



Deflection and Sightline Reference Guide

This document has been developed to assist with process of selecting glass to withstand loads, minimize center of glass deflection and identify the appropriate sightline.

The ability of glass to withstand a load is calculated utilizing ASTM E1300 Standard Practice for Determining Load Resistance of Glass in Buildings. The glass unit size, ply thicknesses and heat treatment all impact the strength as well as the center of glass deflection.

The ability of the insulating unit seal to appropriately support the insulating unit and exterior glass ply in a structurally glazed application is calculated utilizing ASTM C1249 Standard Guide for Secondary Seal for Sealed Insulating Glass Units for Structural Sealant Glazing Applications.

Using this Reference Guide

Locate the page with your intended glass unit make-up and heat treatment. Next, locate the applicable load along the left side. Within the applicable load section, follow the glass width until it meets the height of your unit. The center of glass deflection and sightline are shown. If the deflection is >1", we recommend increasing the glass ply thickness or decreasing the size to achieve a center of glass ≤1".

For items not included on this chart, please contact Viracon for the deflection and sightline.

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Definitions

Conventionally Glazed: A framing system that captures the glazing component in the glazing channel. When conventionally glazed, the glass is surrounded by the framing system which is visible around the full perimeter of each glass unit.

Deflection (center of glass): The amount of bending movement of the center of glass lite perpendicular to the plane of the glass surface under an applied load.

Fully Tempered Glass (FT): Glass that has been heat-treated to have either a minimum surface compression of 10000 psi or an edge compression not less than 9700 psi in accordance with the requirements of ASTM C1048 kind FT or meet the requirements of ANSI Z97.1 or CPSC 16 CFR 1201 safety glazing standards. Tempered glass is 4-5 times stronger than annealed glass and when broken breaks into small relatively harmless pieces. Viracon recommends heat soaking all FT glass.

Heat Soak: A process of heating FT glass in a special oven in an attempt to find any impurities in the glass known as nickel sulfide inclusions. Viracon recommends heat soaking all FT glass. For additional information, see our Heat Soak Testing Tech Talk at <http://www.viracon.com/pdf/THeatSoak.pdf>

Heat Strengthened (HS): Glass that has been heat-treated to have a surface compression between 3500 and 7500 psi and meets the requirements for ASTM C1048, kind HS. It is 2-3 times stronger than annealed glass. HS is not a safety glazing material and will not meet the requirements of ANSI Z97.1 or CPSC 16 CFR 1201.

Sightline: Edge dimension of insulating glass covered by spacer. All insulating units have a sightline. Insulating glass used in a conventionally glazed system typically utilizes a 1/2" sightline. When used in a structurally glazed system, the insulating glass sightline must be calculated based on the unit size and design loads in order to appropriately support the insulating unit and exterior glass ply.

Structurally Glazed: The use of a silicone sealant on one or more sides of the insulating unit for the structural transfer of loads from the glass to its perimeter support system and retention of the glass in the opening. When structurally glazed, the framing system is typically not visible on the exterior facade along the structurally glazed sides.

Two sided structurally glazed: Glass structurally adhered to metal back-up mullion and two sides captured in pocket

Four sided structurally glazed: Glass with four sides structurally adhered to metal back-up mullion.



Deflection and Sightline Reference Guide

			1" Insulating Unit																												
			Constructed with two plies of 1/4" heat strengthened (HS) glass																												
Wind Load	Width (Base)	Height																													
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"	
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline
60 psf	24"	0.03"	1/2"	0.05"	1/2"	0.07"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"
	36"	0.05"	1/2"	0.15"	9/16"	0.21"	9/16"	0.27"	9/16"	0.32"	9/16"	0.36"	9/16"	0.39"	9/16"	0.41"	9/16"	0.42"	9/16"	0.44"	9/16"	0.44"	9/16"	0.44"	9/16"	0.45"	9/16"	0.46"	9/16"	0.45"	9/16"
	48"	0.07"	1/2"	0.21"	9/16"	0.33"	5/8"	0.43"	5/8"	0.53"	5/8"	0.62"	5/8"	0.71"	5/8"	0.79"	5/8"	0.86"	5/8"	0.93"	5/8"	1.00"	5/8"	1.06"	5/8"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.
	60"	0.09"	1/2"	0.27"	9/16"	0.43"	5/8"	0.56"	11/16"	0.69"	11/16"	0.82"	11/16"	0.94"	11/16"	1.06"	11/16"	1.19"	11/16"	1.31"	11/16"	1.44"	11/16"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.
	72"	0.09"	1/2"	0.32"	9/16"	0.53"	5/8"	0.69"	11/16"	0.81"	11/16"	0.96"	11/16"	1.11"	11/16"	1.26"	11/16"	1.41"	11/16"	1.57"	11/16"	1.73"	11/16"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.
	84"	0.09"	1/2"	0.36"	9/16"	0.62"	5/8"	0.82"	11/16"	0.96"	11/16"	1.07"	3/4"	1.24"	3/4"	1.40"	3/4"	1.57"	3/4"	1.75"	3/4"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.
	96"	0.09"	1/2"	0.39"	9/16"	0.71"	5/8"	0.94"	11/16"	1.11"	11/16"	1.24"	3/4"	1.35"	13/16"	1.52"	13/16"	1.70"	13/16"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.
108"	0.09"	1/2"	0.41"	9/16"	0.79"	5/8"	1.06"	11/16"	1.26"	11/16"	1.40"	3/4"	1.52"	13/16"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.		
120"	0.09"	1/2"	0.42"	9/16"	0.86"	5/8"	1.19"	11/16"	1.41"	11/16"	1.57"	3/4"	1.70"	13/16"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.	Not Available Maximum size is 120 sf						
50 psf	24"	0.00"	1/2"	0.04"	1/2"	0.06"	1/2"	0.07"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.07"	1/2"	0.07"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"
	36"	0.04"	1/2"	0.13"	9/16"	0.18"	9/16"	0.23"	9/16"	0.28"	9/16"	0.31"	9/16"	0.33"	9/16"	0.35"	9/16"	0.36"	9/16"	0.37"	9/16"	0.38"	9/16"	0.38"	9/16"	0.38"	9/16"	0.38"	9/16"	0.38"	9/16"
	48"	0.06"	1/2"	0.18"	9/16"	0.30"	5/8"	0.39"	5/8"	0.48"	5/8"	0.56"	5/8"	0.63"	5/8"	0.70"	5/8"	0.76"	5/8"	0.82"	5/8"	0.87"	5/8"	0.92"	5/8"	0.98"	5/8"	1.02"	5/8"	1.07"	5/8"
	60"	0.07"	1/2"	0.23"	9/16"	0.39"	5/8"	0.50"	11/16"	0.62"	11/16"	0.74"	11/16"	0.85"	11/16"	0.97"	11/16"	1.07"	11/16"	1.18"	11/16"	1.29"	11/16"	1.41"	11/16"	1.52"	11/16"	FT req.	FT req.	FT req.	FT req.
	72"	0.08"	1/2"	0.28"	9/16"	0.48"	5/8"	0.62"	11/16"	0.74"	11/16"	0.88"	11/16"	1.02"	11/16"	1.16"	11/16"	1.29"	11/16"	1.44"	11/16"	1.58"	11/16"	1.74"	11/16"	1.90"	11/16"	FT req.	FT req.	FT req.	FT req.
	84"	0.08"	1/2"	0.31"	9/16"	0.56"	5/8"	0.74"	11/16"	0.88"	11/16"	0.99"	11/16"	1.14"	11/16"	1.30"	11/16"	1.45"	11/16"	1.61"	11/16"	1.78"	11/16"	1.95"	11/16"	2.14"	11/16"	FT req.	FT req.	FT req.	FT req.
	96"	0.08"	1/2"	0.33"	9/16"	0.63"	5/8"	0.85"	11/16"	1.02"	11/16"	1.14"	11/16"	1.25"	3/4"	1.41"	3/4"	1.58"	3/4"	1.75"	3/4"	1.92"	3/4"	FT req.	FT req.	FT req.	FT req.	Not Available Maximum size is 120 sf			
108"	0.07"	1/2"	0.35"	9/16"	0.70"	5/8"	0.97"	11/16"	1.16"	11/16"	1.30"	11/16"	1.41"	3/4"	1.52"	13/16"	1.69"	13/16"	1.86"	13/16"	FT req.	FT req.	FT req.	FT req.	Not Available Maximum size is 120 sf						
120"	0.07"	1/2"	0.36"	9/16"	0.76"	5/8"	1.07"	11/16"	1.29"	11/16"	1.45"	11/16"	1.58"	3/4"	1.69"	13/16"	FT req.	FT req.	FT req.	FT req.	FT req.	FT req.									
40 psf	24"	0.00"	1/2"	0.01"	1/2"	0.04"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"
	36"	0.01"	1/2"	0.03"	1/2"	0.15"	1/2"	0.20"	1/2"	0.23"	1/2"	0.26"	1/2"	0.28"	1/2"	0.29"	1/2"	0.30"	1/2"	0.30"	1/2"	0.30"	1/2"	0.30"	1/2"	0.31"	1/2"	0.31"	1/2"	0.31"	1/2"
	48"	0.04"	1/2"	0.15"	1/2"	0.25"	9/16"	0.34"	9/16"	0.41"	9/16"	0.48"	9/16"	0.55"	9/16"	0.60"	9/16"	0.65"	9/16"	0.70"	9/16"	0.74"	9/16"	0.78"	9/16"	0.81"	9/16"	0.88"	9/16"	0.88"	9/16"
	60"	0.06"	1/2"	0.20"	1/2"	0.34"	9/16"	0.44"	5/8"	0.55"	5/8"	0.66"	5/8"	0.76"	5/8"	0.85"	5/8"	0.95"	5/8"	1.04"	5/8"	1.13"	5/8"	1.22"	5/8"	1.32"	5/8"	1.41"	5/8"	1.51"	5/8"
	72"	0.06"	1/2"	0.23"	1/2"	0.41"	9/16"	0.55"	5/8"	0.66"	5/8"	0.79"	5/8"	0.91"	5/8"	1.04"	5/8"	1.16"	5/8"	1.28"	5/8"	1.41"	5/8"	1.54"	5/8"	1.68"	5/8"	1.82"	5/8"	1.98"	5/8"
	84"	0.06"	1/2"	0.26"	1/2"	0.48"	9/16"	0.66"	5/8"	0.79"	5/8"	0.89"	11/16"	1.03"	11/16"	1.17"	11/16"	1.32"	11/16"	1.46"	11/16"	1.61"	11/16"	1.76"	11/16"	1.92"	11/16"	2.09"	11/16"	2.28"	11/16"
	96"	0.06"	1/2"	0.28"	1/2"	0.55"	9/16"	0.76"	5/8"	0.91"	5/8"	1.03"	11/16"	1.13"	11/16"	1.29"	11/16"	1.44"	11/16"	1.59"	11/16"	1.75"	11/16"	1.92"	11/16"	2.09"	11/16"	Not Available Maximum size is 120 sf			
108"	0.06"	1/2"	0.29"	1/2"	0.60"	9/16"	0.85"	5/8"	1.04"	5/8"	1.17"	11/16"	1.29"	11/16"	1.39"	11/16"	1.55"	11/16"	1.71"	11/16"	1.87"	11/16"	2.04"	11/16"	Not Available Maximum size is 120 sf						
120"	0.06"	1/2"	0.30"	1/2"	0.65"	9/16"	0.95"	5/8"	1.16"	5/8"	1.32"	11/16"	1.44"	11/16"	1.55"	11/16"	1.64"	3/4"	1.81"	3/4"	1.98"	3/4"									
30 psf	24"	0.01"	1/2"	0.02"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"
	36"	0.02"	1/2"	0.08"	1/2"	0.12"	1/2"	0.15"	1/2"	0.18"	1/2"	0.20"	1/2"	0.22"	1/2"	0.22"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"
	48"	0.03"	1/2"	0.12"	1/2"	0.21"	1/2"	0.27"	1/2"	0.34"	1/2"	0.40"	1/2"	0.45"	1/2"	0.49"	1/2"	0.53"	1/2"	0.56"	1/2"	0.59"	1/2"	0.62"	1/2"	0.64"	1/2"	0.66"	1/2"	0.68"	1/2"
	60"	0.04"	1/2"	0.15"	1/2"	0.27"	1/2"	0.38"	9/16"	0.47"	9/16"	0.56"	9/16"	0.64"	9/16"	0.72"	9/16"	0.80"	9/16"	0.87"	9/16"	0.94"	9/16"	1.01"	9/16"	1.08"	9/16"	1.15"	9/16"	1.22"	9/16"
	72"	0.04"	1/2"	0.18"	1/2"	0.34"	1/2"	0.47"	9/16"	0.57"	9/16"	0.68"	9/16"	0.79"	9/16"	0.90"	9/16"	1.00"	9/16"	1.11"	9/16"	1.21"	9/16"	1.32"	9/16"	1.43"	9/16"	1.54"	9/16"	1.66"	9/16"
	84"	0.05"	1/2"	0.20"	1/2"	0.40"	1/2"	0.56"	9/16"	0.68"	9/16"	0.78"	5/8"	0.90"	5/8"	1.03"	5/8"	1.15"	5/8"	1.28"	5/8"	1.40"	5/8"	1.53"	5/8"	1.67"	5/8"	1.81"	5/8"	1.96"	5/8"
	96"	0.04"	1/2"	0.22"	1/2"	0.45"	1/2"	0.64"	9/16"	0.79"	9/16"	0.90"	5/8"	1.00"	5/8"	1.14"	5/8"	1.27"	5/8"	1.41"	5/8"	1.55"	5/8"	1.69"	5/8"	1.84"	5/8"	Not Available Maximum size is 120 sf			
108"	0.04"	1/2"	0.22"	1/2"	0.49"	1/2"	0.72"	9/16"	0.90"	9/16"	1.03"	5/8"	1.14"	5/8"	1.23"	11/16"	1.37"	11/16"	1.52"	11/16"	1.67"	11/16"	1.82"	11/16"	Not Available Maximum size is 120 sf						
120"	0.04"	1/2"	0.53"	1/2"	0.80"	1/2"	1.00"	9/16"	1.15"	9/16"	1.27"	5/8"	1.27"	5/8"	1.37"	11/16"	1.46"	3/4"	1.61"	3/4"	1.77"	3/4"									

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".

