Elevate Aluminum Direct Glaze Round Tops

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Unit Features

For applicable certification and code information, refer to the Introduction and Product Performance chapter.

Abbreviations

Elevate Aluminum Direct Glaze Round Top: ELALDG RT Elevate Aluminum Direct Glaze Round Top Casement: ELALDG RT CA Elevate Aluminum Direct Glaze Round Top Door Transom: ELALDG RT DRTR Elevate Aluminum Direct Glaze Round Top Double Hung: ELALDG RT DH

Frame:

- The frame exterior is made of extruded aluminum cladding meeting or exceeding requirements. Available colors: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony.
- The interior is non finger-jointed pine, kiln dried to a moisture content of 6-12% at time of fabrication. Water-repellent, preservative treated.
- Interior wood is available as Pine bare wood or factory applied White, Clear, or Designer Black interior finishes.
- Frame width is 4 9/16" (116).
- Non finger-jointed pine interior stop is applied to all units.

Jamb Extension:

- Extension Thickness: 9/16" (14)
- Multiple depths available from 1/8" (3), 1/4"(6), and depths varying between 1/2"(13) and 4"(102) at 1/16" (2) increments
- Maximum jamb depth is 8 9/16". (217)
- 6 13/16" (173) or 6 13/16" (173) jamb extension factory-applied
- All other jamb depth options are available shipped loose.
- Material: Bare Pine
- Option: factory applied white, designer black and clear lacquer interior finish

Installation:

- Folding nailing fin.
- Optional installation brackets available for round tops without nailing fin intended for masonry application.

Glazing:

- All units are manufactured with a glass thickness varying from 11/16 (17mm) to 1" (25mm) IG with Low E2, E3, E3/ERS, or E1 coatings including argon gas or air fill.
- Tempered glass and/or obscure, and California Fire glass (annealed exterior and tempered interior glazing configuration) glass are available as an option.
- Clear (uncoated) glass available with air fill only.
- The glazing seal is a silicone bedding on the exterior surface with glazing tape on the interior.
- Decorative glass options include glue chip, rain, reed, narrow reed, frost, and tinted (bronze, gray or green). Decorative glass is not available with Low E1, Low E3/ERS.



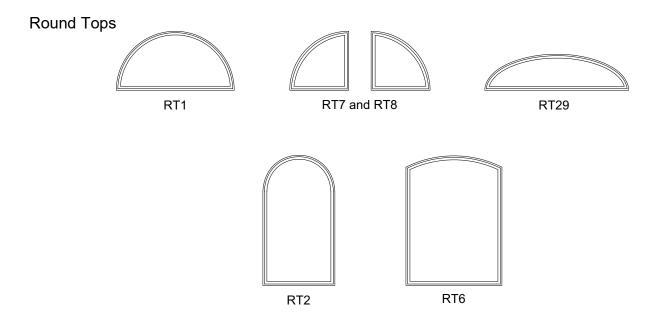
Unit Features

Interior / Exterior Simulated Divided Lites (SDL):

- Interior bar: 7/8" (22) wide bars. Pine bare wood or factory applied White, Clear, or Designer Black finishes to match the interior.
- Exterior straight bar: 7/8" (22) wide bars Ultrex, finish to match exterior
- Exterior radius bar: ABS Hi, HDT 7/8" (22) wide bars. Available in sunburst patterns with an open hub. Finish to match exterior.
- SDL with spacer bar available on standard sunburst patterns with an open hub only. SDL with spacer bar is not available on solid
 or closed hub patterns or with tinted glass. Glue chip and decorative glass pattern requires tempered glass. SDL unavailable with
 rain, reed and narrow reed patterns.

Grilles-Between-the-Glass (GBG):

• GBGs are manufactured from aluminum in an 23/32" (18) contoured profile placed between two panes of glass, available in standard sunburst patterns with a solid hub. Exterior color: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony. Interior Colors: White, Bronze, or Ebony. Not available with tinted glass.



NOTE: Drawings on this page are not to scale.

Direct Glaze Round Top with GBG or SDL will only align with the default lite cut of the unit it is intended to be mulled with.



Sizing Guidelines / Measurement Conversions

Round Top multiple assemblies can be factory mulled up to 3 units wide by 2 units high.

MAXIMUM ROUGH OPENING: 113 1/2" (2883 mm) x 91 1/16" (2313 mm) or 85" (2159 mm) x 107 9 1/16" (2732 mm)

NOTES:

Quarter Round shapes require a Casement with a continuous head jamb.

