

| 1-13/16" Insulating Unit Constructed with a 5/16" glass outboard and plies of 1/4" middle and inboard, all glass heat strengthened (HS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|--|---|---|--|---|---|--|---|--|---|--|---|---|--|---|--|---|---|---|---|--|---|--|--|--|---|--|--|--|--|---|--|--|--|--|---|---|
| | | | | | | | | | | | | | | | | | | | Height | | | | | | | | | | | | | | | | | | | |
| | | | 24" | | 3 | 36" 48" | | 60" | | 72" | | 84" | | 9 | 6" | 108" | | 120" | | 132" 1 | | 14 | 14" 156" | | 6" | 168" | | 180" | | 19 | 192" | | 204" | | 216" | | 228" | |
| Wind | | /idth Base) | 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 |
| | | 24" | 0.00" | 1" | 0.00" | 3/4" | 0.02" | 3/4" | 0.03" | 3/4" | 0.04" | 3/4" | 0.04" | 3/4" | 0.04" | 3/4" | 0.04" | 5/8" | 0.04" | 5/8" | 0.04" | 5/8" | 0.05" | 5/8" | 0.05" | 5/8" | 0.05" | 5/8" | 0.05" | 5/8" | 0.05" | 5/8" | 0.12" | 5/8" | 0.13" | 5/8" | 0.15" | 5/8" |
| fol nsf | 60 pst | 24 36" 48" 60" 72" 84" 96" 108" 120" 132" | 0.00" 0.02" 0.03" 0.04" 0.04" 0.04" 0.04" 0.04" 0.04" | 1 3/4" 3/4" 3/4" 3/4" 3/4" 5/8" 5/8" 5/8" | 0.00 0.07" 0.10" 0.14" 0.17" 0.19" 0.21" 0.21" 0.21" | 3/4 7/8" 3/4" 3/4" 5/8" 5/8" 5/8" 5/8" 5/8" | 0.02 0.10" 0.21" 0.28" 0.34" 0.40" 0.40" 0.50" 0.53" 0.55" | 3/4 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3 | 0.03 0.14" 0.28" 0.40" 0.49" 0.59" 0.68" 0.77" 0.84" 0.90" | 3/4 3/4" 3/4" 7/8" 7/8" 7/8" 7/8" 7/8" 7/8" 7/8" 7/8 | 0.04 0.17" 0.34" 0.49" 0.62" 0.74" 0.86" 0.98" 1.06" 1.19" | 3/4" 3/4" 7/8" 7/8" 7/8" 7/8" 7/8" 7/8" 7/8" | 0.04 0.19" 0.40" 0.59" 0.74" 0.86" 1.00" 1.13" 1.27" 1.41" | 3/4 5/8" 3/4" 7/8" 7/8" 1" 1" 1" 1" 1" | 0.21" 0.46" 0.68" 0.86" 1.00" 1.12" 1.28" 1.43" | 3/4 5/8" 3/4" 7/8" 1" 1-1/8" 1-1/8" 1-1/8" 1-1/8" | 0.21" 0.50" 0.77" 0.98" 1.13" 1.28" 1.39" 1.56" | 5/8 5/8" 3/4" 7/8" 1" 1-1/8" 1-1/8" 1-1/8" 1-1/8" | 0.21" 0.53" 0.84" 1.06" 1.27" 1.43" 1.56" >1.57" | 5/8 5/8" 3/4" 7/8" 1" 1-1/8" 1-1/8" 1-1/4" 1-1/4" | 0.04 0.21" 0.55" 0.90" 1.19" 1.41" >1.57" >1.57" <i>FT req.</i> <i>FT req.</i> | 5/8" 3/4" 7/8" 7/8" 1" 1-1/8" 1-1/8" 1-1/4" | 0.05 0.21" 0.58" 0.87" 1.31" 1.55" >1.57" <i>FT req.</i> <i>FT req.</i> <i>FT req.