Deflection and Sightline Reference Guide

1" Insulating Unit																																
Constructed with two plies of 1/4" fully tempered (FT) glass																																
Height																																
Wind Load	Width (Base)	Height																														
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"		
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	
60 psf	24"	0.03"	1/2"	0.05"	1/2"	0.07"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"	
	36"	0.05"	1/2"	0.15"	9/16"	0.21"	9/16"	0.27"	9/16"	0.32"	9/16"	0.36"	9/16"	0.39"	9/16"	0.41"	9/16"	0.42"	9/16"	0.44"	9/16"	0.44"	9/16"	0.45"	9/16"	0.46"	9/16"	0.45"	9/16"	0.45"	9/16"	
	48"	0.07"	1/2"	0.21"	9/16"	0.33"	5/8"	0.43"	5/8"	0.53"	5/8"	0.62"	5/8"	0.71"	5/8"	0.79"	5/8"	0.86"	5/8"	0.93"	5/8"	1.00"	5/8"	1.06"	5/8"	1.13"	5/8"	1.19"	5/8"	1.25"	5/8"	
	60"	0.09"	1/2"	0.27"	9/16"	0.43"	5/8"	0.56"	11/16"	0.69"	11/16"	0.82"	11/16"	0.94"	11/16"	1.06"	11/16"	1.19"	11/16"	1.31"	11/16"	1.44"	11/16"	1.57"	11/16"	1.71"	11/16"	1.86"	11/16"	2.01"	11/16"	
	72"	0.09"	1/2"	0.32"	9/16"	0.53"	5/8"	0.69"	11/16"	0.81"	11/16"	0.96"	11/16"	1.11"	11/16"	1.26"	11/16"	1.41"	11/16"	1.57"	11/16"	1.73"	11/16"	1.91"	11/16"	2.09"	11/16"	2.29"	11/16"	2.51"	11/16"	
	84"	0.09"	1/2"	0.36"	9/16"	0.62"	5/8"	0.82"	11/16"	0.96"	11/16"	1.07"	3/4"	1.24"	3/4"	1.40"	3/4"	1.57"	3/4"	1.75"	3/4"	1.93"	3/4"	2.12"	3/4"	2.33"	3/4"	2.55"	3/4"	2.79"	3/4"	
	96"	0.09"	1/2"	0.39"	9/16"	0.71"	5/8"	0.94"	11/16"	1.11"	11/16"	1.24"	3/4"	1.35"	13/16"	1.52"	13/16"	1.70"	13/16"	1.88"	13/16"	2.07"	13/16"	2.27"	13/16"	2.48"	13/16"	Not Available				
108"	0.09"	1/2"	0.41"	9/16"	0.79"	5/8"	1.06"	11/16"	1.26"	11/16"	1.40"	3/4"	1.52"	13/16"	1.63"	7/8"	1.81"	7/8"	2.00"	7/8"	2.19"	7/8"	2.39"	7/8"	Maximum size is 120 sf							
120"	0.09"	1/2"	0.42"	9/16"	0.86"	5/8"	1.19"	11/16"	1.41"	11/16"	1.57"	3/4"	1.70"	13/16"	1.81"	7/8"	1.92"	15/16"	2.11"	15/16"	2.30"	15/16"	Maximum size is 120 sf									
50 psf	24"	0.00"	1/2"	0.04"	1/2"	0.06"	1/2"	0.07"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.07"	1/2"	0.07"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	0.08"	1/2"	
	36"	0.04"	1/2"	0.13"	9/16"	0.18"	9/16"	0.23"	9/16"	0.28"	9/16"	0.31"	9/16"	0.33"	9/16"	0.35"	9/16"	0.36"	9/16"	0.37"	9/16"	0.38"	9/16"	0.38"	9/16"	0.38"	9/16"	0.38"	9/16"	0.38"	9/16"	
	48"	0.06"	1/2"	0.18"	9/16"	0.30"	5/8"	0.39"	5/8"	0.48"	5/8"	0.56"	5/8"	0.63"	5/8"	0.70"	5/8"	0.76"	5/8"	0.82"	5/8"	0.87"	5/8"	0.92"	5/8"	0.98"	5/8"	1.02"	5/8"	1.07"	5/8"	
	60"	0.07"	1/2"	0.23"	9/16"	0.39"	5/8"	0.50"	11/16"	0.62"	11/16"	0.74"	11/16"	0.85"	11/16"	0.97"	11/16"	1.07"	11/16"	1.18"	11/16"	1.29"	11/16"	1.41"	11/16"	1.52"	11/16"	1.65"	11/16"	1.77"	11/16"	
	72"	0.08"	1/2"	0.28"	9/16"	0.48"	5/8"	0.62"	11/16"	0.74"	11/16"	0.88"	11/16"	1.02"	11/16"	1.16"	11/16"	1.29"	11/16"	1.44"	11/16"	1.58"	11/16"	1.74"	11/16"	1.90"	11/16"	2.07"	11/16"	2.26"	11/16"	
	84"	0.08"	1/2"	0.31"	9/16"	0.56"	5/8"	0.74"	11/16"	0.88"	11/16"	0.99"	11/16"	1.14"	11/16"	1.30"	11/16"	1.45"	11/16"	1.61"	11/16"	1.78"	11/16"	1.95"	11/16"	2.14"	11/16"	2.34"	11/16"	2.55"	11/16"	
	96"	0.08"	1/2"	0.33"	9/16"	0.63"	5/8"	0.85"	11/16"	1.02"	11/16"	1.14"	11/16"	1.25"	3/4"	1.41"	3/4"	1.58"	3/4"	1.75"	3/4"	1.92"	3/4"	2.11"	3/4"	2.30"	3/4"	Not Available				
108"	0.07"	1/2"	0.35"	9/16"	0.70"	5/8"	0.97"	11/16"	1.16"	11/16"	1.30"	11/16"	1.41"	3/4"	1.52"	13/16"	1.69"	13/16"	1.86"	13/16"	2.04"	13/16"	2.23"	13/16"	Maximum size is 120 sf							
120"	0.07"	1/2"	0.36"	9/16"	0.76"	5/8"	1.07"	11/16"	1.29"	11/16"	1.45"	11/16"	1.58"	3/4"	1.69"	13/16"	1.79"	7/8"	1.97"	7/8"	2.15"	7/8"	Maximum size is 120 sf									
40 psf	24"	0.00"	1/2"	0.01"	1/2"	0.04"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.06"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	
	36"	0.01"	1/2"	0.03"	1/2"	0.15"	1/2"	0.20"	1/2"	0.23"	1/2"	0.26"	1/2"	0.28"	1/2"	0.29"	1/2"	0.30"	1/2"	0.30"	1/2"	0.30"	1/2"	0.31"	1/2"	0.31"	1/2"	0.31"	1/2"	0.30"	1/2"	
	48"	0.04"	1/2"	0.15"	1/2"	0.25"	9/16"	0.34"	9/16"	0.41"	9/16"	0.48"	9/16"	0.55"	9/16"	0.60"	9/16"	0.65"	9/16"	0.70"	9/16"	0.74"	9/16"	0.78"	9/16"	0.81"	9/16"	0.88"	9/16"	0.88"	9/16"	
	60"	0.06"	1/2"	0.20"	1/2"	0.34"	9/16"	0.44"	5/8"	0.55"	5/8"	0.66"	5/8"	0.76"	5/8"	0.85"	5/8"	0.95"	5/8"	1.04"	5/8"	1.13"	5/8"	1.22"	5/8"	1.32"	5/8"	1.41"	5/8"	1.51"	5/8"	
	72"	0.06"	1/2"	0.23"	1/2"	0.41"	9/16"	0.55"	5/8"	0.66"	5/8"	0.79"	5/8"	0.91"	5/8"	1.04"	5/8"	1.16"	5/8"	1.28"	5/8"	1.41"	5/8"	1.54"	5/8"	1.68"	5/8"	1.82"	5/8"	1.98"	5/8"	
	84"	0.06"	1/2"	0.26"	1/2"	0.48"	9/16"	0.66"	5/8"	0.79"	5/8"	0.89"	11/16"	1.03"	11/16"	1.17"	11/16"	1.32"	11/16"	1.46"	11/16"	1.61"	11/16"	1.76"	11/16"	1.92"	11/16"	2.09"	11/16"	2.28"	11/16"	
	96"	0.06"	1/2"	0.28"	1/2"	0.55"	9/16"	0.76"	5/8"	0.91"	5/8"	1.03"	11/16"	1.13"	11/16"	1.29"	11/16"	1.44"	11/16"	1.59"	11/16"	1.75"	11/16"	1.92"	11/16"	2.09"	11/16"	Not Available				
108"	0.06"	1/2"	0.29"	1/2"	0.60"	9/16"	0.85"	5/8"	1.04"	5/8"	1.17"	11/16"	1.29"	11/16"	1.39"	11/16"	1.55"	11/16"	1.71"	11/16"	1.87"	11/16"	2.04"	11/16"	Maximum size is 120 sf							
120"	0.06"	1/2"	0.30"	1/2"	0.65"	9/16"	0.95"	5/8"	1.16"	5/8"	1.32"	11/16"	1.44"	11/16"	1.55"	11/16"	1.64"	3/4"	1.81"	3/4"	1.98"	3/4"	Maximum size is 120 sf									
30 psf	24"	0.01"	1/2"	0.02"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"	
	36"	0.02"	1/2"	0.08"	1/2"	0.12"	1/2"	0.15"	1/2"	0.18"	1/2"	0.20"	1/2"	0.22"	1/2"	0.22"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"	0.23"	1/2"			
	48"	0.03"	1/2"	0.12"	1/2"	0.21"	1/2"	0.27"	1/2"	0.34"	1/2"	0.40"	1/2"	0.45"	1/2"	0.49"	1/2"	0.53"	1/2"	0.56"	1/2"	0.59"	1/2"	0.62"	1/2"	0.64"	1/2"	0.66"	1/2"			
	60"	0.04"	1/2"	0.15"	1/2"	0.27"	1/2"	0.38"	9/16"	0.47"	9/16"	0.56"	9/16"	0.64"	9/16"	0.72"	9/16"	0.80"	9/16"	0.87"	9/16"	0.94"	9/16"	1.01"	9/16"	1.08"	9/16"	1.15"	9/16"	1.22"	9/16"	
	72"	0.04"	1/2"	0.18"	1/2"	0.34"	1/2"	0.47"	9/16"	0.57"	9/16"	0.68"	9/16"	0.79"	9/16"	0.90"	9/16"	1.00"	9/16"	1.11"	9/16"	1.21"	9/16"	1.32"	9/16"	1.43"	9/16"	1.54"	9/16"	1.66"	9/16"	
	84"	0.05"	1/2"	0.20"	1/2"	0.40"	1/2"	0.56"	9/16"	0.68"	9/16"	0.78"	5/8"	0.90"	5/8"	1.03"	5/8"	1.15"	5/8"	1.28"	5/8"	1.40"	5/8"	1.53"	5/8"	1.67"	5/8"	1.81"	5/8"	1.96"	5/8"	
	96"	0.04"	1/2"	0.22"	1/2"	0.45"	1/2"	0.64"	9/16"	0.79"	9/16"	0.90"	5/8"	1.00"	5/8"	1.14"	5/8"	1.27"	5/8"	1.41"	5/8"	1.55"	5/8"	1.69"	5/8"	1.84"	5/8"	Not Available				
108"	0.04"	1/2"	0.22"	1/2"	0.49"	1/2"	0.72"	9/16"	0.90"	9/16"	1.03"	5/8"	1.14"	5/8"	1.23"	11/16"	1.37"	11/16"	1.52"	11/16"	1.67"	11/16"	1.82"	11/16"	Maximum size is 120 sf							
120"	0.04"	1/2"	0.53"	1/2"	0.80"	1/2"	1.00"	9/16"	1.15"	9/16"	1.27"	5/8"	1.27"	5/8"	1.37"	11/16"	1.46"	11/16"	1.61"	11/16"	1.77"	11/16"	Maximum size is 120 sf									

