A Division of Sabre Communications Corporation

## Series 9L Self－Supporting Tower Figure 1D

Moving from bottom to top，choose a tower height to find the corresponding base spread．Next go to the wind speed you need and move up the chart to obtain leg size，bracing size and spread for each section of the tower．

| 70 mph | 80 mph | 90 mph | 100 mph | 110 mph |
| :---: | :---: | :---: | :---: | :---: |
|  | Leg Size $23 /$＂$^{0 D} \times .154$ Bracing Size $11 / 2^{\prime \prime} \times 11 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ | Leg Size $23 /$＂$^{0 D} \times .154$ Bracing Size $11 / 2^{\prime \prime} \times 11 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ | $\begin{gathered} \text { Leg Size } \\ 23 / 8^{" 0 D} \times .154 \\ \text { Bracing Size } \\ 11 / 2^{\prime \prime} \times 1 / 1 / 2^{1} \times 1 / 8^{" ~} \end{gathered}$ |  |
| $\begin{gathered} \text { Leg Size } \\ 23 / 8^{" 0 D} \times .154 \\ \text { Bracing Size } \\ 11 / 2^{\prime \prime} \times 1 / 1 / 2^{1 / 1 / 8 " ~} \end{gathered}$ | Leg Size $238^{0} 0 \mathrm{D} \times .154$ Bracing Size $11 / 2^{\prime} \times 1 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ | Leg Size $238^{0} 0 \mathrm{D} \times .154$ Bracing Size $11 / 2^{\prime} \times 1 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ | $\begin{gathered} \text { Leg Size } \\ 238^{\prime \prime} 0 \mathrm{OD} \times .154 \\ \text { Bracing Size } \\ 1_{1 / 22^{\prime} \times 1 / 1 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}} \end{gathered}$ |  |
| $\begin{gathered} \text { Leg Size } \\ 23 z^{\prime \prime} \text { "D. } 154 \\ \text { Bracing Size } \\ 1 / 2^{\prime \prime} \times 1 / 1^{\prime \prime} \times 1 / 8^{\prime \prime} \end{gathered}$ | Leg Size $23 / 8^{\prime \prime} 0 \mathrm{D} \times .218$ Bracing Size $11 / 2^{\prime \prime} \times 11 / 2^{\prime \prime} \times 18^{\prime \prime}$ | Leg Size $2^{7 / 8^{\prime \prime}} 0 \mathrm{D} \times .203$ Bracing Size $11 / 2^{\prime \prime} \times 1 / 1 /$ $^{\times 1 / 8^{\prime \prime}}$ | $\begin{gathered} \text { Leg Size } \\ 31 / 20 \text { OD x } 216 \\ \text { Bracing Size } \\ 11 / 2^{\prime \prime} \times 1 / 2^{\prime \prime} \times 1 / "^{\prime \prime} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Leg Size } \\ 4 \text { " OD } \times .226 \\ \text { Bracing Size } \\ 11 / 2^{\prime \prime} \times 1 / 2^{\prime \prime} \times 3 / 6^{\prime \prime} \end{gathered}$ |

ELEV 160 FT今TWR Height（65）

ELEV 140 FT
仑twR Height（85）

ELEV 120 FT介 twr Height（105）

ELEV 100 FT
へTWR Height（125）


| Leg Size | Leg Size | Leg Size | Leg Size | Leg Size |
| :---: | :---: | :---: | :---: | :---: |
| 23／8＂OD x ． 218 | 27／8＂OD x 203 | 31⁄2＂OD x 216 | 312＂OD x 216 | 4＂OD x ． 226 |
| Bracing Size | Bracing Size | Bracing Size | Bracing Size | Bracing Size |
| $11 / 22^{\prime \prime} 11 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ | $11 / 2^{\prime \prime} \times 11 / 22^{\prime} \times 1 / 8^{\prime \prime}$ | $11 / 2 " \times 11 / 22^{\prime} \times 1 / 81$ | $11 / 22^{\prime \prime} \times 1 / 22^{\prime \prime} \times 1 / 8^{\prime \prime}$ | $11 / 2^{\prime \prime} \times 11 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ |

－SPREAD 7 FT－

| Leg Size | Leg Size | Leg Size | Leg Size | Leg Size |
| :---: | :---: | :---: | :---: | :---: |
| 23／8＂OD x ． 218 | 27／8＂OD x 203 | $3112{ }^{10}$ OD x 216 | 4＂OD x ． 226 | 4112＂OD x ． 237 |
| Bracing Size | Bracing Size | Bracing Size | Bracing Size | Bracing Size |
| $11 / 2{ }^{\prime \prime} \times 11 / 2{ }^{1} \times 1 / 8{ }^{\prime \prime}$ | $11 / 2^{\prime \prime} \times 11 / 2^{\prime \prime} \times 1 / 8{ }^{\prime \prime}$ | $11 / 22^{\prime \prime} \times 11 / 2^{\prime \prime} \times 1 / 8^{\prime \prime}$ | $11 / 2^{\prime \prime} \times 11 / 22^{1} \times 1 / 8^{\prime \prime}$ | $11 / 2{ }^{\prime \prime} \times 11 / 2{ }^{1} \times 1 / 8{ }^{\prime \prime}$ |


| $\begin{gathered} \text { Leg Size } \\ 2^{7 / 8_{" 1} 00 \times .203} \\ \text { Bracing Size } \\ 2^{\prime \prime} \times 2^{\prime \prime} \times 1 / 8^{\prime \prime} \end{gathered}$ | $\begin{gathered} \text { Leg Size } \\ 31 / 2^{\prime \prime} \mathrm{DD} \times .216 \\ \text { Bracing Size } \\ 2^{\prime \prime} \times 2^{\prime \prime} \times 1 / 8^{\prime \prime} \end{gathered}$ | $\begin{gathered} \text { Leg Size } \\ 31 / 2^{\prime 0} \text { OD x. } 216 \\ \text { Bracing Size } \\ 2^{\prime \prime} \times 2^{\prime \prime} \times 1 / 8^{\prime \prime} \end{gathered}$ | Leg Size <br> 4＂OD x ． 226 <br> Bracing Size <br> 2＂$\times 2$＂$\times 1 / 8{ }^{18}$ | $\begin{gathered} \hline \text { Leg Size } \\ 41 / 2^{\prime \prime} 0 \mathrm{x} \times .237 \\ \text { Bracing Size } \\ 2^{\prime \prime} \times 2^{\prime \prime} \times 1 / 8^{\prime \prime} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Leg Size | Leg Size | Leg Size | Leg Size | Leg Size |
| 31／2＂0D x ． 216 | $31 / 2000 \times .216$ | $4 " 00 \times .226$ | $41 / 2 \mathrm{c} 0 \mathrm{Dx} .237$ | 5\％\％＂0D x ． 258 |
| Bracing Size | Bracing Size | Bracing Size | Bracing Size | Bracing Size |
| $2 \mathrm{x} \times 2 \mathrm{x} \times 1 / 8 \mathrm{~s}$ | $2 " \times 2$＂ 1 1／8＂ | $2 \mathrm{x} \times 2$＂ 1 18＂ | $2 " \times 2$＂ 1 1／8＂ | $2 " \times 2$＂ 1 1／8＂ |

