



Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

IF YOU HAVE QUESTIONS REGARDING SIZES OUTSIDE OF THESE LIMITATIONS, CONTACT LINCOLN WOOD PRODUCTS

CASEMENT

	GLASS	MIN BOX	MAX BOX	SQUARE CLAD SASH	NOTES
Operating					
Crank Out	DBL INSUL	16 x 18	42 x 96	X	Single Pane Glass also Available 8:1 Glass Ratio Must be Tempered Segment Casements: Minimum height for frame hinge leg is 25". Radius Square Sash Clad Not Available
	TRPL INSUL	16 x 18	42 x 72 or 36 x 84	X	
Segment Head	DBL INSUL	20 x 28 leg 25	42 x 96		Triple Glaze Only Available For Clad Units as Indicated
*Pushout	DBL INSUL	16 x 18	42 x 90	X	*Rectangle screen Not Allowed on Units < 20" Box Width or > 84" Box Height Minimum 21" Glass Height for WOOD SCREEN Option. Push-Out French Casement RETRACTABLE SCREEN: Maximum Cassette Width = 70". Maximum Box Height = 84"
	TRPL INSUL	16 x 18	42 x 72 or 36 x 84	X	
Pushout French	DBL INSUL	30 x 20	72 x 90	X	Push-Out French Not Available with Radius Radius French Casement Only Available as Crank-Out
Studio					
Casement	SNGL PANE	12 X 12	38 sq ft MAX	X	38 square feet maximum for wood SNGL pane TDL units 48 square feet maximum for wood DBL pane TDL units Triple Glaze Only Available For Clad Units DBL Insulated Over 77x77 Box size must be 1" glass 8:1 Glass Ratio Must be Tempered
	DBL INSUL	12 X 12	78 x 96	X	
	TRPL INSUL	12 X 12	60 x 90	X	
Lincoln Fit	GLASS	MINIMUM SASH OPENING	MAXIMUM SASH OPENING		
Operating	DBL INSUL	15-5/8 x 13-1/4	42-3/8 x 84	X	Lincoln Fit Casement: Radius units not available.
Studio	DBL INSUL	13-5/8 x 13-1/4	78 x 108	X	
Bow/Bay Window					
			144 Wide MAX	X	
Transom					
Over Casement Studio		13 x 12	78 x 30	X	Tempered Glass Standard on Glass Size 12" high and Under
Over 3 Wide Casement		13 x 12	108 x 29	X	
Over 3 Wide Swing Door		13 x 12	110-1/2 x 30	X	
Over DBL Hung Studio		13 x 12	97-3/8 x 30	X	
Over 3 Wide DBL Hung		13 x 12	100-1/8 x 30	X	

AWNING

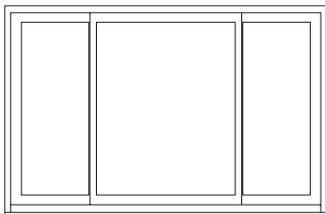
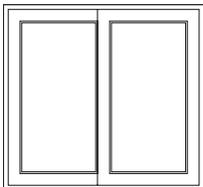
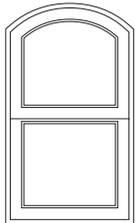
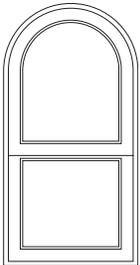
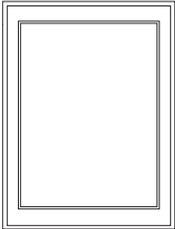
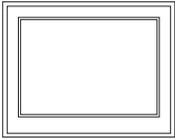
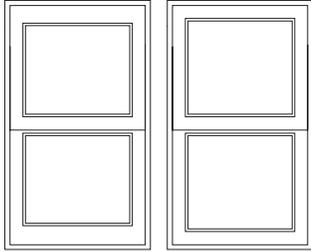
Operating					
Crank Out	SNGL Pane	18 x 18	60 x 60	X	Triple Glaze Only Available For Clad Units
	DBL INSUL	18 x 18	60 x 60	X	
	TRPL INSUL	18 x 18	48 x 36 or 36 x 48	X	
Pushout	SNGL Pane	18 x 18	48 x 42	X	
	DBL INSUL	18 x 18	48 x 42	X	



Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

Double Hung/Single Hung



Double Hung/Single Hung/Lincoln Fit/Replacement Kits

	MIN GLASS	MAX GLASS	NOTE
Wide Rail	12 x 12	40 x 42	
Narrow	12 x 12	40 x 43-1/16	

Transom

	MIN GLASS	MAX GLASS	NOTE
	8 x 12	40 x 24-3/8	Tempered Glass Standard on Glass Size 12" high and Under 49 square feet Maximum for IG, Tempered and Low-E double pane glass