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249

Deflection and Sightline Reference Guide

1-1/16" Insulating Unit																																					
Constructed with a 5/16" outboard and 1/4" inboard, both plies heat strengthened (HS) glass																																					
Wind Load	Width (Base)	Height																																			
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"							
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline						
60 psf	24"	0.00"	9/16"	0.02"	9/16"	0.04"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"		
	36"	0.02"	9/16"	0.09"	11/16"	0.14"	11/16"	0.18"	11/16"	0.22"	11/16"	0.24"	11/16"	0.26"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"		
	48"	0.04"	9/16"	0.14"	11/16"	0.25"	11/16"	0.34"	11/16"	0.42"	11/16"	0.49"	11/16"	0.55"	11/16"	0.60"	11/16"	0.65"	11/16"	0.68"	11/16"	0.72"	11/16"	0.75"	11/16"	0.77"	11/16"	0.77"	11/16"	0.79"	11/16"	0.81"	11/16"	0.81"	11/16"	0.81"	11/16"
	60"	0.05"	9/16"	0.18"	11/16"	0.34"	11/16"	0.47"	13/16"	0.58"	13/16"	0.69"	13/16"	0.80"	13/16"	0.90"	13/16"	0.99"	13/16"	1.08"	13/16"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.					
	72"	0.05"	9/16"	0.22"	11/16"	0.42"	11/16"	0.58"	13/16"	0.71"	7/8"	0.85"	7/8"	0.99"	7/8"	1.12"	7/8"	1.25"	7/8"	1.39"	7/8"	FT req.		FT req.		FT req.		FT req.		FT req.							
	84"	0.05"	9/16"	0.24"	11/16"	0.49"	11/16"	0.69"	13/16"	0.85"	7/8"	0.98"	1"	1.14"	1"	1.30"	1"	1.45"	1"	1.61"	1"	FT req.		FT req.		FT req.		FT req.		FT req.							
	96"	0.05"	9/16"	0.26"	11/16"	0.55"	11/16"	0.80"	13/16"	0.99"	7/8"	1.14"	1"	1.26"	1-1/16"	1.44"	1-1/16"	1.61"	1-1/16"	FT req.		FT req.		FT req.		FT req.		FT req.									
	108"	0.05"	9/16"	0.27"	11/16"	0.60"	11/16"	0.90"	13/16"	1.12"	7/8"	1.30"	1"	1.44"	1-1/16"	1.56"	1-3/16"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.									
120"	0.05"	9/16"	0.27"	11/16"	0.65"	11/16"	0.99"	13/16"	1.25"	7/8"	1.45"	1"	1.61"	1-1/16"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.		FT req.										
Not Available Maximum size is 120 sf																																					
50 psf	24"	0.00"	9/16"	0.02"	9/16"	0.03"	9/16"	0.04"	9/16"	0.04"	9/16"	0.04"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"		
	36"	0.02"	9/16"	0.08"	5/8"	0.11"	5/8"	0.15"	5/8"	0.18"	5/8"	0.21"	5/8"	0.22"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"		
	48"	0.03"	9/16"	0.11"	5/8"	0.22"	11/16"	0.29"	11/16"	0.36"	11/16"	0.43"	11/16"	0.48"	11/16"	0.53"	11/16"	0.56"	11/16"	0.59"	11/16"	0.62"	11/16"	0.64"	11/16"	0.66"	11/16"	0.67"	11/16"	0.67"	11/16"	0.69"	11/16"	0.69"	11/16"		
	60"	0.04"	9/16"	0.15"	5/8"	0.29"	11/16"	0.41"	3/4"	0.52"	3/4"	0.62"	3/4"	0.71"	3/4"	0.80"	3/4"	0.89"	3/4"	0.96"	3/4"	1.04"	3/4"	1.10"	3/4"	FT req.		FT req.		FT req.		FT req.					
	72"	0.04"	9/16"	0.18"	5/8"	0.36"	11/16"	0.52"	3/4"	0.64"	13/16"	0.77"	13/16"	0.90"	13/16"	1.02"	13/16"	1.14"	13/16"	1.25"	13/16"	1.37"	13/16"	1.48"	13/16"	FT req.		FT req.		FT req.		FT req.					
	84"	0.04"	9/16"	0.21"	5/8"	0.43"	11/16"	0.62"	3/4"	0.77"	13/16"	0.89"	7/8"	1.04"	7/8"	1.19"	7/8"	1.33"	7/8"	1.47"	7/8"	1.62"	7/8"	1.76"	7/8"	FT req.		FT req.		FT req.		FT req.					
	96"	0.04"	9/16"	0.22"	5/8"	0.48"	11/16"	0.71"	3/4"	0.90"	13/16"	1.04"	7/8"	1.16"	15/16"	1.32"	15/16"	1.48"	15/16"	1.64"	15/16"	1.81"	15/16"	FT req.		FT req.		FT req.		FT req.							
	108"	0.05"	9/16"	0.23"	5/8"	0.53"	11/16"	0.80"	3/4"	1.02"	13/16"	1.19"	7/8"	1.32"	15/16"	1.44"	1"	1.61"	1"	1.78"	1"	FT req.		FT req.		FT req.		FT req.									
120"	0.05"	9/16"	0.23"	5/8"	0.56"	11/16"	0.89"	3/4"	1.14"	13/16"	1.33"	7/8"	1.48"	15/16"	1.61"	1"	1.72"	1-1/8"	FT req.		FT req.		FT req.		FT req.		FT req.										
Not Available Maximum size is 120 sf																																					
40 psf	24"	0.00"	1/2"	0.00"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"		
	36"	0.00"	1/2"	0.06"	9/16"	0.09"	9/16"	0.12"	9/16"	0.15"	9/16"	0.17"	9/16"	0.18"	9/16"	0.18"	9/16"	0.19"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"
	48"	0.02"	1/2"	0.09"	9/16"	0.18"	5/8"	0.25"	5/8"	0.31"	5/8"	0.36"	5/8"	0.41"	5/8"	0.44"	5/8"	0.47"	5/8"	0.50"	5/8"	0.52"	5/8"	0.53"	5/8"	0.52"	5/8"	0.53"	5/8"	0.54"	5/8"	0.55"	5/8"	0.54"	5/8"	0.55"	5/8"
	60"	0.03"	1/2"	0.12"	9/16"	0.25"	5/8"	0.36"	11/16"	0.45"	11/16"	0.54"	11/16"	0.62"	11/16"	0.70"	11/16"	0.77"	11/16"	0.83"	11/16"	0.89"	11/16"	0.95"	11/16"	1.00"	11/16"	1.05"	11/16"	1.09"	11/16"	1.09"	11/16"	1.11"	11/16"		
	72"	0.03"	1/2"	0.15"	9/16"	0.31"	5/8"	0.45"	11/16"	0.57"	11/16"	0.68"	11/16"	0.79"	11/16"	0.90"	11/16"	1.00"	11/16"	1.11"	11/16"	1.20"	11/16"	1.30"	11/16"	1.39"	11/16"	1.49"	11/16"	1.49"	11/16"	1.49"	11/16"	1.49"	11/16"	1.49"	11/16"
	84"	0.04"	1/2"	0.17"	9/16"	0.36"	5/8"	0.54"	11/16"	0.68"	11/16"	0.80"	3/4"	0.93"	3/4"	1.06"	3/4"	1.19"	3/4"	1.32"	3/4"	1.44"	3/4"	1.57"	3/4"	1.70"	3/4"	1.83"	3/4"	1.83"	3/4"	1.83"	3/4"	1.83"	3/4"	1.83"	3/4"
	96"	0.03"	1/2"	0.18"	9/16"	0.41"	5/8"	0.62"	11/16"	0.79"	11/16"	0.93"	3/4"	1.04"	13/16"	1.19"	13/16"	1.34"	13/16"	1.48"	13/16"	1.63"	13/16"	1.78"	13/16"	1.93"	13/16"	FT req.		FT req.		FT req.		FT req.			
	108"	0.03"	1/2"	0.18"	9/16"	0.44"	5/8"	0.80"	11/16"	0.90"	11/16"	1.06"	3/4"	1.19"	13/16"	1.30"	7/8"	1.46"	7/8"	1.62"	7/8"	1.78"	7/8"	1.94"	7/8"	FT req.		FT req.		FT req.		FT req.					
120"	0.03"	1/2"	0.19"	9/16"	0.47"	5/8"	0.77"	11/16"	1.00"	11/16"	1.19"	3/4"	1.34"	13/16"	1.46"	7/8"	1.57"	15/16"	1.74"	15/16"	1.90"	15/16"	FT req.		FT req.		FT req.		FT req.								
Not Available Maximum size is 120 sf																																					
30 psf	24"	0.00"	1/2"	0.00"	1/2"	0.01"	1/2"	0.02"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"		
	36"	0.00"	1/2"	0.04"	9/16"	0.07"	9/16"	0.09"	9/16"	0.11"	9/16"	0.13"	9/16"	0.13"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"		
	48"	0.01"	1/2"	0.07"	9/16"	0.14"	9/16"	0.19"	9/16"	0.24"	9/16"	0.29"	9/16"	0.32"	9/16"	0.35"	9/16"	0.38"	9/16"	0.39"	9/16"	0.40"	9/16"	0.41"	9/16"	0.41"	9/16"	0.42"	9/16"	0.42"	9/16"	0.42"	9/16"	0.42"	9/16"	0.43"	9/16"
	60"	0.02"	1/2"	0.09"	9/16"	0.19"	9/16"	0.29"	5/8"	0.37"	5/8"	0.44"	5/8"	0.51"	5/8"	0.58"	5/8"	0.63"	5/8"	0.68"	5/8"	0.73"	5/8"	0.77"	5/8"	0.81"	5/8"	0.84"	5/8"	0.84"	5/8"	0.87"	5/8"	0.87"	5/8"	0.87"	5/8"
	72"	0.02"	1/2"	0.11"	9/16"	0.24"	9/16"	0.37"	5/8"	0.48"	11/16"	0.57"	11/16"	0.67"	11/16"	0.76"	11/16"	0.85"	11/16"	0.93"	11/16"	1.01"	11/16"	1.09"	11/16"	1.17"	11/16"	1.24"	11/16"	1.31"	11/16"	1.31"	11/16"	1.31"	11/16"	1.31"	11/16"
	84"	0.03"	1/2"	0.13"	9/16"	0.29"	9/16"	0.44"	5/8"	0.57"	11/16"	0.68"	11/16"	0.80"	11/16"	0.91"	11/16"	1.02"	11/16"	1.13"	11/16"	1.24"	11/16"	1.3													

Deflection and Sightline Reference Guide
1-1/16" Insulating Unit
Constructed with a 5/16" outboard and 1/4" inboard, both plies fully tempered (FT) glass

