3W	3W	3W	3W	3W	4W	4W	4W
2H									
	CUDH1612	CUDH2012	CUDH2412	CUDH2612	CUDH2812	CUDH3012	CUDH3212	CUDH3612	CUDH4012
2H									
	CUDH1614	CUDH2014	CUDH2414	CUDH2614	CUDH2814	CUDH3014	CUDH3214	CUDH3614	CUDH4014
2H									
	CUDH1616	CUDH2016	CUDH2416	CUDH2616	CUDH2816	CUDH3016	CUDH3216	CUDH3616	CUDH4016
2H									
	CUDH1618	CUDH2018	CUDH2418	CUDH2618	CUDH2818	CUDH3018	CUDH3218	CUDH3618	CUDH4018
2H									
	CUDH1620	CUDH2020	CUDH2420	CUDH2620	CUDH2820	CUDH3020	CUDH3220	CUDH3620	CUDH4020
2H									
	CUDH1622	CUDH2022	CUDH2422	CUDH2622	CUDH2822	CUDH3022	CUDH3222	CUDH3622	CUDH4022
2H									
	CUDH1624	CUDH2024	CUDH2424	CUDH2624	CUDH2824	CUDH3024	CUDH3224	CUDH3624	CUDH4024
2H									
	CUDH1626	CUDH2026	CUDH2426	CUDH2626	CUDH2826	CUDH3026	CUDH3226	CUDH3626	CUDH4026
2H									
	CUDH1628	CUDH2028	CUDH2428	CUDH2628	CUDH2828	CUDH3028	CUDH3228	CUDH3628	CUDH4028
2H									
	CUDH1630	CUDH2030	CUDH2430	CUDH2630	CUDH2830	CUDH3030	CUDH3230	CUDH3630	CUDH4030
3H									
	CUDH1632	CUDH2032	CUDH2432	CUDH2632	CUDH2832	CUDH3032	CUDH3232	CUDH3632	CUDH4032
3H									
	CUDH1634	CUDH2034	CUDH2434	CUDH2634	CUDH2834	CUDH3034	CUDH3234	CUDH3634	CUDH4034
3H									
	CUDH1636	CUDH2036	CUDH2436	CUDH2636	CUDH2836	CUDH3036	CUDH3236	CUDH3636	CUDH4036

NOTE:

Lite pattern identifications are shown at the top of each column and to the left of each row.

Height patterns indicated as 1H represent a 1 high lite pattern.

Width patterns indicated as 2W represent a 2 wide lite pattern.

Patterns vary depending on size of unit and type of divider.






















































































































CLAD ULTIMATE DOUBLE HUNG

STANDARD RECTANGULAR DIVIDED LITE PATTERNS

NOT TO SCALE

1 1/8" (19) Grille

1 1/8" (43) Simulated Divided Lite (SDL)

	2W	2W	3W	3W	3W	3W	3W	3W	4W
1H	 CUDH1612	 CUDH2012	 CUDH2412	 CUDH2612	 CUDH2812	 CUDH3012	 CUDH3212	 CUDH3612	 CUDH4012
1H	 CUDH1614	 CUDH2014	 CUDH2414	 CUDH2614	 CUDH2814	 CUDH3014	 CUDH3214	 CUDH3614	 CUDH4014
1H	 CUDH1616	 CUDH2016	 CUDH2416	 CUDH2616	 CUDH2816	 CUDH3016	 CUDH3216	 CUDH3616	 CUDH4016
2H	 CUDH1618	 CUDH2018	 CUDH2418	 CUDH2618	 CUDH2818	 CUDH3018	 CUDH3218	 CUDH3618	 CUDH4018
2H	 CUDH1620	 CUDH2020	 CUDH2420	 CUDH2620	 CUDH2820	 CUDH3020	 CUDH3220	 CUDH3620	 CUDH4020
2H	 CUDH1622	 CUDH2022	 CUDH2422	 CUDH2622	 CUDH2822	 CUDH3022	 CUDH3222	 CUDH3622	 CUDH4022
2H	 CUDH1624	 CUDH2024	 CUDH2424	 CUDH2624	 CUDH2824	 CUDH3024	 CUDH3224	 CUDH3624	 CUDH4024
2H	 CUDH1626	 CUDH2026	 CUDH2426	 CUDH2626	 CUDH2826	 CUDH3026	 CUDH3226	 CUDH3626	 CUDH4026
2H	 CUDH1628	 CUDH2028	 CUDH2428	 CUDH2628	 CUDH2828	 CUDH3028	 CUDH3228	 CUDH3628	 CUDH4028
2H	 CUDH1630	 CUDH2030	 CUDH2430	 CUDH2630	 CUDH2830	 CUDH3030	 CUDH3230	 CUDH3630	 CUDH4030
3H	 CUDH1632	 CUDH2032	 CUDH2432	 CUDH2632	 CUDH2832	 CUDH3032	 CUDH3232	 CUDH3632	 CUDH4032
3H	 CUDH1634	 CUDH2034	 CUDH2434	 CUDH2634	 CUDH2834	 CUDH3034	 CUDH3234	 CUDH3634	 CUDH4034
3H	 CUDH1636	 CUDH2036	 CUDH2436	 CUDH2636	 CUDH2836	 CUDH3036	 CUDH3236	 CUDH3636	 CUDH4036

NOTE:

Lite pattern identifications are shown at the top of each column and to the left of each row.

Height patterns indicated as 1H represent a 1 high lite pattern.

Width patterns indicated as 2W represent a 2 wide lite pattern.

Patterns vary depending on size of unit and type of divider.
























































CLAD ULTIMATE DOUBLE HUNG
























































STANDARD RECTANGULAR DIVIDED LITE PATTERNS

NOT TO SCALE

3/4" (19) Grille
7/8" (22) Simulated Divided Lite (SDL)

1 1/8" (19) Grille
1 1/8" (29) Simulated Divided Lite (SDL)

	4W	5W	5W	6W	7W
4H	 CUDHP4038	 CUDHP4838	 CUDHP5238	 CUDHP6038	 CUDHP6838
4H	 CUDHP4042	 CUDHP4842	 CUDHP5242	 CUDHP6042	 CUDHP6842
4H	 CUDHP4046	 CUDHP4846	 CUDHP5246	 CUDHP6046	 CUDHP6846
4H	 CUDHP4050	 CUDHP4850	 CUDHP5250	 CUDHP6050	 CUDHP6850
4H	 CUDHP4054	 CUDHP4854	 CUDHP5254	 CUDHP6054	 CUDHP6854
4H	 CUDHP4058	 CUDHP4858	 CUDHP5258	 CUDHP6058	 CUDHP6858
4H	 CUDHP4062	 CUDHP4862	 CUDHP5262	 CUDHP6062	 CUDHP6862
4H	 CUDHP4066	 CUDHP4866	 CUDHP5266	 CUDHP6066	 CUDHP6866
6H	 CUDHP4070	 CUDHP4870	 CUDHP5270	 CUDHP6070	 CUDHP6870
6H	 CUDHP4074	 CUDHP4874	 CUDHP5274	 CUDHP6074	 CUDHP6874
6H	 CUDHP4078	 CUDHP4878	 CUDHP5278	 CUDHP6078	 CUDHP6878

