



# DEFLECTION AND SIGHTLINE REFERENCE GUIDE

1-5/16" Insulating Unit																																					
Constructed with a 1/4" outboard and two plies of 1/4" laminated on the inboard, all plies heat strengthened (HS) glass and .060" 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		
60 psf	24"	<0.04"	7/8"	<0.04"	5/8"	<0.04"	5/8"	0.04"	1/2"	0.06"	1/2"	0.05"	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"	0.06"	1/2"	0.08"	1/2"	0.07"	1/2"
	36"	<0.04"	5/8"	0.10"	5/8"	0.17"	1/2"	0.19"	1/2"	0.23"	1/2"	0.22"	1/2"	0.22"	1/2"	0.21"	1/2"	0.20"	1/2"	0.19"	1/2"	0.18"	1/2"	0.15"	1/2"	0.16"	1/2"	0.18"	1/2"	0.20"	1/2"	0.23"	1/2"	0.19"	1/2"	0.13"	1/2"
	48"	<0.04"	5/8"	0.17"	1/2"	0.24"	1/2"	0.27"	1/2"	0.34"	1/2"	0.39"	1/2"	0.44"	1/2"	0.39"	1/2"	0.40"	1/2"	0.48"	1/2"	0.50"	1/2"	0.36"	1/2"	0.47"	1/2"	0.46"	1/2"	0.52"	1/2"	0.48"	1/2"	0.46"	1/2"	0.51"	1/2"
	60"	0.04"	1/2"	0.19"	1/2"	0.27"	1/2"	0.38"	1/2"	0.44"	1/2"	0.50"	1/2"	0.57"	1/2"	0.65"	1/2"	0.73"	1/2"	0.73"	1/2"	0.73"	1/2"	0.72"	1/2"	0.83"	1/2"	0.91"	1/2"	0.97"	1/2"	0.84"	1/2"	0.91"	1/2"	0.87"	1/2"
	72"	0.06"	1/2"	0.23"	1/2"	0.34"	1/2"	0.44"	1/2"	0.54"	1/2"	0.60"	1/2"	0.71"	1/2"	0.81"	1/2"	0.89"	1/2"	0.99"	1/2"	1.09"	1/2"	1.12"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"
	84"	0.05"	1/2"	0.22"	1/2"	0.39"	1/2"	0.50"	1/2"	0.60"	1/2"	0.75"	1/2"	0.85"	1/2"	0.96"	1/2"	1.07"	1/2"	1.18"	1/2"	1.30"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"
	96"	0.04"	1/2"	0.22"	1/2"	0.44"	1/2"	0.57"	1/2"	0.71"	1/2"	0.85"	1/2"	0.99"	1/2"	1.10"	1/2"	1.23"	1/2"	1.37"	1/2"	1.50"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"
	108"	<0.04"	1/2"	0.21"	1/2"	0.39"	1/2"	0.65"	1/2"	0.81"	1/2"	0.96"	1/2"	1.10"	1/2"	1.26"	1/2"	1.40"	1/2"	1.54"	1/2"	1.67"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"
	120"	0.04"	1/2"	0.20"	1/2"	0.40"	1/2"	0.73"	1/2"	0.89"	1/2"	1.07"	1/2"	1.23"	1/2"	1.40"	1/2"	1.56"	1/2"	1.71"	1/2"	1.85"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"
	132"	0.05"	1/2"	0.19"	1/2"	0.48"	1/2"	0.73"	1/2"	0.99"	1/2"	1.18"	1/2"	1.37"	1/2"	1.56"	1/2"	1.75"	1/2"	1.94"	1/2"	2.13"	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"	FT req.	1/2"