</i> | 5/8" 3/4" 7/8" 7/8" 1" 1-1/8" 1-1/8" 1-1/4" | 0.21" 0.50" 0.99" FT req. FT req. FT req. | 5/8" 3/4" 7/8" 7/8" 1" 1-1/8" 1-1/8" 1-1/4" | 0.05 0.21" 0.60" FT req. FT req. FT req. FT req. FT req. FT req. FT req. | 5/8" 3/4" 7/8" 7/8" 1" 1" 1-1/8" 1-1/4" | 0.21" 0.58" FT req. FT req. FT req. FT req. FT req. FT req. | 5/8" 3/4" 7/8" 7/8" 1" 1" 1-1/8" | 0.21" 0.64" FT req. FT req. FT req. FT req. FT req. FT req. | 5/8 5/8" 3/4" 7/8" 1" 1" 1-1/8" 1-1/4" 1-3/8" | 0.27" 0.51" FT req. FT req. FT req. FT req. FT req. FT req. | 5/8" 3/4" 7/8" 7/8" 1" 1" 1-1/8" 1-1/4" | 0.30" 0.63" FT req. FT req. FT req. FT req. FT req. FT req. | 5/8" 3/4" 3/4" 7/8" 1" 1" 1-1/8" | 0.34" 0.61" FT req. FT req. FT req. FT req. FT req. | 5/8 5/8" 3/4" 7/8" 1" 1-1/8" 1-1/4" 1-3/8" |
| | | 24" 36" 48" | 0.00" 0.00" 0.01" | 1" 3/4" 3/4" | 0.00" 0.06" 0.08" | 3/4" 3/4" 3/4" | 0.01" 0.08" 0.18" | 3/4" 3/4" 3/4" | 0.02" 0.12" 0.24" | 3/4" 5/8" 3/4" | 0.03" 0.14" 0.30" | 5/8" 5/8" | 0.03" 0.16" 0.35" | 5/8" 5/8" 5/8" | 0.03" 0.17" 0.40" | 5/8" 5/8" 5/8" | 0.03" 0.18" 0.43" | 5/8" 5/8" 5/8" | 0.03" 0.18" 0.46" | 5/8" 5/8" 5/8" | 0.04" 0.18" 0.48" | 5/8" 5/8" 5/8" | 0.04" 0.18" 0.50" | 5/8" 5/8" 5/8" | 0.04" 0.17" 0.51" | 5/8" 5/8" 5/8" | 0.04" 0.17" 0.52" | 5/8" 5/8" 5/8" | 0.04" 0.17" 0.54" | 5/8" 5/8" 5/8" | 0.04" 0.18" 0.54" | 5/8" 5/8" 5/8" | 0.10" 0.23" 0.55" | 5/8" 5/8" 5/8" | 0.11" 0.25" 0.50" | 5/8" 5/8" 5/8" | 0.12" 0.28" 0.54" | 5/8" 5/8" 5/8" |
| 50 ncf | 2 | 60" 72" 84" 96" 108" | 0.02" 0.03" 0.03" 0.03" 0.03" | 3/4" 5/8" 5/8" 5/8" 5/8" | 0.12" 0.14" 0.16" 0.17" 0.18" | 5/8" 5/8" 5/8" 5/8" 5/8" | 0.24" 0.30" 0.35" 0.40" 0.43" | 3/4" 5/8" 5/8" 5/8" 5/8" | 0.24 0.35" 0.44" 0.53" 0.61" 0.68" | 3/4" 3/4" 3/4" 3/4" 3/4" | 0.44" 0.55" 0.67" 0.78" 0.88" | 3/4" 7/8" 7/8" | 0.53" 0.67" 0.78" 0.91" 1.04" | 3/4" 7/8" 7/8" 7/8" 7/8" | 0.61" 0.78" 0.91" 1.02" 1.17" | 3/4" 7/8" 7/8" 1" 1" | 0.68" 0.88" 1.04" 1.17" 1.28" | 3/4" 7/8" 7/8" 1" 1" | 0.75" 0.99" 1.17" 1.32" 1.45" | 3/4" 3/4" 7/8" 1" 1" | 0.75" 1.06" 1.29" 1.45" >1.57" | 3/4" 3/4" 7/8" 1" 1" | 0.85" 0.85" 1.18" 1.41" >1.57" >1.57" | 3/4" 3/4" 7/8" 1" 1" | 0.85" 1.23" 1.53" >1.57" >1.57" | 3/4" 3/4" 7/8" 1" 1" | 0.95" 0.95" 1.24" >1.57" >1.57" <i>FT req.</i> | 3/4" 3/4" 7/8" 1" 1" | 1.02" FT req. FT req. FT req. FT req. | 3/4" 3/4" 7/8" 1" 1" | 0.97" FT req. FT req. FT req. FT req. | 3/4" 3/4" 7/8" 1" 1" | 1.03" FT req. FT req. FT req. FT req. | 3/4" 3/4" 7/8" 1" 1" | FT req. FT req. FT req. FT req. FT req. | 3/4" | FT req. FT req. FT req. FT req. FT req. FT req. | 3/4" 3/4" 7/8" 1" 1" |