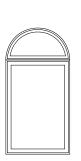
CALCULATING TOTAL ROUGH OPENING FOR ASSEMBLIES

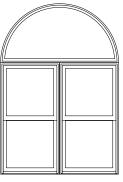
WIDTH: ADD Frame Widths + 1" (25 mm)

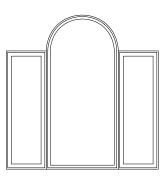
Tolerance = 1/2" (13 mm) from the frame to Rough Opening at left and right jamb.

HEIGHT: ADD Frame Heights + 1/2" (13 mm)

Tolerance = 1/2" (13 mm) from Frame to Rough Opening at head jamb.







Unit Measurements	Wid	lth	Height		
From	VVIG				
Rough Opening		in	mm	in	mm
OSM of Frame (RT1, RT2, RT6, RT7/8, RT29)	Rough Opening	+ 1	(25)	+ 1/2	(13)
OSM of Frame (RT27 - circle, RT28 - oval)	Rough Opening	+ 1	(25)	+ 1	(25)
Masonry Opening (RT1, RT2, RT6, RT7/8, RT29)	Rough Opening	+ 1/2	(13)	+ 1/4	(06)
Masonry Opening (RT27 - circle, RT28 - oval)	Rough Opening	+ 1/2	(13)	+ 3/4	(19)
Daylight Opening (RT1, RT2, RT6, RT7/8, RT29)	Rough Opening	+ 5	(127)	+ 4 1/2	(114)
Daylight Opening (RT27 - circle, RT28 - oval)	Rough Opening	+ 5	(127)	+ 5	(127)
OSM of Glass (RT1, RT2, RT6, RT7/8, RT29)	Rough Opening	+ 3 3/16	(81)	+ 2 11/16	(68)
OSM of Glass (RT27 - circle, RT28 - oval)	Rough Opening	+ 1 1/32	(26)	+ 1 1/32	(26)

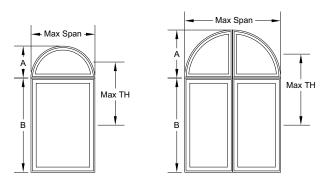
Certified Frame-to-Frame Mulling Guidelines

Certified Mull Limits

- If assemblies have individual units that have a lower Performance Grade than the mull, the entire assembly is rated at the lower Performance Grade.
- Mull certification includes 4" mull clips (nail fin installation) or mull brackets (structural bracket installation) at all mull joints.
- Items not included in certified mulls: Stepped mulls, Palladians, Polygon Shapes, Through Jamb, Narrow Frame and Insert Products.

Mull Limits						
Product	Configuration	Max Span	Max TW or TH	Max RO	DP	Max ELDH P height of lower unit
Aluminum Direct Glaze Round Top Casement – Horizontal Continuous LVL Mulling with a Single ELALDG RT on top A-level row	1 - 3W x 2H	72" (1829)	53 11/32" (1355)	73" x 107-9/16" (1854 x 2732)	50	N/A
Aluminum Direct Glaze Round Top Casement – Horizontal Continuous LVL Mulling with RT 7 & 8 on Top A–level row	2W x 2H	72" (1829)	53 11/32" (1355)	73" x 107-9/16" (1854 x 2732)	50	N/A

Tributary Width or Height = (A+B)/2.



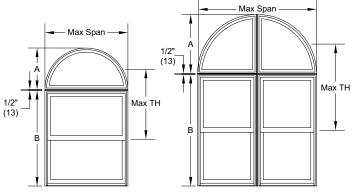
Certified 1/2" MRF Mulling Guidelines

Certified Mull Limits:

- If assemblies have individual units that have a lower Performance Grade than the mull, the entire assembly is rated at the lower Performance Grade.
- Mull certification includes 4" mull clips (nail fin installation) or mull brackets (structural bracket installation) at all mull joints.
- Items not included in certified mulls: Stepped mulls, Palladians, Polygon Shapes, Through Jamb, Narrow Frame and Insert Products.

