LEGEND IMPACT RADIUS

Elevations

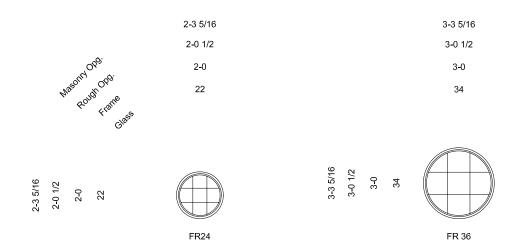
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Specifications and technical data are subject to change without notice.

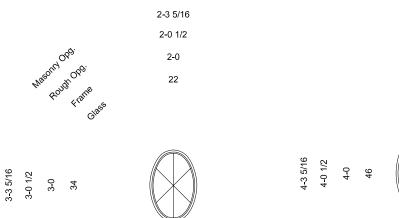
Legend Impact Series Legend Full Round and Oval ELEVATIONS FULL ROUND / OVAL

SCALE: 1/8" = 1'0"

FULL ROUND



OVAL



OVL 2436

OVL 3648

3-3 5/16

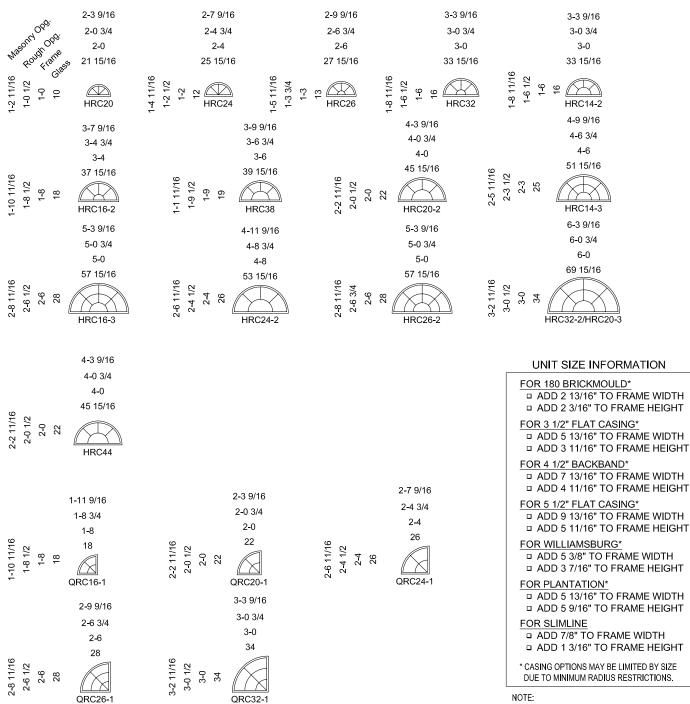
3-0 1/2

3-0

34

Legend Impact Series LEGEND RADIUS - CASEMENT

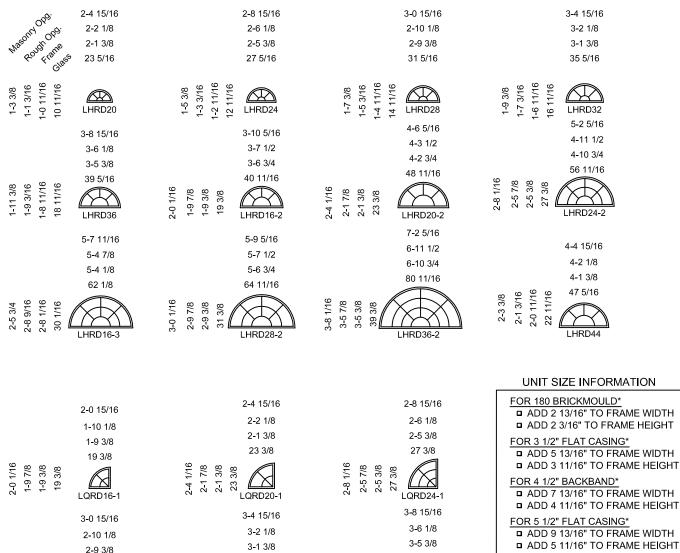
ELEVATIONS : HALF ROUND / QUARTER ROUND SCALE: 1/8" = 1'-0"



ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT TO CALCULATE MASONRY OPENING

Legend Impact Series **LEGEND RADIUS - DOUBLE HUNG**

ELEVATIONS : HALF ROUND / QUARTER ROUND SCALE: 1/8" = 1'-0"



ADD 9 13/16" TO FRAME WIDTH ADD 5 11/16" TO FRAME HEIGHT FOR WILLIAMSBURG* ADD 5 3/8" TO FRAME WIDTH

ADD 3 7/16" TO FRAME HEIGHT FOR PLANTATION*

ADD 5 13/16" TO FRAME WIDTH ADD 5 9/16" TO FRAME HEIGHT

FOR SLIMLINE ADD 7/8" TO FRAME WIDTH

ADD 1 3/16" TO FRAME HEIGHT

* CASING OPTIONS MAY BE LIMITED BY SIZE DUE TO MINIMUM RADIUS RESTRICTIONS.

