



DEFLECTION AND SIGHTLINE REFERENCE GUIDE

1-3/4" Insulating Unit																																					
Constructed with three 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	Deflection	Sightline
60 psf	24"	0.00"	7/8"	0.03"	3/4"	0.04"	3/4"	0.06"	5/8"	0.06"	5/8"	0.06"	5/8"	0.06"	5/8"	0.06"	5/8"	0.07"	5/8"	0.07"	5/8"	0.07"	5/8"	0.07"	5/8"	0.07"	5/8"	0.07"	5/8"	0.18"	5/8"	0.20"	5/8"	0.22"	5/8"		
	36"	0.03"	3/4"	0.10"	3/4"	0.15"	5/8"	0.20"	5/8"	0.23"	5/8"	0.26"	5/8"	0.28"	5/8"	0.29"	5/8"	0.30"	5/8"	0.31"	5/8"	0.31"	5/8"	0.31"	5/8"	0.31"	5/8"	0.31"	5/8"	0.39"	5/8"	0.44"	5/8"	0.49"	5/8"		
	48"	0.04"	5/8"	0.15"	5/8"	0.25"	3/4"	0.34"	3/4"	0.41"	5/8"	0.48"	5/8"	0.55"	5/8"	0.60"	5/8"	0.65"	5/8"	0.70"	5/8"	0.73"	5/8"	0.73"	5/8"	0.73"	5/8"	0.73"	5/8"	0.81"	5/8"	0.88"	5/8"	0.79"	5/8"	0.89"	5/8"
	60"	0.06"	5/8"	0.20"	5/8"	0.34"	3/4"	0.44"	3/4"	0.55"	3/4"	0.66"	3/4"	0.76"	3/4"	0.85"	3/4"	0.95"	3/4"	0.94"	3/4"	1.07"	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"
	72"	0.06"	5/8"	0.23"	5/8"	0.41"	5/8"	0.55"	3/4"	0.66"	7/8"	0.79"	7/8"	0.91"	7/8"	1.04"	7/8"	1.16"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>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"
	84"	0.06"	5/8"	0.26"	5/8"	0.48"	5/8"	0.66"	3/4"	0.79"	7/8"	0.89"	7/8"	1.03"	7/8"	1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>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"
	96"	0.06"	5/8"	0.28"	5/8"	0.55"	5/8"	0.76"	3/4"	0.91"	7/8"	1.03"	7/8"	1.14"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"
	108"	0.06"	5/8"	0.29"	5/8"	0.60"	5/8"	0.85"	3/4"	1.04"	7/8"	1.18"	7/8"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"
	120"	0.06"	5/8"	0.30"	5/8"	0.65"	5/8"	0.95"	3/4"	1.16"	7/8"	>1.18"	7/8"	>1.18"	1"	>1.18"	1"	>1.18"	1-1/8"	>1.18"	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"	FT req.	1-1/8"
132"	0.06"	5/8"	0.30"	5/8"	0.70"	5/8"	0.94"	3/4"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	1"	>1.18"	1"	>1.18"	1-1/8"	>1.18"	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"	
50 psf	24"	0.00"	7/8"	0.02"	3/4"	0.03"	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"	0.05"	5/8"	0.06"	5/8"	0.06"	5/8"	0.06"	5/8"	0.06"	5/8"	0.15"	5/8"	0.16"	5/8"	0.18"	5/8"		
	36"	0.02"	3/4"	0.09"	3/4"	0.13"	5/8"	0.17"	5/8"	0.20"	5/8"	0.22"	5/8"	0.24"	5/8"	0.25"	5/8"	0.25"	5/8"	0.25"	5/8"	0.26"	5/8"	0.26"	5/8"	0.26"	5/8"	0.26"	5/8"	0.33"	1/2"	0.37"	1/2"	0.41"	1/2"		