50 psf	24"	<0.04"	3/4"	<0.04"	5/8"	0.06"	5/8"	<0.04"	1/2"	0.05"	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"	0.07"	1/2"	0.08"	1/2"	0.05"	1/2"	0.06"	1/2"	0.06"	1/2"
	36"	<0.04"	5/8"	0.09"	1/2"	0.13"	1/2"	0.18"	1/2"	0.21"	1/2"	0.15"	1/2"	0.18"	1/2"	0.19"	1/2"	0.15"	1/2"	0.17"	1/2"	0.16"	1/2"	0.13"	1/2"	0.14"	1/2"	0.15"	1/2"	0.17"	1/2"	0.19"	1/2"	0.13"	1/2"	0.21"	1/2"
	48"	0.06"	5/8"	0.13"	1/2"	0.22"	1/2"	0.25"	1/2"	0.30"	1/2"	0.35"	1/2"	0.40"	1/2"	0.37"	1/2"	0.39"	1/2"	0.44"	1/2"	0.44"	1/2"	0.36"	1/2"	0.43"	1/2"	0.47"	1/2"	0.43"	1/2"	0.47"	1/2"	0.44"	1/2"	0.44"	1/2"
	60"	<0.04"	1/2"	0.18"	1/2"	0.25"	1/2"	0.35"	1/2"	0.39"	1/2"	0.46"	1/2"	0.51"	1/2"	0.58"	1/2"	0.65"	1/2"	0.57"	1/2"	0.70"	1/2"	0.70"	1/2"	0.79"	1/2"	0.85"	1/2"	0.72"	1/2"	0.76"	1/2"	0.73"	1/2"	0.83"	1/2"
	72"	0.05"	1/2"	0.21"	1/2"	0.30"	1/2"	0.39"	1/2"	0.49"	1/2"	0.55"	1/2"	0.65"	1/2"	0.72"	1/2"	0.81"	1/2"	0.90"	1/2"	0.99"	1/2"	1.00"	1/2"	1.10"	1/2"	1.12"	1/2"	1.19"	1/2"	1.29"	1/2"	FT req.	1/2"	FT req.	1/2"
	84"	0.04"	1/2"	0.15"	1/2"	0.35"	1/2"	0.46"	1/2"	0.55"	1/2"	0.68"	1/2"	0.75"	1/2"	0.86"	1/2"	0.97"	1/2"	1.07"	1/2"	1.18"	1/2"	1.28"	1/2"	1.39"	1/2"	1.48"	1/2"	1.60"	1/2"	1.71"	1/2"	1.82"	1/2"	1.93"	1/2"
	96"	<0.04"	1/2"	0.18"	1/2"	0.40"	1/2"	0.51"	1/2"	0.65"	1/2"	0.75"	1/2"	0.90"	1/2"	1.00"	1/2"	1.12"	1/2"	1.24"	1/2"	1.36"	1/2"	1.48"	1/2"	1.70"	1/2"	1.82"	1/2"	2.04"	1/2"	2.16"	1/2"	2.38"	1/2"	2.50"	1/2"
	108"	<0.04"	1/2"	0.19"	1/2"	0.37"	1/2"	0.58"	1/2"	0.72"	1/2"	0.86"	1/2"	1.00"	1/2"	1.15"	1/2"	1.27"	1/2"	1.41"	1/2"	1.55"	1/2"	1.76"	1/2"	1.97"	1/2"	2.18"	1/2"	2.39"	1/2"	2.60"	1/2"	2.81"	1/2"	3.02"	1/2"
	120"	<0.04"	1/2"	0.15"	1/2"	0.37"	1/2"	0.65"	1/2"	0.81"	1/2"	0.97"	1/2"	1.12"	1/2"	1.27"	1/2"	1.42"	1/2"	1.57"	1/2"	1.80"	1/2"	2.01"	1/2"	2.22"	1/2"	2.43"	1/2"	2.64"	1/2"	2.85"	1/2"	3.06"	1/2"	3.27"	1/2"
	132"	0.04"	1/2"	0.17"	1/2"	0.39"	1/2"	0.57"	1/2"	0.90"	1/2"	1.07"	1/2"	1.24"	1/2"	1.41"	1/2"	1.57"	1/2"	1.73"	1/2"	1.94"	1/2"	2.15"	1/2"	2.36"	1/2"	2.57"	1/2"	2.78"	1/2"	2.99"	1/2"	3.20"	1/2"	3.41"	1/2"
40 psf	24"	<0.04"	3/4"	<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"	0.06"	1/2"	0.07"	1/2"	0.06"	1/2"	0.05"	1/2"	0.05"	1/2"	0.05"	1/2"
