

1-1/8" Insulating Unit	
Constructed with a 3/8" outboard and a 1/4" inboard, both plies fully tempered (FT) glass	
Height	

	Constructed with a 3/8" outboard and a 1/4" inboard, both plies fully tempered (FT) glass Height																																				
		24" 36" 48"		3"	60"		72"		84"		96"		108"		120"		gnt 132"		144"		156"		168"		180")" 192'		20	4"	216"		228	3"			
Wind Load	Width (Base)	Deflection	ightline	Deflection	sightline	Deflection	sightline	Deflection	sightline	Deflection	sightline	Deflection	ightline	Deflection	sightline	Deflection	sightline	Deflection	sightline	Deflection	sightline	Deflection	sightline	Deflection	sightline												
	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"	0.04"	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"
4-	36" 48" 60" 72"	<0.04" <0.04" <0.04" <0.04"	3/4" 3/4" 3/4" 5/8"	0.06" 0.08" 0.10" 0.14"	3/4" 3/4" 3/4" 3/4"	0.08" 0.18" 0.22" 0.31"	3/4" 7/8" 3/4" 3/4"	0.10" 0.22" 0.37" 0.45"	3/4" 3/4" 7/8" 7/8"	0.14" 0.31" 0.45" 0.60"	3/4" 3/4" 7/8"	0.14" 0.34" 0.55" 0.71"	3/4" 3/4" 7/8" 1"	0.16" 0.41" 0.60" 0.83"	5/8" 3/4" 7/8" 1"	0.18" 0.34" 0.70" 0.95"	5/8" 3/4" 7/8" 1"	0.17" 0.41" 0.80" 1.06"	5/8" 3/4" 7/8" 1"	0.18" 0.47" 0.79" 1.15"	5/8" 3/4" 7/8" 1"	0.18" 0.51" 0.90" 1.27"	5/8" 3/4" 7/8" 1"	0.16" 0.39" 0.88" 1.32"	5/8" 3/4" 7/8" 1"	0.18" 0.49" 0.99" 1.30"	5/8" 3/4" 7/8" 1"	0.17" 0.55" 1.06" 1.48"	5/8" 3/4" 7/8"	0.20" 0.54" 0.99" 1.55"	5/8" 3/4" 7/8" 1"	0.22" 0.55" 1.03" 1.84"	5/8" 3/4" 7/8" 1"	0.25" 0.50" 1.22" >1.97"	5/8" 3/4" 7/8" 1"	0.28" 0.54" 1.24" 1.95"	5/8" 3/4" 7/8"
60 psf	84" 96" 108"	<0.04" <0.04" <0.04" <0.04"	5/8" 5/8" 5/8"	0.14" 0.16" 0.18"	3/4" 5/8" 5/8"	0.31" 0.34" 0.41" 0.34"	3/4" 3/4" 3/4"	0.43 0.55" 0.60" 0.70"	7/8" 7/8" 7/8" 7/8"	0.71" 0.83" 0.95"	1" 1" 1"	0.85" 0.99" 1.13"	1" 1" 1"	0.99" 1.12"	1" 1-1/8" 1-1/8"	1.13" 1.30" 1.41"	1" 1-1/8" 1-1/4"	1.27" 1.45"	1" 1-1/8" 1-1/4"	1.41" 1.60"	1" 1-1/8" 1-1/4"	1.53" 1.77"	1" 1-1/8" 1-1/4"	1.67" 1.93"	1" 1-1/8" 1-1/4"	1.82" >1.97" >1.97"	1" 1-1/8"	1.83"	1" 1-1/8" 1-1/4"	>1.97"	1" 1-1/8"	>1.97" >1.97"	1" 1-1/8"	>1.97" >1.97"	1" 1-1/8" 1-1/4"	>1.97" >1.97"	1" 1-1/8" 1-1/4"
	120" 132"	<0.04" 0.04"	5/8" 5/8"	0.17" 0.18"	5/8" 5/8"	0.41" 0.47"	3/4" 3/4"	0.80" 0.79"	7/8" 7/8"	1.06" 1.15"	1" 1"	1.27" 1.41"	1" 1"		1-1/8"	1.77"	1-1/4" 1-1/4"	1.90"	1-3/8" 1-3/8"	1.90" >1.97"	1-1/2"	>1.97"		>1.97"	1-3/8" 1-1/2"	>1.97"	1-1/2"	>1.97" >1.97"	1-1/2"		1-1/2"	>1.97"	1-1/2"	>1.97"	1-1/2"	>1.97"	