Double Hung Studio/Lincoln FIT Studio

	MIN BOX	MAX BOX	NOTE
Studio	13-3/8 x 15	102 x 88	38 square feet Maximum for single pane 1 lite units 38 square feet Maximum for wood single pane TDL units 48 square feet Maximum for wood double pane TDL units 8:1 Glass Ratio Must be Tempered

1/2 Round Single Hung

	MIN BOX WIDTH	MAX GLASS SIZE	NOTE
Clad	34	40 x 32	
Wood	20	40 x 32	

Segment Head Single Hung

	MIN GLASS	MAX GLASS	NOTE
	16 x 12	40 x 36	When converted into a single hung a Maximum glass size of 40 x 42 is allowable Minimum Radius = 17" Lincoln Fit DH Minimum Radius = 12-7/8

Double Gliders

	MIN GLASS	MAX GLASS	NOTE
	16 x 12	32-1/8 x 54	Units larger than 32 x 48 must be disclaimed - No Warranty for Operation or Performance

Triple Gliders

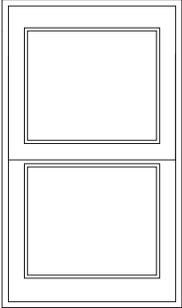
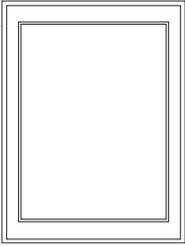
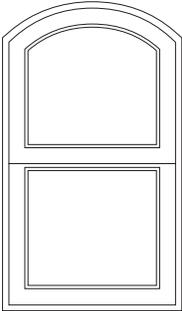
	MIN GLASS	MAX GLASS	NOTE
	16/32/16 x 12	24/48/24 x 54	



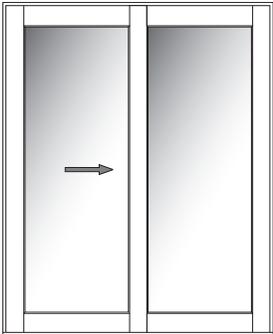
Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

Quantum

		MIN GLASS	MAX GLASS	NOTE
  	Double Hung	16 x 16	48 x 52	<p>Minimum frame radius in house for clad units is 72".</p> <p>Windows with smaller radius must be stretch bent and will be handled as individual request.</p>
	Studio	36 x 32-7/8	72 x 104-7/8	<p>52 square feet Maximum for IG, tempered and low-E double pane GLASS</p> <p>38 square feet Maximum for single pane 1 lite units</p> <p>38 square feet Maximum for wood single pane TDL units</p> <p>52 square feet Maximum for wood double pane TDL units</p> <p>8:1 GLASS ratio must be tempered</p>
	Segment Head	32x32	48x52	

Slide Door

		MIN BOX	MAX BOX	NOTE
	Sidelite: Narrow Lifestyle Wide	31-5/16 x 79-1/8 31-7/8 x 79-1/8 32-5/8 x 79-1/8	49-5/16 x 98-1/4 49-7/8 x 110-1/4 50-5/8 x 110-1/4	All Doors are Tempered Glass
	2 Wide	58-3/16 x 79-1/8	94-3/16 x 110-1/4	
	3 Wide: Narrow Lifestyle Wide	89-1/2 x 79-1/8 90-1/16 x 79-1/8 90-13/16 x 79-1/8	143-1/2 x 98-1/4 144-1/16 x 110-1/4 144-13/16 x 110-1/4	
	4 Wide	114-1/8 x 79-1/8	186-1/8 x 110-1/4	16/0 (4) Wide Door disclaimer - No Warranty for Operation or Performance
	Transom	31-5/16 x 12	117-13/16 x 28	Tempered Glass Standard on Glass Size 12" and Under Local code may require transom glass to be tempered



Minimum and Maximums

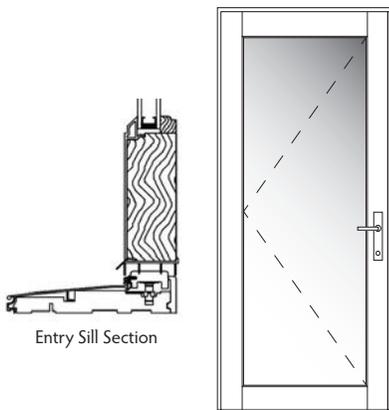
LINCOLN WOOD PRODUCTS, INC.