－SPREAD 11 FT －

|  |  |  | $\begin{gathered} \text { Leg Size } \\ 59 / 6^{\prime \prime} \text { OD } \times .258 \\ \text { Bracing Size } \\ 2^{1 / 2} \times 2^{1 / 2 "} \times 3 / 16^{\prime \prime} \end{gathered}$ | $\begin{gathered} \text { Leg Size } \\ 59 / 16^{\prime \prime} \text { OD x.258 } \\ \text { Bracing Size } \\ 21 / 2^{\prime \prime} \times 21 / 2^{\prime \prime} \times 3 / 6^{\prime \prime} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Leg Size | Leg Size | Leg | Leg Size | $g$ Size |
| $31 / 200 \mathrm{O} \times .216$ | $4 \mathrm{CD} \mathrm{x}$. | 59／6＂OD x 258 | 59\％6＂0D x ． 258 | 65\％＂ 0 D x． 280 |
| Bracing Size | Bracing Size | Bracing Size | Bracing Size | Bracing Size |
| $21 /{ }^{\prime \prime} \times 21 / 2^{\prime \prime} \times 3 / 16^{\prime \prime}$ | $21 / 2^{\prime \prime} \times 21 / 2^{\prime \prime} \times 3 / 16^{\prime \prime}$ | $21 / 2^{\prime \prime} \times 21 / 2^{\prime \prime} \times 3 / 16^{\prime \prime}$ | $21 / 2^{\prime \prime} \times 21 / 2^{\prime \prime} \times 3 / 16^{\prime \prime}$ | $21 / 2^{\prime \prime} \times 21 / 2^{\prime \prime} \times 3 / 16^{\prime \prime}$ |



| $\begin{gathered} \text { Leg Size } \\ 4^{4 "} \text { OD x } 226 \\ \text { Bracing Size } \\ 3^{\prime \prime} \times 3^{\prime \prime} \times 3 / 16^{\prime \prime} \end{gathered}$ | Leg Size $41 / 22^{0}$ OD $\times 237$ Bracing Size $3^{\prime \prime} \times 3^{\prime \prime} \times 3 / 16^{\prime \prime}$ | Leg Size $59 / 16^{\prime \prime} 0 D \times .258$ Bracing Size $3^{\prime \prime} \times 3^{\prime \prime} \times 3 / 16^{\prime \prime}$ | Leg Size $59 / 16^{\prime \prime} 0 D \times .258$ Bracing Size $3^{\prime \prime} \times 3^{\prime \prime} \times 3 / 16^{\prime \prime}$ | Leg Size $65 /$ 生 $^{0 D} \times .280$ Bracing Size $3^{\prime \prime} \times 3^{\prime \prime} \times 3 / 16^{\prime \prime}$ |
| :---: | :---: | :---: | :---: | :---: |
| Leg Size | Leg Size | Leg Size | Leg Size | Leg Size |
| 4＂OD x 226 | 41⁄2＂OD x ． 237 | 5916＂OD x 258 | 65／8＂OD x ． 280 | 85／8＂OD x ． 322 |
| Bracing Size | Bracing Size | Bracing Size | Bracing Size | Bracing Size |
| 3＂x 3＂x 3／16＂ | 3＂x 3＂x 3／16＂ | 3＂$\times 3$＂x 3／16＂ | 3＂$\times 3$＂x 3／16＂ | 3＂$\times 3$＂x 3／16＂ |
| Leg Size | Leg Size | Leg Size | Leg Size | Leg Size |
| 412＂OD x ． 237 | 59／16＂OD x 258 | 59／6＂OD x ． 258 | 65／8＂OD x ． 280 | 85／8＂OD x ． 322 |
| Bracing Size | Bracing Size | Bracing Size | Bracing Size | Bracing Size |
| $31121 \times 31 / 22^{\prime \prime} \times 1 / 4^{\prime \prime}$ | $31 / 22^{\prime \prime} \times 1 / 22^{\prime \prime} \times 1 / 4^{\prime \prime}$ | $31 / 22^{\prime \prime} \times 1 / 2^{\prime \prime} \times 1 / 4^{\prime \prime}$ | $31122^{\prime \prime} \times 1 \frac{1}{2 \prime} \times 1 / 4^{\prime \prime}$ | $31 / 22^{\prime \prime} \times 1 / 2^{\prime \prime} \times 1 / 4^{\prime \prime}$ |