	3W	4W	4W	5W	6W
2H	 CUDHP4038	 CUDHP4838	 CUDHP5238	 CUDHP6038	 CUDHP6838
4H	 CUDHP4042	 CUDHP4842	 CUDHP5242	 CUDHP6042	 CUDHP6842
4H	 CUDHP4046	 CUDHP4846	 CUDHP5246	 CUDHP6046	 CUDHP6846
4H	 CUDHP4050	 CUDHP4850	 CUDHP5250	 CUDHP6050	 CUDHP6850
4H	 CUDHP4054	 CUDHP4854	 CUDHP5254	 CUDHP6054	 CUDHP6854
4H	 CUDHP4058	 CUDHP4858	 CUDHP5258	 CUDHP6058	 CUDHP6858
4H	 CUDHP4062	 CUDHP4862	 CUDHP5262	 CUDHP6062	 CUDHP6862
4H	 CUDHP4066	 CUDHP4866	 CUDHP5266	 CUDHP6066	 CUDHP6866
6H	 CUDHP4070	 CUDHP4870	 CUDHP5270	 CUDHP6070	 CUDHP6870
6H	 CUDHP4074	 CUDHP4874	 CUDHP5274	 CUDHP6074	 CUDHP6874
6H	 CUDHP4078	 CUDHP4878	 CUDHP5278	 CUDHP6078	 CUDHP6878

NOTE:

Lite pattern identifications are shown at the top of each column and to the left of each row.
Height patterns indicated as 1H represent a 1 high lite pattern.
Width patterns indicated as 2W represent a 2 wide lite pattern.
Patterns vary depending on size of unit and type of divider.

CLAD ULTIMATE DOUBLE HUNG

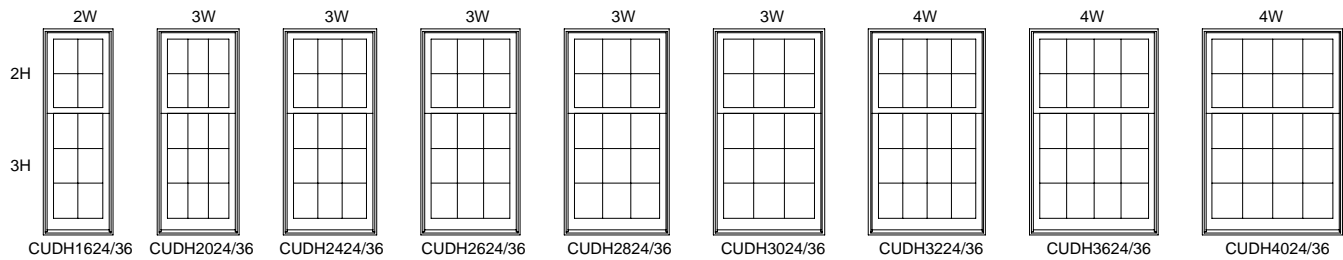
STANDARD RECTANGULAR DIVIDED LITE PATTERNS

NOT TO SCALE

Cottage Style Units

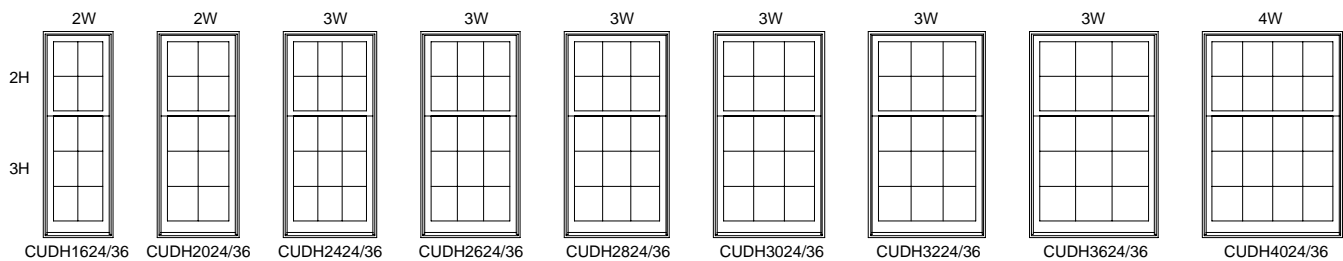
3/4" (19) Grille

7/8" (22) Simulated Divided Lite (SDL)



1 1/8" (29) Grille

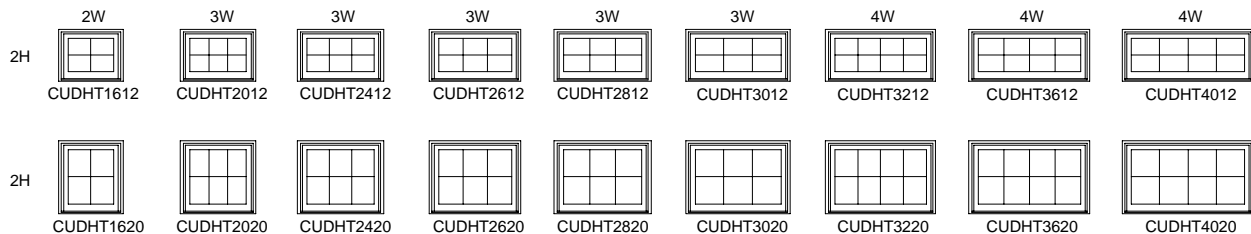
1 1/8" (29) Simulated Divided Lite (SDL)



Transom Units

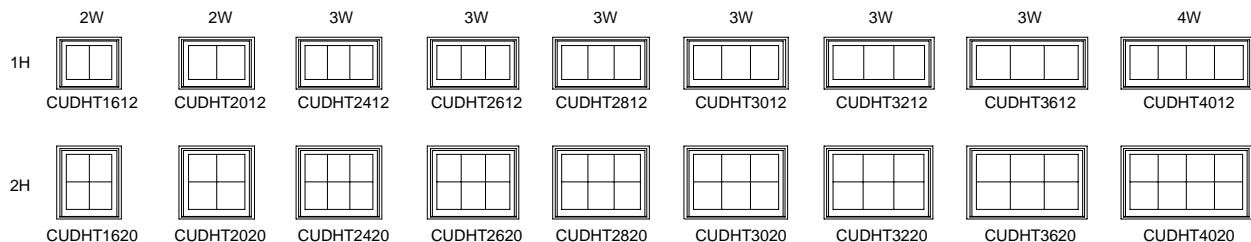
3/4" (19) Grille

7/8" (22) Simulated Divided Lite (SDL)



1 1/8" (29) Grille

1 1/8" (29) Simulated Divided Lite (SDL)



NOTE:

Lite pattern identifications are shown at the top of each column and to the left of each row.

Height patterns indicated as 1H represent a 1 high lite pattern.