NOTE

39 3/8

LQRD36-1

3-8 1/16

3-5 7/8 3-5 3/8

39 3/8

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT TO CALCULATE MASONRY OPENING

35 3/8

LQRD32-1

3/8

35

3-4 1/16 3-1 7/8 3-1 3/8

3-0 1/16 2-9 7/8 2-9 3/8

31 3/8

31 11/16

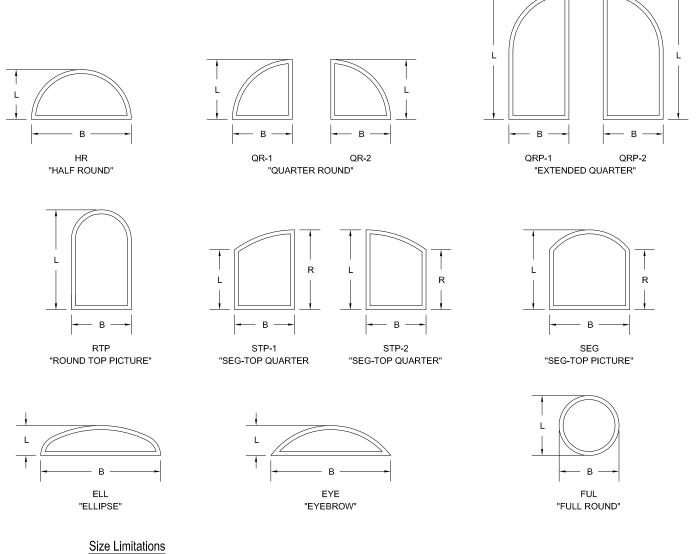
LORD28-1

Legend Impact Series Legend Special Radius

Shapes

Radius Shapes Chart

Units must be ordered by FRAME DIMENSIONS only



- 1. The maximum dimension is 54" x 108" or 108" x 54"
- 2. The minimum base dimension is 14 inches.
- 3. The minimum leg dimension is 6 inches.
- 4. The maximum Square Footage allowed is 40 Square Feet.
- 5. The minimum pitch is a 5/12 angle.
- 6. The Aspect Ratio is 7 to 1 maximum.
- 7. Any one unit can not have glass smaller than 8" x 12".
- 8. Some spacer may be visible on units with tight angles.

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled low-maintenance PVC radius windows [including in-sash and direct glaze construction], glass and glazing, and [grilles].
- B. Anchorages, attachments, and accessories.

1.02 RELATED SECTIONS

- A. Section 01340 Shop Drawings, Product Data, and Samples.
- B. Section 01610 Delivery, Storage, and Handling.
- C. Section 01710 Final Cleaning.
- D. Section 07200 Batt and Blanket Insulation.
- E. Section 07920 Sealants and Caulking.
- F. Section 08800 Glass and Glazing.

1.03 REFERENCES

- A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
 - 1. ASTM E-283 Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.
 - 2. ASTM E-547 Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Difference.
 - 3. ASTM E-330 Structural Performance of Exterior Windows, Curtain Walls, and Doors under Uniform Static Air Pressure Difference.
- B. NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWWDA):
 - 1. AAMA / NWWDA 101-I.S.2 97 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.
 - 2. NWWDA I.S-4-81 Industry Standard for Water-Repellent Preservative Treatment for Millwork
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

1.04 PERFORMANCE CRITERIA

- A. Radius units shall meet requirements in accordance with AAMA 506-08 / NWWDA 101-I.S.2-97 / CSA A440.
- B. Air leakage shall not exceed 0.30 cfm per sq.ft. of sash when tested in accordance with ASTM E-283 at 1.57 psf.
- C. No water penetration shall be allowed when tested in accordance with ASTM E-547.
- D. Window units shall withstand positive and negative wind loads without damage. The units shall be tested in accordance with ASTM E-330.
- E. Window units shall meet impact requirements in accordance with AAMA 506-2000 / ASTM E-1886-05 / ASTM E-1996-06.

1.05 SUBMITTALS

- A. Shop drawings shall be submitted in accordance with Section 01340.
- B. Product data in the form of general catalogs, test lab reports, product performance, and warranty information shall be submitted in accordance with Section 01340.
- C. Samples showing glazing, quality of construction, and finish shall be submitted in accordance with Section 01340.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. In compliance with Section 01610, window units shall be delivered undamaged and with protective packaging. Complete installation and finishing instructions shall be included.
- B. Store units in a clean, dry place off the ground in an upright position.