Mull Limits							
Product	Configuration	Max Span	Max TW or TH	Max RO	DP	Max ELDH P height of lower unit	
Aluminum Direct Glaze Round Top Double Hung – Horizontal Continuous 1/2 MRF Mulling with a Single ELALDG RT on top A-level row	1 - 3W x 2H	83" (2108)	53 11/32" (1355)	73" x 107-9/16" (1854 x 2732)	50	N/A	
Aluminum Direct Glaze Round Top Double Hung – Horizontal Continuous 1/2" MRF Mulling with RT 7 & 8 on Top A-level row	2W x 2H	72" (1829)	53 11/32" (1355)	73" x 107-9/16" (1854 x 2732)	50	N/A	

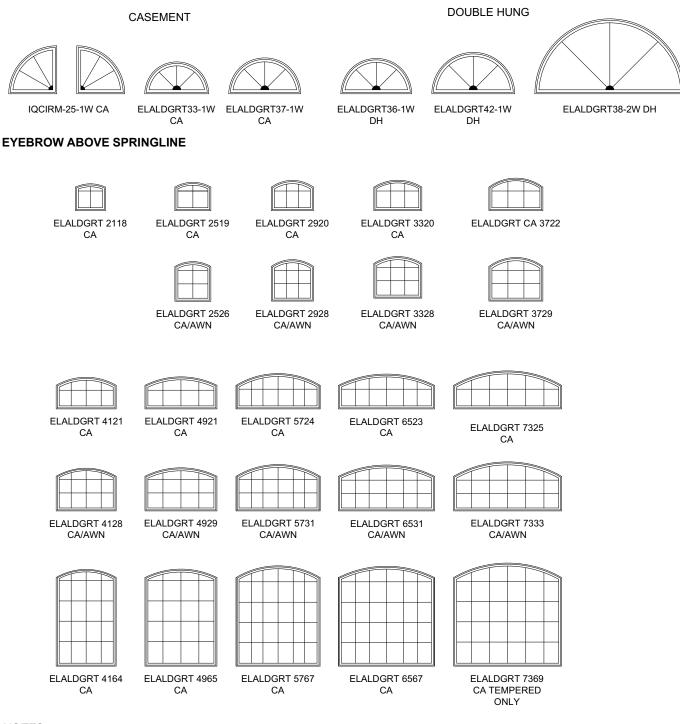
Tributary Width or Height = (A+B+1/2)/2



1/2" Mull Reinforcement (MRF) Mulling Examples



Grilles-Between-the-Glass



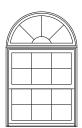
NOTES:

- GBGs are not available on True Half above Springline units
- GBGs may not line up in multiple assemblies. For more information, contact your Marvin representative.



Round Top Examples / Grilles-Between-the-Glass

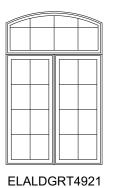
Multiple Assemblies (examples)



ELALDGRT

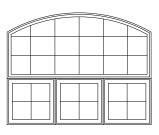
36-1W

ELDH3640



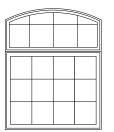
ELCA 2555 2W

ELDH 2260/ELALDGRT 6868/ELDH 2260

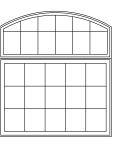


ELALDGRT 7333 / ELAWN2523 3W

Multiple Assemblies/SDL/GBGS Not Lining Up (Examples)

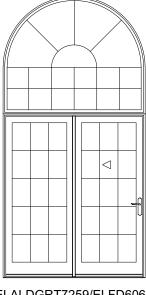


ELALDGRT4921/ELCAP4939

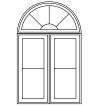


ELALDGRT5724/ELCAP5739

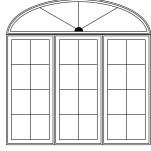
ELALDGRT-7333/IAWN3723 2W



ELALDGRT7259/ELFD6068 (available field mulled only)



ELALDGRT33 1W/ELCA1735 2W



IRTCA7318/ICA 2555-3W

NOTES:

• GBGs are not available on True Half above Springline units

• GBGs may not line up in multiple assemblies. For more information, contact your Marvin representative.