In/Out-Swing

	MIN BOX	MAX BOX	NOTE	
1-3/4"				
	Vented or Stationary Sidelite: Narrow	13-3/8 x 79-1/8	Vented Sidelite with an Entry Door sill are NOT allowed. Radius Doors: 72" Frame Radius Standard. Special radius upon request True Radius Door: Not available under 5/0 width.	
	Lifestyle	25-3/8 x 79-1/8		
	Wide	25-3/8 x 79-1/8		
	1 Wide Swing Operating Door	31-3/8 x 79-1/8	37-3/8 x 110-1/4	True radius and segment, single wide hinged doors cannot receive 5-point hardware. Single-Wide, True Radius (bullet-top) hinged Door Guidelines: •No multi-point hardware allowed •No exterior clad option, wood / primed only •Locking systems (hardware) limited to: ▶Single-point ▶Double bore ▶Single bore 3 Point Hardware Limitation: Doors with a frame height less than 73-1/4 can be made as double bore only.
	2 Wide	61-15/16 x 79-1/8	73-15/16 x 110-1/4	
	French Door	49-15/16 x 79-1/8	73-15/16 x 110-1/4	
3 Wide Swing	92-1/2 x 79-1/8	110-1/2 x 98-1/4		
4 Wide French Door	99 x 79-1/8	147-1/8 x 98-1/4		
2-1/4"				
	1 Wide fixed or Operating Door	31-3/8 x 82-1/4	Triple Glaze Doors SDL Bar: 1/4" thick Interior SDL bar only. Lifestyle Swing Doors w/Triple Glaze: No less than 7-3/16" bottom rail unless the panel uses a mid-rail. 8:1 glass ratio must be tempered.	
	2 Wide	61-15/16 x 82-1/4		85-15/16 x 122-1/4
	French Door	49-15/16 x 82-1/4		85-15/16 x 122-1/4
Sizes exceeding those listed above are not certified.				
Transoms 1-3/4 & 2-1/4				
	MIN BOX	MAX BOX	Transoms larger than 9/0 width will be split into multiple units. Local code may require transom glass to be tempered 8:1 glass ratio must be tempered.	
	13-3/8 x 12	106-1/2 x 28		

Entry Sill Door Option

AVAILABLE AS IN-SWING ONLY



Entry Sill Section

FOR SIZES: REFER TO 1-3/4 , 2-1/4 IN/OUT-SWING and 1-3/4 STATIONARY SIDELITE Sections Above

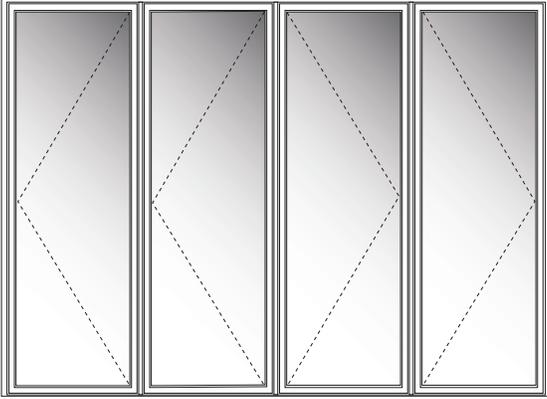
- Single Point Lock Standard. Multi-point and Double Bore Optional.
- 5 Point Hardware not an available option.
- Multi-Point option not available over 8/0 height.
- Bronze sill / threshold only.
- Available as 1-3/4" and 2-1/4 door.
- Available as 1 wide, 2 wide and French only
- 6-9/16" exterior jamb option is available.
- Frame sizes match current door frame sizes
- Vented Sidelite with an Entry Door sill are NOT allowed.



Minimum and Maximums

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Folding Window Specifications – Twin Point Hardware



MIN BOX	MAX BOX
25-9/16 x 37-3/16	288-3/8 x 72

Single swinging panel not allowed

One handle hinge located near the bottom at every lock location.

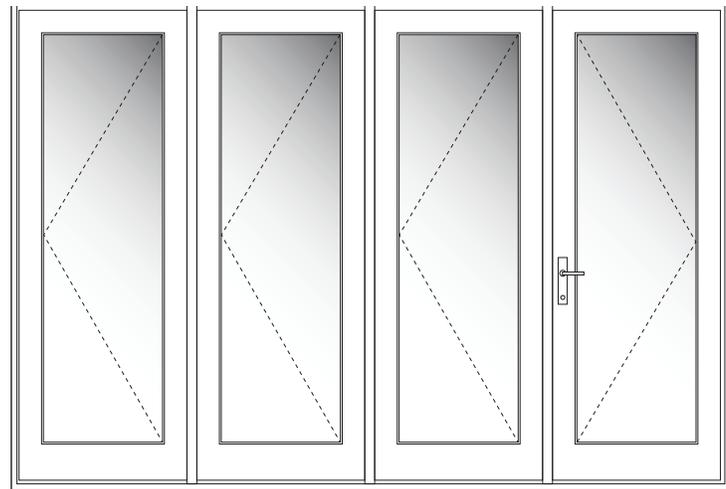
Panel height 53-13/16" (57" Box height) and larger will have 3 hinges. Smaller sizes will have 2 hinges.