| | | 120" 132" 24" | 0.03" 0.04" 0.00" | 5/8" 5/8" 7/8" | 0.18" 0.18" 0.00" | 5/8" 5/8" 3/4" | 0.46" 0.48" 0.00" | 5/8" 5/8" 5/8" | 0.75" 0.75" 0.02" | 3/4" 3/4" 5/8" | 0.99" 1.06" 0.02" | 3/4" 3/4" 5/8" | 1.17" 1.29" 0.03" | 7/8" 7/8" 5/8" | 1.32" 1.45" 0.03" | 1" 1" 5/8" | 1.45" >1.57" 0.03" | 1" 1" 5/8" | 1.54" >1.57" 0.03" | 1-1/8" 1-1/8" 5/8" | >1.57" >1.57" 0.03" | | >1.57" <i>FT req.</i> 0.03" | | FT req. FT req. 0.03" | | FT req. FT req. 0.03" | | | 1-1/8" 1-1/8" 5/8" | | 1-1/8" 1-1/8" 5/8" | | 1-1/8" 1-1/8" 5/8" | FT req. FT req. 0.09" | 1-1/8" 1-1/8" 5/8" | FT req. FT req. 0.10" | 1-1/8" 1-1/8" 5/8" |
| 10 nef | psr | 24 36" 48" 60" 72" 84" | 0.00" 0.00" 0.02" 0.02" 0.03" | 3/4" 5/8" 5/8" 5/8" 5/8" | 0.04" 0.06" 0.09" 0.11" 0.13" | 3/4" 5/8" 5/8" 5/8" 5/8" | 0.06" 0.15" 0.20" 0.25" 0.29" | 5/8" 5/8" 5/8" 5/8" 5/8" | 0.02" 0.20" 0.30" 0.38" 0.45" | 5/8" 5/8" 5/8" 5/8" 5/8" | 0.02 0.11" 0.25" 0.38" 0.48" 0.58" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.03 0.13" 0.29" 0.45" 0.58" 0.69" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.33" 0.52" 0.68" 0.81" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.14" 0.36" 0.59" 0.78" 0.93" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.39" 0.65" 0.87" 1.04" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.40" 0.70" 0.95" 1.15" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.42" 0.74" 1.03" 1.26" | 5/8" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.42" 0.71" 1.05" 1.36" | 1/2" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.43" 0.80" 1.04" 1.47" | 1/2" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.43" 0.86" 1.19" 1.47" | 1/2" 5/8" 5/8" 3/4" 3/4" | 0.03 0.14" 0.44" 0.79" 1.25" >1.57" | 1/2" 5/8" 5/8" 3/4" 3/4" | 0.08 0.18" 0.43" 0.85" 1.49" >1.57" | 1/2" 5/8" 5/8" 3/4" 3/4" | 0.03 0.20" 0.40" 0.97" >1.57" <i>FT reg.</i> | 3/8 1/2" 5/8" 5/8" 3/4" 3/4" | 0.23" 0.45" 1.01" <i>FT req.</i> <i>FT req.</i> | 5/8" 5/8" 5/8" 3/4" 3/4" |
| | | 96" 108" 120" 132" | 0.03" 0.03" 0.03" 0.03" | 5/8" 5/8" 5/8" 5/8" | 0.14" 0.14" 0.14" 0.14" | 5/8" 5/8" 5/8" 5/8" | 0.33" 0.36" 0.39" 0.40" | 5/8" 5/8" 5/8" 5/8" | 0.52" 0.59" 0.65" 0.70" | 5/8" 5/8" 5/8" 5/8" | 0.68" 0.78" 0.87" 0.95" | 3/4" 3/4" 3/4" 3/4" | 0.81" 0.93" 1.04" 1.15" | 3/4" 3/4" 3/4" 3/4" | 0.92" 1.05" 1.18" 1.31" | 7/8" 7/8" 7/8" 7/8" 7/8" | 1.05" 1.15" 1.30" 1.44" | 7/8" 7/8" 7/8" 7/8" 7/8" | 1.18" 1.30" 1.40" 1.55" | 7/8" 7/8" 1" 1" | 1.31" 1.44" 1.55" >1.57" | 7/8" 7/8" 1" 1" | 1.44" >1.57" >1.57" >1.57" | 7/8" 7/8" 1" 1" | 1.57" >1.57" >1.57" >1.57" | 7/8" 7/8" 1" 1" | >1.57" >1.57" >1.57" >1.57" | 7/8" 7/8" 1" 1" | >1.57" >1.57" >1.57" >1.57" | 7/8" 7/8" 1" 1" | >1.57" >1.57" >1.57" <i>FT req.</i> | 7/8" 7/8" 1" 1" | >1.57" >1.57" FT req. FT req. | 7/8" 7/8" 1" 1" | FT req. FT req. FT req. FT req. | 7/8" 7/8" 1" 1" | FT req. FT req. FT req. FT req. | 7/8" 7/8" 1" 1" |