	48"	0.03"	5/8"	0.13"	5/8"	0.22"	5/8"	0.30"	5/8"	0.37"	5/8"	0.43"	5/8"	0.48"	5/8"	0.53"	5/8"	0.57"	5/8"	0.61"	5/8"	0.64"	5/8"	0.67"	5/8"	0.68"	5/8"	0.67"	5/8"	0.74"	5/8"	0.62"	5/8"	0.74"	5/8"	0.73"	5/8"
	60"	0.04"	5/8"	0.17"	5/8"	0.30"	5/8"	0.40"	3/4"	0.50"	3/4"	0.59"	5/8"	0.68"	5/8"	0.77"	5/8"	0.85"	5/8"	0.93"	5/8"	1.01"	5/8"	1.05"	5/8"	1.13"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	FT req.	5/8"	FT req.	5/8"
	72"	0.05"	5/8"	0.20"	5/8"	0.37"	5/8"	0.50"	3/4"	0.60"	3/4"	0.72"	3/4"	0.83"	3/4"	0.95"	3/4"	1.06"	3/4"	1.17"	3/4"	1.28"	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"
	84"	0.05"	5/8"	0.22"	5/8"	0.43"	5/8"	0.55"	5/8"	0.72"	3/4"	0.82"	7/8"	0.95"	7/8"	1.08"	3/4"	1.21"	3/4"	1.34"	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"
	96"	0.05"	5/8"	0.24"	5/8"	0.48"	5/8"	0.68"	5/8"	0.83"	3/4"	0.95"	7/8"	1.05"	7/8"	1.19"	7/8"	1.33"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	FT req.	7/8"	FT req.	7/8"	FT req.	7/8"
	108"	0.05"	5/8"	0.25"	5/8"	0.53"	5/8"	0.77"	5/8"	0.95"	3/4"	1.08"	3/4"	1.19"	7/8"	1.29"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"
	120"	0.05"	5/8"	0.25"	5/8"	0.57"	5/8"	0.85"	5/8"	1.06"	3/4"	1.21"	3/4"	1.33"	7/8"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"
132"	0.05"	5/8"	0.25"	5/8"	0.61"	5/8"	0.93"	5/8"	1.17"	3/4"	1.34"	3/4"	>1.18"	7/8"	>1.18"	1"	>1.18"	1"	>1.18"	1"	>1.18"	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	FT req.	1"	
40 psf	24"	0.00"	7/8"	0.01"	5/8"	0.02"	5/8"	0.03"	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"	0.12"	1/2"	0.13"	1/2"	0.15"	1/2"		
	36"	0.01"	5/8"	0.07"	5/8"	0.10"	5/8"	0.14"	1/2"	0.16"	1/2"	0.18"	1/2"	0.20"	1/2"	0.21"	1/2"	0.21"	1/2"	0.21"	1/2"	0.21"	1/2"	0.20"	1/2"	0.20"	1/2"	0.21"	1/2"	0.26"	1/2"	0.29"	1/2"	0.33"	1/2"		
	48"	0.02"	5/8"	0.10"	5/8"	0.19"	5/8"	0.25"	5/8"	0.31"	5/8"	0.37"	1/2"	0.41"	1/2"	0.45"	1/2"	0.49"	1/2"	0.51"	1/2"	0.54"	1/2"	0.56"	1/2"	0.58"	1/2"	0.60"	1/2"	0.61"	1/2"	0.49"	1/2"	0.60"	1/2"	0.59"	1/2"
	60"	0.03"	5/8"	0.14"	1/2"	0.25"	5/8"	0.35"	5/8"	0.44"	5/8"	0.52"	5/8"	0.60"	5/8"	0.67"	5/8"	0.75"	5/8"	0.81"	5/8"	0.88"	5/8"	0.94"	5/8"	1.00"	5/8"	1.06"	5/8"	1.08"	5/8"	1.06"	5/8"	>1.18"	5/8"	>1.18"	5/8"