Center of handle height = 17"

Sill channel only.

Standard height offerings:	
Box Height	Panel Height
38	34-13/16
42	38-13/16
48	44-13/16
54	50-13/16
60	56-13/16
66	62-13/16
72	68-13/16

Folding Door Specifications – Twin Point Hardware

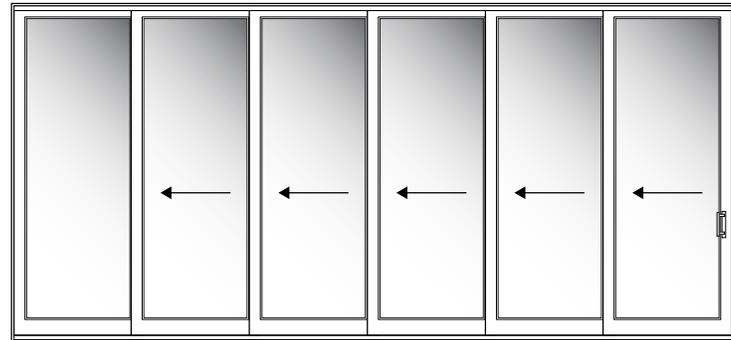


	MIN BOX	MAX BOX
1-3/4 Panel Standard Sill	49-11/16 x 81-1/8	288-3/8 x 112-1/4
2-1/4 Panel Standard Sill	49-11/16 x 81-1/8	288-3/8 x 124-1/4
1-3/4 Panel Floor Channel	49-11/16 x 80	288-3/8 x 111-1/8
2-1/4 Panel Floor Channel	49-11/16 x 80	288-3/8 x 124-1/4

9/0 Call Out Door Height Maximum on 1-3/4

Center of handle height = 36"

Multi-Slide Door

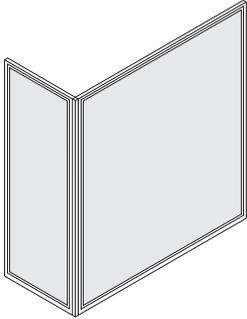


<p>1-3/4" Panel Thickness</p> <p>Maximum Panel Width: 4' 0-1/2"</p> <p>Maximum Panel Height: 9' 0"</p> <p>Maximum Number of Panels: 10</p> <p>Approximate Maximum Width: 36'</p> <p>Maximum Height: 9' 0-3/16"</p> <p>Minimum Roof Overhang: 8' 0"</p>
<p>2-1/4" Panel Thickness</p> <p>Maximum Panel Width: 6' 0"</p> <p>Maximum Panel Height: 10' 0"</p> <p>Maximum Number of Panels: 10</p> <p>Approximate Maximum Width: 36' 0"</p> <p>Maximum Height: 10' 3-1/8"</p> <p>Minimum Roof Overhang: 8' 0"</p>

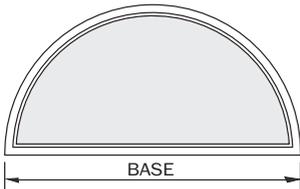
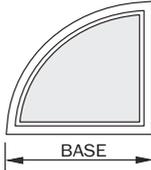
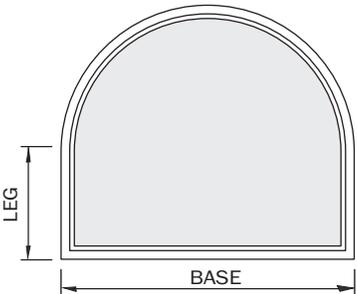
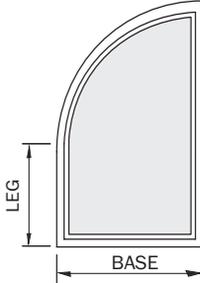


Direct Set Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

Direct Set			
	MIN Box	MAX Box	Note
	12x12	12' Maximum in either width or height, not to exceed 70 square ft.	38 square feet maximum for single pane 1 lite unit 38 square feet maximum for wood single pane TDL units
		Triple Glaze Annealed: 62" x 81" / 81" x 62" or 35" x 142" / 142" x 35"	48 square feet maximum for wood double pane TDL units 8:1 glass ratio must be tempered
		Triple Glaze Tempered: 62" x 112" / 112" x 62"	Square footage is based on actual glass size not a rectangular piece of glass
Corner Window			
		One leg can be 96" max frame size. Second leg can only be a max of 72" frame size. Max Height = 96"	

Specialty units are available within these parameters, other custom shapes may be available upon request.
Units not to exceed 70 square ft. See previous page for Triple Glaze Unit limits.

