

DEFLECTION AND SIGHTLINE REFERENCE GUIDE

1-7/8" Insulating Unit Constructed with a 3/8" glass outboard and 1/4" middle and inboard, all glass fully tempered (FT)																																					
																				Height																	
		2	24" 36			" 48"			60"		72"		84"		96"		108"		120"		132"		144" 156		6"	168		58" 180"		" 192"		204"		216"		228"	
Win		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	
	24"	0.00"	1"	0.00"	7/8"	0.00"	7/8"	0.02"	3/4"	0.02"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.08"	3/4"	0.09"	3/4"	0.10" 3/	/4"
) psf	36"	0.00"	7/8"	0.04"	7/8"	0.06"	3/4"	0.09"	3/4"	0.11"	3/4"	0.13"	3/4"	0.14"	3/4"	0.15"	3/4"	0.15"	3/4"	0.15"	3/4"	0.15"	3/4"	0.15"	3/4"	0.14"	3/4"	0.15"	3/4"	0.15"	3/4"	0.19"	3/4"	0.21"	3/4"	0.24" 3/	/4"
	48"	0.00"	7/8"	0.06"	3/4"	0.16"	7/8"	0.21"	7/8"	0.27"	3/4"	0.31"	3/4"	0.36"	3/4"	0.39"	3/4"	0.41"	3/4"	0.43"	3/4"	0.44"	3/4"	0.45"	3/4"	0.46"	3/4"	0.46"	3/4"	0.46"	3/4"	0.42"	3/4"	0.39"			/4"
	60"	0.02"	3/4"	0.09"	3/4"	0.21"	7/8"	0.33"	7/8"	0.41"	7/8"	0.50"	7/8"	0.57"	7/8"	0.64"	7/8"	0.71"	7/8"	0.76"	7/8"	0.81"	7/8"	0.86"	7/8"	0.89"	7/8"	0.93"	7/8"	0.96"	7/8"	0.95"	7/8"	1.00"	7/8"		/8"
	72"	0.02"	3/4"	0.11"	3/4"	0.27"	3/4"	0.41"	7/8"	0.54"	1"	0.65"	1"	0.76"	1"	0.86"	1"	0.96"	1"	1.06"	1"	1.15"	1"	1.23"	1"	1.31"	1"	1.39"	1"	1.47"	1"	1.63"	1"	1.76"	1"		1"
9	84"	0.03"	3/4"	0.13"	3/4"	0.31"	3/4"	0.50"	7/8"	0.65"	1"	0.77"	1"	0.91"	1"	1.04"	1"	1.17"	1"	1.29"	1"	1.41"	1"	1.53"	1"	1.65"	1"	1.77"	1"	1.89"	1"	1.86"		>1.97"			1"
	96"	0.03"	3/4"	0.14"	3/4"	0.36"	3/4"	0.57"	7/8"	0.76"	1"	0.91"	1"	1.03"	1-1/8"	1.18"	1-1/8"	1.33"	1-1/8"		1-1/8"	1.62"	1-1/8"		1-1/8"		1-1/8"		1-1/8"		1-1/8"		'	>1.97"	· ·	>1.97" 1-1	
	108"	0.03"	3/4"	0.15"	3/4"	0.39"	3/4"	0.64"	7/8"	0.86"	1"	1.04"	1"		1-1/8"	1.31"	1-1/4"		1-1/4"		1-1/4"	1.80"	1-1/4"		1-1/4"		1-1/4"		1-1/4"		1-1/4"		1-1/4"			>1.97" 1-1	-
	120"	0.03"	3/4"	0.15"	3/4"	0.41"	3/4"	0.71"	7/8"	0.96"	1"	1.17"	1"		1-1/8"	1.47"	1-1/4"		1-3/8"		1-3/8"	1.94"	1-3/8"		1-3/8"	2.29"			1-3/8"		1-3/8"		1-3/8"		-	>1.97" 1-3	