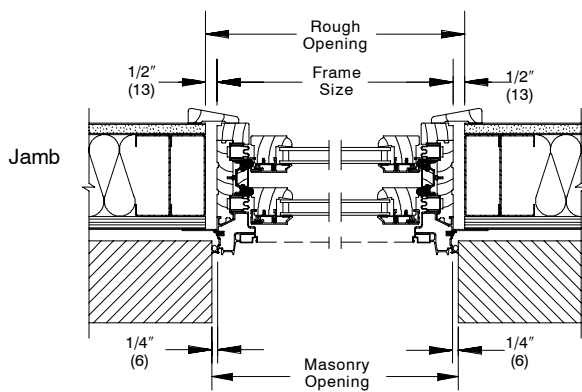
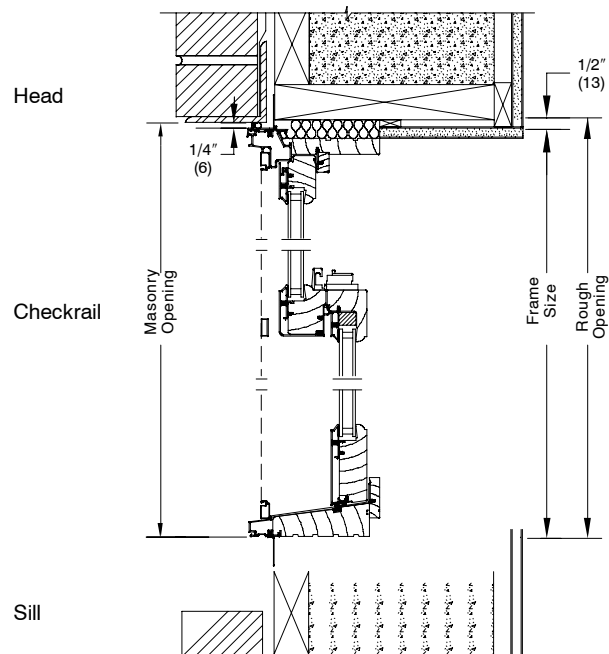
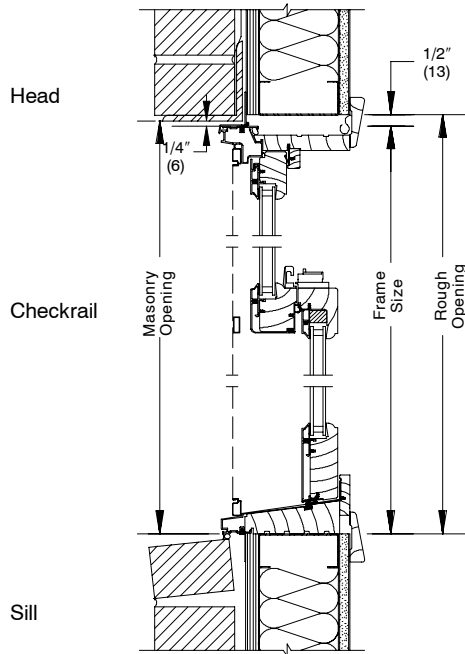
Width patterns indicated as 2W represent a 2 wide lite pattern.

Patterns vary depending on size of unit and type of divider.

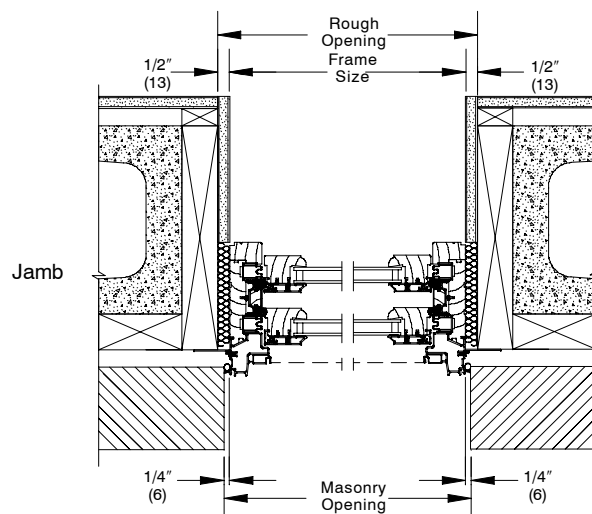
CLAD ULTIMATE DOUBLE HUNG

CONSTRUCTION DETAILS

NOT TO SCALE



Brick Veneer with Steel Stud Construction



Brick Veneer with Concrete Block Construction

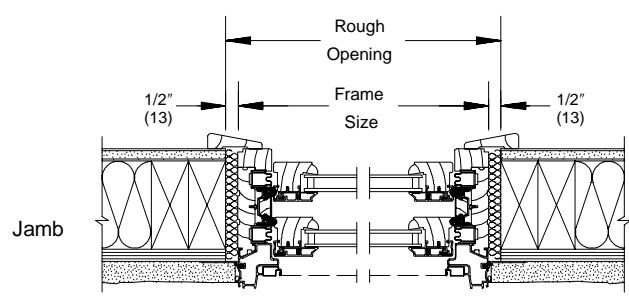
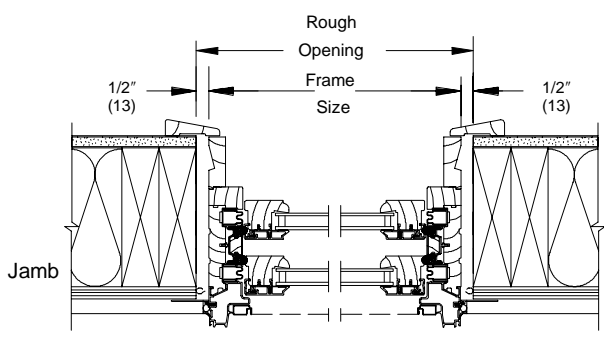
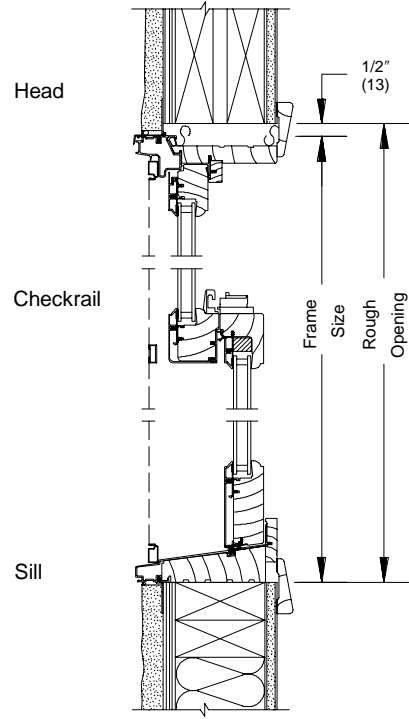
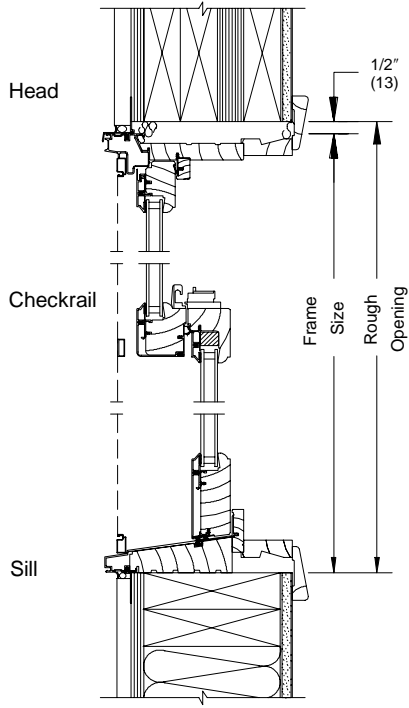
NOTE:

The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.

