PRESSGLASS

DEFLECTION AND SIGHTLINE REFERENCE GUIDE

1-5/8" Insulating Unit

Constructed with two plies of 1/4" laminated on the outboard and two plies of 1/4" laminated on the inboard, all plies heat strengtheded (HS) glass and .060" PVB interlayer

Wind Load	Width (Base)	Height																																	
		24"		36"		48"		60"		72"		84"		96"		108"		120"		132"		144"		156"		168"		180"		192"		204"		216"		228"	
		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	Deflection	Sightline	Deflection	Sightline	Deflection	Sightline
60 psf	24"	<0.04"	1"	<0.04"	3/4"	<0.04"	3/4"	<0.04"	3/4"	<0.04"	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"	<0.04"	5/8"	0.04"	5/8"	0.05"	5/8"	0.05"	5/8"	0.05"	5/8"	0.05"	5/8"	0.05"	5/8"
	36"	<0.04"	3/4"	0.06"	3/4"	0.08"	5/8"	0.13"	5/8"	0.17"	5/8"	0.11"	5/8"	0.14"	5/8"	0.14"	5/8"	0.10"	5/8"	0.11"	5/8"	0.11"	5/8"	0.11"	5/8"	0.10"	5/8"	0.10"	5/8"	0.12"	5/8"	0.13"	5/8"	0.17"	5/8"	0.13"	5/8"
	48"	<0.04"	3/4"	0.08"	5/8"	0.18"	3/4"	0.20"	5/8"	0.24"	5/8"	0.28"	5/8"	0.32"	5/8"	0.31"	5/8"	0.32"	5/8"	0.31"	5/8"	0.32"	5/8"	0.24"	5/8"	0.24"	5/8"	0.30"	5/8"	0.36"	5/8"	0.28"	5/8"	0.33"	5/8"	0.33"	5/8"
	60"	<0.04"	3/4"	0.13"	5/8"	0.20"	5/8"	0.28"	3/4"	0.31"	5/8"	0.36"	5/8"	0.42"	5/8"	0.46"	5/8"	0.51"	5/8"	0.41"	5/8"	0.54"	5/8"	0.54"	5/8"	0.57"	5/8"	0.62"	5/8"	0.48"	5/8"	0.54"	5/8"	0.62"	5/8"	0.61"	5/8"
	72"	<0.04"	5/8"	0.17"	5/8"	0.24"	5/8"	0.31"	5/8"	0.41"	3/4"	0.46"	3/4"	0.51"	3/4"	0.57"	3/4"	0.65"	3/4"	0.71"	3/4"	0.78"	3/4"	0.73"	3/4"	0.85"	3/4"	0.84"	3/4"	0.88"	3/4"	0.97"	3/4"	1.01"	3/4"	0.97"	3/4"
	84"	<0.04"	5/8"	0.11"	5/8"	0.28"	5/8"	0.36"	5/8"	0.46"	3/4"	0.55"	3/4"	0.59"	3/4"	0.69"	3/4"	0.76"	3/4"	0.85"	3/4"	0.94"	3/4"	1.02"	3/4"	1.10"	3/4"	1.09"	3/4"	1.26"	3/4"	1.23"	3/4"	1.37"	3/4"	1.38"	3/4"
	96"	<0.04"	5/8"	0.14"	5/8"	0.32"	5/8"	0.42"	5/8"	0.51"	3/4"	0.59"	3/4"	0.73"	7/8"	0.82"	7/8"	0.89"	7/8"	0.99"	7/8"	1.09"	7/8"	1.19"	7/8"	1.36"	7/8"	1.46"	7/8"	1.57"	7/8"	1.47"	7/8"	1.68"	7/8"	1.68"	7/8"
	108"	<0.04"	5/8"	0.14"	5/8"	0.31"	5/8"	0.46"	5/8"	0.57"	3/4"	0.69"	3/4"	0.82"	7/8"	0.93"	7/8"	1.01"	7/8"	1.12"	7/8"	1.23"	7/8"	*1.43"*	7/8"	*1.54"*	7/8"	*1.66"*	7/8"	*1.77"*	7/8"	1.89"	7/8"	2.00"	7/8"	1.98"	7/8"