	132"	0.03"	3/4"	0.15"	3/4"	0.43"	3/4"	0.76"	7/8"	1.06"	1"	1.29"	1"		1-1/8"	1.63"	1-1/4"		1-3/8"		1-1/2"		1-1/2"		1-1/2"		1-1/2"		1-1/2"							>1.97" 1-1	_
50 psf	24"	0.00"	1"	0.00"	7/8"	0.00"	3/4"	0.01"	3/4"	0.02"	3/4"	0.02"	3/4"	0.02"	3/4"	0.02"	3/4"	0.02"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.03"	3/4"	0.07"	3/4"	0.08"	5/8"	0.08" 5/	
	36" 48"	0.00"	7/8" 3/4"	0.00" 0.05"	7/8" 3/4"	0.05" 0.13"	3/4" 3/4"	0.07" 0.18"	3/4" 3/4"	0.09" 0.22"	5/8"	0.11" 0.27"	5/8" 3/4"	0.12" 0.30"	5/8" 3/4"	0.12" 0.33"	5/8"	0.13" 0.35"	5/8" 3/4"	0.12" 0.37"	5/8" 3/4"	0.12" 0.38"	5/8" 3/4"	0.12" 0.38"	5/8" 3/4"	0.12" 0.39"	5/8" 3/4"	0.12" 0.39"	5/8" 3/4"	0.12" 0.39"	5/8" 3/4"	0.16" 0.32"	5/8"	0.18" 0.39"		0.20" 5/ 0.37" 3/	
	60"	0.00" 0.01"	3/4"	0.05	3/4 3/4"	0.13	3/4 3/4"	0.18	3/4 7/8"	0.22	3/4" 3/4"	0.27	3/4 3/4"	0.50"	3/4 3/4"	0.33	3/4"	0.35	3/4 3/4"	0.37	3/4 3/4"	0.38	3/4 3/4"	0.38	3/4 3/4"	0.39	3/4 3/4"	0.39	3/4 3/4"	0.39	3/4 3/4"	0.32	3/4" 3/4"	0.89"		0.37 3/	
		0.01	3/4"	0.07	5/4 5/8"	0.18	3/4"	0.29	3/4"	0.36	3/4 7/8"	0.43	3/4 7/8"	0.50	3/4 7/8"	0.57	3/4" 7/8"	0.86"	3/4 7/8"	0.67	3/4 7/8"	1.02"	3/4 7/8"	1.09"	3/4 7/8"	1.16"	3/4 7/8"	1.23"	3/4 7/8"	1.29"	3/4 7/8"	1.42"	3/4 7/8"	1.54"			/4"
	84"	0.02"	3/4"	0.09	5/8"	0.22	3/4"	0.36	·	0.48	7/8"	0.58	//o 1"	0.82"	7/8 1"	0.77	7/8 1"	1.05"	7/8 1"	1.17"	//8 1"	1.02	7/8 1"	1.38"	7/8 1"	1.49"	//8 1"	1.59"	//o 1"	1.69"	7/8 1"	1.73"	7/8 1"	1.93"		>1.29 //	/O 1"
	96"	0.02"	3/4"	0.11	5/8"	0.27	3/4"	0.43	3/4" 3/4"	0.58	7/8"	0.70	1"	0.82	1"	1.08"	1"	1.03	1"	1.35"	1"	1.48"	1"	1.61"	1"	1.74"	1"	1.87"	1"	2.00"	1"	>1.75	1"	>1.95		>1.97 1	1"
	108"	0.02"	3/4"	0.12"	5/8"	0.33"	3/4"	0.57"	3/4"	0.08	7/8"	0.82	1"	1.08"	1"	1.20"	1-1/8"	1.35"	1-1/8"		1-1/8"	1.65"	1-1/8"		1-1/8"		1-1/8"		1-1/8"		1-1/8"	>1.97"				>1.97" 1-1	1/2"
	120"	0.02"	3/4"	0.12	5/8"	0.35"	3/4"	0.62"	3/4"	0.77	7/8"	1.05"	1"	1.21"	1"	1.35"	1-1/8"		1-1/8"	1.63"		1.79"	1-1/8"		1-1/8"		1-1/8"		1-1/8"				1-1/8"			>1.97 1-1	
	132"	0.02	3/4"	0.13"	5/8"	0.37"	3/4"	0.67"	3/4"	0.94"	7/8"	1.17"	1"	1.35"	1"	1.50"	1-1/8"	1.63"	1-1/8"	1.74"					1-1/4"		1-1/4"		1-1/4"				,			>1.97" 1-1	