CLAD ULTIMATE DOUBLE HUNG

CONSTRUCTION DETAILS

NOT TO SCALE



Wood Siding with 2x6
Frame Construction

Stucco with 2x4
Frame Construction

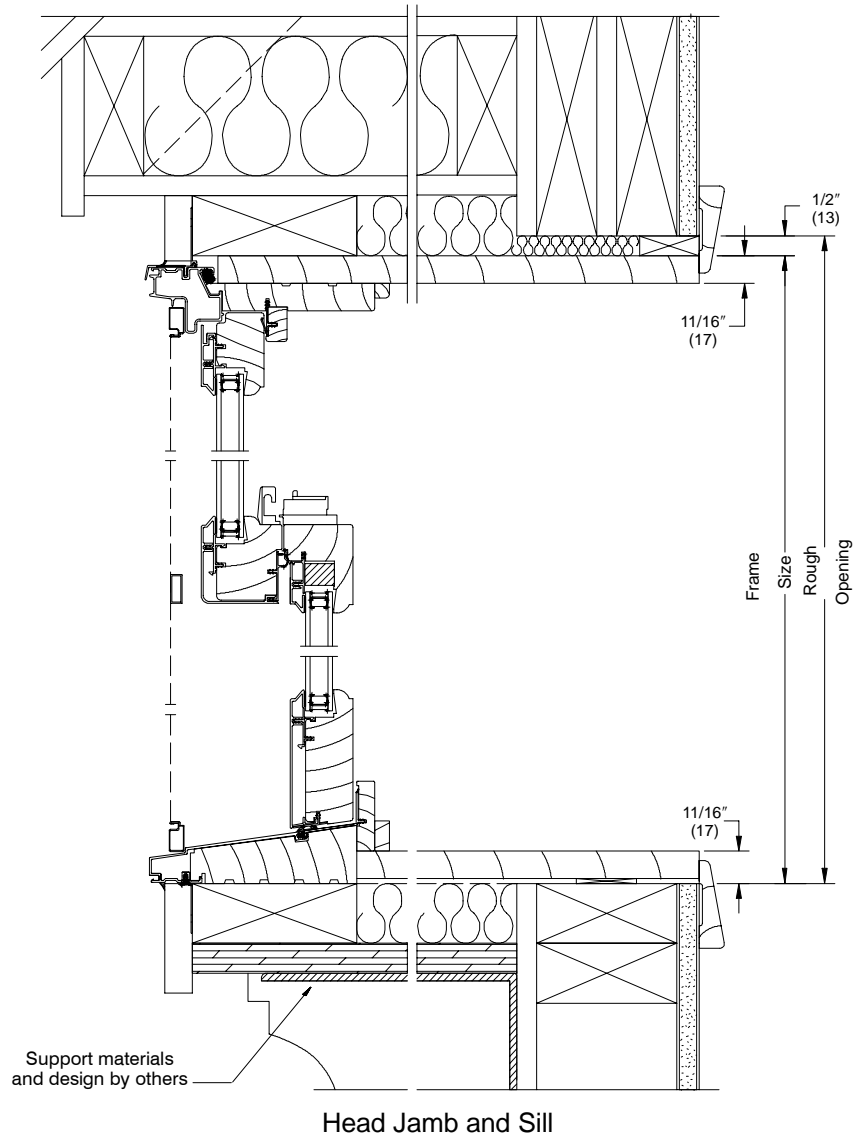
NOTE:

The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.

CLAD ULTIMATE DOUBLE HUNG BAY

SECTION DETAILS: BAY

NOT TO SCALE



Bay Assembly Heights					
Height	Rough Opening Height			Masonry Opening Height	
12	2-9	5/32	(842)	2-8	29/32 (839)
14	3-1	5/32	(944)	3-0	29/32 (937)
16	3-5	5/32	(1045)	3-4	29/32 (1039)
18	3-9	5/32	(1147)	3-8	29/32 (1141)
20	4-1	5/32	(1249)	4-0	29/32 (1242)
22	4-5	5/32	(1350)	4-4	29/32 (1344)
24	4-9	5/32	(1452)	4-8	29/32 (1445)
26	5-1	5/32	(1553)	5-0	29/32 (1547)
28	5-5	5/32	(1655)	5-4	29/32 (1649)
30	5-9	5/32	(1757)	5-8	29/32 (1750)
32	6-1	5/32	(1858)	6-0	29/32 (1852)
34	6-5	5/32	(1960)	6-4	29/32 (1953)
36	6-9	5/32	(2061)	6-8	29/32 (2055)

How To Specify:

To specify a bay assembly using standard units, components and mull configuration must be indicated. For example: A 30 degree assembly with 2830 flankers and a 6066 center unit uses the following product identification: CBAY 2830-6066-2830 30°

CBAY = Product identification

28 = 1st flanker unit width

6066 = Center unit width and height

28 = 2nd flanker unit width

30 = Assembly degree

If standard units are not used, indicate unit rough openings instead of call numbers.

NOTE:

Rough Opening heights listed include head board. If head board is not specified, subtract 9/32" (7) from the Rough Opening. See vertical cross section above.