Wind Load	Width (Base)	Height																															
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"			
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline		
60 psf	24"	0.00"	9/16"	0.02"	9/16"	0.04"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"	0.06"	9/16"
	36"	0.02"	9/16"	0.09"	11/16"	0.14"	11/16"	0.18"	11/16"	0.22"	11/16"	0.24"	11/16"	0.26"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"	0.27"	11/16"
	48"	0.04"	9/16"	0.14"	11/16"	0.25"	11/16"	0.34"	11/16"	0.42"	11/16"	0.49"	11/16"	0.55"	11/16"	0.60"	11/16"	0.65"	11/16"	0.68"	11/16"	0.72"	11/16"	0.75"	11/16"	0.77"	11/16"	0.79"	11/16"	0.79"	11/16"	0.81"	11/16"
	60"	0.05"	9/16"	0.18"	11/16"	0.34"	11/16"	0.47"	13/16"	0.58"	13/16"	0.69"	13/16"	0.80"	13/16"	0.90"	13/16"	0.99"	13/16"	1.08"	13/16"	1.17"	13/16"	1.25"	13/16"	1.33"	13/16"	1.41"	13/16"	1.49"	13/16"		
	72"	0.05"	9/16"	0.22"	11/16"	0.42"	11/16"	0.58"	13/16"	0.71"	7/8"	0.85"	7/8"	0.99"	7/8"	1.12"	7/8"	1.25"	7/8"	1.39"	7/8"	1.51"	7/8"	1.64"	7/8"	1.78"	7/8"	1.91"	7/8"	2.05"	7/8"		
	84"	0.05"	9/16"	0.24"	11/16"	0.49"	11/16"	0.69"	13/16"	0.85"	7/8"	0.98"	1"	1.14"	1"	1.30"	1"	1.45"	1"	1.61"	1"	1.77"	1"	1.93"	1"	2.10"	1"	2.27"	1"	2.45"	1"		
	96"	0.05"	9/16"	0.26"	11/16"	0.55"	11/16"	0.80"	13/16"	0.99"	7/8"	1.14"	1"	1.26"	1-1/16"	1.44"	1-1/16"	1.61"	1-1/16"	1.78"	1-1/16"	1.96"	1-1/16"	2.14"	1-1/16"	2.33"	1-1/16"	Not Available					
	108"	0.05"	9/16"	0.27"	11/16"	0.60"	11/16"	0.90"	13/16"	1.12"	7/8"	1.30"	1"	1.44"	1-1/16"	1.56"	1-3/16"	1.74"	1-3/16"	1.93"	1-3/16"	2.12"	1-3/16"	2.31"	1-3/16"	Not Available							
120"	0.05"	9/16"	0.27"	11/16"	0.65"	11/16"	0.99"	13/16"	1.25"	7/8"	1.45"	1"	1.61"	1-1/16"	1.74"	1-3/16"	1.86"	1-1/4"	2.05"	1-1/4"	2.25"	1-1/4"	Not Available										
50 psf	24"	0.00"	9/16"	0.02"	9/16"	0.03"	9/16"	0.04"	9/16"	0.04"	9/16"	0.04"	9/16"	0.04"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"	0.05"	9/16"
	36"	0.02"	9/16"	0.08"	5/8"	0.11"	5/8"	0.15"	5/8"	0.18"	5/8"	0.21"	5/8"	0.22"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"
	48"	0.03"	9/16"	0.11"	5/8"	0.22"	11/16"	0.29"	11/16"	0.36"	11/16"	0.43"	11/16"	0.48"	11/16"	0.53"	11/16"	0.56"	11/16"	0.59"	11/16"	0.62"	11/16"	0.64"	11/16"	0.66"	11/16"	0.67"	11/16"	0.69"	11/16"		
	60"	0.04"	9/16"	0.15"	5/8"	0.29"	11/16"	0.41"	3/4"	0.52"	3/4"	0.62"	3/4"	0.71"	3/4"	0.80"	3/4"	0.89"	3/4"	0.96"	3/4"	1.04"	3/4"	1.10"	3/4"	1.17"	3/4"	1.23"	3/4"	1.30"	3/4"		
	72"	0.04"	9/16"	0.18"	5/8"	0.36"	11/16"	0.52"	3/4"	0.64"	13/16"	0.77"	13/16"	0.90"	13/16"	1.02"	13/16"	1.14"	13/16"	1.25"	13/16"	1.37"	13/16"	1.48"	13/16"	1.60"	13/16"	1.71"	13/16"	1.83"	13/16"		
	84"	0.04"	9/16"	0.21"	5/8"	0.43"	11/16"	0.62"	3/4"	0.77"	13/16"	0.89"	7/8"	1.04"	7/8"	1.19"	7/8"	1.33"	7/8"	1.47"	7/8"	1.62"	7/8"	1.76"	7/8"	1.91"	7/8"	2.06"	7/8"	2.22"	7/8"		
	96"	0.04"	9/16"	0.22"	5/8"	0.48"	11/16"	0.71"	3/4"	0.90"	13/16"	1.04"	7/8"	1.16"	15/16"	1.32"	15/16"	1.48"	15/16"	1.64"	15/16"	1.81"	15/16"	1.97"	15/16"	2.14"	15/16"	Not Available					
	108"	0.05"	9/16"	0.23"	5/8"	0.53"	11/16"	0.80"	3/4"	1.02"	13/16"	1.19"	7/8"	1.32"	15/16"	1.44"	1"	1.61"	1"	1.78"	1"	1.96"	1"	2.27"	1"	Not Available							
120"	0.05"	9/16"	0.23"	5/8"	0.56"	11/16"	0.89"	3/4"	1.14"	13/16"	1.33"	7/8"	1.48"	15/16"	1.61"	1"	1.72"	1-1/8"	1.91"	1-1/8"	2.09"	1-1/8"	Not Available										
40 psf	24"	0.00"	1/2"	0.00"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"
	36"	0.00"	1/2"	0.06"	9/16"	0.09"	9/16"	0.12"	9/16"	0.15"	9/16"	0.17"	9/16"	0.18"	9/16"	0.18"	9/16"	0.19"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"	0.18"	9/16"
	48"	0.02"	1/2"	0.09"	9/16"	0.18"	5/8"	0.25"	5/8"	0.31"	5/8"	0.36"	5/8"	0.41"	5/8"	0.44"	5/8"	0.47"	5/8"	0.50"	5/8"	0.52"	5/8"	0.53"	5/8"	0.54"	5/8"	0.54"	5/8"	0.55"	5/8"	0.55"	5/8"
	60"	0.03"	1/2"	0.12"	9/16"	0.25"	5/8"	0.36"	11/16"	0.45"	11/16"	0.54"	11/16"	0.62"	11/16"	0.70"	11/16"	0.77"	11/16"	0.83"	11/16"	0.89"	11/16"	0.95"	11/16"	1.00"	11/16"	1.05"	11/16"	1.09"	11/16"		
	72"	0.03"	1/2"	0.15"	9/16"	0.31"	5/8"	0.45"	11/16"	0.57"	11/16"	0.68"	11/16"	0.79"	11/16"	0.90"	11/16"	1.00"	11/16"	1.11"	11/16"	1.20"	11/16"	1.30"	11/16"	1.39"	11/16"	1.49"	11/16"	1.58"	11/16"		
	84"	0.04"	1/2"	0.17"	9/16"	0.36"	5/8"	0.54"	11/16"	0.68"	11/16"	0.80"	3/4"	0.93"	3/4"	1.06"	3/4"	1.19"	3/4"	1.32"	3/4"	1.44"	3/4"	1.57"	3/4"	1.70"	3/4"	1.83"	3/4"	1.96"	3/4"		
	96"	0.03"	1/2"	0.18"	9/16"	0.41"	5/8"	0.62"	11/16"	0.79"	11/16"	0.93"	3/4"	1.04"	13/16"	1.19"	13/16"	1.34"	13/16"	1.48"	13/16"	1.63"	13/16"	1.78"	13/16"	1.93"	13/16"	Not Available					
	108"	0.03"	1/2"	0.18"	9/16"	0.44"	5/8"	0.80"	11/16"	0.90"	11/16"	1.06"	3/4"	1.19"	13/16"	1.30"	7/8"	1.46"	7/8"	1.62"	7/8"	1.78"	7/8"	1.94"	7/8"	Not Available							
120"	0.03"	1/2"	0.19"	9/16"	0.47"	5/8"	0.77"	11/16"	1.00"	11/16"	1.19"	3/4"	1.34"	13/16"	1.46"	7/8"	1.57"	15/16"	1.74"	15/16"	1.90"	15/16"	Not Available										
30 psf	24"	0.00"	1/2"	0.00"	1/2"	0.01"	1/2"	0.02"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"
	36"	0.00"	1/2"	0.04"	9/16"	0.07"	9/16"	0.09"	9/16"	0.11"	9/16"	0.13"	9/16"	0.13"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"	0.14"	9/16"
	48"	0.01"	1/2"	0.07"	9/16"	0.14"	9/16"	0.19"	9/16"	0.24"	9/16"	0.29"	9/16"	0.32"	9/16"	0.35"	9/16"	0.38"	9/16"	0.39"	9/16"	0.40"	9/16"	0.41"	9/16"	0.42"	9/16"	0.42"	9/16"	0.42"	9/16"	0.43"	9/16"
	60"	0.02"	1/2"	0.09"	9/16"	0.19"	9/16"	0.29"	5/8"	0.37"	5/8"	0.44"	5/8"	0.51"	5/8"	0.58"	5/8"	0.63"	5/8"	0.68"	5/8"	0.73"	5/8"	0.77"	5/8"	0.81"	5/8"	0.84"	5/8"	0.87"	5/8"		
	72"	0.02"	1/2"	0.11"	9/16"	0.24"	9/16"	0.37"	5/8"	0.48"	11/16"	0.57"	11/16"	0.67"	11/16"	0.76"	11/16"	0.85"	11/16"	0.93"	11/16"	1.01"	11/16"	1.09"	11/16"	1.17"	11/16"	1.24"	11/16"	1.31"	11/16"		
	84"	0.03"	1/2"	0.13"	9/16"	0.29"	9/16"	0.44"	5/8"	0.57"	11/16"	0.68"	11/16"	0.80"	11/16"	0.91"	11/16"	1.02"	11/16"	1.13"	11/16"	1.24"	11/16"	1.35"	11/16"	1.45"	11/16"	1.56"	11/16"	1.66"	11/16"		
	96"	0.03"	1/2"	0.13"	9/16"	0.32"	9/16"	0.51"	5/8"	0.67"	11/16"	0.80"	11/16"	0.90"	11/16"	1.03"	11/16"	1.16"	11/16"	1.29"	11/16"	1.42"	11/16"	1.54"	11/16"	1.67"	11/16"	Not Available					
	108"	0.03"	1/2"	0.14"	9/16"	0.35"	9/16"	0.58"	5/8"	0.76"	11/16"	0.91"	11/16"	1.03"	11/16"	1.14"	3/4"	1.28"	3/4"	1.42"	3/4"	1.56"	3/4"	1.70"	3/4"	Not Available							
120"	0.03"	1/2"	0.14"	9/16"	0.38"	9/16"	0.63"	5/8"	0.85"	11/16"	1.02"	11/16"	1.16"	11/16"	1.28"	3/4"	1.38"	13/16"	1.53"	13/16"	1.68"	13/16"	Not Available										

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".

Deflection and Sightline Reference Guide

Wind Load		1-1/8" Insulating Unit																															
		<i>Constructed with a 3/8" outboard and 1/4" inboard, both plies heat strengthened (HS) glass</i>																															
		Width (Base)		Height																													
24"				36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"			
60 psf	24"	Deflection		Sightline		Deflection		Sightline		Deflection		Sightline		Deflection		Sightline		Deflection		Sightline		Deflection		Sightline		Deflection		Sightline		Deflection		Sightline	
			36"	0.00"	5/8"	0.00"	5/8"	0.02"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"
	48"	0.02"	5/8"	0.09"	11/16"	0.18"	3/4"	0.25"	3/4"	0.31"	3/4"	0.36"	3/4"	0.41"	3/4"	0.45"	3/4"	0.48"	3/4"	0.50"	3/4"	0.51"	3/4"	0.53"	3/4"	0.53"	3/4"	0.54"	3/4"	0.54"	3/4"	0.54"	3/4"
	60"	0.03"	5/8"	0.12"	11/16"	0.25"	3/4"	0.37"	7/8"	0.47"	7/8"	0.56"	7/8"	0.65"	7/8"	0.73"	7/8"	0.80"	7/8"	0.86"	7/8"	0.92"	7/8"	0.97"	7/8"	FT req.		FT req.		FT req.		FT req.	
	72"	0.03"	5/8"	0.14"	11/16"	0.31"	3/4"	0.47"	7/8"	0.60"	15/16"	0.72"	15/16"	0.84"	15/16"	0.96"	15/16"	1.07"	15/16"	1.17"	15/16"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.	
	84"	0.03"	5/8"	0.16"	11/16"	0.36"	3/4"	0.56"	7/8"	0.72"	15/16"	0.85"	1-1/16"	1.00"	1-1/16"	1.14"	1-1/16"	1.28"	1-1/16"	1.42"	1-1/16"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.	
	96"	0.03"	5/8"	0.17"	11/16"	0.41"	3/4"	0.65"	7/8"	0.84"	15/16"	1.00"	1-1/16"	1.13"	1-3/16"	1.29"	1-3/16"	1.45"	1-3/16"	1.61"	1-3/16"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.	
	108"	0.03"	5/8"	0.18"	11/16"	0.45"	3/4"	0.73"	7/8"	0.96"	15/16"	1.14"	1-1/16"	1.29"	1-3/16"	1.42"	1-1/4"	1.59"	1-1/4"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.		FT req.	
	120"	0.03"	5/8"	0.18"	11/16"	0.48"	3/4"	0.80"	7/8"	1.07"	15/16"	1.28"	1-1/16"	1.45"	1-3/16"	1.62"	1-1/4"	FT req.		FT req.		FT req.		FT req.		FT req.		FT req.		FT req.		FT req.	
		Not Available Maximum size is 120 sf																															
50 psf	24"	0.00"	9/16"	0.00"	9/16"	0.01"	9/16"	0.01"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"
	36"	0.00"	9/16"	0.04"	11/16"	0.05"	11/16"	0.08"	11/16"	0.09"	11/16"	0.11"	11/16"	0.11"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"
	48"	0.01"	9/16"	0.05"	11/16"	0.12"	11/16"	0.17"	11/16"	0.21"	11/16"	0.26"	11/16"	0.29"	11/16"	0.32"	11/16"	0.34"	11/16"	0.35"	11/16"	0.36"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"
	60"	0.01"	9/16"	0.08"	11/16"	0.17"	11/16"	0.27"	3/4"	0.35"	3/4"	0.42"	3/4"	0.48"	3/4"	0.55"	3/4"	0.60"	3/4"	0.64"	3/4"	0.68"	3/4"	0.72"	3/4"	0.75"	3/4"	0.77"	3/4"	0.79"	3/4"	0.79"	3/4"
	72"	0.02"	9/16"	0.09"	11/16"	0.21"	11/16"	0.35"	3/4"	0.46"	7/8"	0.56"	7/8"	0.65"	7/8"	0.75"	7/8"	0.83"	7/8"	0.91"	7/8"	0.99"	7/8"	1.06"	7/8"	1.12"	7/8"	1.19"	7/8"	1.25"	7/8"	1.25"	7/8"
	84"	0.02"	9/16"	0.11"	11/16"	0.26"	11/16"	0.42"	3/4"	0.56"	7/8"	0.68"	15/16"	0.80"	15/16"	0.91"	15/16"	1.02"	15/16"	1.13"	15/16"	1.24"	15/16"	1.34"	15/16"	1.44"	15/16"	1.54"	15/16"	1.64"	15/16"	1.64"	15/16"
	96"	0.02"	9/16"	0.11"	11/16"	0.29"	11/16"	0.48"	3/4"	0.65"	7/8"	0.80"	15/16"	0.91"	1"	1.05"	1"	1.18"	1"	1.31"	1"	1.44"	1"	1.57"	1"	1.70"	1"	1.70"	1"	1.70"	1"	1.70"	1"
	108"	0.02"	9/16"	0.12"	11/16"	0.32"	11/16"	0.55"	3/4"	0.75"	7/8"	0.91"	15/16"	1.05"	1"	1.17"	1-1/8"	1.31"	1-1/8"	1.46"	1-1/8"	1.61"	1-1/8"	1.75"	1-1/8"	FT req.		FT req.		FT req.		FT req.	
	120"	0.02"	9/16"	0.12"	11/16"	0.34"	11/16"	0.60"	3/4"	0.83"	7/8"	1.02"	15/16"	1.18"	1"	1.31"	1-1/8"	1.43"	1-3/16"	1.59"	1-3/16"	1.75"	1-3/16"	1.75"	1-3/16"	FT req.		FT req.		FT req.		FT req.	
		Not Available Maximum size is 120 sf																															
40 psf	24"	0.00"	9/16"	0.00"	9/16"	0.01"	9/16"	0.01"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"
	36"	0.00"	9/16"	0.04"	5/8"	0.05"	5/8"	0.08"	5/8"	0.09"	5/8"	0.11"	5/8"	0.11"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"
	48"	0.01"	9/16"	0.05"	5/8"	0.12"	11/16"	0.17"	11/16"	0.21"	11/16"	0.26"	11/16"	0.29"	11/16"	0.32"	11/16"	0.34"	11/16"	0.35"	11/16"	0.36"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"
	60"	0.01"	9/16"	0.08"	5/8"	0.17"	11/16"	0.27"	11/16"	0.35"	11/16"	0.42"	11/16"	0.48"	11/16"	0.55"	11/16"	0.60"	11/16"	0.64"	11/16"	0.68"	11/16"	0.72"	11/16"	0.75"	11/16"	0.77"	11/16"	0.79"	11/16"	0.79"	11/16"
	72"	0.02"	9/16"	0.09"	5/8"	0.21"	11/16"	0.35"	11/16"	0.46"	3/4"	0.56"	3/4"	0.65"	3/4"	0.75"	3/4"	0.83"	3/4"	0.91"	3/4"	0.99"	3/4"	1.06"	3/4"	1.12"	3/4"	1.19"	3/4"	1.25"	3/4"	1.25"	3/4"
	84"	0.02"	9/16"	0.11"	5/8"	0.26"	11/16"	0.42"	11/16"	0.56"	3/4"	0.68"	13/16"	0.80"	13/16"	0.91"	13/16"	1.02"	13/16"	1.13"	13/16"	1.24"	13/16"	1.34"	13/16"	1.44"	13/16"	1.54"	13/16"	1.64"	13/16"	1.64"	13/16"
	96"	0.02"	9/16"	0.11"	5/8"	0.29"	11/16"	0.48"	11/16"	0.65"	3/4"	0.80"	13/16"	0.91"	7/8"	1.05"	7/8"	1.18"	7/8"	1.31"	7/8"	1.44"	7/8"	1.57"	7/8"	1.70"	7/8"	1.70"	7/8"	1.70"	7/8"	1.70"	7/8"
	108"	0.02"	9/16"	0.12"	5/8"	0.32"	11/16"	0.55"	11/16"	0.75"	3/4"	0.91"	13/16"	1.15"	7/8"	1.17"	15/16"	1.31"	15/16"	1.46"	15/16"	1.61"	15/16"	1.75"	15/16"	FT req.		FT req.		FT req.		FT req.	
	120"	0.02"	9/16"	0.12"	5/8"	0.34"	11/16"	0.60"	11/16"	0.83"	3/4"	1.02"	13/16"	1.18"	7/8"	1.31"	15/16"	1.43"	1"	1.59"	1"	1.75"	1"	1.75"	1"	FT req.		FT req.		FT req.		FT req.	
		Not Available Maximum size is 120 sf																															
30 psf	24"	0.00"	1/2"	0.00"	1/2"	0.00"	1/2"	0.01"	1/2"	0.01"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"
	36"	0.00"	1/2"	0.02"	9/16"	0.04"	9/16"	0.05"	9/16"	0.07"	9/16"	0.08"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"
	48"	0.00"	1/2"	0.04"	9/16"	0.09"	5/8"	0.13"	5/8"	0.16"	5/8"	0.19"	5/8"	0.22"	5/8"	0.24"	5/8"	0.26"	5/8"	0.27"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"
	60"	0.01"	1/2"	0.05"	9/16"	0.13"	5/8"	0.22"	11/16"	0.28"	11/16"	0.33"	11/16"	0.39"	11/16"	0.44"	11/16"	0.48"	11/16"	0.52"	11/16"	0.55"	11/16"	0.57"	11/16"	0.59"	11/16"	0.61"	11/16"	0.62"	11/16"	0.62"	11/16"
	72"	0.01"	1/2"	0.07"	9/16"	0.16"	5/8"	0.28"	11/16"	0.38"	11/16"	0.46"	11/16"	0.54"	11/16"	0.62"	11/16"	0.69"	11/16"	0.76"	11/16"	0.82"	11/16"	0.87"	11/16"	0.92"	11/16"	0.97"	11/16"	1.01"	11/16"	1.01"	11/16"
	84"	0.02"	1/2"	0.08"	9/16"	0.19"	5/8"	0.33"	11/16"	0.46"	11/16"	0.57"	11/16"	0.67"	11/16"	0.77"	11/16"	0.87"	11/16"	0.96"	11/16"	1.05"	11/16"	1.13"	11/16"	1.22"	11/16"	1.29"	11/16"	1.37"	11/16"	1.37"	11/16"
	96"	0.02"	1/2"	0.09"	9/16"	0.24"	5/8"	0.39"	11/16"	0.54"	11/16"	0.67"	11/16"	0.78"	3/4"	0.90"	3/4"	1.01"	3/4"	1.13"	3/4"	1.24"	3/4"	1.35"	3/4"	1.45"	3/4"	1.45"	3/4"	1.45"	3/4"	1.45"	3/4"
	108"	0.02"	1/2"	0.09"	9/16"	0.24"	5/8"	0.44"	11/16"	0.62"	11/16"	0.77"	11/16"	0.90"	3/4"	1.01"	13/16"	1.14"	13/16"	1.27"	13/16"	1.39"	13/16"	1.52"	13/16"	FT req.		FT req.		FT req.		FT req.	
	120"	0.02"	1/2"	0.09"	9/16"	0.26"	5/8"	0.48"	11/16"	0.69"	11/16"	0.87"	11/16"	1.01"	3/4"	1.14"	13/16"	1.24"	7/8"	1.39"	7/8"	1.53"	7/8"	1.53"	7/8"	FT req.		FT req.		FT req.		FT req.	
		Not Available Maximum size is 120 sf																															