	24"	0.00"	1"	0.00"	7/8"	0.00"	3/4"	0.00"	3/4"	0.01"	3/4"	0.02"	3/4"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.05"	5/8"	0.06"	5/8"	0.07" 5/	_
40 psf	36"	0.00"	7/8"	0.00"	3/4"	0.03"	5/8"	0.05"	5/8"	0.07"	5/8"	0.08"	5/8"	0.09"	5/8"	0.10"	5/8"	0.10"	5/8"	0.10"	5/8"	0.10"	5/8"	0.10"	5/8"	0.09"	5/8"	0.10"	5/8"	0.10"	5/8"	0.12"	5/8"	0.14"		0.16" 5/	
	48"	0.00"	3/4"	0.03"	5/8"	0.10"	3/4"	0.14"	5/8"	0.18"	5/8"	0.22"	5/8"	0.25"	5/8"	0.27"	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"	0.25"	5/8"	0.31"	5/8"	0.29" 5/	-
	60"	0.00"	3/4"	0.05"	5/8"	0.14"	5/8"	0.24"	3/4"	0.30"	3/4"	0.37"	3/4"	0.43"	3/4"	0.48"	3/4"	0.53"	5/8"	0.57"	5/8"	0.60"	5/8"	0.63"	5/8"	0.65"	5/8"	0.67"	5/8"	0.69"	5/8"	0.62"	5/8"	0.63"		0.74" 5/	
		0.01"	3/4"	0.07"	5/8"	0.18"	5/8"	0.30"	3/4"	0.41"	3/4"	0.50"	3/4"	0.59"	3/4"	0.67"	3/4"	0.75"	3/4"	0.82"	3/4"	0.88"	3/4"	0.94"	3/4"	1.00"	3/4"	1.05"	3/4"	1.10"	3/4"	1.23"	3/4"	1.31"		1.03" 3/	•
	84"	0.02"	3/4"	0.08"	5/8"	0.22"	5/8"	0.37"	3/4"	0.50"	3/4"	0.61"	7/8"	0.72"	7/8"	0.83"	7/8"	0.93"	7/8"	1.03"	7/8"	1.12"	7/8"	1.22"	7/8"	1.30"	7/8"	1.39"	7/8"	1.47"	7/8"	1.49"	7/8"	1.66"	7/8"	1.80" 7/	
	96"	0.02"	5/8"	0.09"	5/8"	0.25"	5/8"	0.43"	3/4"	0.59"	3/4"	0.72"	7/8"	0.83"	7/8"	0.96"	7/8"	1.08"	7/8"	1.20"	7/8"	1.32"	7/8"	1.43"	7/8"	1.55"	7/8"	1.66"	7/8"	1.77"	7/8"	1.89"	7/8"	>1.97"	-	>1.97" 7/	/8"
	108"	0.02"	5/8"	0.10"	5/8"	0.27"	5/8"	0.48"	3/4"	0.67"	3/4"	0.83"	7/8"	0.96"	7/8"	1.07"	1"	1.21"	1"	1.34"	1"	1.48"	1"	1.61"	1"	1.75"	1"	1.88"	1"	2.01"	1"	>1.97"	1"	>1.97"	1"	>1.97" 1	1"
	120"	0.02"	5/8"	0.10"	5/8"	0.29"	5/8"	0.53"	5/8"	0.75"	3/4"	0.93"	7/8"	1.08"	7/8"	1.21"	1"	1.32"	1"	1.47"	1"	1.61"	1"	1.76"	1"	1.91"	1"	2.06"	1"	2.21"	1"	>1.97"	1"	>1.97"	1"	>1.97" 1	1"
	132"	0.02"	5/8"	0.10"	5/8"	0.30"	5/8"	0.57"	5/8"	0.82"	3/4"	1.03"	7/8"	1.20"	7/8"	1.34"	1"	1.47"	1"	1.57"	1-1/8"	1.73"	1-1/8"	1.89"	1-1/8"	2.05"	1-1/8"	2.20"	1-1/8"	2.36"	1-1/8"	>1.97"	1-1/8"	>1.97"	1-1/8"	>1.97" 1-1	1/8"
30 psf	24"	0.00"	1"	0.00"	3/4"	0.00"	3/4"	0.00"	3/4"	0.00"	5/8"	0.01"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.02"	5/8"	0.04"	5/8"	0.05"	5/8"	0.05" 5/	/8"
