



# DEFLECTION AND SIGHTLINE REFERENCE GUIDE

1-1/8" Insulating Unit																																					
Constructed with a 3/8" outboard and a 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"		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"	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"	0.05"	5/8"	0.06"	5/8"	0.07"	5/8"	0.08"	5/8"	0.09"	5/8"	0.10"	5/8"	0.11"	5/8"	0.12"	5/8"		
	36"	<0.04"	3/4"	0.06"	3/4"	0.08"	3/4"	0.10"	3/4"	0.14"	3/4"	0.14"	3/4"	0.16"	5/8"	0.18"	5/8"	0.17"	5/8"	0.18"	5/8"	0.16"	5/8"	0.18"	5/8"	0.17"	5/8"	0.20"	5/8"	0.22"	5/8"	0.25"	5/8"	0.28"	5/8"		
	48"	<0.04"	3/4"	0.08"	3/4"	0.18"	7/8"	0.22"	3/4"	0.31"	3/4"	0.34"	3/4"	0.41"	3/4"	0.34"	3/4"	0.41"	3/4"	0.47"	3/4"	0.51"	3/4"	0.39"	3/4"	0.55"	3/4"	0.54"	3/4"	0.55"	3/4"	0.50"	3/4"	0.54"	3/4"		
	60"	<0.04"	3/4"	0.10"	3/4"	0.22"	3/4"	0.37"	7/8"	0.45"	7/8"	0.55"	7/8"	0.60"	7/8"	0.70"	7/8"	0.80"	7/8"	0.79"	7/8"	0.90"	7/8"	0.88"	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"		
	72"	<0.04"	5/8"	0.14"	3/4"	0.31"	3/4"	0.45"	7/8"	0.60"	1"	0.71"	1"	0.83"	1"	0.95"	1"	1.06"	1"	1.15"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"		
	84"	<0.04"	5/8"	0.14"	3/4"	0.34"	3/4"	0.55"	7/8"	0.71"	1"	0.85"	1"	0.99"	1"	1.13"	1"	1.27"	1"	1.41"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"		
	96"	<0.04"	5/8"	0.16"	5/8"	0.41"	3/4"	0.60"	7/8"	0.83"	1"	0.99"	1"	1.12"	1-1/8"	1.30"	1-1/8"	1.45"	1-1/8"	1.60"	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"		
	108"	<0.04"	5/8"	0.18"	5/8"	0.34"	3/4"	0.70"	7/8"	0.95"	1"	1.13"	1"	1.30"	1-1/8"	1.41"	1-1/4"	1.61"	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"		
	120"	<0.04"	5/8"	0.17"	5/8"	0.41"	3/4"	0.80"	7/8"	1.06"	1"	1.27"	1"	1.45"	1-1/8"	1.61"	1-1/4"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"	FT req.	1-3/8"		
	132"	0.04"	5/8"	0.18"	5/8"	0.47"	3/4"	0.79"	7/8"	1.15"	1"	1.41"	1"	1.60"	1-1/8"	FT req.	1-1/4"	FT req.	1-3/8"	FT req.	1-1/2"	FT req.	1-1/2"	FT req.	1-1/2"	FT req.	1-1/2"	FT req.	1-1/2"	FT req.	1-1/2"	FT req.	1-1/2"	FT req.	1-1/2"		
50 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"	0.05"	5/8"	0.05"	5/8"	0.06"	5/8"	0.07"	5/8"	0.08"	5/8"	0.09"	5/8"	0.10"	5/8"		
	36"	<0.04"	3/4"	0.05"	3/4"	0.07"	5/8"	0.08"	5/8"	0.12"	5/8"	0.10"	5/8"	0.12"	5/8"	0.15"	5/8"	0.12"	5/8"	0.15"	5/8"	0.12"	5/8"	0.14"	5/8"	0.15"	5/8"	0.17"	5/8"	0.19"	5/8"	0.21"	5/8"	0.23"	5/8"		