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".



Deflection and Sightline Reference Guide

1-1/8" Insulating Unit																															
<i>Constructed with a 3/8" outboard and 1/4" inboard, both plies fully tempered (FT) glass</i>																															
Wind Load	Width (Base)	Height																													
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"	
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline
60 psf	24"	0.00"	5/8"	0.00"	5/8"	0.02"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.03"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"
	36"	0.00"	5/8"	0.06"	11/16"	0.09"	11/16"	0.12"	11/16"	0.14"	11/16"	0.16"	11/16"	0.17"	11/16"	0.18"	11/16"	0.18"	11/16"	0.18"	11/16"	0.18"	11/16"	0.17"	11/16"	0.17"	11/16"	0.17"	11/16"	0.17"	11/16"
	48"	0.02"	5/8"	0.09"	11/16"	0.18"	3/4"	0.25"	3/4"	0.31"	3/4"	0.36"	3/4"	0.41"	3/4"	0.45"	3/4"	0.48"	3/4"	0.50"	3/4"	0.51"	3/4"	0.53"	3/4"	0.53"	3/4"	0.54"	3/4"	0.54"	3/4"
	60"	0.03"	5/8"	0.12"	11/16"	0.25"	3/4"	0.37"	7/8"	0.47"	7/8"	0.56"	7/8"	0.65"	7/8"	0.73"	7/8"	0.80"	7/8"	0.86"	7/8"	0.92"	7/8"	0.97"	7/8"	1.02"	7/8"	1.06"	7/8"	1.10"	7/8"
	72"	0.03"	5/8"	0.14"	11/16"	0.31"	3/4"	0.47"	7/8"	0.60"	15/16"	0.72"	15/16"	0.84"	15/16"	0.96"	15/16"	1.07"	15/16"	1.17"	15/16"	1.27"	15/16"	1.37"	15/16"	1.46"	15/16"	1.56"	15/16"	1.65"	15/16"
	84"	0.03"	5/8"	0.16"	11/16"	0.36"	3/4"	0.56"	7/8"	0.72"	15/16"	0.85"	1-1/16"	1.00"	1-1/16"	1.14"	1-1/16"	1.28"	1-1/16"	1.42"	1-1/16"	1.55"	1-1/16"	1.68"	1-1/16"	1.82"	1-1/16"	1.95"	1-1/16"	2.09"	1-1/16"
	96"	0.03"	5/8"	0.17"	11/16"	0.41"	3/4"	0.65"	7/8"	0.84"	15/16"	1.00"	1-1/16"	1.13"	1-3/16"	1.29"	1-3/16"	1.45"	1-3/16"	1.61"	1-3/16"	1.77"	1-3/16"	1.93"	1-3/16"	2.09"	1-3/16"	Not Available			
	108"	0.03"	5/8"	0.18"	11/16"	0.45"	3/4"	0.73"	7/8"	0.96"	15/16"	1.14"	1-1/16"	1.29"	1-3/16"	1.42"	1-1/4"	1.59"	1-1/4"	1.77"	1-1/4"	1.94"	1-1/4"	2.12"	1-1/4"	Not Available					
120"	0.03"	5/8"	0.18"	11/16"	0.48"	3/4"	0.80"	7/8"	1.07"	15/16"	1.28"	1-1/16"	1.45"	1-3/16"	1.59"	1-1/4"	1.72"	1-3/8"	1.91"	1-3/8"	2.09"	1-3/8"	Maximum size is 120 sf								
50 psf	24"	0.00"	9/16"	0.00"	9/16"	0.01"	9/16"	0.01"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"
	36"	0.00"	9/16"	0.04"	11/16"	0.05"	11/16"	0.08"	11/16"	0.09"	11/16"	0.11"	11/16"	0.11"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"	0.12"	11/16"
	48"	0.01"	9/16"	0.05"	11/16"	0.12"	11/16"	0.17"	11/16"	0.21"	11/16"	0.26"	11/16"	0.29"	11/16"	0.32"	11/16"	0.34"	11/16"	0.35"	11/16"	0.36"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"
	60"	0.01"	9/16"	0.08"	11/16"	0.17"	11/16"	0.27"	3/4"	0.35"	3/4"	0.42"	3/4"	0.48"	3/4"	0.55"	3/4"	0.60"	3/4"	0.64"	3/4"	0.68"	3/4"	0.72"	3/4"	0.75"	3/4"	0.77"	3/4"	0.79"	3/4"
	72"	0.02"	9/16"	0.09"	11/16"	0.21"	11/16"	0.35"	3/4"	0.46"	7/8"	0.56"	7/8"	0.65"	7/8"	0.75"	7/8"	0.83"	7/8"	0.91"	7/8"	0.99"	7/8"	1.06"	7/8"	1.12"	7/8"	1.19"	7/8"	1.25"	7/8"
	84"	0.02"	9/16"	0.11"	11/16"	0.26"	11/16"	0.42"	3/4"	0.56"	7/8"	0.68"	15/16"	0.80"	15/16"	0.91"	15/16"	1.02"	15/16"	1.13"	15/16"	1.24"	15/16"	1.34"	15/16"	1.44"	15/16"	1.54"	15/16"	1.64"	15/16"
	96"	0.02"	9/16"	0.11"	11/16"	0.29"	11/16"	0.48"	3/4"	0.65"	7/8"	0.80"	15/16"	0.91"	1"	1.05"	1"	1.18"	1"	1.31"	1"	1.44"	1"	1.57"	1"	1.70"	1"	Not Available			
	108"	0.02"	9/16"	0.12"	11/16"	0.32"	11/16"	0.55"	3/4"	0.75"	7/8"	0.91"	15/16"	1.05"	1"	1.17"	1-1/8"	1.31"	1-1/8"	1.46"	1-1/8"	1.61"	1-1/8"	1.75"	1-1/8"	Maximum size is 120 sf					
120"	0.02"	9/16"	0.12"	11/16"	0.34"	11/16"	0.60"	3/4"	0.83"	7/8"	1.02"	15/16"	1.18"	1"	1.31"	1-1/8"	1.43"	1-3/16"	1.59"	1-3/16"	1.75"	1-3/16"	Maximum size is 120 sf								
40 psf	24"	0.00"	9/16"	0.00"	9/16"	0.01"	9/16"	0.01"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.02"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"
	36"	0.00"	9/16"	0.04"	5/8"	0.05"	5/8"	0.08"	5/8"	0.09"	5/8"	0.11"	5/8"	0.11"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"	0.12"	5/8"
	48"	0.01"	9/16"	0.05"	5/8"	0.12"	11/16"	0.17"	11/16"	0.21"	11/16"	0.26"	11/16"	0.29"	11/16"	0.32"	11/16"	0.34"	11/16"	0.35"	11/16"	0.36"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"
	60"	0.01"	9/16"	0.08"	5/8"	0.17"	11/16"	0.27"	11/16"	0.35"	11/16"	0.42"	11/16"	0.48"	11/16"	0.55"	11/16"	0.60"	11/16"	0.64"	11/16"	0.68"	11/16"	0.72"	11/16"	0.75"	11/16"	0.77"	11/16"	0.79"	11/16"
	72"	0.02"	9/16"	0.09"	5/8"	0.21"	11/16"	0.35"	11/16"	0.46"	3/4"	0.56"	3/4"	0.65"	3/4"	0.75"	3/4"	0.83"	3/4"	0.91"	3/4"	0.99"	3/4"	1.06"	3/4"	1.12"	3/4"	1.19"	3/4"	1.25"	3/4"
	84"	0.02"	9/16"	0.11"	5/8"	0.26"	11/16"	0.42"	11/16"	0.56"	3/4"	0.68"	13/16"	0.80"	13/16"	0.91"	13/16"	1.02"	13/16"	1.13"	13/16"	1.24"	13/16"	1.34"	13/16"	1.44"	13/16"	1.54"	13/16"	1.64"	13/16"
	96"	0.02"	9/16"	0.11"	5/8"	0.29"	11/16"	0.48"	11/16"	0.65"	3/4"	0.80"	13/16"	0.91"	7/8"	1.05"	7/8"	1.18"	7/8"	1.31"	7/8"	1.44"	7/8"	1.57"	7/8"	1.70"	7/8"	Not Available			
	108"	0.02"	9/16"	0.12"	5/8"	0.32"	11/16"	0.55"	11/16"	0.75"	3/4"	0.91"	13/16"	1.15"	7/8"	1.17"	15/16"	1.31"	15/16"	1.46"	15/16"	1.61"	15/16"	1.75"	15/16"	Maximum size is 120 sf					
120"	0.02"	9/16"	0.12"	5/8"	0.34"	11/16"	0.60"	11/16"	0.83"	3/4"	1.02"	13/16"	1.18"	7/8"	1.31"	15/16"	1.43"	1"	1.59"	1"	1.75"	1"	Maximum size is 120 sf								
30 psf	24"	0.00"	1/2"	0.00"	1/2"	0.00"	1/2"	0.01"	1/2"	0.01"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"
	36"	0.00"	1/2"	0.02"	9/16"	0.04"	9/16"	0.05"	9/16"	0.07"	9/16"	0.08"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"	0.09"	9/16"
	48"	0.00"	1/2"	0.04"	9/16"	0.09"	5/8"	0.13"	5/8"	0.16"	5/8"	0.19"	5/8"	0.22"	5/8"	0.24"	5/8"	0.26"	5/8"	0.27"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"	0.28"	5/8"
	60"	0.01"	1/2"	0.05"	9/16"	0.13"	5/8"	0.22"	11/16"	0.28"	11/16"	0.33"	11/16"	0.39"	11/16"	0.44"	11/16"	0.48"	11/16"	0.52"	11/16"	0.55"	11/16"	0.57"	11/16"	0.59"	11/16"	0.61"	11/16"	0.62"	11/16"
	72"	0.01"	1/2"	0.07"	9/16"	0.16"	5/8"	0.28"	11/16"	0.38"	11/16"	0.46"	11/16"	0.54"	11/16"	0.62"	11/16"	0.69"	11/16"	0.76"	11/16"	0.82"	11/16"	0.87"	11/16"	0.92"	11/16"	0.97"	11/16"	1.01"	11/16"
	84"	0.02"	1/2"	0.08"	9/16"	0.19"	5/8"	0.33"	11/16"	0.46"	11/16"	0.57"	11/16"	0.67"	11/16"	0.77"	11/16"	0.87"	11/16"	0.96"	11/16"	1.05"	11/16"	1.13"	11/16"	1.22"	11/16"	1.29"	11/16"	1.37"	11/16"
	96"	0.02"	1/2"	0.09"	9/16"	0.24"	5/8"	0.39"	11/16"	0.54"	11/16"	0.67"	11/16"	0.78"	3/4"	0.90"	3/4"	1.01"	3/4"	1.13"	3/4"	1.24"	3/4"	1.35"	3/4"	1.45"	3/4"	Not Available			
	108"	0.02"	1/2"	0.09"	9/16"	0.24"	5/8"	0.44"	11/16"	0.62"	11/16"	0.77"	11/16"	0.90"	3/4"	1.01"	13/16"	1.14"	13/16"	1.27"	13/16"	1.39"	13/16"	1.52"	13/16"	Maximum size is 120 sf					
120"	0.02"	1/2"	0.09"	9/16"	0.26"	5/8"	0.48"	11/16"	0.69"	11/16"	0.87"	11/16"	1.01"	3/4"	1.14"	13/16"	1.24"	7/8"	1.39"	7/8"	1.53"	7/8"	Maximum size is 120 sf								