HALF ROUNDS		QUARTER ROUNDS	
	BOX SIZE		BOX SIZE
	Minimum Base: 18 Maximum Base: 144		Minimum Base: 14 Maximum Base: 84
EXTENDED LEG HALF ROUNDS		EXTENDED LEG QUARTER ROUNDS	
	BOX SIZE		BOX SIZE
	Minimum Base: 18 Maximum Base: 144 Minimum Leg: 4		Minimum Base: 14 Maximum Base: 84 Minimum Leg: 4

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Direct Set Minimum and Maximums

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Units not to exceed 70 square ft.

ELLIPSE	
	<p>BOX SIZE</p> <p>Minimum Base: 30 Maximum Base: 144</p> <p>Minimum Radius: 5-7/8 Inside 6-7/8 Outside</p>

EXTENDED LEG ELLIPSE	
	<p>BOX SIZE</p> <p>Minimum Base: 30 Maximum Base: 144</p> <p>Minimum Leg: 4</p> <p>Minimum Radius: 5-7/8 Inside 6-7/8 Outside</p>

GOTHIC	
	<p>BOX SIZE</p> <p>Minimum Base: 14 Maximum Base: 144</p>

SEGMENT	
	<p>BOX SIZE</p> <p>Minimum Height: 10 (*) Minimum Base: 21 Maximum Base: 144</p>
<p>(*) Minimum height limitation may be larger than 10". Larger base widths require a larger height for manufacturing</p>	

EXTENDED LEG GOTHIC	
	<p>BOX SIZE</p> <p>Minimum Base: 20 Maximum Base: 144</p>

EXTENDED LEG SEGMENTS	
	<p>BOX SIZE</p> <p>Minimum Base: 14 Maximum Base: 144</p> <p>Minimum Leg: 4</p> <p>Minimum Radius: 9</p>

TRAPEZOID	
	<p>BOX SIZE</p> <p>Minimum Leg: 4 Maximum Leg: 120</p> <p>10' Maximum in either width or height, not to exceed 70 square ft.</p>

CIRCLE	
	<p>BOX SIZE</p> <p>Minimum Diameter: 18 Maximum Diameter: 74</p>

TRAPEZOID	
	<p>BOX SIZE</p> <p>Minimum Leg: 4 Maximum Side: 144</p> <p>12' Maximum in either width or height, not to exceed 70 square ft.</p>

OVAL	
	<p>BOX SIZE</p> <p>Minimum Width: 20 Maximum Height: 144* Maximum Width: 84</p>
<p>(*) Maximum height limitation may be smaller than 120" Some widths require a smaller height for manufacturing.</p>	

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Direct Set Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

Specialty units are available within these parameters, other custom shapes are available upon request.
Units not to exceed 70 square ft.

PARALLELOGRAM	
	<p>BOX SIZE</p> <p>Minimum Side: 4 Maximum Side: 120</p> <p>The diagonal Side is determined by Tip to Tip Width x Height and filling in the Top/Bottom Size in LiteBuilder</p>

OCTAGON	
	<p>BOX SIZE</p> <p>Height and Width Minimum: 14.5 Maximum: 72</p>

TRIANGLE	
	<p>BOX SIZE</p> <p>Minimum Pitch: 4/12 - Clad & Wood Maximum Side: 120</p>

EXTENDED OCTAGON	
	<p>BOX SIZE</p> <p>Height and Width Minimum: 14.5 Maximum: 72</p>

PENTOID	
	<p>BOX SIZE</p> <p>Minimum Leg: 4 Maximum Leg: 144</p>

RECTANGLE	
	<p>BOX SIZE</p> <p>Minimum Side: 12 Maximum Side: 144 Not to exceed 70 square ft</p>

Vented/Fixed Sash Set Minimum and Maximums

Radius and Geometric Sash Set Units		
	<p>Insulated Glass</p>	<p>Note</p> <p>13-1/2" Minimum Sash Radius for Clad Sash Set (Putty Glaze Clad)</p> <p>29" Minimum Box Size for Sash Set Half Rounds w/Putty Glaze Sash Clad</p> <p>Square footage is based on actual glass size not a rectangular piece of glass</p> <p>Radius Square Sash Clad Not Available</p>
	<p>SNGL Pane</p>	<p>Radius and Geometric Shapes not to exceed 38 square feet</p>
<p><i>Units do not meet egress opening requirements</i></p>		