SPECIFICATIONS

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Legend Series Radius window units including in-sash and direct glaze construction as manufactured by Windsor Windows & Doors.

2.02 MATERIALS

- A. Frame: All exterior stops shall be low-maintenance cellular PVC material. Sill jamb shall be interior primed select softwoods treated with water repellent preservative in accordance with NWWDA I.S.-4. Radius jamb material shall be low-maintenance cellular PVC material. Installation clips and screws will be provided with units.
- B. Finish: Shall be one coat latex redi-finish topcoat applied to exterior surfaces of frame. This finish can be left as is or repainted if other color is desired. Interior cellular PVC components shall be one coat latex redi-finish top coat applied.
 C. Glazing: Shall be 1" Sea Storm[™] Laminated LoE² insulating glass as standard, glazed with
- C. Glazing: Shall be 1" Sea Storm[™] Laminated LoE² insulating glass as standard, glazed with double-faced tape plus a full perimeter of structural silicone, and interior wood stops. Cardinal's Preserve[™] option is standard for Sea Storm[™] Impact IG. It is a removable, factory-applied protective film adhered to both interior and exterior surfaces of the glass.
- D. Grilles: (Extra when specified) White, cinnamon, bronze, tan, ivory, hunter green, or black aluminum inner grilles (in air space) are available in 13/16" flat or 3/4" profiled. Two-toned inner grilles are available with a white interior, and a bronze, green, tan, ivory, or black exterior. Windsorlite (WDL) simulates true divided lite, but is created by adhesively fixing cellular PVC exterior and interior bars to the surfaces of the insulated glass. WDL is available in 5/8", 7/8" and 1-1/4" widths. See Divided Lite Options for profile details. Available in white color only. Also available with or without inner bar between the glass.

SPECIFICATIONS

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify that there is no visible damage to the unit before installation.

3.02 INSTALLATION

- A. Verify the rough opening is of the recommended size and that it is plumb, level, and square.
- B. Install the window unit in accordance with the manufacturer's recommendations.
- C. Install sealant, backing material, and insulation around opening perimeter in accordance with Section 07900 and Section 07920.
- D. For installation details reference Florida drawing number 1380.

3.03 ADJUSTMENT AND CLEANING

- A. Cover the window unit to avoid damage due to spray paint, plaster, and other construction operations.
- B. Remove all visible labels and instructions.
- C. Final cleaning of glass in accordance of Section 01

NFRC VALUES / DESIGN PRESSURE VALUES

NFRC Unit Values											
Glazing Type	U-Value	R-Value	Solar Heat Gain Coefficient	Visible Light Tansmittance	Fading Transmission						
	Ir	-Sash/Direct Gla	aze								
LoE 240 glass	0.31	3.23	0.22	27%	0.35						
LoE ² 272 glass (Standard)	0.27	3.70	0.36	50%	0.53						
LoE 366 glass	0.27	3.70	0.24	45%	0.43						
LoE ² glass with breather tubes	0.31	3.23	0.36	50%	0.53						

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 it's 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 it's shading ability. Fading Transmission: The lower the number, the better the glass is for reducing fading potential of carpets and interior furnishings

Capillary tubes are required for IG units at high elevations. Argon will not be furnished in units with capillary tubes.

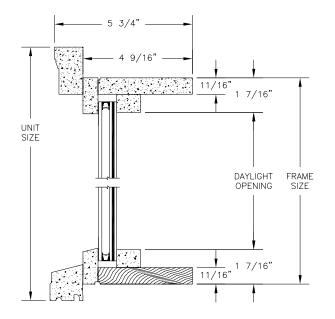
Design Pressure Values - Direct Glaze											
Frame		12	24	36	48	54	60	72	84	96	108
Size		Width									
12		50	50	50	50	50	50	50	50	50	50
24		50	50	50	50	50	50	50	50	50	50
36		50	50	50	50	50	50	50	50	50	50
48		50	50	50	50	50	50	50	50	50	50
54	ght	50	50	50	50	50	50	50	50	50	50
60	Hei	50	50	50	50	50	NA	NA	NA	NA	NA
72		50	50	50	50	50	NA	NA	NA	NA	NA
84		50	50	50	50	50	NA	NA	NA	NA	NA
96		50	50	50	50	50	NA	NA	NA	NA	NA
108		50	50	50	50	50	NA	NA	NA	NA	NA

