



# DEFLECTION AND SIGHTLINE REFERENCE GUIDE

1-1/16" Insulating Unit																																									
Constructed with a 5/16" outboard and a 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"		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"	7/8"	<0.04"	3/4"	0.04"	5/8"	0.05"	5/8"	0.05"	5/8"	0.04"	5/8"	0.05"	5/8"	0.05"	5/8"	0.06"	5/8"	0.08"	5/8"	0.09"	5/8"	0.11"	5/8"	0.12"	5/8"	0.14"	5/8"	0.16"	5/8"	0.17"	5/8"	0.19"	5/8"						
	36"	<0.04"	3/4"	0.09"	3/4"	0.13"	5/8"	0.17"	5/8"	0.22"	5/8"	0.23"	5/8"	0.25"	5/8"	0.27"	5/8"	0.27"	5/8"	0.27"	5/8"	0.26"	5/8"	0.28"	5/8"	0.27"	5/8"	0.31"	5/8"	0.35"	5/8"	0.39"	5/8"	0.44"	5/8"						
	48"	0.04"	5/8"	0.13"	5/8"	0.25"	3/4"	0.32"	3/4"	0.42"	3/4"	0.47"	3/4"	0.55"	3/4"	0.51"	3/4"	0.59"	3/4"	0.66"	3/4"	0.72"	3/4"	0.62"	3/4"	0.74"	3/4"	0.73"	3/4"	0.81"	3/4"	0.81"	3/4"	0.79"	3/4"	0.78"	3/4"				
	60"	0.05"	5/8"	0.17"	5/8"	0.32"	3/4"	0.46"	3/4"	0.57"	3/4"	0.69"	3/4"	0.77"	3/4"	0.88"	3/4"	0.99"	3/4"	1.05"	3/4"	1.04"	3/4"	1.19"	3/4"	1.31"	3/4"	1.41"	3/4"	1.43"	3/4"	1.41"	3/4"	>1.57"	3/4"	>1.57"	3/4"				
	72"	0.05"	5/8"	0.22"	5/8"	0.42"	3/4"	0.57"	3/4"	0.71"	7/8"	0.85"	7/8"	0.99"	7/8"	1.12"	7/8"	1.24"	7/8"	1.37"	7/8"	1.51"	7/8"	1.49"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"				
	84"	0.04"	5/8"	0.23"	5/8"	0.47"	3/4"	0.69"	3/4"	0.85"	7/8"	0.98"	1"	1.14"	1"	1.29"	1"	1.45"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"		
	96"	0.05"	5/8"	0.25"	5/8"	0.55"	3/4"	0.77"	3/4"	0.99"	7/8"	1.14"	1"	1.26"	1"	1.45"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"		
	108"	0.05"	5/8"	0.27"	5/8"	0.51"	3/4"	0.88"	3/4"	1.12"	7/8"	1.29"	1"	1.45"	1"	1.55"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"		
	120"	0.05"	5/8"	0.27"	5/8"	0.59"	3/4"	0.99"	3/4"	1.24"	7/8"	1.45"	1"	>1.57"	1"	>1.57"	1-1/8"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	**	1-1/4"		
132"	0.06"	5/8"	0.27"	5/8"	0.66"	3/4"	1.05"	3/4"	1.37"	7/8"	>1.57"	1"	>1.57"	1"	>1.57"	1-1/8"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	>1.57"	1-1/4"	**	1-1/4"	**	1-1/4"			
50 psf	24"	<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"	0.05"	5/8"	0.06"	5/8"	0.07"	5/8"	0.09"	5/8"	0.10"	5/8"	0.11"	5/8"	0.13"	5/8"	0.15"	5/8"	0.16"	5/8"	0.16"	5/8"				
	36"	<0.04"	5/8"	0.08"	5/8"	0.11"	5/8"	0.14"	5/8"	0.18"	5/8"	0.18"	5/8"	0.20"	5/8"	0.23"	5/8"	0.21"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.23"	5/8"	0.26"	5/8"	0.29"	5/8"	0.33"	5/8"	0.36"	5/8"	0.36"	5/8"				
	48"	<0.04"	5/8"	0.11"	5/8"	0.22"	5/8"	0.29"	5/8"	0.36"	5/8"	0.40"	5/8"	0.48"	5/8"	0.49"	5/8"	0.56"	5/8"	0.48"	5/8"	0.60"	5/8"	0.60"	5/8"	0.60"	5/8"	0.69"	5/8"	0.68"	5/8"	0.63"	5/8"	0.58"	5/8"	0.71"	5/8"	0.71"	5/8"		
	60"	<0.04"	5/8"	0.14"	5/8"	0.29"	5/8"	0.41"	3/4"	0.51"	3/4"	0.61"	3/4"	0.67"	3/4"	0.78"	3/4"	0.88"	3/4"	0.89"	3/4"	1.01"	3/4"	1.02"	3/4"	1.14"	3/4"	1.23"	3/4"	1.18"	3/4"	>1.18"	3/4"	1.46"	3/4"	1.52"	3/4"	1.52"	3/4"		
	72"	0.04"	5/8"	0.18"	5/8"	0.36"	5/8"	0.51"	3/4"	0.64"	3/4"	0.76"	3/4"	0.89"	3/4"	1.02"	3/4"	1.13"	3/4"	1.24"	3/4"	1.36"	3/4"	1.43"	3/4"	1.48"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"		
	84"	0.04"	5/8"	0.18"	5/8"	0.40"	5/8"	0.61"	3/4"	0.76"	3/4"	0.89"	7/8"	1.04"	7/8"	1.18"	7/8"	1.33"	7/8"	1.47"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"