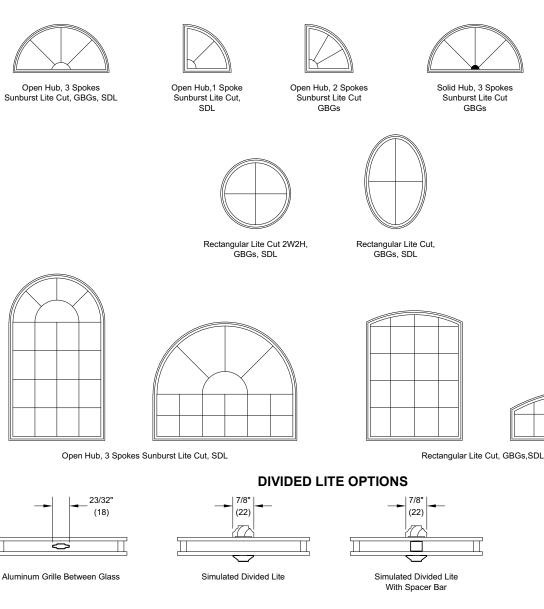
MARVIN®

Available Divided Lite Patterns

NOTES:

- GBGs are not available with the ELCA or ELDH Tempered Obscure glass option.
- GBG interior bars are available in White, Ebony, and Bronze only. The GBG exterior color is selectable between Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony.
- White, Clear, and Designer Black interior finishes on Jamb Extensions are available at no additional cost when they match the interior finish of the window. White jamb extensions on a unit with a Designer Black interior are available at an additional cost.
- SDL interior bars are available bare or with White, Clear, or Designer Black interior finish. The SDL exterior finish will be determined by the unit exterior finish.
- For additional window or door options, refer to the Divided Lite Options page in the appropriate product sections.
- SDL with spacer bar available on standard sunburst patterns with an open hub only. SDL with spacer bar is not available on solid or closed hub patterns.
- Direct Glaze RT with GBG or SDL will only align with the default lite cut of the unit is intended to be mulled.

AVAILABLE DIVIDED LITE PATTERNS



Solid Hub, 2 Spokes Sunburst Lite Cut GBGs



Available Divided Lite Patterns

Standard CN	Product Series	RT Shape	Unit Alignment	Sunburst Pattern Default	Sunburst Pattern Optional
29-1W	CA	RT7/RT8	ELCA 29-1W	Solid Hub, 2 Spokes	Open Hub, 2 Spokes
29-1W	CA	RT1	ELCA 29-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
21-2W	CA	RT1	ELCA 21-2W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
25-2W	CA	RT1	ELCA 25-2W, ELCA P 49-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
29-2W	CA	RT1	ELCA 29-2W, ELCA P 57-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
25-3W	CA	RT1	ELCA 25-3W, ELCA 37-2W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
7318	CA	RT29	ELCA 25-3W, ELCA 37-2W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
30-1W	DH	RT1	ELDH 30-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
34-1W	DH	RT1	ELDH 34-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
38-1W	DH	RT1	ELDH 38-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
34-2W	DH	RT1	ELDH 34-2W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
36-2W	DH	RT1	ELDH 36-2W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
7218	DH	RT29	ELDH 36-2W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
7236	DR	RT1	ELSPD, ELSFD, ELIFD, ELOFD 60-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes
7218	DR	RT29	ELSPD, ELSFD, ELIFD, ELOFD 60-1W	Solid Hub, 3 Spokes	Open Hub, 3 Spokes

Sunburst Lite Pattern - GBG

Sunburst Lite Pattern - SDL

Standard CN	Product Series	RT Shape	Unit Alignment	Sunburst Pattern Default
29-1W	CA	RT7/RT8	ELCA 29-1W	Open Hub, 1 Spoke
29-1W	CA	RT1	ELCA 29-1W	Open Hub, 3 Spokes
21-2W	CA	RT1	ELCA 21-2W	Open Hub, 3 Spokes
25-2W	CA	RT1	ELCA 25-2W, ELCA P 49-1W	Open Hub, 3 Spokes
29-2W	CA	RT1	ELCA 29-2W, ELCA P 57-1W	Open Hub, 3 Spokes
25-3W	CA	RT1	ELCA 25-3W, ELCA 37-2W	Open Hub, 3 Spokes
7318	CA	RT29	ELCA 25-3W, ELCA 37-2W	Open Hub, 3 Spokes
30-1W	DH	RT1	ELDH 30-1W	Open Hub, 3 Spokes
34-1W	DH	RT1	ELDH 34-1W	Open Hub, 3 Spokes
38-1W	DH	RT1	ELDH 38-1W	Open Hub, 3 Spokes
34-2W	DH	RT1	ELDH 34-2W	Open Hub, 3 Spokes
36-2W	DH	RT1	ELDH 36-2W	Open Hub, 3 Spokes
7218	DH	RT29	ELDH 36-2W	Open Hub, 3 Spokes
7236	DR	RT1	ELSPD, ELSFD, ELIFD, ELOFD 60-1W	Open Hub, 3 Spokes
7218	DR	RT29	ELSPD, ELSFD, ELIFD, ELOFD 60-1W	Open Hub, 3 Spokes