	36"	<0.04"	5/8"	0.07"	1/2"	0.10"	1/2"	0.16"	1/2"	0.18"	1/2"	0.17"	1/2"	0.14"	1/2"	0.16"	1/2"	0.13"	1/2"	0.14"	1/2"	0.13"	1/2"	0.12"	1/2"	0.12"	1/2"	0.12"	1/2"	0.14"	1/2"	0.16"	1/2"	0.10"	1/2"	0.17"	1/2"
	48"	0.04"	1/2"	0.10"	1/2"	0.19"	1/2"	0.21"	1/2"	0.26"	1/2"	0.31"	1/2"	0.35"	1/2"	0.36"	1/2"	0.34"	1/2"	0.31"	1/2"	0.37"	1/2"	0.25"	1/2"	0.34"	1/2"	0.33"	1/2"	0.40"	1/2"	0.34"	1/2"	0.39"	1/2"	0.38"	1/2"
	60"	<0.04"	1/2"	0.16"	1/2"	0.21"	1/2"	0.31"	1/2"	0.35"	1/2"	0.39"	1/2"	0.46"	1/2"	0.51"	1/2"	0.58"	1/2"	0.57"	1/2"	0.56"	1/2"	0.66"	1/2"	0.67"	1/2"	0.72"	1/2"	0.62"	1/2"	0.64"	1/2"	0.73"	1/2"	0.71"	1/2"
	72"	0.04"	1/2"	0.18"	1/2"	0.26"	1/2"	0.35"	1/2"	0.45"	1/2"	0.49"	1/2"	0.56"	1/2"	0.65"	1/2"	0.71"	1/2"	0.80"	1/2"	0.87"	1/2"	0.87"	1/2"	0.85"	1/2"	0.97"	1/2"	1.02"	1/2"	1.11"	1/2"	1.15"	1/2"	1.17"	1/2"
	84"	<0.04"	1/2"	0.17"	1/2"	0.31"	1/2"	0.39"	1/2"	0.49"	1/2"	0.61"	1/2"	0.68"	1/2"	0.75"	1/2"	0.85"	1/2"	0.95"	1/2"	1.03"	1/2"	1.13"	1/2"	1.23"	1/2"	1.28"	1/2"	1.24"	1/2"	1.42"	1/2"	1.44"	1/2"	1.62"	1/2"
	96"	<0.04"	1/2"	0.14"	1/2"	0.35"	1/2"	0.46"	1/2"	0.56"	1/2"	0.68"	1/2"	0.81"	1/2"	0.88"	1/2"	0.99"	1/2"	1.10"	1/2"	1.21"	1/2"	1.31"	1/2"	1.51"	1/2"	1.62"	1/2"	1.74"	1/2"	1.84"	1/2"	2.04"	1/2"	2.14"	1/2"
	108"	<0.04"	1/2"	0.16"	1/2"	0.36"	1/2"	0.51"	1/2"	0.65"	1/2"	0.75"	1/2"	0.88"	1/2"	1.02"	1/2"	1.12"	1/2"	1.25"	1/2"	1.37"	1/2"	1.57"	1/2"	1.71"	1/2"	1.83"	1/2"	1.96"	1/2"	2.18"	1/2"	2.30"	1/2"	2.52"	1/2"
	120"	<0.04"	1/2"	0.13"	1/2"	0.34"	1/2"	0.58"	1/2"	0.71"	1/2"	0.85"	1/2"	0.99"	1/2"	1.12"	1/2"	1.27"	1/2"	1.40"	1/2"	1.62"	1/2"	1.74"	1/2"	1.90"	1/2"	2.01"	1/2"	2.17"	1/2"	2.38"	1/2"	2.59"	1/2"	2.80"	1/2"
	132"	<0.04"	1/2"	0.14"	1/2"	0.34"	1/2"	0.57"	1/2"	0.80"	1/2"	0.95"	1/2"	1.10"	1/2"	1.25"	1/2"	1.40"	1/2"	1.54"	1/2"	1.76"	1/2"	1.94"	1/2"	2.07"	1/2"	2.18"	1/2"	2.39"	1/2"	2.60"	1/2"	2.81"	1/2"	3.02"	1/2"
30 psf	24"	<0.04"	3/4"	<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"	<0.04"	1/2"	0.04"	1/2"	0.05"	1/2"	<0.04"	1/2"	0.04"	1/2"	<0.04"	1/2"		
	36"	<0.04"	5/8"	0.05"	1/2"	0.08"	1/2"	0.12"	1/2"	0.16"	1/2"	0.11"	1/2"	0.14"	1/2"	0.13"	1/2"	0.11"	1/2"	0.09"	1/2"	0.10"	1/2"	0.09"	1/2"	0.10"	1/2"	0.11"	1/2"	0.12"	1/2"	0.10"	1/2"	0.16"	1/2"		
	48"	<0.04"	1/2"	0.08"	1/2"	0.16"	1/2"	0.19"	1/2"	0.24"	1/2"	0.21"	1/2"	0.25"	1/2"	0.30"	1/2"	0																			