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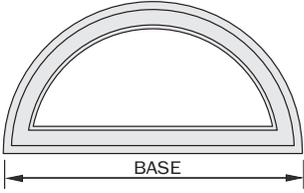
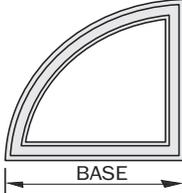
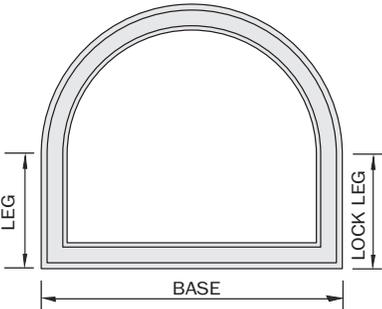
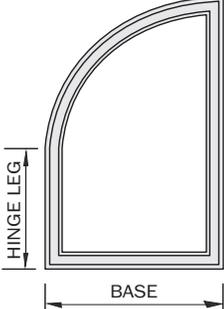
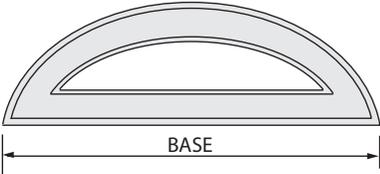
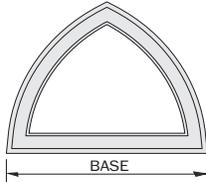
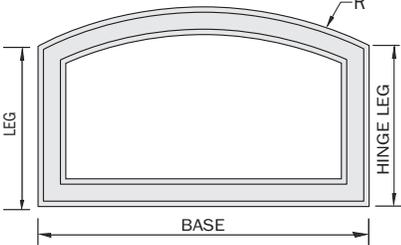
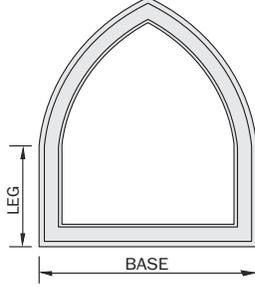
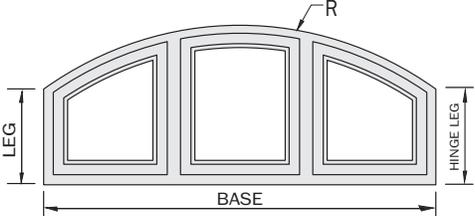
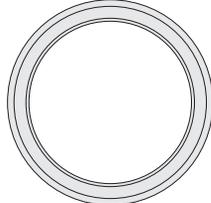
Vented/Fixed Sash Set Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

Specialty units are available within these parameters, other custom shapes are available upon request.

Double Pane Units not to exceed 27 square feet w/internal grills and 58 square feet w/o Internal grills.

Single Pane Units not to exceed 38 square feet.

HALF ROUNDS 		BOX SIZE Minimum Base: 29 Maximum Base: 96
QUARTER ROUNDS 		BOX SIZE Minimum Base: 14 Maximum Base: 84
EXTENDED LEG HALF ROUNDS 		BOX SIZE MIN Base: 29 Minimum Leg: 6 Maximum Stationary Base: 96 Minimum Lock Leg: 31 Maximum Venting Size: 42 X 96
EXTENDED LEG QUARTER ROUNDS 		BOX SIZE Minimum Base: 14 Minimum Leg: 6 Maximum Base: 84 Minimum Hinge Leg: 25 Maximum Venting Size: 42 X 96
SEGMENT 		BOX SIZE Minimum Base: 21 Maximum Base: 96
GOthic 		BOX SIZE Minimum Base: 20 Maximum Base: 96
EXTENDED LEG SEGMENTS 		BOX SIZE Minimum Base: 14 Minimum Leg: 6 Minimum Hinge Leg: 25 Maximum Base: 96 Minimum Radius: 14-1/2
EXTENDED LEG GOthic 		BOX SIZE Minimum Base: 20 Minimum Leg: 6 Minimum Hinge Leg: 25 Maximum Base: 96
EXTENDED LEG SEGMENTS 		BOX SIZE Minimum Base: 14 Minimum Leg: 6 Minimum Hinge Leg: 25 Maximum Base: 144
CIRCLE 		BOX SIZE Minimum Diameter: 29 Maximum Diameter: 74

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Vented/Fixed Sash Set Minimum and Maximums

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Specialty units are available within these parameters, other custom shapes are available upon request.
 Double Pane Units not to exceed 27 square feet w/internal grills and 58 square feet w/o Internal grills.
 Single Pane Units not to exceed 38 square feet.