	72"	0.04"	5/8"	0.16"	1/2"	0.31"	5/8"	0.44"	5/8"	0.53"	5/8"	0.64"	5/8"	0.74"	5/8"	0.84"	5/8"	0.94"	5/8"	1.04"	5/8"	1.14"	5/8"	1.24"	5/8"	1.33"	5/8"	1.44"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"
	84"	0.04"	5/8"	0.18"	1/2"	0.37"	1/2"	0.52"	5/8"	0.64"	5/8"	0.73"	3/4"	0.85"	3/4"	0.97"	3/4"	1.09"	3/4"	1.21"	3/4"	1.33"	3/4"	1.45"	3/4"	1.57"	3/4"	1.70"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"	>1.18"	3/4"
	96"	0.04"	5/8"	0.20"	1/2"	0.41"	1/2"	0.60"	5/8"	0.74"	5/8"	0.85"	3/4"	0.95"	3/4"	1.08"	3/4"	1.21"	3/4"	1.34"	3/4"	1.47"	3/4"	1.61"	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"
	108"	0.04"	5/8"	0.20"	1/2"	0.45"	1/2"	0.67"	5/8"	0.84"	5/8"	0.97"	3/4"	1.08"	3/4"	1.17"	7/8"	1.31"	7/8"	1.45"	7/8"	1.59"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"
	120"	0.04"	1/2"	0.21"	1/2"	0.49"	1/2"	0.75"	5/8"	0.94"	5/8"	1.09"	3/4"	1.21"	3/4"	1.31"	7/8"	1.40"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"
132"	0.04"	1/2"	0.21"	1/2"	0.51"	1/2"	0.81"	5/8"	1.04"	5/8"	1.21"	3/4"	1.34"	3/4"	1.45"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	>1.18"	7/8"	FT req.	7/8"	FT req.	7/8"	
30 psf	24"	0.00"	3/4"	0.00"	5/8"	0.01"	5/8"	0.02"	5/8"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.03"	1/2"	0.09"	1/2"	0.10"	1/2"	0.11"	1/2"		
	36"	0.00"	5/8"	0.05"	5/8"	0.08"	1/2"	0.10"	1/2"	0.12"	1/2"	0.14"	1/2"	0.15"	1/2"	0.16"	1/2"	0.16"	1/2"	0.15"	1/2"	0.15"	1/2"	0.15"	1/2"	0.15"	1/2"	0.16"	1/2"	0.20"	1/2"	0.22"	1/2"	0.25"	1/2"		
	48"	0.01"	5/8"	0.08"	1/2"	0.15"	1/2"	0.20"	1/2"	0.25"	1/2"	0.30"	1/2"	0.33"	1/2"	0.37"	1/2"	0.39"	1/2"	0.41"	1/2"	0.43"	1/2"	0.44"	1/2"	0.45"	1/2"	0.47"	1/2"	0.39"	1/2"	0.47"	1/2"	0.46"	1/2"		
	60"	0.02"	5/8"	0.10"	1/2"	0.20"	1/2"	0.29"	1/2"	0.36"	1/2"	0.44"	1/2"	0.50"	1/2"	0.56"	1/2"	0.62"	1/2"	0.68"	1/2"	0.73"	1/2"	0.77"	1/2"	0.82"	1/2"	0.86"	1/2"	0.90"	1/2"	0.86"	1/2"	0.95"	1/2"	1.07"	1/2"
	72"	0.03"	1/2"	0.12"	1/2"	0.25"	1/2"	0.36"	1/2"	0.45"	5/8"	0.55"	5/8"	0.64"	5/8"	0.72"	5/8"	0.81"	5/8"	0.89"	5/8"	0.97"	5/8"	1.05"	5/8"	1.13"	1/2"	1.21"	1/2"	1.29"	1/2"	>1.18"	1/2"	>1.18"	1/2"	>1.18"	1/2"
	84"	0.03"	1/2"	0.14"	1/2"	0.30"	1/2"	0.44"	1/2"	0.55"	5/8"	0.64"	5/8"	0.74"	5/8"	0.84"	5/8"	0.95"	5/8"	1.05"	5/8"	1.15"	5/8"	1.25"	5/8"	1.36"	5/8"	1.46"	5/8"	1.57"	5/8"	>1.18"	5/8"	>1.18"	5/8"	>1.18"	5/8"
	96"	0.03"	1/2"	0.15"	1/2"	0.33"	1/2"	0.50"	1/2"	0.64"	5/8"	0.74"	5/8"	0.83"																							