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".



Deflection and Sightline Reference Guide

1-5/16" Insulating Laminated Unit																																	
Constructed with a 1/4" outboard and two plies of 1/4" laminated on the inboard, all plies heat strengthened (HS) glass																																	
Wind Load	Width (Base)	Height																															
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"			
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline		
60 psf	24"	0.02"	1/2"	0.04"	1/2"	0.07"	1/2"	0.07"	1/2"	0.06"	1/2"	0.06"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	0.06"	1/2"	0.06"	1/2"	0.07"	1/2"	0.08"	1/2"	0.10"	1/2"		
	36"	0.04"	1/2"	0.10"	1/2"	0.17"	1/2"	0.20"	1/2"	0.23"	1/2"	0.23"	1/2"	0.21"	1/2"	0.21"	1/2"	0.20"	1/2"	0.18"	1/2"	0.19"	1/2"	0.19"	1/2"	0.19"	1/2"	0.18"	1/2"	0.20"	1/2"		
	48"	0.07"	1/2"	0.17"	1/2"	0.24"	1/2"	0.29"	1/2"	0.34"	1/2"	0.39"	1/2"	0.44"	1/2"	0.45"	1/2"	0.47"	1/2"	0.49"	1/2"	0.50"	1/2"	0.51"	1/2"	0.51"	1/2"	0.51"	1/2"	0.51"	1/2"	***	1/2"
	60"	0.07"	1/2"	0.20"	1/2"	0.29"	1/2"	0.38"	1/2"	0.45"	1/2"	0.51"	1/2"	0.58"	1/2"	0.65"	1/2"	0.73"	1/2"	0.77"	1/2"	0.81"	1/2"	0.86"	1/2"	0.91"	1/2"	0.97"	1/2"	1.01"	1/2"	1.01"	1/2"
	72"	0.06"	1/2"	0.23"	1/2"	0.34"	1/2"	0.45"	1/2"	0.54"	1/2"	0.64"	1/2"	0.72"	1/2"	0.81"	1/2"	0.90"	1/2"	1.00"	1/2"	1.09"	1/2"	1.17"	1/2"	FT req.		FT req.		FT req.			
	84"	0.06"	1/2"	0.23"	1/2"	0.39"	1/2"	0.51"	1/2"	0.64"	1/2"	0.75"	1/2"	0.86"	1/2"	0.96"	1/2"	1.07"	1/2"	1.18"	1/2"	1.30"	1/2"	FT req.		FT req.		FT req.					
	96"	0.04"	1/2"	0.23"	1/2"	0.44"	1/2"	0.58"	1/2"	0.72"	1/2"	0.86"	1/2"	0.99"	1/2"	1.11"	1/2"	1.24"	1/2"	1.37"	1/2"	1.50"	1/2"	FT req.		FT req.		FT req.					
	120"	0.04"	1/2"	0.21"	1/2"	0.45"	1/2"	0.65"	1/2"	0.81"	1/2"	0.96"	1/2"	1.11"	1/2"	1.26"	1/2"	1.40"	1/2"	FT req.		FT req.		FT req.		Not Available Maximum size is 120 sf							
50 psf	24"	0.02"	1/2"	0.03"	1/2"	0.06"	1/2"	0.06"	1/2"	0.05"	1/2"	0.05"	1/2"	0.04"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.05"	1/2"	0.05"	1/2"	0.06"	1/2"	0.07"	1/2"	0.08"	1/2"
	36"	0.03"	1/2"	0.09"	1/2"	0.14"	1/2"	0.18"	1/2"	0.21"	1/2"	0.21"	1/2"	0.20"	1/2"	0.19"	1/2"	0.18"	1/2"	0.17"	1/2"	0.17"	1/2"	0.16"	1/2"	0.16"	1/2"	0.16"	1/2"	0.15"	1/2"	0.17"	1/2"
	48"	0.06"	1/2"	0.14"	1/2"	0.22"	1/2"	0.26"	1/2"	0.31"	1/2"	0.36"	1/2"	0.40"	1/2"	0.41"	1/2"	0.42"	1/2"	0.43"	1/2"	0.44"	1/2"	0.44"	1/2"	0.44"	1/2"	0.45"	1/2"	0.44"	1/2"	***	1/2"
	60"	0.06"	1/2"	0.18"	1/2"	0.26"	1/2"	0.34"	1/2"	0.41"	1/2"	0.46"	1/2"	0.52"	1/2"	0.59"	1/2"	0.65"	1/2"	0.69"	1/2"	0.73"	1/2"	0.76"	1/2"	0.80"	1/2"	0.85"	1/2"	0.88"	1/2"	0.88"	1/2"
	72"	0.05"	1/2"	0.21"	1/2"	0.31"	1/2"	0.41"	1/2"	0.49"	1/2"	0.57"	1/2"	0.66"	1/2"	0.73"	1/2"	0.82"	1/2"	0.90"	1/2"	0.99"	1/2"	1.05"	1/2"	1.12"	1/2"	1.19"	1/2"	***	1/2"	***	1/2"
	84"	0.04"	1/2"	0.21"	1/2"	0.36"	1/2"	0.46"	1/2"	0.57"	1/2"	0.68"	1/2"	0.78"	1/2"	0.88"	1/2"	0.97"	1/2"	1.07"	1/2"	1.18"	1/2"	1.28"	1/2"	1.39"	1/2"	***	1/2"	***	1/2"	***	1/2"
	96"	0.04"	1/2"	0.20"	1/2"	0.40"	1/2"	0.52"	1/2"	0.66"	1/2"	0.78"	1/2"	0.90"	1/2"	1.01"	1/2"	1.13"	1/2"	1.24"	1/2"	1.36"	1/2"	1.48"	1/2"	***		***		***			
	120"	0.03"	1/2"	0.19"	1/2"	0.41"	1/2"	0.59"	1/2"	0.73"	1/2"	0.88"	1/2"	1.01"	1/2"	1.15"	1/2"	1.28"	1/2"	1.41"	1/2"	1.54"	1/2"	***		***		Not Available Maximum size is 120 sf					
40 psf	24"	0.01"	1/2"	0.03"	1/2"	0.04"	1/2"	0.05"	1/2"	0.04"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	0.06"	1/2"	0.07"	1/2"
	36"	0.03"	1/2"	0.07"	1/2"	0.11"	1/2"	0.16"	1/2"	0.18"	1/2"	0.18"	1/2"	0.17"	1/2"	0.16"	1/2"	0.15"	1/2"	0.15"	1/2"	0.15"	1/2"	0.13"	1/2"	0.13"	1/2"	0.13"	1/2"	0.12"	1/2"	0.14"	1/2"
	48"	0.04"	1/2"	0.11"	1/2"	0.19"	1/2"	0.24"	1/2"	0.28"	1/2"	0.31"	1/2"	0.35"	1/2"	0.36"	1/2"	0.36"	1/2"	0.36"	1/2"	0.37"	1/2"	0.37"	1/2"	0.37"	1/2"	0.37"	1/2"	0.37"	1/2"	0.37"	1/2"
	60"	0.05"	1/2"	0.16"	1/2"	0.24"	1/2"	0.31"	1/2"	0.36"	1/2"	0.42"	1/2"	0.46"	1/2"	0.52"	1/2"	0.58"	1/2"	0.61"	1/2"	0.63"	1/2"	0.66"	1/2"	0.69"	1/2"	0.69"	1/2"	0.72"	1/2"	0.74"	1/2"
	72"	0.04"	1/2"	0.18"	1/2"	0.28"	1/2"	0.36"	1/2"	0.45"	1/2"	0.51"	1/2"	0.58"	1/2"	0.65"	1/2"	0.72"	1/2"	0.80"	1/2"	0.87"	1/2"	0.92"	1/2"	0.97"	1/2"	0.97"	1/2"	1.03"	1/2"	***	1/2"
	84"	0.04"	1/2"	0.18"	1/2"	0.31"	1/2"	0.42"	1/2"	0.51"	1/2"	0.61"	1/2"	0.69"	1/2"	0.78"	1/2"	0.86"	1/2"	0.95"	1/2"	1.04"	1/2"	1.13"	1/2"	1.23"	1/2"	***	1/2"	***	1/2"	***	1/2"
	96"	0.03"	1/2"	0.17"	1/2"	0.35"	1/2"	0.46"	1/2"	0.58"	1/2"	0.69"	1/2"	0.80"	1/2"	0.90"	1/2"	1.00"	1/2"	1.10"	1/2"	1.21"	1/2"	1.32"	1/2"	***		***		***			
	120"	0.03"	1/2"	0.15"	1/2"	0.36"	1/2"	0.58"	1/2"	0.72"	1/2"	0.86"	1/2"	1.00"	1/2"	1.14"	1/2"	1.27"	1/2"	1.40"	1/2"	***		***		Not Available Maximum size is 120 sf							
30 psf	24"	0.01"	1/2"	0.02"	1/2"	0.03"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"
	36"	0.02"	1/2"	0.05"	1/2"	0.09"	1/2"	0.13"	1/2"	0.16"	1/2"	0.15"	1/2"	0.14"	1/2"	0.13"	1/2"	0.12"	1/2"	0.12"	1/2"	0.11"	1/2"	0.10"	1/2"	0.10"	1/2"	0.10"	1/2"	0.09"	1/2"	0.11"	1/2"
	48"	0.03"	1/2"	0.09"	1/2"	0.16"	1/2"	0.20"	1/2"	0.24"	1/2"	0.27"	1/2"	0.30"	1/2"	0.31"	1/2"	0.31"	1/2"	0.30"	1/2"	0.30"	1/2"	0.30"	1/2"	0.30"	1/2"	0.30"	1/2"	0.29"	1/2"	***	1/2"
	60"	0.04"	1/2"	0.13"	1/2"	0.20"	1/2"	0.27"	1/2"	0.31"	1/2"	0.36"	1/2"	0.40"	1/2"	0.44"	1/2"	0.49"	1/2"	0.51"	1/2"	0.53"	1/2"	0.54"	1/2"	0.54"	1/2"	0.56"	1/2"	0.58"	1/2"	0.59"	1/2"
	72"	0.03"	1/2"	0.16"	1/2"	0.24"	1/2"	0.31"	1/2"	0.39"	1/2"	0.44"	1/2"	0.49"	1/2"	0.55"	1/2"	0.62"	1/2"	0.68"	1/2"	0.74"	1/2"	0.78"	1/2"	0.82"	1/2"	0.82"	1/2"	0.86"	1/2"	***	1/2"
	84"	0.03"	1/2"	0.15"	1/2"	0.27"	1/2"	0.36"	1/2"	0.44"	1/2"	0.52"	1/2"	0.59"	1/2"	0.67"	1/2"	0.74"	1/2"	0.82"	1/2"	0.89"	1/2"	0.97"	1/2"	1.05"	1/2"	***	1/2"	***	1/2"	***	1/2"
	96"	0.02"	1/2"	0.14"	1/2"	0.30"	1/2"	0.40"	1/2"	0.49"	1/2"	0.59"	1/2"	0.69"	1/2"	0.78"	1/2"	0.86"	1/2"	0.95"	1/2"	1.04"	1/2"	1.13"	1/2"	***		***		***			
	120"	0.02"	1/2"	0.13"	1/2"	0.31"	1/2"	0.44"	1/2"	0.55"	1/2"	0.67"	1/2"	0.78"	1/2"	0.88"	1/2"	0.98"	1/2"	1.08"	1/2"	1.18"	1/2"	***		***		Not Available Maximum size is 120 sf					

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.
 Deflection is center of glass based on ASTM E1300. *** The size and/or aspect ratio of this unit is outside the parameters of ASTM E1300.
 Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".