	120"	<0.04"	5/8"	0.10"	5/8"	0.32"	5/8"	0.51"	5/8"	0.65"	3/4"	0.76"	3/4"	0.89"	7/8"	1.01"	7/8"	1.15"	1"	1.26"	1"	1.47"	1"	1.59"	1"	1.73"	1"	1.84"	1"	1.95"	1"	2.09"	1"	2.20"	1"	2.34"	1"
	132"	<0.04"	5/8"	0.11"	5/8"	0.31"	5/8"	0.41"	5/8"	0.71"	3/4"	0.85"	3/4"	0.99"	7/8"	1.12"	7/8"	1.26"	1"	1.40"	1"	1.62"	1"	1.74"	1"	1.89"	1"	2.01"	1"	2.17"	1"	2.28"	1"	>2.36"	1"	*FT req.*	1"
50 psf	24"	<0.04"	1"	<0.04"	3/4"	<0.04"	3/4"	<0.04"	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"	<0.04"	5/8"	<0.04"	5/8"	<0.04"	5/8"	0.04"	5/8"	0.05"	5/8"	<0.04"	5/8"	<0.04"	5/8"	<0.04"	5/8"
	36"	<0.04"	3/4"	0.05"	3/4"	0.07"	5/8"	0.11"	5/8"	0.15"	5/8"	0.11"	5/8"	0.10"	5/8"	0.12"	1/2"	0.07"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.08"	1/2"	0.09"	1/2"	0.10"	1/2"	0.11"	1/2"	0.13"	1/2"	0.09"	1/2"
	48"	<0.04"	3/4"	0.07"	5/8"	0.15"	5/8"	0.18"	5/8"	0.21"	5/8"	0.25"	5/8"	0.29"	5/8"	0.26"	5/8"	0.27"	5/8"	0.28"	5/8"	0.28"	5/8"	0.23"	5/8"	0.22"	5/8"	0.23"	5/8"	0.32"	5/8"	0.30"	5/8"	0.28"	5/8"	0.31"	1/2"
	60"	<0.04"	5/8"	0.11"	5/8"	0.18"	5/8"	0.25"	5/8"	0.27"	5/8"	0.34"	5/8"	0.38"	5/8"	0.42"	5/8"	0.46"	5/8"	0.39"	5/8"	0.40"	5/8"	0.51"	5/8"	0.51"	5/8"	0.54"	5/8"	0.52"	5/8"	0.57"	5/8"	0.53"	5/8"	0.53"	5/8"
	72"	<0.04"	5/8"	0.15"	5/8"	0.21"	5/8"	0.27"	5/8"	0.37"	5/8"	0.40"	5/8"	0.47"	5/8"	0.52"	5/8"	0.58"	5/8"	0.65"	5/8"	0.71"	5/8"	0.74"	5/8"	0.71"	5/8"	0.72"	5/8"	0.85"	5/8"	0.85"	5/8"	0.90"	5/8"	0.80"	5/8"
	84"	<0.04"	5/8"	0.11"	5/8"	0.25"	5/8"	0.34"	5/8"	0.40"	5/8"	0.50"	3/4"	0.54"	3/4"	0.64"	3/4"	0.70"	3/4"	0.76"	3/4"	0.85"	3/4"	0.92"	3/4"	1.00"	3/4"	0.91"	3/4"	1.08"	3/4"	1.05"	3/4"	1.19"	3/4"	1.21"	3/4"
	96"	<0.04"	5/8"	0.10"	5/8"	0.29"	5/8"	0.38"	5/8"	0.47"	5/8"	0.54"	3/4"	0.66"	3/4"	0.72"	3/4"	0.82"	3/4"	0.89"	3/4"	0.98"	3/4"	1.07"	3/4"	1.23"	3/4"	1.32"	3/4"	1.42"	3/4"	1.24"	3/4"	1.46"	3/4"	1.45"	3/4"
	108"	<0.04"	5/8"	0.12"	1/2"	0.26"	5/8"	0.42"	5/8"	0.52"	5/8"	0.64"	3/4"	0.72"	3/4"	0.85"	7/8"	0.91"	3/4"	1.01"	3/4"	1.12"	3/4"	1.29"	3/4"	1.40"	3/4"	1.51"	3/4"	1.61"	3/4"	1.72"	3/4"	1.83"	3/4"	1.71"	3/4"
	120"	<0.04"	5/8"	0.07"	1/2"	0.27"	5/8"	0.46"	5/8"	0.58"	5/8"	0.70"	3/4"	0.82"	3/4"	0.91"	3/4"	1.05"	7/8"	1.14"	7/8"	1.33"	7/8"	1.45"	7/8"	1.56"	7/8"	1.68"	7/8"	1.79"	7/8"	1.92"	7/8"	2.02"	7/8"	2.14"	7/8"