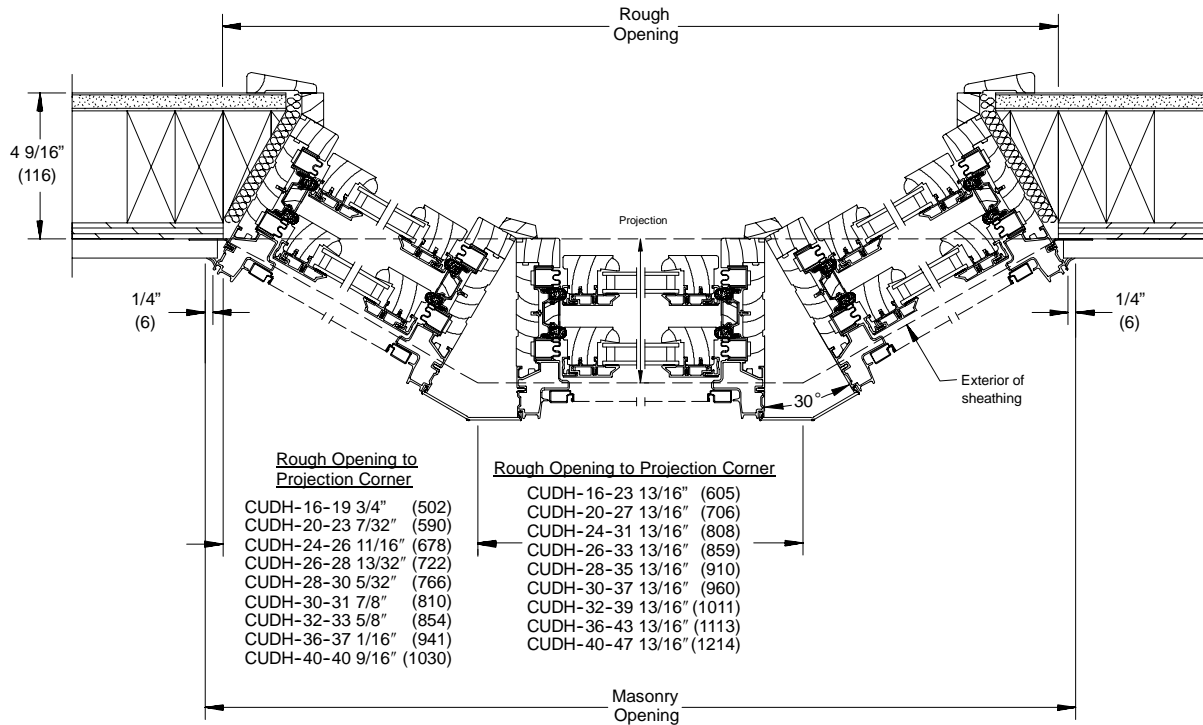
Construction materials supplied by others.

CLAD ULTIMATE DOUBLE HUNG BAY

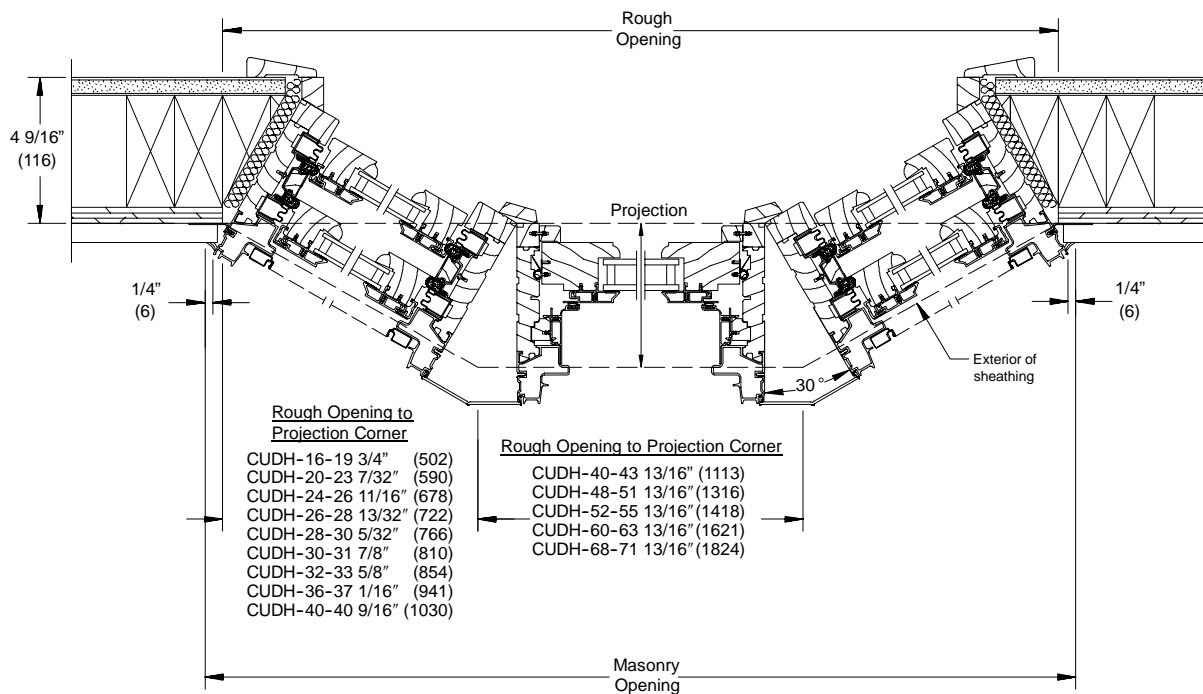
SECTION DETAILS: 30 DEGREE

NOT TO SCALE

Operating Center Unit



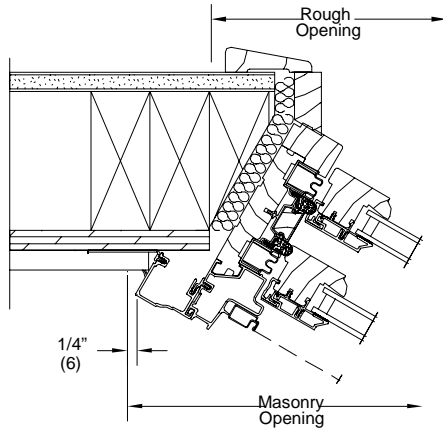
Picture Center Unit



CLAD ULTIMATE DOUBLE HUNG BAY

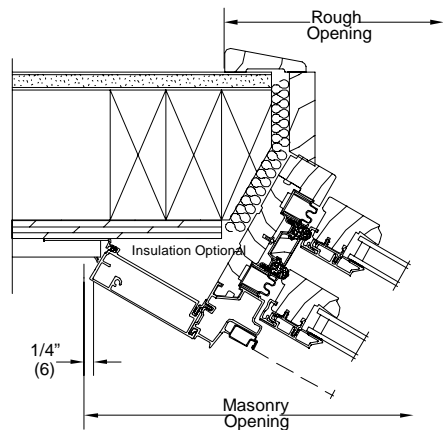
HORIZONTAL 30 DEGREE WIDTH MEASUREMENTS

Brick Mould Casing



30 Degree CUDH Bay with optional Brick Mould Casing.
Bow or bay assemblies with clad brick mould casing use enclosed profile casing.
For 30 degree bay masonry opening widths using clad brick mould casing, add 3 21/32" (93) to the rough opening width.

Flat Casing



30 Degree CUDH Bay with optional 3 1/2" Flat Casing
Bow or bay assemblies with clad flat casing use enclosed profile casing.
For 30 degree bay masonry opening widths using clad flat casing, add 6 7/16" (164) to the rough opening width.