Deflection and Sightline Reference Guide

1-5/16" Insulating Laminated Unit

Constructed with a 1/4" outboard and two plies of 1/4" laminated on the inboard, all plies fully tempered (FT) glass

Table with columns for Wind Load, Width (Base), Height (24" to 192"), Deflection, and Sightline. Rows are grouped by wind load (60 psf, 50 psf, 40 psf, 30 psf) and height. Includes 'Not Available' and 'Maximum size is 120 sf' notes.

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300. *** The size and/or aspect ratio of this unit is outside the parameters of ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".

Deflection and Sightline Reference Guide

1-5/16" Laminated Insulating Unit																															
Constructed with two plies of 1/4" laminated on the outboard a 1/4" inboard, all plies heat strengthened (HS) glass																															
Wind Load	Width (Base)	Height																													
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"	
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline
60 psf	24"	0.02"	5/8"	0.04"	5/8"	0.07"	5/8"	0.07"	5/8"	0.06"	5/8"	0.06"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.05"	5/8"	0.06"	5/8"	0.06"	5/8"	0.07"	5/8"	0.08"	5/8"	0.10"	5/8"
	36"	0.04"	5/8"	0.10"	11/16"	0.17"	11/16"	0.20"	11/16"	0.23"	11/16"	0.23"	11/16"	0.21"	11/16"	0.21"	11/16"	0.20"	11/16"	0.18"	11/16"	0.19"	11/16"	0.19"	11/16"	0.19"	11/16"	0.18"	11/16"	0.20"	11/16"
	48"	0.07"	5/8"	0.17"	11/16"	0.24"	13/16"	0.29"	13/16"	0.34"	13/16"	0.39"	13/16"	0.44"	13/16"	0.45"	13/16"	0.47"	13/16"	0.49"	13/16"	0.50"	13/16"	0.51"	13/16"	0.51"	13/16"	0.51"	13/16"	***	13/16"
	60"	0.07"	5/8"	0.20"	11/16"	0.29"	13/16"	0.38"	7/8"	0.45"	7/8"	0.51"	7/8"	0.58"	7/8"	0.65"	7/8"	0.73"	7/8"	0.77"	7/8"	0.81"	7/8"	0.86"	7/8"	0.91"	7/8"	0.97"	7/8"	1.01"	7/8"
	72"	0.06"	5/8"	0.23"	11/16"	0.34"	13/16"	0.45"	7/8"	0.54"	1"	0.64"	1"	0.72"	1"	0.81"	1"	0.90"	1"	1.00"	1"	1.09"	1"	1.17"	1"	FT req.		FT req.		FT req.	
	84"	0.06"	5/8"	0.23"	11/16"	0.39"	13/16"	0.51"	7/8"	0.64"	1"	0.75"	1-1/8"	0.86"	1-1/8"	0.96"	1-1/8"	1.07"	1-1/8"	1.18"	1-1/8"	1.30"	1-1/8"	FT req.		FT req.		FT req.		FT req.	
	96"	0.04"	5/8"	0.23"	11/16"	0.44"	13/16"	0.58"	7/8"	0.72"	1"	0.86"	1-1/8"	0.99"	1-1/4"	1.11"	1-1/4"	1.24"	1-1/4"	1.37"	1-1/4"	1.50"	1-1/4"	FT req.		FT req.		FT req.		FT req.	
	108"	0.04"	5/8"	0.21"	11/16"	0.45"	13/16"	0.65"	7/8"	0.81"	1"	0.96"	1-1/8"	1.11"	1-1/4"	1.26"	1-5/16"	1.40"	1-5/16"	FT req.		FT req.		FT req.		FT req.		FT req.		Not Available	
120"	0.04"	5/8"	0.21"	11/16"	0.47"	13/16"	0.73"	7/8"	0.90"	1"	1.07"	1-1/8"	1.24"	1-1/4"	1.40"	1-5/16"	1.56"	1-7/16"	FT req.		FT req.		FT req.		FT req.		FT req.		Not Available		
50 psf	24"	0.02"	9/16"	0.03"	9/16"	0.06"	9/16"	0.06"	9/16"	0.05"	9/16"	0.04"	9/16"	0.04"	9/16"	0.04"	9/16"	0.03"	9/16"	0.04"	9/16"	0.05"	9/16"	0.05"	9/16"	0.06"	9/16"	0.07"	9/16"	0.08"	9/16"
	36"	0.03"	9/16"	0.09"	11/16"	0.14"	11/16"	0.18"	11/16"	0.21"	11/16"	0.21"	11/16"	0.20"	11/16"	0.19"	11/16"	0.18"	11/16"	0.17"	11/16"	0.16"	11/16"	0.16"	11/16"	0.16"	11/16"	0.15"	11/16"	0.17"	11/16"
	48"	0.06"	9/16"	0.14"	11/16"	0.22"	11/16"	0.26"	11/16"	0.31"	11/16"	0.36"	11/16"	0.40"	11/16"	0.41"	11/16"	0.42"	11/16"	0.43"	11/16"	0.44"	11/16"	0.44"	11/16"	0.45"	11/16"	0.44"	11/16"	***	11/16"
	60"	0.06"	9/16"	0.18"	11/16"	0.26"	11/16"	0.34"	13/16"	0.41"	13/16"	0.46"	13/16"	0.52"	13/16"	0.59"	13/16"	0.65"	13/16"	0.69"	13/16"	0.73"	13/16"	0.76"	13/16"	0.80"	13/16"	0.85"	13/16"	0.88"	13/16"
	72"	0.05"	9/16"	0.21"	11/16"	0.31"	11/16"	0.41"	13/16"	0.49"	7/8"	0.57"	7/8"	0.66"	7/8"	0.73"	7/8"	0.82"	7/8"	0.90"	7/8"	0.99"	7/8"	1.05"	7/8"	1.12"	7/8"	1.19"	7/8"	***	7/8"
	84"	0.04"	9/16"	0.21"	11/16"	0.36"	11/16"	0.46"	13/16"	0.57"	7/8"	0.68"	1"	0.78"	1"	0.88"	1"	0.97"	1"	1.07"	1"	1.18"	1"	1.28"	1"	1.39"	1"	***	1"	***	1"
	96"	0.04"	9/16"	0.20"	11/16"	0.40"	11/16"	0.52"	13/16"	0.66"	7/8"	0.78"	1"	0.90"	1-1/16"	1.01"	1-1/16"	1.13"	1-1/16"	1.24"	1-1/16"	1.36"	1-1/16"	1.48"	1-1/16"	***	1-1/16"	***	1-1/16"	***	1-1/16"
	108"	0.03"	9/16"	0.19"	11/16"	0.41"	11/16"	0.59"	13/16"	0.73"	7/8"	0.88"	1"	1.01"	1-1/16"	1.15"	1-3/16"	1.28"	1-3/16"	1.41"	1-3/16"	1.54"	1-3/16"	***	1-3/16"	***	1-3/16"	***	1-3/16"	***	1-3/16"
120"	0.04"	9/16"	0.18"	11/16"	0.42"	11/16"	0.65"	13/16"	0.82"	7/8"	0.97"	1"	1.13"	1-1/16"	1.28"	1-3/16"	1.42"	1-1/4"	1.57"	1-1/4"	***	1-1/4"	***	1-1/4"	***	1-1/4"	***	1-1/4"	***	1-1/4"	
40 psf	24"	0.01"	9/16"	0.03"	9/16"	0.04"	9/16"	0.05"	9/16"	0.04"	9/16"	0.04"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.04"	9/16"	0.04"	9/16"	0.05"	9/16"	0.06"	9/16"	0.07"	9/16"
	36"	0.03"	9/16"	0.07"	5/8"	0.11"	5/8"	0.16"	5/8"	0.18"	5/8"	0.18"	5/8"	0.17"	5/8"	0.16"	5/8"	0.15"	5/8"	0.15"	5/8"	0.13"	5/8"	0.13"	5/8"	0.13"	5/8"	0.12"	5/8"	0.14"	5/8"
	48"	0.04"	9/16"	0.11"	5/8"	0.19"	11/16"	0.24"	11/16"	0.28"	11/16"	0.31"	11/16"	0.35"	11/16"	0.36"	11/16"	0.36"	11/16"	0.36"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"
	60"	0.05"	9/16"	0.16"	5/8"	0.24"	11/16"	0.31"	11/16"	0.36"	11/16"	0.42"	11/16"	0.46"	11/16"	0.52"	11/16"	0.58"	11/16"	0.61"	11/16"	0.63"	11/16"	0.66"	11/16"	0.69"	11/16"	0.72"	11/16"	0.74"	11/16"
	72"	0.04"	9/16"	0.18"	5/8"	0.28"	11/16"	0.36"	11/16"	0.45"	13/16"	0.51"	13/16"	0.58"	13/16"	0.65"	13/16"	0.72"	13/16"	0.80"	13/16"	0.87"	13/16"	0.92"	13/16"	0.97"	13/16"	1.03"	13/16"	***	13/16"
	84"	0.04"	9/16"	0.18"	5/8"	0.31"	11/16"	0.42"	11/16"	0.51"	13/16"	0.61"	7/8"	0.69"	7/8"	0.78"	7/8"	0.86"	7/8"	0.95"	7/8"	1.04"	7/8"	1.13"	7/8"	1.23"	7/8"	***	7/8"	***	7/8"
	96"	0.03"	9/16"	0.17"	5/8"	0.35"	11/16"	0.46"	11/16"	0.58"	13/16"	0.69"	7/8"	0.80"	15/16"	0.90"	15/16"	1.00"	15/16"	1.10"	15/16"	1.21"	15/16"	1.32"	15/16"	***	15/16"	***	15/16"	***	15/16"
	108"	0.03"	9/16"	0.16"	5/8"	0.36"	11/16"	0.52"	11/16"	0.65"	13/16"	0.78"	7/8"	0.90"	15/16"	1.02"	1"	1.14"	1"	1.25"	1"	1.37"	1"	1.48"	1"	***	1"	***	1"	***	1"
120"	0.03"	9/16"	0.15"	5/8"	0.36"	11/16"	0.58"	11/16"	0.72"	13/16"	0.86"	7/8"	1.00"	15/16"	1.14"	1"	1.27"	1-1/16"	1.40"	1-1/16"	1.54"	1-1/16"	***	1-1/16"	***	1-1/16"	***	1-1/16"	***	1-1/16"	
30 psf	24"	0.01"	1/2"	0.02"	1/2"	0.03"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"
	36"	0.02"	1/2"	0.05"	9/16"	0.09"	9/16"	0.13"	9/16"	0.16"	9/16"	0.15"	9/16"	0.14"	9/16"	0.13"	9/16"	0.12"	9/16"	0.11"	9/16"	0.10"	9/16"	0.10"	9/16"	0.10"	9/16"	0.09"	9/16"	0.11"	9/16"
	48"	0.03"	1/2"	0.09"	9/16"	0.16"	5/8"	0.20"	5/8"	0.24"	5/8"	0.27"	5/8"	0.30"	5/8"	0.31"	5/8"	0.31"	5/8"	0.30"	5/8"	0.30"	5/8"	0.30"	5/8"	0.30"	5/8"	0.29"	5/8"	***	5/8"
	60"	0.04"	1/2"	0.13"	9/16"	0.20"	5/8"	0.27"	11/16"	0.31"	11/16"	0.36"	11/16"	0.40"	11/16"	0.44"	11/16"	0.49"	11/16"	0.51"	11/16"	0.53"	11/16"	0.54"	11/16"	0.56"	11/16"	0.58"	11/16"	0.59"	11/16"
	72"	0.03"	1/2"	0.16"	9/16"	0.24"	5/8"	0.31"	11/16"	0.39"	11/16"	0.44"	11/16"	0.49"	11/16"	0.55"	11/16"	0.62"	11/16"	0.68"	11/16"	0.74"	11/16"	0.78"	11/16"	0.82"	11/16"	0.86"	11/16"	***	11/16"
	84"	0.03"	1/2"	0.15"	9/16"	0.27"	5/8"	0.36"	11/16"	0.44"	11/16"	0.52"	3/4"	0.59"	3/4"	0.67"	3/4"	0.74"	3/4"	0.82"	3/4"	0.89"	3/4"	0.97"	3/4"	1.05"	3/4"	1.05"	3/4"	***	3/4"
	96"	0.02"	1/2"	0.14"	9/16"	0.30"	5/8"	0.40"	11/16"	0.49"	11/16"	0.59"	3/4"	0.69"	13/16"	0.78"	13/16"	0.86"	13/16"	0.95"	13/16"	1.04"	13/16"	1.13"	13/16"	1.13"	13/16"	***	13/16"	***	13/16"
	108"	0.02"	1/2"	0.13"	9/16"	0.31"	5/8"	0.44"	11/16"	0.55"	11/16"	0.67"	3/4"	0.78"	13/16"	0.88"	13/16"	0.98"	13/16"	1.08"	13/16"	1.18"	13/16"	1.18"	13/16"	***	13/16"	***	13/16"	***	13/16"
120"	0.02"	1/2"	0.12"	9/16"	0.31"	5/8"	0.49"	11/16"	0.62"	11/16"	0.74"	3/4"	0.86"	13/16"	0.98"	13/16"	1.10"	7/8"	1.21"	7/8"	1.32"	7/8"	1.43"	7/8"	1.54"	7/8"	1.65"	7/8"	***	7/8"	

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300. *** The size and/or aspect ratio of this unit is outside the parameters of ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".