	24" 36" 48" 60"	<0.04" <0.04" <0.04" <0.04"	7/8" 3/4" 5/8" 5/8"	<0.04" 0.05" 0.07" 0.08"	3/4" 3/4" 5/8" 5/8"	<0.04" 0.07" 0.15" 0.20"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.08" 0.20" 0.33"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.12" 0.26" 0.39"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.10" 0.28" 0.48"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.12" 0.35" 0.51"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.15" 0.38" 0.61"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.12" 0.37" 0.70"	5/8" 5/8" 3/4" 3/4"	<0.04" 0.14" 0.39" 0.64"	5/8" 5/8" 3/4" 3/4"	0.04" 0.15" 0.44" 0.76"	5/8" 5/8" 3/4" 3/4"	0.05" 0.12" 0.44" 0.74"	5/8" 5/8" 3/4" 3/4"	0.05" 0.14" 0.38" 0.85"	5/8" 5/8" 3/4" 3/4"	0.06" 0.15" 0.45" 0.92"	5/8" 5/8" 3/4" 3/4"	0.07" 0.17" 0.46" 0.79"	5/8" 5/8" 3/4" 3/4"	0.08" 0.19" 0.42" 0.95"	5/8" 5/8" 3/4" 3/4"	0.09" 0.21" 0.39" 0.99"	5/8" 5/8" 3/4" 3/4"	0.10" 0.23" 0.46" 1.11"	5/8" 5/8" 3/4" 3/4"
50 psf	72" 84" 96" 108"	<0.04" <0.04" <0.04" <0.04"	5/8" 5/8" 5/8" 5/8"	0.12" 0.10" 0.12" 0.15"	5/8" 5/8" 5/8" 5/8"	0.26" 0.28" 0.35" 0.38"	3/4" 3/4" 3/4" 3/4"	0.39" 0.48" 0.51" 0.61"	3/4" 3/4" 3/4" 3/4"	0.53" 0.63" 0.74" 0.86"	7/8" 7/8" 7/8" 7/8"	0.63" 0.77" 0.90" 1.02"	7/8" 1" 1" 1"	0.74" 0.90" 1.03" 1.19"	7/8" 1" 1" 1"	0.86" 1.02" 1.19" 1.30"	7/8" 1" 1" 1-1/8"	0.94" 1.15" 1.33" 1.49"	7/8" 1" 1" 1-1/8"	1.04" 1.27" 1.47" 1.63"	7/8" 1" 1" 1-1/8"	1.14" 1.39" 1.61" 1.78"	7/8" 1" 1" 1-1/8"	1.11" 1.51" 1.75" 1.95"	7/8" 1" 1" 1-1/8"	1.27" 1.64" 1.90" >1.97"	7/8" 1" 1"	1.28" 1.56" >1.97" >1.97"	7/8" 1" 1"	1.42" 1.79" >1.97" >1.97"	7/8" 1" 1"	1.62" 1.85" >1.97" >1.97"	7/8" 1" 1" 1-1/8"	1.75" >1.97" >1.97" >1.97"	7/8" 1" 1" 1-1/8"	1.61" >1.97" >1.97" >1.97"	7/8" 1" 1" 1-1/8"
	120" 132"	<0.04" <0.04" <0.04"	5/8" 5/8"	0.13" 0.12" 0.14"	5/8" 5/8"	0.37" 0.39"	3/4" 3/4"	0.70" 0.64"	3/4" 3/4"	0.94" 1.04"	7/8" 7/8" 7/8"	1.15" 1.27"	1" 1"	1.33" 1.47"	1" 1"		1-1/8" 1-1/8" 1-1/8"	1.58"	1-1/8"	1.78"	•	>1.97"	,	>1.97"	1-1/8"	>1.97"	1-1/8"	>1.97" >1.97" >1.97"	1-1/8"	>1.97" >1.97" >1.97"	1-1/8"	>1.97"	' 1	>1.97"	1-1/8"	>1.97"	1-1/8"
