

## 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"		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		
60 psf	24"	<0.04"	3/4"	0.05"	5/8"	0.07"	5/8"	0.08"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.09"	1/2"	0.11"	1/2"	0.13"	1/2"	0.15"	1/2"	0.18"	1/2"	0.20"	1/2"	0.23"	1/2"	0.26"	1/2"	0.29"	1/2"	0.33"	1/2"		
36"	0.05"	5/8"	0.15"	5/8"	0.20"	5/8"	0.25"	1/2"	0.32"	1/2"	0.31"	1/2"	0.36"	1/2"	0.41"	1/2"	0.38"	1/2"	0.43"	1/2"	0.39"	1/2"	0.45"	1/2"	0.39"	1/2"	0.46"	1/2"	0.52"	1/2"	0.58"	1/2"	0.65"	1/2"	0.71"	1/2"	
48"	0.07"	5/8"	0.20"	5/8"	0.33"	5/8"	0.43"	5/8"	0.53"	5/8"	0.60"	5/8"	0.71"	5/8"	0.81"	5/8"	0.93"	5/8"	1.06"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	
60"	0.08"	1/2"	0.25"	1/2"	0.43"	5/8"	0.56"	5/8"	0.68"	5/8"	0.81"	5/8"	0.93"	5/8"	1.06"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
72"	0.09"	1/2"	0.32"	1/2"	0.53"	5/8"	0.68"	5/8"	0.81"	3/4"	0.96"	3/4"	1.11"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
84"	0.09"	1/2"	0.31"	1/2"	0.60"	5/8"	0.81"	5/8"	0.96"	3/4"	1.07"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
96"	0.09"	1/2"	0.36"	1/2"	0.71"	5/8"	0.93"	5/8"	1.11"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	
108"	0.09"	1/2"	0.41"	1/2"	0.66"	5/8"	1.06"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	
120"	0.09"	1/2"	0.38"	1/2"	0.78"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	
132"	0.11"	1/2"	0.43"	1/2"	0.89"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	
50 psf	24"	<0.04"	3/4"	0.04"	5/8"	0.06"	1/2"	0.06"	1/2"	0.08"	1/2"	0.07"	1/2"	0.08"	1/2"	0.07"	1/2"	0.09"	1/2"	0.11"	1/2"	0.13"	1/2"	0.15"	1/2"	0.17"	1/2"	0.19"	1/2"	0.22"	1/2"	0.25"	1/2"	0.27"	1/2"		
36"	0.04"	5/8"	0.13"	5/8"	0.18"	1/2"	0.21"	1/2"	0.28"	1/2"	0.25"	1/2"	0.30"	1/2"	0.35"	1/2"	0.30"	1/2"	0.35"	1/2"	0.38"	1/2"	0.30"	1/2"	0.36"	1/2"	0.38"	1/2"	0.43"	1/2"	0.49"	1/2"	0.54"	1/2"	0.60"	1/2"	
48"	0.06"	1/2"	0.18"	1/2"	0.29"	5/8"	0.38"	1/2"	0.48"	1/2"	0.55"	1/2"	0.63"	1/2"	0.67"	1/2"	0.74"	1/2"	0.87"	1/2"	0.88"	1/2"	0.87"	1/2"	0.88"	1/2"	0.99"	1/2"	1.06"	1/2"	0.98"	1/2"	0.95"	1/2"	1.10"	1/2"	
60"	0.06"	1/2"	0.21"	1/2"	0.38"	1/2"	0.50"	5/8"	0.62"	5/8"	0.74"	5/8"	0.85"	5/8"	0.96"	5/8"	1.07"	5/8"	1.10"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	
72"	0.08"	1/2"	0.28"	1/2"	0.48"	1/2"	0.62"	5/8"	0.74"	5/8"	0.88"	5/8"	1.02"	5/8"	1.15"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	
84"	0.07"	1/2"	0.25"	1/2"	0.55"	1/2"	0.74"	5/8"	0.88"	5/8"	0.99"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
96"	0.08"	1/2"	0.30"	1/2"	0.63"	1/2"	0.85"	5/8"	1.02"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
108"	0.07"	1/2"	0.35"	1/2"	0.67"	1/2"	0.96"	5/8"	1.15"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