30 Degree Width Measurements Double Hung flankers and center units

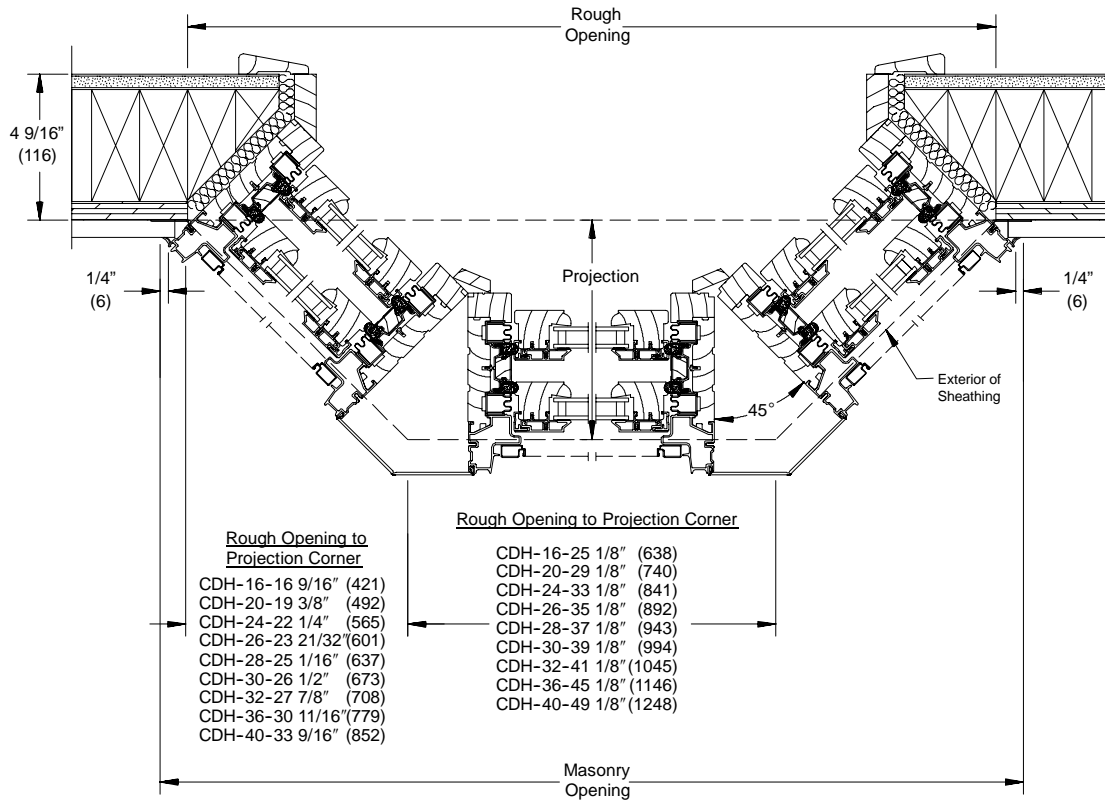
Unit Number	Masonry Opening	Rough Opening	Projection
16-16-16	5-4 17/32 (1640)	5-3 5/16 (1609)	11 9/32" (287)
16-20-16	5-8 17/32 (1741)	5-7 5/16 (1710)	11 9/32" (287)
16-24-16	6-0 17/32 (1843)	5-11 5/16 (1812)	11 9/32" (287)
16-26-16	6-2 17/32 (1894)	6-1 5/16 (1863)	11 9/32" (287)
16-28-16	6-4 17/32 (1944)	6-3 5/16 (1914)	11 9/32" (287)
16-30-16	6-6 17/32 (1995)	6-5 5/16 (1964)	11 9/32" (287)
16-32-16	6-8 17/32 (2046)	6-7 5/16 (2015)	11 9/32" (287)
16-36-16	7-0 17/32 (2148)	6-11 5/16 (2117)	11 9/32" (287)
16-40-16	7-4 17/32 (2249)	7-3 5/16 (2218)	11 9/32" (287)
20-20-20	6-3 15/32 (1917)	6-2 1/4 (1886)	13 9/32" (338)
20-24-20	6-7 15/32 (2019)	6-6 1/4 (1988)	13 9/32" (338)
20-26-20	6-9 15/32 (2070)	6-8 1/4 (2039)	13 9/32" (338)
20-28-20	6-11 15/32 (2120)	6-10 1/4 (2089)	13 9/32" (338)
20-30-20	7-1 15/32 (2171)	7-0 1/4 (2140)	13 9/32" (338)
20-32-20	7-3 15/32 (2222)	7-2 1/4 (2191)	13 9/32" (338)
20-36-20	7-7 15/32 (2324)	7-6 1/4 (2293)	13 9/32" (338)
20-40-20	7-11 15/32 (2425)	7-10 1/4 (2394)	13 9/32" (338)
24-24-24	7-2 13/32 (2195)	7-1 3/16 (2164)	15 9/32" (389)
24-26-24	7-4 13/32 (2246)	7-3 3/16 (2215)	15 9/32" (389)
24-28-24	7-6 13/32 (2296)	7-5 3/16 (2265)	15 9/32" (389)
24-30-24	7-8 13/32 (2347)	7-7 3/16 (2316)	15 9/32" (389)
24-32-24	7-10 13/32 (2398)	7-9 3/16 (2367)	15 9/32" (389)
24-36-24	8-2 13/32 (2500)	8-1 3/16 (2469)	15 9/32" (389)
24-40-24	8-6 13/32 (2601)	8-5 3/16 (2570)	15 9/32" (389)
26-26-26	7-7 7/8 (2334)	7-6 21/32 (2303)	16 9/32" (414)
26-28-26	7-9 7/8 (2384)	7-8 21/32 (2353)	16 9/32" (414)
26-30-26	7-11 7/8 (2435)	7-10 21/32 (2404)	16 9/32" (414)
26-32-26	8-1 7/8 (2486)	8-0 21/32 (2455)	16 9/32" (414)
26-36-26	8-5 7/8 (2588)	8-4 21/32 (2557)	16 9/32" (414)
26-40-26	8-9 7/8 (2689)	8-8 21/32 (2658)	16 9/32" (414)
28-28-28	8-1 11/32 (2472)	8-0 1/8 (2441)	17 9/32" (439)
28-30-28	8-3 11/32 (2523)	8-2 1/8 (2492)	17 9/32" (439)
28-32-28	8-5 11/32 (2574)	8-4 1/8 (2543)	17 9/32" (439)
28-36-28	8-9 11/32 (2676)	8-8 1/8 (2645)	17 9/32" (439)
28-40-28	9-1 11/32 (2777)	9-0 1/8 (2746)	17 9/32" (439)
30-30-30	8-6 25/32 (2611)	8-5 9/16 (2580)	18 9/32" (465)
30-32-30	8-8 25/32 (2662)	8-7 9/16 (2631)	18 9/32" (465)
30-36-30	9-0 25/32 (2764)	8-11 9/16 (2733)	18 9/32" (465)
30-40-30	9-4 25/32 (2865)	9-3 9/16 (2834)	18 9/32" (465)
32-32-32	9-0 1/4 (2750)	8-11 1/32 (2719)	19 9/32" (490)
32-36-32	9-4 1/4 (2852)	9-3 1/32 (2821)	19 9/32" (490)
32-40-32	9-8 1/4 (2953)	9-7 1/32 (2922)	19 9/32" (490)
36-36-36	9-11 3/16 (3028)	9-9 31/32 (2997)	21 9/32" (541)
36-40-36	10-3 3/16 (3129)	10-1 31/32 (3098)	21 9/32" (541)
40-40-40	10-10 1/8 (3305)	10-8 29/32 (3274)	23 9/32" (592)