	48"	<0.04"	5/8"	0.07"	5/8"	0.15"	3/4"	0.20"	3/4"	0.26"	3/4"	0.28"	3/4"	0.35"	3/4"	0.38"	3/4"	0.37"	3/4"	0.35"	3/4"	0.44"	3/4"	0.44"	3/4"	0.45"	3/4"	0.46"	3/4"	0.42"	3/4"	0.39"	3/4"	0.46"	3/4"		
	60"	<0.04"	5/8"	0.08"	5/8"	0.20"	3/4"	0.33"	3/4"	0.39"	3/4"	0.48"	3/4"	0.51"	3/4"	0.61"	3/4"	0.70"	3/4"	0.64"	3/4"	0.76"	3/4"	0.74"	3/4"	0.85"	3/4"	0.92"	3/4"	0.79"	3/4"	0.95"	3/4"	0.99"	3/4"		
	72"	<0.04"	5/8"	0.12"	5/8"	0.26"	3/4"	0.39"	3/4"	0.53"	7/8"	0.63"	7/8"	0.74"	7/8"	0.86"	7/8"	0.94"	7/8"	1.04"	7/8"	1.14"	7/8"	1.11"	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"		
	84"	<0.04"	5/8"	0.10"	5/8"	0.28"	3/4"	0.48"	3/4"	0.63"	7/8"	0.77"	1"	0.90"	1"	1.02"	1"	1.15"	1"	1.27"	1"	1.39"	1"	1.51"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"		
	96"	<0.04"	5/8"	0.12"	5/8"	0.35"	3/4"	0.51"	3/4"	0.74"	7/8"	0.90"	1"	1.03"	1"	1.19"	1"	1.33"	1"	1.47"	1"	1.61"	1"	1.75"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"		
	108"	<0.04"	5/8"	0.15"	5/8"	0.38"	3/4"	0.61"	3/4"	0.86"	7/8"	1.02"	1"	1.19"	1"	1.30"	1-1/8"	1.49"	1-1/8"	1.63"	1-1/8"	1.78"	1-1/8"	1.95"	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"		
	120"	<0.04"	5/8"	0.12"	5/8"	0.37"	3/4"	0.70"	3/4"	0.94"	7/8"	1.15"	1"	1.33"	1"	1.49"	1-1/8"	1.58"	1-1/8"	1.78"	1-1/8"	>1.97"	1-1/8"	>1.97"	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"	FT req.	1-1/8"		
	132"	<0.04"	5/8"	0.14"	5/8"	0.39"	3/4"	0.64"	3/4"	1.04"	7/8"	1.27"	1"	1.47"	1"	1.63"	1-1/8"	1.78"	1-1/8"	1.88"	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"	FT req.	1-1/4"		
40 psf	24"	<0.04"	7/8"	<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"	0.06"	5/8"	0.07"	5/8"	0.07"	5/8"	0.08"	5/8"				
	36"	<0.04"	5/8"	<0.04"	5/8"	0.05"	5/8"	0.08"	5/8"	0.09"	5/8"	0.08"	5/8"	0.10"	5/8"	0.12"	5/8"	0.09"	5/8"	0.11"	5/8"	0.12"	5/8"	0.09"	5/8"	0.11"	5/8"	0.12"	5/8"	0.15"	5/8"	0.17"	5/8"	0.19"	5/8"		
	48"	<0.04"	5/8"	0.05"	5/8"	0.12"	5/8"	0.16"	5/8"	0.21"	5/8"	0.25"	5/8"	0.29"	5/8"	0.31"	5/8"	0.34"	5/8"	0.32"	5/8"	0.36"	5/8"	0.35"	5/8"	0.30"	5/8"	0.36"	5/8"	0.37"	5/8"	0.33"	5/8"	0.36"	5/8"		
	60"	<0.04"	5/8"	0.08"	5/8"	0.16"	5/8"	0.27"	3/4"	0.33"	3/4"	0.41"	3/4"	0.48"	3/4"	0.51"	5/8"	0.60"	5/8"	0.53"	5/8"	0.63"	5/8"	0.71"	5/8"	0.71"	5/8"	0.77"	5/8"	0.63"	5/8"	0.78"	5/8"	0.79"	5/8"		
	72"	<0.04"	5/8"	0.09"	5/8"	0.21"	5/8"	0.33"	3/4"	0.46"	3/4"	0.55"	3/4"	0.64"	3/4"	0.74"	3/4"	0.81"	3/4"	0.90"	3/4"	0.99"	3/4"	0.94"	3/4"	1.09"	3/4"	1.07"	3/4"	1.21"	3/4"	1.38"	3/4"	FT req.	3/4"		