	24" 36" 48" 60"	<0.04" <0.04" <0.04" <0.04"	7/8" 5/8" 5/8" 5/8"	<0.04" <0.04" 0.05" 0.08"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.05" 0.12" 0.16"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.08" 0.16" 0.27"	5/8" 5/8" 5/8" 3/4"	<0.04" 0.09" 0.21" 0.33"	5/8" 5/8" 5/8" 3/4"	<0.04" 0.08" 0.25" 0.41"	5/8" 5/8" 5/8" 3/4"	<0.04" 0.10" 0.29" 0.48"	5/8" 5/8" 5/8" 3/4"	<0.04" 0.12" 0.31" 0.51"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.09" 0.34" 0.60"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.11" 0.32" 0.53"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.12" 0.36" 0.63"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.09" 0.35" 0.71"	5/8" 5/8" 5/8" 5/8"	0.04" 0.11" 0.30" 0.71"	5/8" 5/8" 5/8" 5/8"	0.05" 0.12" 0.36" 0.77"	5/8" 5/8" 5/8" 5/8"	0.06" 0.13" 0.37" 0.63"	5/8" 5/8" 5/8" 5/8"	0.07" 0.15" 0.33" 0.78"	-	0.07" 0.17" 0.31" 0.79"	5/8" 5/8" 5/8" 5/8"	0.08" 0.19" 0.36" 0.90"	5/8" 5/8" 5/8" 5/8"
40 psf	72" 84" 96"	<0.04" <0.04" <0.04"	5/8" 5/8" 5/8"	0.09" 0.08" 0.10"	5/8" 5/8" 5/8"	0.21" 0.25" 0.29"	5/8" 5/8" 5/8"	0.33" 0.41" 0.48"	3/4" 3/4" 3/4"	0.46" 0.55" 0.64"	3/4" 3/4" 3/4"	0.55" 0.68" 0.78"	3/4" 7/8" 7/8"	0.64" 0.78" 0.91"	3/4" 7/8" 7/8"	0.74" 0.90" 1.05"	3/4" 7/8" 7/8"	0.81" 1.02" 1.18"	3/4" 7/8" 7/8"	0.90" 1.11" 1.31"	3/4" 7/8" 7/8"	0.99" 1.23" 1.44"	3/4" 7/8" 7/8"	0.94" 1.32" 1.55"	3/4" 7/8" 7/8"	1.09" 1.44" 1.68"	3/4" 7/8" 7/8"	1.07" 1.31" 1.81"	3/4" 7/8" 7/8"	1.21" 1.53" 1.95"	3/4" 7/8" 7/8"	1.38" 1.70" >1.97"	3/4" 7/8" 7/8"	1.49" 1.88" >1.97"	3/4" 7/8" 7/8"	1.31" >1.97" >1.97"	3/4" 7/8" 7/8"
	108" 120" 132"	<0.04" <0.04" <0.04"	5/8" 5/8" 5/8"	0.12" 0.09" 0.11"	5/8" 5/8" 5/8"	0.31" 0.34" 0.32"	5/8" 5/8" 5/8"	0.51" 0.60" 0.53"	5/8" 5/8" 5/8"	0.74" 0.81" 0.90"	3/4" 3/4" 3/4"	0.90" 1.02" 1.11"	7/8" 7/8" 7/8"	1.05" 1.18" 1.31"	7/8" 7/8" 7/8"	1.16" 1.33" 1.47"	1" 1" 1"	1.33" 1.43" 1.61"	1" 1" 1"	1.47" 1.61" 1.70"	1" 1" 1"	1.60" 1.74" 1.94"	1" 1" 1"	1.76" 1.93" >1.97"	1" 1" 1"	1.91" >1.97" >1.97"	1" 1" 1"	>1.97" >1.97" >1.97"	1" 1" 1"	>1.97" >1.97" >1.97"	1" 1" 1"	>1.97" >1.97" >1.97"	1" 1"	>1.97" >1.97" >1.97"	1" 1" 1"	>1.97" >1.97" >1.97"	1" 1" 1"