CLAD ULTIMATE DOUBLE HUNG BAY

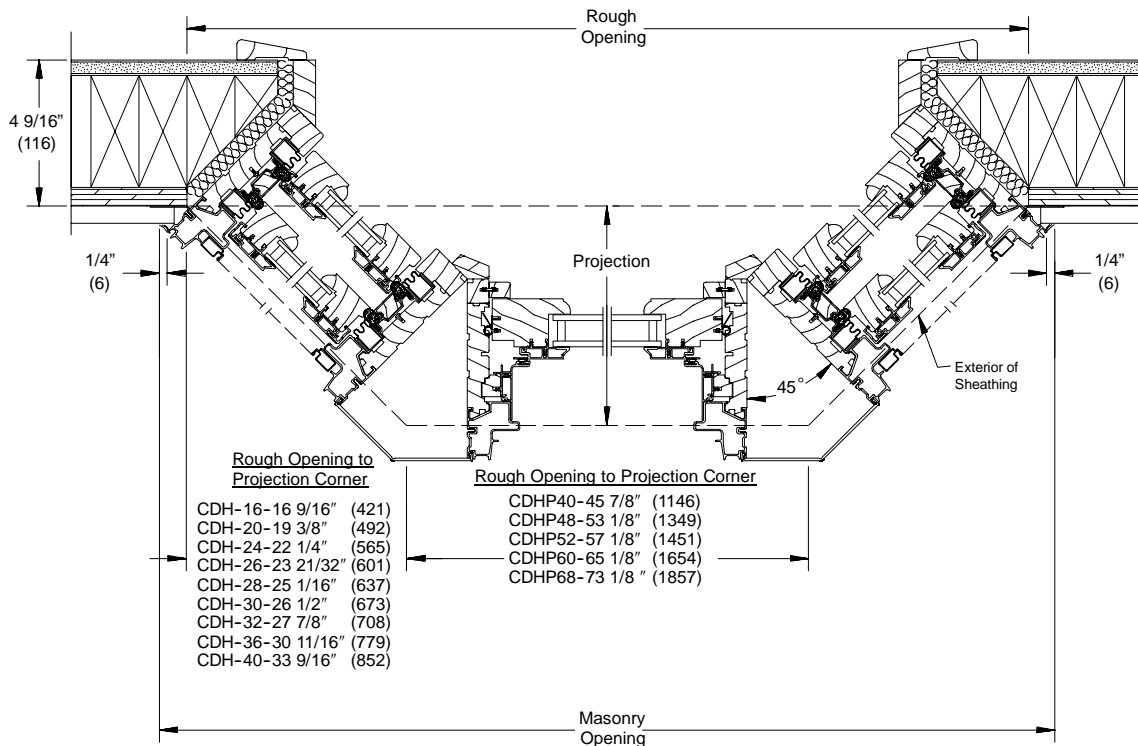
SECTION DETAILS: 45 DEGREE

NOT TO SCALE

Operating Center Unit

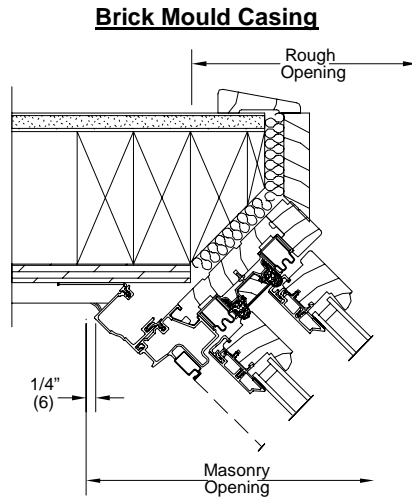


Picture Center Unit

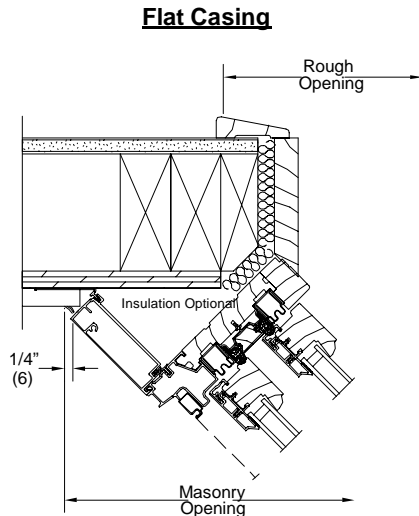


CLAD ULTIMATE DOUBLE HUNG BAY

HORIZONTAL 45 DEGREE WIDTH MEASUREMENTS



45 Degree CUDH Bay with optional Brick Mould Casing
Bow or bay assemblies with clad brick mould casing use enclosed profile casing.
For 45 degree bay masonry opening widths using clad brick mould casing, add 3 7/8" (98) to the rough opening width.



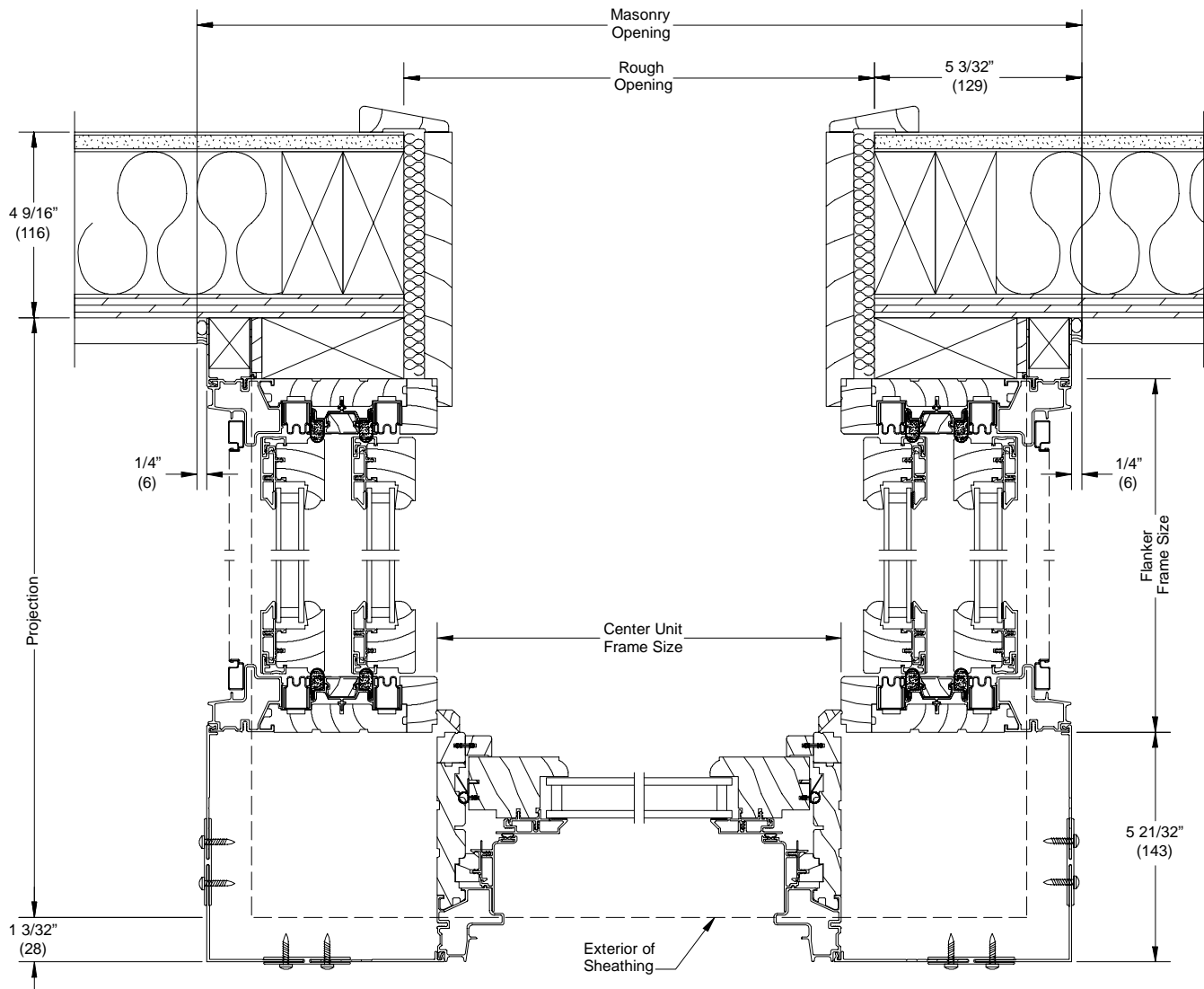
45 Degree CUDH Bay with optional 3 1/2" Flat Casing
Bow or bay assemblies with clad flat casing use enclosed profile casing.
For 45 degree bay masonry opening widths using clad flat casing, add 6 1/16" (154) to the rough opening width.