MEASUREMENT CONVERSIONS

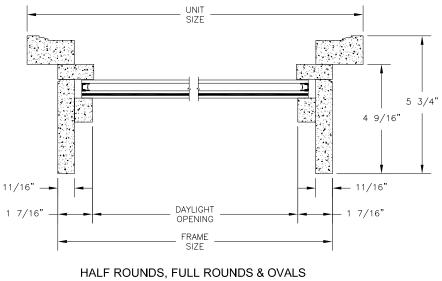
	STANDARD BRICKMOULD - DIRECT GLAZE												
Size Referenced			Daylite Opening		ass ze		ime ze		ugh ning	-	nit ize		sonry ning
		Dimension Needed											
Daylite				Width	+ 7/8	Width	+ 2 7/8	Width	+ 3 5/8	Width	+ 5 11/16	Width	+ 6 7/16
Opening				Height	+ 7/8	Height	+ 2 7/8	Height	+ 3 3/8	Height	+ 5 1/16	Height	+ 5 9/16
Glass		Width	- 7/8			Width	+ 2	Width	+ 2 3/4	Width	+ 4 13/16	Width	+ 5 9/16
Size		Height	- 7/8			Height	+ 2	Height	+ 2 1/2	Height	+ 4 3/16	Height	+ 4 11/16
Frame	Given	Width	- 2 7/8	Width	- 2			Width	+ 3/4	Width	+ 2 13/16	Width	+ 3 9/16
Size	on Gi	Height	- 2 7/8	Height	- 2			Height	+ 1/2	Height	+ 2 3/16	Height	+ 2 11/16
Rough	Dimension	Width	- 3 5/8	Width	- 2 3/4	Width	- 3/4			Width	+ 2 1/16	Width	+ 2 13/16
Opening	Din	Height	- 3 5/8	Height	- 2 1/2	Height	- 1/2			Height	+ 1 11/16	Height	+ 2 3/16
Unit		Width	- 5 11/16	Width	- 5 13/16	Width	- 2 13/16	Width	- 2 1/16			Width	+ 3/4
Size		Height	-5 1/16	Height	- 4 3/16	Height	- 2 3/16	Height	- 1 11/16			Height	+ 1/2
Masonry		Width	- 6 7/16	Width	- 5 9/16	Width	- 3 9/16	Width	- 2 13/16	Width	- 3/4		
Opening		Height	- 5 9/16	Height	- 4 11/16	Height	- 2 11/16	Height	- 2 3/16	Height	- 1/2		

3 1/2 FLAT CASING - DIRECT GLAZE																			
Size Referenced		Daylite Opening				,		-		Glass Size		-	Frame Size		Rough Opening		Unit Size		onry ning
					1		Dimension	Needed											
Daylite				Width	+ 7/8	Width	+ 2 7/8	Width	+ 3 5/8	Width	+ 8 11/16	Width	+ 9 7/16						
Opening	Opening			Height	+ 7/8	Height	+ 2 7/8	Height	+ 3 3/8	Height	+ 6 9/16	Height	+ 7 1/16						
Glass		Width	- 7/8			Width	+ 2	Width	+ 2 3/4	Width	+ 7 13/16	Width	+ 8 9/16						
Size		Height	- 7/8			Height	+ 2	Height	+ 2 1/2	Height	+ 5 11/16	Height	+ 6 3/16						
Frame		Width	- 2 7/8	Width	- 2			Width	+ 3/4	Width	+ 5 13/16	Width	+ 6 9/16						
Size	Given	Height	- 2 7/8	Height	- 2				+ 1/2	Height	+ 3 11/16	Height	+ 4 3/16						
Rough		Width	- 3 5/8	Width	- 2 3/4	Width	- 3/4			Width	+ 5 1/16	Width	+ 5 13/16						
Opening	Dimension	Height	- 3 5/8	Height	- 2 1/2	Height	- 1/2			Height	+ 3 3/16	Height	+ 3 11/16						
Unit		Width	- 8 11/16	Width	- 7 13/16	Width	- 5 13/16	Width	- 5 1/16			Width	+ 3/4						
Size		Height	- 6 9/16	Height	- 5 11/16	Height	- 3 11/16	Height	- 3 3/16			Height	+ 1/2						
Masonry		Width	- 9 7/16	Width	- 8 9/16	Width	- 6 9/16	Width	- 5 13/16	Width	- 3/4								
Opening		Height	- 7 1/8	Height	- 6 3/16	Height	- 4 3/16	Height	- 3 11/16	Height	- 1/2								

SECTION DETAILS : DIRECT GLAZE SCALE: 3" = 1'-0"

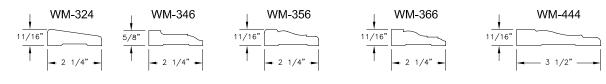


HEAD JAMB & SILL



JAMB





SECTION DETAILS : CASING OPTIONS SCALE: 3" = 1'-0"