Available Divided Lite Patterns

Standard CN	Lite Pattern - Product Series	RT Shape	Unit Alignment	Rectangular Pattern Default
2118	CA	RT6	ELCA TR 16H ELCA 21-1W	2W2H
2519	CA/AWN	RT6	ELCA TR 16H ELCA/ELAWN 25-1W	2W2H
2526	CA/AWN	RT6	ELAWN 23H ELCA/ELAWN 25-1W	2W3H
2920	CA	RT6	ELCA TR 16H ELCA/ELAWN 29-1W	3W2H
2928	CA/AWN	RT6	ELAWN 23H ELCA/ELAWN 29-1W	3W3H
3320	CA	RT6	ELCA TR 16H ELCA/ELAWN 33-1W	3W2H
3328	CA/AWN	RT6	ELAWN 23H ELCA/ELAWN 33-1W	3W3H
3722	CA	RT6	ELCA TR 16H ELCA/ELAWN 37-1W	3W2H
3729	CA/AWN	RT6	ELAWN 23H ELCA/ELAWN 37-1W	3W3H
4121	CA	RT6	ELCA TR 16H ELCA 21-2W	4W2H
4128	CA/AWN	RT6	ELAWN 23H ELCA 21-2W ELCA 59H	4W3H
4164	CA	RT6	ELCA 35H ELCA 21-2W ELCA TR 16H	4W5H
4921	CA/AWN	RT6	ELCA/ELAWN 25-2W ELAWN 23H	4W2H
4929	CA/AWN	RT6	ELCA/ELAWN 25-2W ELCA 59H	4W3H
4965	CA/AWN	RT6	ELCA/ELAWN 25-2W ELCA TR 16H	4W5H
5724	CA/AWN	RT6	ELCA/ELAWN 29-2W ELAWN 23H	6W2H
5731	CA/AWN	RT6	ELCA/ELAWN 29-2W ELCA 59H	6W3H
5767	CA/AWN CA/AWN	RT6	ELCA/ELAWN 29-2W ELCA TR 16H	6W5H
6523 6531	CA/AWN	RT6	ELCA/ELAWN 33-2W ELAWN 23H	6W2H 6W3H
6567	CA/AWN	RT6	ELCA/ELAWN 33-2W ELCA 59H	6W5H
7325	CA/AWN	RT6	ELCA/ELAWN 33-2W ELCA TR 16H	6W2H
7333	CA/AWN	RT6	ELCA/ELAWN 25-3W ELAWN 23H	6W3H
7369	CA/AWN	RT6	ELCA/ELAWN 25-3W ELCA 59H ELCA/ELAWN 25-3W	6W5H

Rectangular Lite Pattern - SDL, GBG

NOTE: Direct Glaze Round Tops with GBGs or SDL will only align with the lite cut of the unit it is intended to be mulled with.

Available Divided Lite Patterns

Standard CN	Product Series	RT Shape	Unit Alignment	Rectangular Pattern Default
2619	DH	RT6	ELDH TR 16H ELDH 26-1W	3W2H
3021	DH	RT6	ELDH TR 16H ELDH 30-1W	3W2H
3421	DH	RT6	ELDH TR 16H ELDH 34-1W	3W2H
3622	DH	RT6	ELDH TR 16H ELDH 36-1W	3W2H
3820	DH	RT6	ELDH TR 16H ELDH/ELDH P 38-1W	4W2H
4222	DH	RT6	ELDH TR 16H ELDH/ELDH P 42-1W	4W2H
5222	DH	RT6	ELDH TR 16H ELDH 26-2W	6W2H
5622	DH	RT6	ELDH TR 16H ELDH 26-2W	6W5H
6025	DH/DR	RT6	ELDH TR 16H ELDH 30-2W	6W2H
6032	DH/DR	RT6	ELDH TR 16H ELDH 30-2W	6W3H
6069	DH/DR	RT6	ELDH 60H ELDH 30-2W	6W5H
6824	DH	RT6	ELDH TR 16H ELDH 34-2W	6W2H
6868	DH	RT6	ELDH 60H ELDH 34-2W	6W5H
7225	DH/DR	RT6	ELDH TR 16H ELDH 36-2W	6W2H
7233	DH/DR	RT6	ELDH 36-2W	6W3H
7269	DH/DR	RT6	ELDH 36-2W	6W5H
7626	DH/DR	RT6	ELDH TR 16H ELDH/ELDH P 38-2W	8W2H
7670	DH	RT6	ELDH 60H ELDH/ELDH P 38-2W	8W5H
8429	DH	RT6	ELDH TR 16H ELDH/ELDH P 42-2W	8W2H
8473	DH	RT6	ELDH 60H ELDH/ELDH P 42-2W	8W5H