	84"	<0.04"	5/8"	0.08"	5/8"	0.25"	5/8"	0.41"	3/4"	0.55"	3/4"	0.68"	7/8"	0.78"	7/8"	0.90"	7/8"	1.02"	7/8"	1.11"	7/8"	1.23"	7/8"	1.32"	7/8"	1.44"	7/8"	1.31"	7/8"	1.53"	7/8"	FT req.	7/8"	FT req.	7/8"		
	96"	<0.04"	5/8"	0.10"	5/8"	0.29"	5/8"	0.48"	3/4"	0.64"	3/4"	0.78"	7/8"	0.91"	7/8"	1.05"	7/8"	1.18"	7/8"	1.31"	7/8"	1.44"	7/8"	1.55"	7/8"	1.68"	7/8"	1.81"	7/8"	1.95"	7/8"	FT req.	7/8"	FT req.	7/8"		
	108"	<0.04"	5/8"	0.12"	5/8"	0.31"	5/8"	0.51"	5/8"	0.74"	3/4"	0.90"	7/8"	1.05"	7/8"	1.16"	1"	1.33"	1"	1.47"	1"	1.60"	1"	1.76"	1"	>1.97"	1"	>1.97"	1"	>1.97"	1"	FT req.	1"	FT req.	1"		
	120"	<0.04"	5/8"	0.09"	5/8"	0.34"	5/8"	0.60"	5/8"	0.81"	3/4"	1.02"	7/8"	1.18"	7/8"	1.33"	1"	1.43"	1"	1.61"	1"	1.74"	1"	1.93"	1"	>1.97"	1"	>1.97"	1"	FT req.	1"	FT req.	1"	FT req.	1"		
	132"	<0.04"	5/8"	0.11"	5/8"	0.32"	5/8"	0.53"	5/8"	0.90"	3/4"	1.11"	7/8"	1.31"	7/8"	1.47"	1"	1.61"	1"	1.70"	1"	1.94"	1"	>1.97"	1"	>1.97"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"		
30 psf	24"	<0.04"	3/4"	<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"	0.05"	1/2"	0.05"	1/2"	0.06"	1/2"		
	36"	<0.04"	5/8"	<0.04"	5/8"	0.04"	5/8"	0.05"	1/2"	0.07"	1/2"	0.06"	1/2"	0.07"	1/2"	0.09"	1/2"	0.08"	1/2"	0.09"	1/2"	0.07"	1/2"	0.07"	1/2"	0.08"	1/2"	0.09"	1/2"	0.10"	1/2"	0.11"	1/2"	0.13"	1/2"		
	48"	<0.04"	5/8"	0.04"	5/8"	0.09"	5/8"	0.12"	5/8"	0.16"	1/2"	0.17"	1/2"	0.22"	1/2"	0.23"	1/2"	0.21"	1/2"	0.25"	1/2"	0.28"	1/2"	0.26"	1/2"	0.24"	1/2"	0.28"	1/2"	0.27"	1/2"	0.24"	1/2"	0.28"	1/2"		
	60"	<0.04"	5/8"	0.05"	1/2"	0.12"	5/8"	0.22"	5/8"	0.26"	5/8"	0.33"	5/8"	0.34"	5/8"	0.41"	5/8"	0.48"	5/8"	0.44"	5/8"	0.52"	5/8"	0.49"	5/8"	0.57"	5/8"	0.61"	5/8"	0.52"	5/8"	0.64"	5/8"	0.62"	5/8"		
	72"	<0.04"	5/8"	0.07"	1/2"	0.16"	1/2"	0.26"	5/8"	0.38"	5/8"	0.45"	5/8"	0.53"	5/8"	0.62"	5/8"	0.68"	5/8"	0.73"	5/8"	0.82"	5/8"	0.80"	5/8"	0.77"	5/8"	0.89"	5/8"	1.00"	5/8"	1.11"	5/8"	1.20"	5/8"		
	84"	<0.04"	1/2"	0.06"	1/2"	0.17"	1/2"	0.33"	5/8"	0.45"	5/8"	0.57"	3/4"	0.66"	3/4"	0.76"	3/4"	0.86"	3/4"	0.94"	3/4"	1.00"	3/4"	1.11"	3/4"	1.10"	3/4"	1.29"	3/4"	1.30"	3/4"	1.57"	3/4"	1.65"	3/4"		
	96"	<0.04"	1/2"	0.07"	1/2"	0.22"	1/2"	0.34"	5/8"	0.53"	5/8"	0.66"	3/4"	0.78"	3/4"	0.89"	3/4"	1.00"	3/4"	1.12"	3/4"	1.24"	3/4"	1.32"	3/4"	1.44"	3/4"	1.54"	3/4"	1.66"	3/4"	1.70"	3/4"	1.88"	3/4"		
	108"	<0.04"	1/2"	0.09"	1/2"	0.23"	1/2"	0.41"	5/8"	0.62"	5/8"	0.76"	3/4"	0.89"	3/4"	1.00"	3/4"	1.14"	3/4"	1.26"	3/4"	1.38"	3/4"	1.52"	3/4"	1.64"	3/4"	1.80"	3/4"	1.91"	3/4"	>1.97"	3/4"	>1.97"	3/4"		
	120"	<0.04"	1/2"	0.08"	1/2"	0.21"	1/2"	0.48"	5/8"	0.68"	5/8"	0.86"	3/4"	1.00"	3																						