TRAPEZOID	
	<p>BOX SIZE</p> <p>Minimum Leg: 6 Maximum Height: 96 Maximum Size: 96 x 78 Minimum Hinge Leg: 25 Maximum Venting Size: 42 X 96</p>

OCTAGON	
	<p>BOX SIZE</p> <p>Minimum Height or Width: 14.5 Maximum Height or Width: 72</p>

TRAPEZOID	
	<p>BOX SIZE</p> <p>Minimum Leg: 6 Maximum Height: 96 Maximum Size: 96 x 78</p>

EXTENDED OCTAGON	
	<p>BOX SIZE</p> <p>Minimum Height or Width: 14.5 Maximum Height or Width: 72</p>

PARALLELOGRAM	
	<p>BOX SIZE</p> <p>Minimum Side: 6 Maximum Side: 96</p> <p>The diagonal Side is determined by Tip to Tip Width x Height and filling in the Top/Bottom Size in LiteBuilder</p>

RECTANGLE	
	<p>BOX SIZE</p> <p>Minimum Leg: 12 Maximum Size: 96 x 78</p>

TRIANGLE	
	<p>BOX SIZE</p> <p>Minimum Pitch: 4/12 Maximum Height or Width: 96 Maximum Size: 96 x 78</p>

PENTOID	
	<p>BOX SIZE</p> <p>Minimum Leg: 6 Maximum Leg: 96 Maximum Base: 96 Maximum Size: 96 x 78</p> <p>Must be Within Maximum Square Footage Allowable</p>

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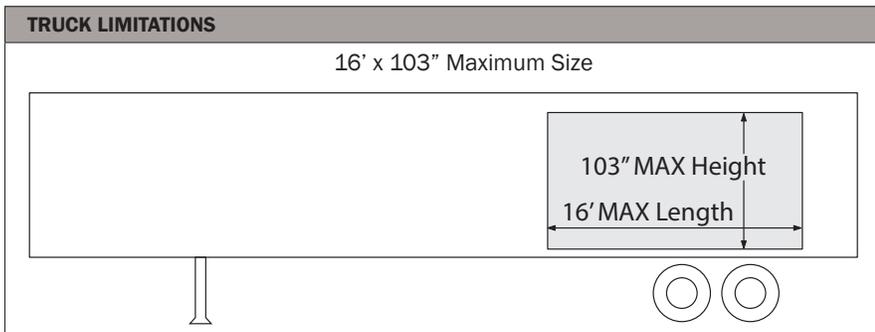


Minimum and Maximums

LINCOLN WOOD PRODUCTS, INC.

LINEAL, BACK BAND, GLASS, GRILL AND TRUCK LIMITATIONS

Wood/PVC Flat Casing	
Maximum applied flat casing - 12' x 8"	
Jamb Extensions	
Maximum applied jamb extension - 9"	
4" Clad Flat Casing / 4" Clad Brickmould	
Minimum outside frame radius of window that casing is being applied to is 26"	
Metal Drip Cap	
Minimum 9" frame radius. Not available on Ovals.	
Back Band Trim Limitations	
One Piece Profile - 36" wide 1/2 round (18" Radius)	Two Piece Profile - 21" wide 1/2 round when used with 3-1/2" flat casing. Wider flat casing will have different limitations.



GRILL LIMITATIONS

40° Minimum Angle Between Diamond Grill Patterns
Wood & SDL Grids Only
(See Drawing Below)

Minimum Diameter for Radius Bars

- SDL** - 6" Inside Diameter
- TDL** - 10" Inside Diameter
- Internal Grid** - 8" On-Center Diameter

Minimum Distance Between SDL Notches = 3"