Deflection and Sightline Reference Guide

1-5/16" Laminated Insulating Unit																																	
Constructed with two plies of 1/4" laminated on the outboard a 1/4" inboard, all plies fully tempered (FT) glass																																	
Wind Load	Width (Base)	Height																															
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"			
		Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline		
60 psf	24"	0.02"	5/8"	0.04"	5/8"	0.07"	5/8"	0.07"	5/8"	0.06"	5/8"	0.06"	5/8"	0.04"	5/8"	0.04"	5/8"	0.04"	5/8"	0.05"	5/8"	0.06"	5/8"	0.06"	5/8"	0.07"	5/8"	0.08"	5/8"	0.10"	5/8"		
	36"	0.04"	5/8"	0.10"	11/16"	0.17"	11/16"	0.20"	11/16"	0.23"	11/16"	0.23"	11/16"	0.21"	11/16"	0.21"	11/16"	0.20"	11/16"	0.18"	11/16"	0.19"	11/16"	0.19"	11/16"	0.19"	11/16"	0.18"	11/16"	0.20"	11/16"		
	48"	0.07"	5/8"	0.17"	11/16"	0.24"	13/16"	0.29"	13/16"	0.34"	13/16"	0.39"	13/16"	0.44"	13/16"	0.45"	13/16"	0.47"	13/16"	0.49"	13/16"	0.50"	13/16"	0.51"	13/16"	0.51"	13/16"	0.51"	13/16"	0.51"	13/16"	***	13/16"
	60"	0.07"	5/8"	0.20"	11/16"	0.29"	13/16"	0.38"	7/8"	0.45"	7/8"	0.51"	7/8"	0.58"	7/8"	0.65"	7/8"	0.73"	7/8"	0.77"	7/8"	0.81"	7/8"	0.86"	7/8"	0.91"	7/8"	0.97"	7/8"	1.01"	7/8"		
	72"	0.06"	5/8"	0.23"	11/16"	0.34"	13/16"	0.45"	7/8"	0.54"	1"	0.64"	1"	0.72"	1"	0.81"	1"	0.90"	1"	1.00"	1"	1.09"	1"	1.17"	1"	1.25"	1"	1.34"	1"	***	1"		
	84"	0.06"	5/8"	0.23"	11/16"	0.39"	13/16"	0.51"	7/8"	0.64"	1"	0.75"	1-1/8"	0.86"	1-1/8"	0.96"	1-1/8"	1.07"	1-1/8"	1.18"	1-1/8"	1.30"	1-1/8"	1.42"	1-1/8"	1.54"	1-1/8"	***	1-1/8"	***	1-1/8"		
	96"	0.04"	5/8"	0.23"	11/16"	0.44"	13/16"	0.58"	7/8"	0.72"	1"	0.86"	1-1/8"	0.99"	1-1/4"	1.11"	1-1/4"	1.24"	1-1/4"	1.37"	1-1/4"	1.50"	1-1/4"	1.64"	1-1/4"	***	1-1/4"	Not Available					
	108"	0.04"	5/8"	0.21"	11/16"	0.45"	13/16"	0.65"	7/8"	0.81"	1"	0.96"	1-1/8"	1.11"	1-1/4"	1.26"	1-5/16"	1.40"	1-5/16"	1.55"	1-5/16"	1.70"	1-5/16"	***	1-5/16"	Not Available							
120"	0.04"	5/8"	0.21"	11/16"	0.47"	13/16"	0.73"	7/8"	0.90"	1"	1.07"	1-1/8"	1.24"	1-1/4"	1.40"	1-5/16"	1.56"	1-7/16"	1.73"	1-7/16"	***	1-7/16"	Maximum size is 120 sf										
50 psf	24"	0.02"	9/16"	0.03"	9/16"	0.06"	9/16"	0.06"	9/16"	0.05"	9/16"	0.04"	9/16"	0.04"	9/16"	0.04"	9/16"	0.03"	9/16"	0.03"	9/16"	0.04"	9/16"	0.05"	9/16"	0.05"	9/16"	0.06"	9/16"	0.07"	9/16"	0.08"	9/16"
	36"	0.03"	9/16"	0.09"	11/16"	0.14"	11/16"	0.18"	11/16"	0.21"	11/16"	0.21"	11/16"	0.20"	11/16"	0.19"	11/16"	0.18"	11/16"	0.17"	11/16"	0.16"	11/16"	0.16"	11/16"	0.16"	11/16"	0.16"	11/16"	0.15"	11/16"	0.17"	11/16"
	48"	0.06"	9/16"	0.14"	11/16"	0.22"	11/16"	0.26"	11/16"	0.31"	11/16"	0.36"	11/16"	0.40"	11/16"	0.41"	11/16"	0.42"	11/16"	0.43"	11/16"	0.44"	11/16"	0.44"	11/16"	0.44"	11/16"	0.45"	11/16"	0.44"	11/16"	***	11/16"
	60"	0.06"	9/16"	0.18"	11/16"	0.26"	11/16"	0.34"	13/16"	0.41"	13/16"	0.46"	13/16"	0.52"	13/16"	0.59"	13/16"	0.65"	13/16"	0.69"	13/16"	0.73"	13/16"	0.77"	13/16"	0.80"	13/16"	0.85"	13/16"	0.88"	13/16"		
	72"	0.05"	9/16"	0.21"	11/16"	0.31"	11/16"	0.41"	13/16"	0.49"	7/8"	0.57"	7/8"	0.66"	7/8"	0.73"	7/8"	0.82"	7/8"	0.90"	7/8"	0.99"	7/8"	1.05"	7/8"	1.12"	7/8"	1.19"	7/8"	***	7/8"		
	84"	0.04"	9/16"	0.21"	11/16"	0.36"	11/16"	0.46"	13/16"	0.57"	7/8"	0.68"	1"	0.78"	1"	0.88"	1"	0.97"	1"	1.07"	1"	1.18"	1"	1.28"	1"	1.39"	1"	***	1"	***	1"		
	96"	0.04"	9/16"	0.20"	11/16"	0.40"	11/16"	0.52"	13/16"	0.66"	7/8"	0.78"	1"	0.90"	1-1/16"	1.01"	1-1/16"	1.13"	1-1/16"	1.24"	1-1/16"	1.36"	1-1/16"	1.48"	1-1/16"	***	1-1/16"	Not Available					
	108"	0.03"	9/16"	0.19"	11/16"	0.41"	11/16"	0.59"	13/16"	0.73"	7/8"	0.88"	1"	1.01"	1-1/16"	1.15"	1-3/16"	1.28"	1-3/16"	1.41"	1-3/16"	1.54"	1-3/16"	***	1-3/16"	Maximum size is 120 sf							
120"	0.04"	9/16"	0.18"	11/16"	0.42"	11/16"	0.65"	13/16"	0.82"	7/8"	0.97"	1"	1.13"	1-1/16"	1.28"	1-3/16"	1.42"	1-1/4"	1.57"	1-1/4"	***	1-1/4"	Maximum size is 120 sf										
40 psf	24"	0.01"	9/16"	0.03"	9/16"	0.04"	9/16"	0.05"	9/16"	0.04"	9/16"	0.04"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.03"	9/16"	0.04"	9/16"	0.04"	9/16"	0.05"	9/16"	0.06"	9/16"	0.07"	9/16"
	36"	0.03"	9/16"	0.07"	5/8"	0.11"	5/8"	0.16"	5/8"	0.18"	5/8"	0.18"	5/8"	0.17"	5/8"	0.16"	5/8"	0.15"	5/8"	0.15"	5/8"	0.13"	5/8"	0.13"	5/8"	0.13"	5/8"	0.12"	5/8"	0.14"	5/8"		
	48"	0.04"	9/16"	0.11"	5/8"	0.19"	11/16"	0.24"	11/16"	0.28"	11/16"	0.31"	11/16"	0.35"	11/16"	0.36"	11/16"	0.36"	11/16"	0.36"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	0.37"	11/16"	***	11/16"
	60"	0.05"	9/16"	0.16"	5/8"	0.24"	11/16"	0.31"	11/16"	0.36"	11/16"	0.42"	11/16"	0.46"	11/16"	0.52"	11/16"	0.58"	11/16"	0.61"	11/16"	0.63"	11/16"	0.66"	11/16"	0.69"	11/16"	0.72"	11/16"	0.74"	11/16"		
	72"	0.04"	9/16"	0.18"	5/8"	0.28"	11/16"	0.36"	11/16"	0.45"	13/16"	0.51"	13/16"	0.58"	13/16"	0.65"	13/16"	0.72"	13/16"	0.80"	13/16"	0.87"	13/16"	0.92"	13/16"	0.97"	13/16"	1.03"	13/16"	***	13/16"		
	84"	0.04"	9/16"	0.18"	5/8"	0.31"	11/16"	0.42"	11/16"	0.51"	13/16"	0.61"	7/8"	0.69"	7/8"	0.78"	7/8"	0.86"	7/8"	0.95"	7/8"	1.04"	7/8"	1.13"	7/8"	1.23"	7/8"	***	7/8"	***	7/8"		
	96"	0.03"	9/16"	0.17"	5/8"	0.35"	11/16"	0.46"	11/16"	0.58"	13/16"	0.69"	7/8"	0.80"	15/16"	0.90"	15/16"	1.00"	15/16"	1.10"	15/16"	1.21"	15/16"	1.32"	15/16"	***	15/16"	Not Available					
	108"	0.03"	9/16"	0.16"	5/8"	0.36"	11/16"	0.52"	11/16"	0.65"	13/16"	0.78"	7/8"	0.90"	15/16"	1.02"	1"	1.14"	1"	1.25"	1"	1.37"	1"	***	1"	Maximum size is 120 sf							
120"	0.03"	9/16"	0.15"	5/8"	0.36"	11/16"	0.58"	11/16"	0.72"	13/16"	0.86"	7/8"	1.00"	15/16"	1.14"	1"	1.27"	1-1/16"	1.40"	1-1/16"	***	1-1/16"	Maximum size is 120 sf										
30 psf	24"	0.01"	1/2"	0.02"	1/2"	0.03"	1/2"	0.04"	1/2"	0.03"	1/2"	0.03"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.02"	1/2"	0.03"	1/2"	0.03"	1/2"	0.04"	1/2"	0.04"	1/2"	0.05"	1/2"		
	36"	0.02"	1/2"	0.05"	9/16"	0.09"	9/16"	0.13"	9/16"	0.16"	9/16"	0.15"	9/16"	0.14"	9/16"	0.13"	9/16"	0.12"	9/16"	0.11"	9/16"	0.10"	9/16"	0.10"	9/16"	0.10"	9/16"	0.09"	9/16"	0.11"	9/16"		
	48"	0.03"	1/2"	0.09"	9/16"	0.16"	5/8"	0.20"	5/8"	0.24"	5/8"	0.27"	5/8"	0.30"	5/8"	0.31"	5/8"	0.31"	5/8"	0.30"	5/8"	0.30"	5/8"	0.30"	5/8"	0.30"	5/8"	0.29"	5/8"	***	5/8"		
	60"	0.04"	1/2"	0.13"	9/16"	0.20"	5/8"	0.27"	11/16"	0.31"	11/16"	0.36"	11/16"	0.40"	11/16"	0.44"	11/16"	0.49"	11/16"	0.51"	11/16"	0.53"	11/16"	0.54"	11/16"	0.56"	11/16"	0.58"	11/16"	0.59"	11/16"		
	72"	0.03"	1/2"	0.16"	9/16"	0.24"	5/8"	0.31"	11/16"	0.39"	11/16"	0.44"	11/16"	0.49"	11/16"	0.55"	11/16"	0.62"	11/16"	0.68"	11/16"	0.74"	11/16"	0.78"	11/16"	0.82"	11/16"	0.86"	11/16"	***	11/16"		
	84"	0.03"	1/2"	0.15"	9/16"	0.27"	5/8"	0.36"	11/16"	0.44"	11/16"	0.52"	3/4"	0.59"	3/4"	0.67"	3/4"	0.74"	3/4"	0.82"	3/4"	0.89"	3/4"	0.97"	3/4"	1.05"	3/4"	***	3/4"	***	3/4"		
	96"	0.02"	1/2"	0.14"	9/16"	0.30"	5/8"	0.40"	11/16"	0.49"	11/16"	0.59"	3/4"	0.69"	13/16"	0.78"	13/16"	0.86"	13/16"	0.95"	13/16"	1.04"	13/16"	1.13"	13/16"	***	13/16"	Not Available					
	108"	0.02"	1/2"	0.13"	9/16"	0.31"	5/8"	0.44"	11/16"	0.55"	11/16"	0.67"	3/4"	0.78"	13/16"	0.88"	13/16"	0.98"	13/16"	1.08"	13/16"	1.18"	13/16"	***	13/16"	Maximum size is 120 sf							
120"	0.02"	1/2"	0.12"	9/16"	0.31"	5/8"	0.49"	11/16"	0.62"	11/16"	0.74"	3/4"	0.86"	13/16"	0.98"	13/16"	1.10"	7/8"	1.21"	7/8"	***	7/8"	Maximum size is 120 sf										

Values are based on glass installed vertically, for sloped glazing calculations, contact Viracon.

Deflection is center of glass based on ASTM E1300. *** The size and/or aspect ratio of this unit is outside the parameters of ASTM E1300.

Sightline is the required sightline for structurally glazed units and is calculated utilizing ASTM C1249. When conventionally glazed, the standard sightline is 1/2".