120"	0.07"	1/2"	0.30"	1/2"	0.74"	1/2"	1.07"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	
132"	0.09"	1/2"	0.35"	1/2"	0.77"	1/2"	1.10"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	
40 psf	24"	<0.04"	5/8"	<0.04"	1/2"	0.05"	1/2"	0.05"	1/2"	0.06"	1/2"	0.06"	1/2"	0.05"	1/2"	0.06"	1/2"	0.07"	1/2"	0.09"	1/2"	0.10"	1/2"	0.12"	1/2"	0.14"	1/2"	0.16"	1/2"	0.18"	1/2"	0.20"	1/2"	0.22"	1/2"		
36"	<0.04"	1/2"	0.10"	1/2"	0.15"	1/2"	0.19"	1/2"	0.23"	1/2"	0.20"	1/2"	0.24"	1/2"	0.29"	1/2"	0.24"	1/2"	0.28"	1/2"	0.30"	1/2"	0.24"	1/2"	0.29"	1/2"	0.31"	1/2"	0.35"	1/2"	0.39"	1/2"	0.44"	1/2"	0.49"	1/2"	
48"	0.05"	1/2"	0.15"	1/2"	0.25"	1/2"	0.33"	1/2"	0.41"	1/2"	0.47"	1/2"	0.54"	1/2"	0.56"	1/2"	0.63"	1/2"	0.65"	1/2"	0.74"	1/2"	0.73"	1/2"	0.70"	1/2"	0.81"	1/2"	0.88"	1/2"	0.79"	1/2"	0.76"	1/2"	0.89"	1/2"	
60"	0.05"	1/2"	0.19"	1/2"	0.33"	1/2"	0.44"	1/2"	0.55"	1/2"	0.65"	1/2"	0.75"	1/2"	0.85"	1/2"	0.95"	1/2"	0.94"	1/2"	1.07"	1/2"	>1.18"	1/2"	>1.18"	1/2"	>1.18"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	
72"	0.06"	1/2"	0.23"	1/2"	0.41"	1/2"	0.55"	1/2"	0.66"	5/8"	0.79"	5/8"	0.91"	5/8"	1.03"	5/8"	1.16"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	
84"	0.06"	1/2"	0.20"	1/2"	0.47"	1/2"	0.65"	1/2"	0.79"	5/8"	0.89"	5/8"	1.07"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	
96"	0.06"	1/2"	0.24"	1/2"	0.54"	1/2"	0.75"	1/2"	0.91"	5/8"	1.07"	5/8"	1.13"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"	FT req.	5/8"	
108"	0.05"	1/2"	0.29"	1/2"	0.56"	1/2"	0.85"	1/2"	1.03"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
120"	0.06"	1/2"	0.24"	1/2"	0.63"	1/2"	0.95"	1/2"	1.16"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
132"	0.07"	1/2"	0.28"	1/2"	0.65"	1/2"	0.94"	1/2"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	FT req.	3/4"	
30 psf	24"	<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"	0.05"	1/2"	0.06"	1/2"	0.08"	1/2"	0.09"	1/2"	0.10"	1/2"	0.12"	1/2"	0.13"	1/2"	0.15"	1/2"	0.16"	1/2"		
36"	<0.04"	1/2"	0.08"	1/2"	0.12"	1/2"	0.13"	1/2"	0.18"	1/2"	0.16"	1/2"	0.19"	1/2"	0.23"	1/2"	0.19"	1/2"	0.22"	1/2"	0.23"	1/2"	0.19"	1/2"	0.22"	1/2"	0.23"	1/2"	0.30"	1/2"	0.33"	1/2"	0.37"	1/2"	0.40"	1/2"	
48"	<0.04"	1/2"	0.12"	1/2"	0.21"	1/2"	0.27"	1/2"	0.34"	1/2"	0.37"	1/2"	0.45"	1/2"	0.48"	1/2"	0.45"	1/2"	0.53"	1/2"	0.59"	1/2"	0.60"	1/2"	0.56"	1/2"	0.64"	1/2"	0.68"	1/2"	0.64"	1/2"	0.60"	1/2"	0.69"	1/2"	
60"	<0.04"	1/2"	0.13"	1/2"	0.27"	1/2"	0.38"	1/2"	0.46"	1/2"	0.55"	1/2"	0.61"	1/2"	0.70"	1/2"	0.80"	1/2"	0.79"	1/2"	0.90"	1/2"	0.94"	1/2"	1.05"	1/2"	1.15"	1/2"	1.08"	1/2"	>1.18"	1/2"	>1.18"	1/2"	>1.18"	1/2"	
72"	0.04"	1/2"	0.18"	1/2"	0.34"	1/2"	0.46"	1/2"	0.57"	1/2"	0.68"	1/2"	0.78"	1/2"	0.89"	1/2"	0.99"	1/2"	1.10"	1/2"	>1.18"																