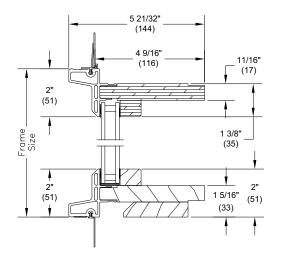
Rectangular Lite Pattern - SDL, GBG

NOTE: Direct Glaze Round Tops with GBGs or SDL will only align with the lite cut of the unit it is intended to be mulled with.

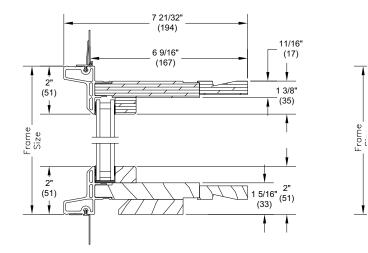


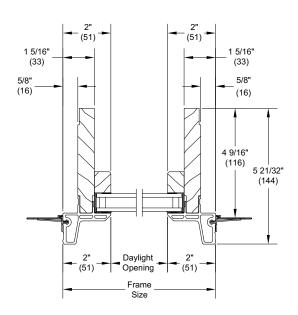
Section Details - Casement

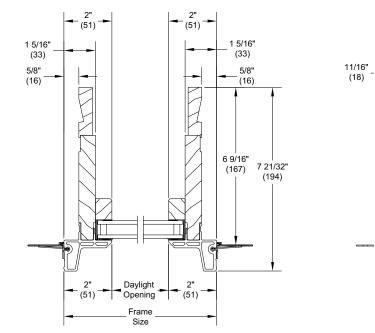
CASEMENT - 4 9/16"



CASEMENT - 6 9/16"

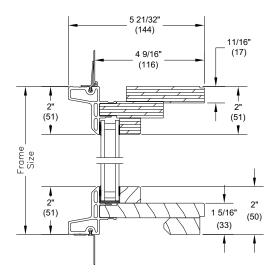




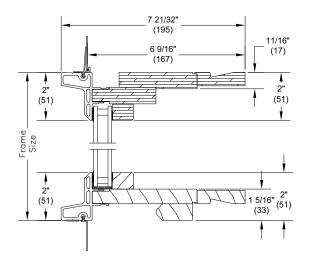


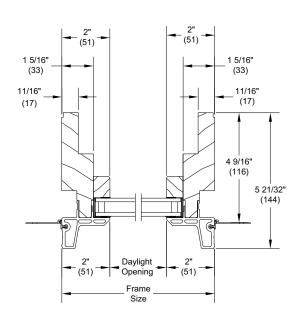
Section Details - Double Hung/Door

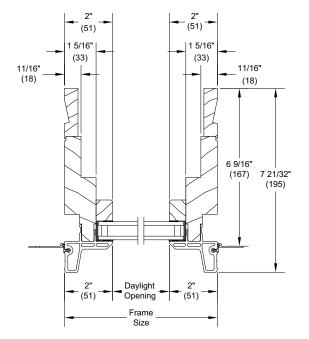
DOUBLE HUNG/DOOR - 4 9/16"



DOUBLE HUNG/DOOR - 6 9/16"