GLASS LIMITATIONS	
1/8" GLASS - Up to 15 square feet	5/32" PATTERN "62" - maximum sheet size 70" x 82"
5/32" GLASS - 15 to 24 square feet	3.1MM, 4.7MM Single Glue Chip - maximum sheet size 58"x 82"
3/16" GLASS - 24 to 34 square feet	5.7MM Solar Cool Grey - maximum sheet size 94"x 128"
1/4" GLASS - 34 to 44 square feet	5.7MM Solar Cool Bronze - maximum sheet size 82" x 128"
1/8" Tempered - maximum 16 square feet, maximum width 34", maximum height 80"	3.9MM Narrow Reeded - maximum sheet size 58"x 82"
8:1 Glass Ratio Must be Tempered	3.9MM Rain Vertical - maximum sheet size 70"x 82"
TEMPERED GLASS - 82" X 142" maximum sheet - must not exceed our square foot limitations, even if within our limitations cannot exceed 82" in either direction.	4.7MM Rain Vertical - maximum sheet size 70"x 82"
MINIMUM TEMPERED SIZE = 6" X 9"	3.9MM Rain Horizontal - maximum sheet size 82x70
When matching Low "E" with solar cool bronze or grey glass the Low "E" lite must be tempered.	4.7MM Rain Horizontal - maximum sheet size 82x70
Our 7/16" overall glass causes some combinations to be unavailable. For example, pattern "62" glass is 5/32" thick and cannot be matched with tempered for this thickness of glass.	3.9MM Seedy Reemy - maximum sheet size 58x82
	3.1MM, 5.7MM Matte Frost - maximum sheet size 61x86
Spandrel Glass is only available in 1/4" thickness and must be matched with either heat strengthened or tempered lite. This could cause problems with our overall glass thickness.	3.9MM Spraylite - maximum sheet size 58x82
	3.9MM Florex - maximum sheet size 58X82
Triple glaze internal grilles always located in exterior air space.	3.9MM Hammered - maximum sheet size 58x82
1/8" LAMINATED - maximum sheet size 48" x 84" - cannot exceed 9 square feet	Unsupported grilles in air space cannot exceed 68" in length

IF YOU HAVE QUESTIONS REGARDING SIZES OUTSIDE OF THESE LIMITATIONS, CONTACT LINCOLN WOOD PRODUCTS



IG Unit Size & Square Footage Limits

LINCOLN WOOD PRODUCTS, INC.

CARDINAL IG UNIT SIZE LIMITS ¹ AND MAXIMUM DIMENSIONS PER AIR SPACE

Glass Thickness (mm)	Minimum Recommended Short Glass Dimension for Argon Filled Unit ² (in)	ANNEALED GLASS			HEAT TREATED GLASS			Maximum Dimensions Per Air Space		
		Maximum Long Dimension (in)	Maximum Area ³ (ft ²)		Maximum Short Dimension (in)	Maximum Long Dimension (in)	Maximum Area ³ (ft ²)	Airspace Dimension (mm)	Maximum Long Dimension (in)	Maximum Area ³ (ft ²)
			Aspect Ratio Less than 2	Aspect Ratio Greater than 2						
2.2	8	70	9	6	-	70	15	5.5	70	15
3.0	12	80	14	10	36	80	20	6.5 & 7.0	80	20
3.9	16	90	19	16	48	90	30	8.0	90	30
4.7	20	100	25	21	60	100	40	9.8	100	40
5.7	24	120	32	29	83½	143½	60	≥11.5	143½	60

- Limits shown do not apply to shapes or units fabricated with mismatched glass thicknesses.
- Minimum dimensions do not apply to breather tube units.
- Maximum area based on 40 psf design windload and/or safe handling limit.
- This chart applies to both 2-pane IGUs and 3-pane IGUs.
- The suggested limit on maximum short dimension for Heat Treated glass is based on reducing the potential of bi-stable glass (oil canning and soft centered).
- The maximum short and long dimension for 5.7 mm glass is based on the size of the tempering line and also allows for glass trim.
- These are guidelines only, and is not a substitute for the ASTM standard E1300.

CARDINAL IG SQUARE FOOT LIMITS

IG Construction (mm)	ANNEALED GLASS Maximum Square Footage	Maximum Length (Inches)	HEAT STRENGTHENED or TEMPERED GLASS Maximum Square Footage	Squareness Factor Max Short Dimension (inches)	Maximum Length (inches)
2.2 / 2.2	10	72	NA	NA	72
3.0 / 3.0	15	82	20	36	84
3.9 / 3.9	24	90	30	48	96
4.7 / 4.7	33	140	50	60	140
5.7 / 5.7	50	143.5	60	80	143.5

- Square footage limits are based on handling and manufacturing limits only. The above limits do not take into account windload requirements.
- The squareness factor/oil canning factor for Heat Treated Glass is based on reducing the potential of bi-stable glass (oil canning and soft center).
- All factors must be met for fabrication allowance. For example: An IG unit constructed with 3mm tempered glass that has a dimension of 37"x74" has a square footage of 19 square feet and its maximum length is 74 inches. Both of these criteria are under the specified limits for 3mm tempered glass, however, the short dimension is greater than the maximum 36 inches allowed, therefore, it does not meet the Squareness Factor.