45 Degree Width Measurements Double Hung flankers and center units			
Unit Number	Masonry Opening	Rough Opening	Projection
16-16-16	5-0 3/32 (1527)	4-10 5/16 (1481)	16 7/16" (418)
16-20-16	5-4 3/32 (1628)	5-2 5/16 (1583)	16 7/16" (418)
16-24-16	5-8 3/32 (1730)	5-6 5/16 (1684)	16 7/16" (418)
16-26-16	5-10 3/32 (1781)	5-8 5/16 (1735)	16 7/16" (418)
16-28-16	6-0 3/32 (1831)	5-10 5/16 (1786)	16 7/16" (418)
16-30-16	6-2 3/32 (1882)	6-0 5/16 (1837)	16 7/16" (418)
16-32-16	6-4 3/32 (1933)	6-2 5/16 (1887)	16 7/16" (418)
16-36-16	6-8 3/32 (2035)	6-6 5/16 (1989)	16 7/16" (418)
16-40-16	7-0 3/32 (2136)	6-10 5/16 (2091)	16 7/16" (418)
20-20-20	5-9 3/4 (1772)	5-7 31/32 (1726)	19 9/32" (490)
20-24-20	6-1 3/4 (1874)	5-11 31/32 (1828)	19 9/32" (490)
20-26-20	6-3 3/4 (1924)	6-1 31/32 (1879)	19 9/32" (490)
20-28-20	6-5 3/4 (1975)	6-3 31/32 (1929)	19 9/32" (490)
20-30-20	6-7 3/4 (2026)	6-5 31/32 (1980)	19 9/32" (490)
20-32-20	6-9 3/4 (2077)	6-7 31/32 (2031)	19 9/32" (490)
20-36-20	7-1 3/4 (2178)	6-11 31/32 (2133)	19 9/32" (490)
20-40-20	7-5 3/4 (2280)	7-3 31/32 (2234)	19 9/32" (490)
24-24-24	6-7 13/32 (2017)	6-5 5/8 (1972)	22 1/8" (562)
24-26-24	6-9 13/32 (2068)	6-7 5/8 (2022)	22 1/8" (562)
24-28-24	6-11 13/32 (2119)	6-9 5/8 (2073)	22 1/8" (562)
24-30-24	7-1 13/32 (2170)	6-11 5/8 (2124)	22 1/8" (562)
24-32-24	7-3 13/32 (2220)	7-1 5/8 (2175)	22 1/8" (562)
24-36-24	7-7 13/32 (2322)	7-5 5/8 (2276)	22 1/8" (562)
24-40-24	7-11 13/32 (2424)	7-9 5/8 (2378)	22 1/8" (562)
26-26-26	7-0 1/4 (2140)	6-10 7/16 (2094)	23 1/2" (597)
26-28-26	7-2 1/4 (2191)	7-0 7/16 (2145)	23 1/2" (597)
26-30-26	7-4 1/4 (2241)	7-2 7/16 (2196)	23 1/2" (597)
26-32-26	7-6 1/4 (2292)	7-4 7/16 (2247)	23 1/2" (597)
26-36-26	7-10 1/4 (2394)	7-8 7/16 (2348)	23 1/2" (597)
26-40-26	8-2 1/4 (2495)	8-0 7/16 (2450)	22 1/2" (597)
28-28-28	7-5 1/16 (2262)	7-3 9/32 (2217)	24 15/16" (633)
28-30-28	7-7 1/16 (2313)	7-5 9/32 (2268)	24 15/16" (633)
28-32-28	7-9 1/16 (2364)	7-7 9/32 (2318)	24 15/16" (633)
28-36-28	8-1 1/16 (2466)	7-11 9/32 (2420)	24 15/16" (633)
28-40-28	8-5 1/16 (2567)	8-3 9/32 (2522)	24 15/16" (633)
30-30-30	7-9 29/32 (2385)	7-8 3/32 (2339)	26 11/32" (669)
30-32-30	7-11 29/32 (2436)	7-10 3/32 (2390)	26 11/32" (669)
30-36-30	8-3 29/32 (2538)	8-2 3/32 (2492)	26 11/32" (669)
30-40-30	8-7 29/32 (2639)	8-6 3/32 (2593)	26 11/32" (669)
32-32-32	8-2 23/32 (2508)	8-0 15/16 (2462)	27 3/4" (705)
32-36-32	8-6 23/32 (2609)	8-4 15/16 (2564)	27 3/4" (705)
32-40-32	8-10 23/32 (2711)	8-8 15/16 (2665)	27 3/4" (705)
36-36-36	9-0 3/8 (2753)	8-10 19/32 (2709)	30 19/32" (777)
36-40-36	9-4 3/8 (2855)	9-2 19/32 (2809)	30 19/32" (777)
40-40-40	9-10 1/32 (2998)	9-8 1/4 (2953)	33 7/16" (849)

CLAD ULTIMATE DOUBLE HUNG BAY

SECTION DETAILS - 90 DEGREE

NOT TO SCALE



Measurement Conversions:

Rough Opening = Center unit frame size width + 1 5/8"

Masonry Opening = Rough opening + 10 3/16"

Projection = Flanker unit frame size width + 6 1/16"