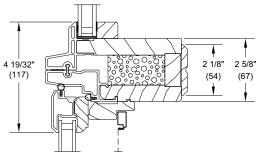




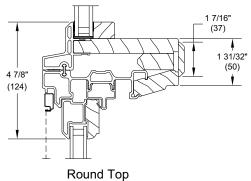




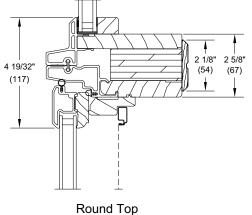
Section Details - Mullions



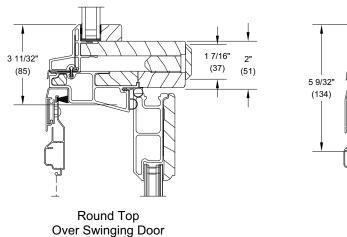
Round Top Over Operating Casement

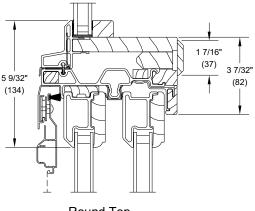


Round Top Over Double Hung



Casement With LVL Support

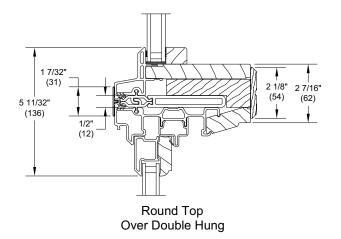




Round Top Over Patio Door

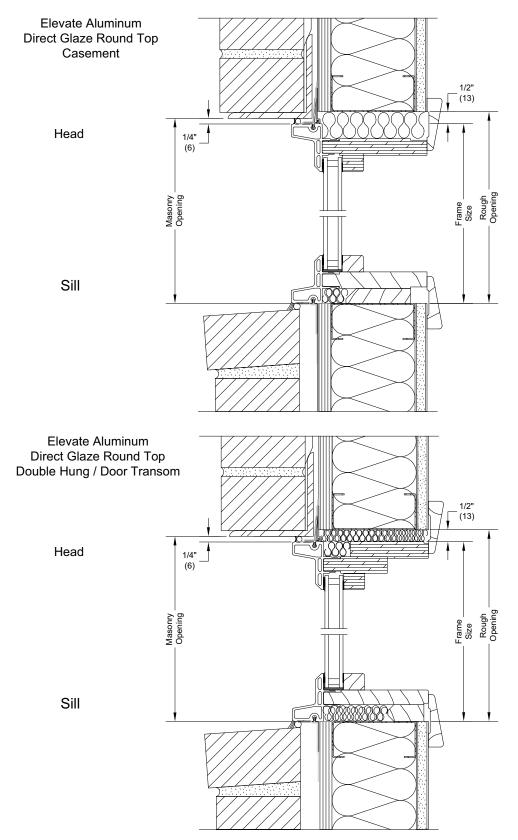


Section Details - 1/2" MRF Mullions





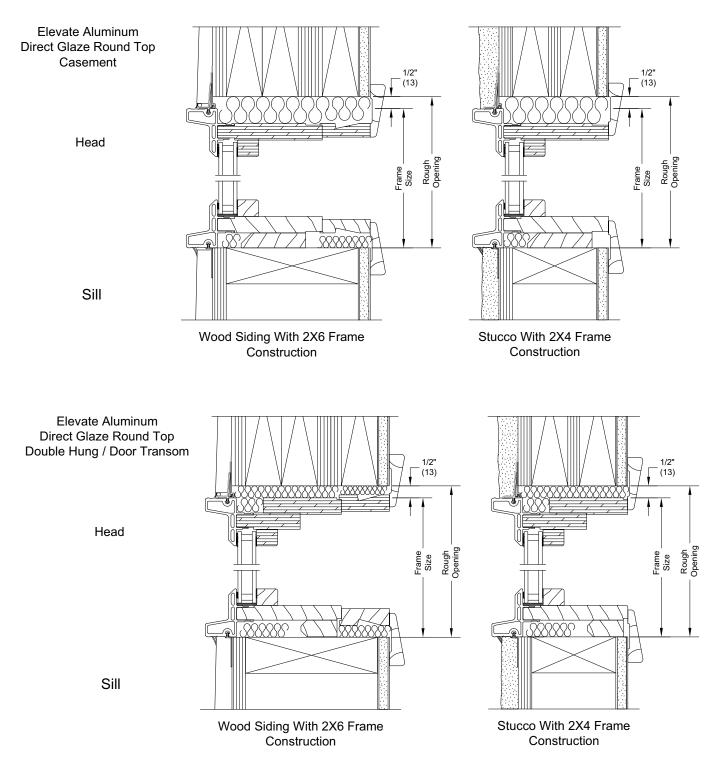
Installation Suggestion - Brick Veneer with Steel Frame Construction



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.



Installation Suggestion - Wood Siding with Frame Construction



NOTE: Round Top unit shown with jamb extension

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.