	132"	<0.04"	5/8"	0.09"	1/2"	0.28"	5/8"	0.39"	5/8"	0.65"	5/8"	0.76"	3/4"	0.89"	3/4"	1.01"	3/4"	1.14"	7/8"	1.28"	7/8"	1.47"	7/8"	1.60"	7/8"	1.74"	7/8"	1.85"	7/8"	1.95"	7/8"	2.09"	7/8"	2.20"	7/8"	2.34"	7/8"
40 psf	24"	<0.04"	7/8"	<0.04"	3/4"	<0.04"	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"	<0.04"	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"	<0.04"	5/8"	<0.04"	5/8"
	36"	<0.04"	3/4"	<0.04"	3/4"	0.06"	5/8"	0.09"	5/8"	0.13"	1/2"	0.12"	1/2"	0.10"	1/2"	0.10"	1/2"	0.08"	1/2"	0.07"	1/2"	0.08"	1/2"	0.08"	1/2"	0.07"	1/2"	0.07"	1/2"	0.08"	1/2"	0.09"	1/2"	0.10"	1/2"	0.07"	1/2"
	48"	<0.04"	5/8"	0.06"	5/8"	0.12"	5/8"	0.17"	5/8"	0.19"	1/2"	0.23"	1/2"	0.25"	1/2"	0.21"	1/2"	0.24"	1/2"	0.24"	1/2"	0.24"	1/2"	0.21"	1/2"	0.20"	1/2"	0.20"	1/2"	0.27"	1/2"	0.26"	1/2"	0.24"	1/2"	0.27"	1/2"
	60"	<0.04"	5/8"	0.09"	5/8"	0.17"	5/8"	0.23"	5/8"	0.25"	5/8"	0.30"	5/8"	0.34"	1/2"	0.38"	1/2"	0.41"	1/2"	0.38"	1/2"	0.38"	1/2"	0.39"	1/2"	0.42"	1/2"	0.46"	1/2"	0.37"	1/2"	0.48"	1/2"	0.45"	1/2"	0.49"	1/2"
	72"	<0.04"	5/8"	0.13"	1/2"	0.19"	1/2"	0.25"	5/8"	0.33"	5/8"	0.36"	5/8"	0.43"	5/8"	0.46"	5/8"	0.51"	5/8"	0.56"	5/8"	0.62"	5/8"	0.58"	5/8"	0.57"	5/8"	0.68"	5/8"	0.73"	5/8"	0.73"	5/8"	0.77"	5/8"	0.67"	5/8"
	84"	<0.04"	5/8"	0.12"	1/2"	0.23"	1/2"	0.30"	5/8"	0.36"	5/8"	0.45"	5/8"	0.49"	5/8"	0.54"	5/8"	0.61"	5/8"	0.68"	5/8"	0.74"	5/8"	0.81"	5/8"	0.88"	5/8"	0.77"	5/8"	0.93"	5/8"	0.89"	5/8"	1.02"	5/8"	1.03"	5/8"
	96"	<0.04"	5/8"	0.10"	1/2"	0.25"	1/2"	0.34"	1/2"	0.43"	5/8"	0.49"	5/8"	0.59"	5/8"	0.66"	5/8"	0.71"	5/8"	0.81"	5/8"	0.87"	5/8"	0.95"	5/8"	1.09"	5/8"	1.17"	5/8"	1.25"	5/8"	1.30"	5/8"	1.25"	5/8"	1.23"	5/8"
	108"	<0.04"	5/8"	0.10"	1/2"	0.21"	1/2"	0.38"	1/2"	0.46"	5/8"	0.54"	5/8"	0.66"	5/8"	0.75"	3/4"	0.83"	3/4"	0.90"	3/4"	0.99"	3/4"	1.14"	3/4"	1.24"	3/4"	1.33"	3/4"	1.43"	3/4"	1.53"	3/4"	1.62"	3/4"	1.46"	3/4"
	120"	<0.04"	5/8"	0.08"	1/2"	0.24"	1/2"	0.41"	1/2"	0.51"	5/8"	0.61"	5/8"	0.71"	5/8"	0.83"	3/4"	0.94"	3/4"	1.01"	3/4"	1.17"	3/4"	1.29"	3/4"	1.39"	3/4"	1.50"	3/4"	1.60"	3/4"	1.71"	3/4"	1.81"	3/4"	1.92"	3/4"
	132"	<0.04"	5/8"	0.07"	1/2"	0.24"	1/2"	0.38"	1/2"	0.56"	5/8"	0.68"	5/8"	0.81"	5/8"	0.90"	3/4"	1.01"	3/4"	1.14"	3/4"	1.31"	3/4"	1.43"	3/4"	1.53"	3/4"	1.65"	3/4"	1.76"	3/4"	1.88"	3/4"	1.98"	3/4"	2.10"	3/4"
30 psf	24"	<0.04"	7/8"	<0.04"	3/4"	<0.04"	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"	<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"	<0.04"	1/2"	<0.04"	1/2"