45	24" 36" 48" 60"	<0.04" <0.04" <0.04" <0.04"	3/4" 5/8" 5/8" 5/8"	<0.04" <0.04" 0.04" 0.05"	5/8" 5/8" 5/8" 1/2"	<0.04" 0.04" 0.09" 0.12"	5/8" 5/8" 5/8" 5/8"	<0.04" 0.05" 0.12" 0.22"	5/8" 1/2" 5/8" 5/8"	<0.04" 0.07" 0.16" 0.26"	5/8" 1/2" 1/2" 5/8"	<0.04" 0.06" 0.17" 0.33"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.07" 0.22" 0.34"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.09" 0.23" 0.41"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.08" 0.21" 0.48"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.09" 0.25" 0.44"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.09" 0.28" 0.52"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.07" 0.26" 0.49"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.08" 0.24" 0.57"	1/2" 1/2" 1/2" 5/8"	<0.04" 0.09" 0.28" 0.61"	1/2" 1/2" 1/2" 5/8"	0.04" 0.10" 0.28" 0.52"	1/2" 1/2" 1/2" 5/8"	0.05" 0.11" 0.27" 0.64"	1/2" 5/8"	0.05" 0.13" 0.24" 0.62"	1/2" 1/2" 1/2" 5/8"	0.06" 0.14" 0.28" 0.67"	1/2" 1/2" 1/2" 5/8"
30 ps	72" 84" 96" 108"	<0.04" <0.04" <0.04" <0.04"	5/8" 1/2" 1/2" 1/2"	0.07" 0.06" 0.07" 0.09"	1/2" 1/2" 1/2" 1/2"	0.16" 0.17" 0.22" 0.23"	1/2" 1/2" 1/2" 1/2"	0.26" 0.33" 0.34" 0.41"	5/8" 5/8" 5/8" 5/8"	0.38" 0.45" 0.53" 0.62"	5/8" 5/8" 5/8" 5/8"	0.45" 0.57" 0.66" 0.76"	5/8" 3/4" 3/4" 3/4"	0.53" 0.66" 0.78" 0.89"	5/8" 3/4" 3/4" 3/4"	0.62" 0.76" 0.89" 1.00"	5/8" 3/4" 3/4" 3/4"	0.68" 0.86" 1.00" 1.14"	5/8" 3/4" 3/4" 3/4"	0.73" 0.94" 1.12" 1.26"	5/8" 3/4" 3/4" 3/4"	0.82" 1.00" 1.24" 1.38"	5/8" 3/4" 3/4" 3/4"	0.80" 1.11" 1.32" 1.52"	5/8" 3/4" 3/4" 3/4"	0.77" 1.21" 1.44" 1.64"	5/8" 3/4" 3/4" 3/4"	0.89" 1.10" 1.54" 1.80"	5/8" 3/4" 3/4" 3/4"	1.00" 1.29" 1.66" 1.91"	5/8" 3/4" 3/4" 3/4"	1.11" 1.30" 1.70" >1.97"	'	1.20" 1.57" 1.88" >1.97"	5/8" 3/4" 3/4" 3/4"	1.08" 1.65" >1.97" >1.97"	5/8" 3/4" 3/4" 3/4"
	120" 132"	<0.04" <0.04"	1/2" 1/2"	0.08" 0.09"	1/2" 1/2"	0.21" 0.25"	1/2" 1/2"	0.48" 0.44"	5/8" 5/8"	0.68" 0.73"	5/8" 5/8"	0.86" 0.94"	3/4" 3/4"	1.00" 1.12"	3/4" 3/4"	1.14" 1.26"	3/4" 3/4"	1.24" 1.39"	7/8" 7/8"	1.39" 1.49"	7/8" 7/8"	1.56" 1.68"	7/8" 7/8"	1.67" 1.80"	7/8" 7/8"	1.79" >1.97"	7/8" 7/8"	1.92" >1.97"	7/8" 7/8"	>1.97" >1.97"	7/8" 7/8"	>1.97" >1.97"	7/8" 7/8"	>1.97" >1.97"	7/8" 7/8"	>1.97" >1.97"	7/8" 7/8"

Values are for vertically installed glass. Deflection is center of glass based on ASTM E1300 and is calculated using Window Glass Design (WGD5) and Advanced Window Glass Design (v3.0.1.0). Sightline is for structurally glazed units based on ASTM C1249. When conventionally glazed, the minimum sightline is 1/2".