	96"	0.04"	5/8"	0.20"	5/8"	0.48"	5/8"	0.67"	3/4"	0.89"	3/4"	1.04"	7/8"	1.16"	7/8"	1.35"	7/8"	1.49"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"
	108"	0.04"	5/8"	0.23"	5/8"	0.48"	5/8"	0.78"	3/4"	1.02"	3/4"	1.18"	7/8"	1.35"	7/8"	1.43"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"
	120"	0.04"	5/8"	0.21"	5/8"	0.49"	5/8"	0.88"	3/4"	1.13"	3/4"	1.33"	7/8"	1.49"	7/8"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"
132"	0.05"	5/8"	0.23"	5/8"	0.56"	5/8"	0.89"	3/4"	1.24"	3/4"	1.47"	7/8"	>1.57"	7/8"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	>1.57"	1-1/8"	
40 psf	24"	<0.04"	3/4"	<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"	0.05"	1/2"	0.06"	1/2"	0.07"	1/2"	0.08"	1/2"	0.09"	1/2"	0.10"	1/2"	0.12"	1/2"	0.13"	1/2"	0.13"	1/2"				
	36"	<0.04"	5/8"	0.06"	5/8"	0.09"	5/8"	0.11"	1/2"	0.15"	1/2"	0.14"	1/2"	0.16"	1/2"	0.18"	1/2"	0.16"	1/2"	0.18"	1/2"	0.18"	1/2"	0.18"	1/2"	0.18"	1/2"	0.21"	1/2"	0.23"	1/2"	0.26"	1/2"	0.29"	1/2"	0.29"	1/2"				
	48"	<0.04"	5/8"	0.09"	5/8"	0.18"	5/8"	0.24"	5/8"	0.31"	5/8"	0.33"	5/8"	0.41"	5/8"	0.40"	5/8"	0.48"	5/8"	0.47"	5/8"	0.52"	5/8"	0.49"	5/8"	0.48"	5/8"	0.55"	5/8"	0.56"	5/8"	0.54"	5/8"	0.50"	5/8"	0.57"	5/8"	0.57"	5/8"		
	60"	<0.04"	5/8"	0.11"	1/2"	0.24"	5/8"	0.36"	5/8"	0.44"	5/8"	0.53"	5/8"	0.58"	5/8"	0.67"	5/8"	0.77"	5/8"	0.75"	5/8"	0.86"	5/8"	0.86"	5/8"	0.97"	5/8"	1.05"	5/8"	0.96"	5/8"	1.13"	5/8"	1.21"	5/8"	1.25"	5/8"	1.25"	5/8"		
	72"	<0.04"	5/8"	0.15"	1/2"	0.31"	5/8"	0.44"	5/8"	0.57"	3/4"	0.67"	3/4"	0.78"	3/4"	0.90"	3/4"	0.99"	3/4"	1.09"	3/4"	1.20"	5/8"	1.23"	5/8"	1.25"	5/8"	1.42"	5/8"	1.55"	5/8"	>1.57"	5/8"	>1.57"	5/8"	>1.57"	5/8"	>1.57"	5/8"		
	84"	<0.04"	1/2"	0.14"	1/2"	0.33"	5/8"	0.53"	5/8"	0.67"	3/4"	0.79"	3/4"	0.93"	3/4"	1.06"	3/4"	1.18"	3/4"	1.31"	3/4"	1.43"	3/4"	1.56"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"
	96"	<0.04"	1/2"	0.16"	1/2"	0.41"	5/8"	0.58"	5/8"	0.78"	3/4"	0.93"	3/4"	1.04"	3/4"	1.21"	3/4"	1.34"	3/4"	1.48"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"	>1.57"	3/4"
	108"	<0.04"	1/2"	0.18"	1/2"	0.40"	5/8"	0.67"	5/8"	0.90"	3/4"	1.06"	3/4"	1.21"	3/4"	1.30"	7/8"	1.49"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"
	120"	<0.04"	1/2"	0.16"	1/2"	0.40"	5/8"	0.77"	5/8"	0.99"	3/4"	1.18"	3/4"	1.34"	3/4"	1.49"	7/8"	1.56"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	7/8"
132"	0.04"	1/2"	0.18"	1/2"	0.47"	5/8"	0.75"	5/8"	1.09"	3/4"	1.31"	3/4"	1.48"	3/4"	>1.57"	7/8"	>1.57"	7/8"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	>1.57"	1"	
30 psf	24"	<0.04"	3/4"	<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"	0.05"	1/2"	0.06"	1/2"	0.07"	1/2"	0.08"	1/2"	0.09"	1/2"	0.10"	1/2"	0.10"	1/2"	0.11"	1/2"	0.11"	1/2"		
	36"	<0.04"	5/8"	0.05"	5/8"	0.06"	1/2"	0.08"	1/2"	0.11"	1/2"	0.11"	1/2"	0.13"	1/2"	0.14"	1/2"	0.13"	1/2"	0.14"	1/2"	0.14"	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"	0.22"	1/2"	0.23"	1/2"		
	48"	<0.04"	5/8"	0.06"	1/2"	0.14"	1/2"	0.18"	1/2"	0.24"	1/2"	0.27"	1/2"	0.32"	1/2"	0.32"	1/2"	0.39"	1/2"	0.37"	1/2"	0.40"	1/2"	0.31"	1/2"	0.39"	1/2"	0.41"	1/2"	0.43"	1/2"	0.44"	1/2"	0.40"	1/2"	0.43"	1/2"	0.43"	1/2"		
	60"	<0.04"	1/2"	0.08"	1/2"	0.18"	1/2"	0.29"	5/8"	0.36"	5/8"	0.44"</																													