	36"	<0.04"	3/4"	<0.04"	5/8"	0.04"	1/2"	0.07"	1/2"	0.09"	1/2"	0.05"	1/2"	0.09"	1/2"	0.08"	1/2"	0.05"	1/2"	0.07"	1/2"	0.06"	1/2"	0.06"	1/2"	0.05"	1/2"	0.05"	1/2"	0.06"	1/2"	0.07"	1/2"	0.09"	1/2"	0.07"	1/2"
	48"	<0.04"	5/8"	0.04"	1/2"	0.09"	1/2"	0.12"	1/2"	0.17"	1/2"	0.19"	1/2"	0.22"	1/2"	0.16"	1/2"	0.20"	1/2"	0.17"	1/2"	0.19"	1/2"	0.16"	1/2"	0.18"	1/2"	0.17"	1/2"	0.22"	1/2"	0.22"	1/2"	0.21"	1/2"	0.22"	1/2"
	60"	<0.04"	5/8"	0.07"	1/2"	0.12"	1/2"	0.19"	1/2"	0.21"	1/2"	0.25"	1/2"	0.29"	1/2"	0.32"	1/2"	0.36"	1/2"	0.24"	1/2"	0.35"	1/2"	0.34"	1/2"	0.35"	1/2"	0.37"	1/2"	0.25"	1/2"	0.33"	1/2"	0.39"	1/2"	0.38"	1/2"
	72"	<0.04"	5/8"	0.09"	1/2"	0.17"	1/2"	0.21"	1/2"	0.28"	1/2"	0.31"	1/2"	0.35"	1/2"	0.39"	1/2"	0.44"	1/2"	0.48"	1/2"	0.53"	1/2"	0.41"	1/2"	0.55"	1/2"	0.54"	1/2"	0.55"	1/2"	0.62"	1/2"	0.64"	1/2"	0.59"	1/2"
	84"	<0.04"	5/8"	0.05"	1/2"	0.19"	1/2"	0.25"	1/2"	0.31"	1/2"	0.39"	5/8"	0.44"	1/2"	0.48"	1/2"	0.52"	1/2"	0.57"	1/2"	0.64"	1/2"	0.69"	1/2"	0.75"	1/2"	0.68"	1/2"	0.81"	1/2"	0.77"	1/2"	0.88"	1/2"	0.87"	1/2"
	96"	<0.04"	5/8"	0.09"	1/2"	0.22"	1/2"	0.29"	1/2"	0.35"	1/2"	0.44"	1/2"	0.50"	5/8"	0.54"	5/8"	0.60"	5/8"	0.68"	5/8"	0.74"	5/8"	0.81"	5/8"	0.93"	5/8"	0.99"	5/8"	1.07"	5/8"	0.91"	5/8"	1.09"	5/8"	1.05"	5/8"
	108"	<0.04"	5/8"	0.08"	1/2"	0.16"	1/2"	0.32"	1/2"	0.39"	1/2"	0.48"	1/2"	0.54"	5/8"	0.65"	5/8"	0.70"	5/8"	0.76"	5/8"	0.85"	5/8"	0.98"	5/8"	1.07"	5/8"	1.14"	5/8"	1.22"	5/8"	1.31"	5/8"	1.39"	5/8"	1.26"	5/8"
	120"	<0.04"	5/8"	0.05"	1/2"	0.20"	1/2"	0.36"	1/2"	0.44"	1/2"	0.52"	1/2"	0.60"	5/8"	0.70"	5/8"	0.81"	5/8"	0.87"	5/8"	1.00"	5/8"	1.11"	5/8"	1.20"	5/8"	1.28"	5/8"	1.38"	5/8"	1.47"	5/8"	1.56"	5/8"	1.65"	5/8"
	132"	<0.04"	1/2"	0.07"	1/2"	0.17"	1/2"	0.24"	1/2"	0.48"	1/2"	0.57"	1/2"	0.68"	5/8"	0.76"	5/8"	0.87"	5/8"	0.98"	5/8"	1.13"	5/8"	1.23"	5/8"	1.32"	5/8"	1.42"	5/8"	1.52"	5/8"	1.62"	5/8"	1.73"	5/8"	1.82"	5/8"

Values are for vertically installed glass. Deflection is center of glass based on ASTM E1300 and is calculated using Window Glass Design (WGD5) and Advanced Window Glass Design (v3.0.1.0). Sightline is for structurally glazed units based on ASTM C1249. When conventionally glazed, the minimum sightline is 1/2".