	36"	0.00"	3/4"	0.00"	3/4"	0.00"	5/8"	0.03"	5/8"	0.05"	5/8"	0.06"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.07"	1/2"	0.09"	1/2"	0.10"	1/2"	0.12" 1/	/2"
	48"	0.00"	3/4"	0.00"	5/8"	0.08"	5/8"	0.10"	5/8"	0.13"	5/8"	0.16"	5/8"	0.19"	5/8"	0.21"	1/2"	0.22"	1/2"	0.23"	1/2"	0.24"	1/2"	0.24"	1/2"	0.24"	1/2"	0.24"	1/2"	0.23"	1/2"	0.20"	1/2"	0.24"	1/2"	0.23" 1/	/2"
	60"	0.00"	3/4"	0.03"	5/8"	0.10"	5/8"	0.19"	5/8"	0.24"	5/8"	0.29"	5/8"	0.34"	5/8"	0.38"	5/8"	0.42"	5/8"	0.45"	5/8"	0.48"	5/8"	0.50"	5/8"	0.51"	5/8"	0.53"	5/8"	0.54"	5/8"	0.51"	5/8"	0.50"	5/8"	0.57" 5/	/8"
	72"	0.00"	5/8"	0.05"	5/8"	0.13"	5/8"	0.24"	5/8"	0.34"	5/8"	0.41"	5/8"	0.48"	5/8"	0.55"	5/8"	0.61"	5/8"	0.67"	5/8"	0.73"	5/8"	0.78"	5/8"	0.82"	5/8"	0.86"	5/8"	0.89"	5/8"	0.95"	5/8"	1.04"	5/8"	0.84" 5/	/8"
	84"	0.01"	5/8"	0.06"	1/2"	0.16"	5/8"	0.29"	5/8"	0.41"	5/8"	0.51"	3/4"	0.60"	3/4"	0.69"	3/4"	0.78"	3/4"	0.87"	3/4"	0.95"	3/4"	1.02"	3/4"	1.09"	3/4"	1.16"	3/4"	1.23"	3/4"	1.25"	3/4"	1.37"	3/4"	1.49" 3/	/4"
	96"	0.02"	5/8"	0.07"	1/2"	0.19"	5/8"	0.34"	5/8"	0.48"	5/8"	0.60"	3/4"	0.71"	3/4"	0.82"	3/4"	0.92"	3/4"	1.03"	3/4"	1.13"	3/4"	1.23"	3/4"	1.32"	3/4"	1.42"	3/4"	1.51"	3/4"	1.62"	3/4"	1.66"	3/4"	1.82" 3/	/4"
	108"	0.02"	5/8"	0.07"	1/2"	0.21"	1/2"	0.38"	5/8"	0.55"	5/8"	0.69"	3/4"	0.82"	3/4"	0.92"	3/4"	1.04"	3/4"	1.16"	3/4"	1.28"	3/4"	1.39"	3/4"	1.51"	3/4"	1.62"	3/4"	1.74"	3/4"	1.86"		>1.97"		>1.97" 3/	
	120"	0.02"	5/8"	0.07"	1/2"	0.22"	1/2"	0.42"	5/8"	0.61"	5/8"	0.78"	3/4"	0.92"	3/4"	1.04"	3/4"	1.14"	7/8"	1.28"	7/8"	1.41"	7/8"	1.54"	7/8"	1.66"	7/8"	1.79"	7/8"	1.92"	7/8"	>1.97"	7/8"	>1.97"	-	>1.97" 7/	
	132"	0.02"	5/8"	0.07"	1/2"	0.23"	1/2"	0.45"	5/8"	0.67"	5/8"	0.87"	3/4"	1.03"	3/4"	1.16"	3/4"	1.28"	7/8"	1.38"	7/8"	1.52"	7/8"	1.66"	7/8"	1.80"	7/8"	1.94"	7/8"	2.08"	7/8"	>1.97"		>1.97"	7/8"	>1.97" 7/	/8"
				Val	ues are for	r vertically i	nstalled glo	ass. Deflect	tion is cente	er of glass b	ased on AS	TM E1300 a	nd is calcu	lated using	Window G	lass Desig	n (WGD5) a	nd Advance	d Window	Glass Desig	ı (v3.0.1.0)). Sightlin	e is for struc	cturally gla	zed units b	ased on AST	M C1249. V	When conve	entionally g	glazed, the	minimum si	ghtline is 1,	/2".				