| 30 nef | psr | 24" 36" 48" 60" 72" 84" | 0.00" 0.00" 0.01" 0.02" 0.02" | 7/8" 3/4" 5/8" 5/8" 5/8" 5/8" | 0.00" 0.00" 0.04" 0.06" 0.08" 0.09" | 3/4" 5/8" 5/8" 1/2" 1/2" 1/2" | 0.00" 0.04" 0.11" 0.15" 0.19" 0.23" | 5/8" 5/8" 5/8" 1/2" 1/2" | 0.01" 0.06" 0.15" 0.24" 0.31" 0.37" | 5/8" 1/2" 5/8" 5/8" 5/8" 5/8" | 0.02" 0.08" 0.19" 0.31" 0.41" 0.49" | 5/8" 5/8" 5/8" | 0.02" 0.09" 0.23" 0.37" 0.49" 0.59" | 5/8" 1/2" 1/2" 5/8" 5/8" 5/8" | 0.02" 0.10" 0.26" 0.43" 0.57" 0.69" | 5/8" 1/2" 1/2" 5/8" 5/8" 5/8" | 0.02" 0.11" 0.28" 0.48" 0.65" 0.79" | 5/8" 1/2" 1/2" 5/8" 5/8" 5/8" | 0.02" 0.11" 0.30" 0.53" 0.73" 0.89" | 5/8" 1/2" 1/2" 5/8" 5/8" 5/8" | 0.02" 0.11" 0.32" 0.57" 0.80" 0.98" | 5/8" 1/2" 1/2" 5/8" 5/8" 5/8" | 0.02" 0.11" 0.32" 0.60" 0.86" 1.08" | 5/8" 1/2" 1/2" 5/8" 5/8" 5/8" | 0.02" 0.10" 0.33" 0.64" 0.93" 1.17" | 5/8" 1/2" 1/2" 1/2" 5/8" 5/8" | 0.02" 0.10" 0.33" 0.66" 0.99" 1.26" | 5/8" 1/2" 1/2" 1/2" 5/8" 5/8" | 0.02" 0.10" 0.33" 0.69" 1.04" 1.34" | 5/8" 1/2" 1/2" 1/2" 5/8" 5/8" | 0.02" 0.11" 0.33" 0.71" 1.02" 1.40" | 5/8" 1/2" 1/2" 1/2" 5/8" 5/8" | 0.06" 0.13" 0.33" 0.60" 1.22" 1.43" | 1/2" 1/2" 1/2" 1/2" 5/8" 5/8" | 0.07" 0.15" 0.31" 0.77" 1.31" >1.57" | 1/2" 1/2" 1/2" 1/2" 5/8" 5/8" | 0.07" 0.17" 0.34" 0.77" 1.30" >1.57" | 1/2" 1/2" 1/2" 1/2" 5/8" 5/8" |
| | | 96" 108" 120" 132" | 0.02" 0.02" 0.02" 0.02" | 5/8" 5/8" 5/8" 5/8" | 0.10" 0.11" 0.11" 0.11" | 1/2" 1/2" 1/2" 1/2" | 0.26" 0.28" 0.30" 0.32" | 1/2" 1/2" 1/2" 1/2" | 0.43" 0.48" 0.53" 0.57" | 5/8" 5/8" 5/8" 5/8" | 0.57" 0.65" 0.73" 0.80" | 5/8" 5/8" 5/8" 5/8" | 0.69" 0.79" 0.89" 0.98" | 5/8" 5/8" 5/8" 5/8" | 0.79" 0.91" 1.02" 1.14" | 3/4" 3/4" 3/4" 3/4" | 0.91" 1.01" 1.13" 1.26" | 3/4" 3/4" 3/4" 3/4" | 1.02" 1.13" 1.23" 1.37" | 3/4" 3/4" 3/4" 3/4" | 1.14" 1.26" 1.37" 1.46" | 3/4" 3/4" 3/4" 7/8" | 1.25" 1.38" 1.50" 1.60" | 3/4" 3/4" 3/4" 7/8" | 1.36" 1.51" 1.64" >1.57" | 3/4" 3/4" 3/4" 7/8" | 1.47" 1.64" >1.57" >1.57" | 3/4" 3/4" 3/4" 7/8" | 1.58" >1.57" >1.57" >1.57" | 3/4" 3/4" 3/4" 7/8" | >1.57" >1.57" >1.57" >1.57" | 3/4" 3/4" 3/4" 7/8" | >1.57" >1.57" >1.57" >1.57" | 3/4" 3/4" 3/4" 7/8" | >1.57" >1.57" >1.57" >1.57" | 3/4" | >1.57" >1.57" >1.57" >1.57" | - |