FIBERGLASS DIVISION
HOLE-FORMER/KNOCKOUT CYLINDRICAL WALL

| $\begin{array}{\|c\|} \hline \text { HOLE } \\ \text { SIZE } \\ \hline \end{array}$ | 24" ..D. | 30" I.D. | 36" ..D. | 42" ..D. | 48" . .D. | 60" ..D. | 72" ..D. | 84" I.D. | 96" ..D. | 120" ..D. | 144 | " .D. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4" |  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |
| 5" | $\checkmark$ |  |  |  | $\checkmark$ |  |  |  |  |  |  |  |
| 6" | **, |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |
| 7" |  |  |  |  | $\checkmark$ |  |  |  |  |  |  |  |
| 8" | ** |  |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| $9 "$ |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |  |
| 10" | $\checkmark$ | * $\checkmark$ | $\checkmark$ |  | $\checkmark$ | **V | $\checkmark$ |  | * $\downarrow$ |  |  |  |
| 12" | ** $\checkmark$ | ** | * $\checkmark$ |  | ** | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| 14" | $\checkmark$ |  | $\checkmark$ |  | *V | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |
| $15^{\prime \prime}$ | **V |  |  |  | $\checkmark$ |  |  |  | * $\checkmark$ |  |  |  |
| 16" | $\checkmark$ | ** | ** |  | ** $\downarrow$ * | * $\downarrow$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| 18" | ${ }^{* *}$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | - $\downarrow$. | $\checkmark$ | $\checkmark$ | **, | $\checkmark$ |  |  |  |
| 19" | $\checkmark$ |  | * $V$ |  |  |  |  |  |  |  |  |  |
| 20" | **V |  | ${ }^{* * *} \checkmark$ | $\checkmark$ | * $/$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| 22" | $\checkmark$ |  | * $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | * $\checkmark$ | $\checkmark$ |  |  |  |
| 24" | $\checkmark$ |  | ** $\checkmark$ | **, | ${ }_{* *}{ }^{\text {r }}$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| $25^{\prime \prime}$ |  |  |  |  | $\checkmark$ |  |  |  |  |  |  |  |
| 26" | $\mathrm{a}^{(1)}$ |  | $\checkmark$ |  | * $V$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | KNOCKOUTS |  |  |
| 27" | $\sim^{*}{ }^{*}$ both ${ }^{\prime \prime}$ |  | ${ }^{*}$ | * $\checkmark$ | ${ }^{* * *} \checkmark^{* *}$ | ${ }^{*}$ | ${ }^{*}$ |  | ** $\checkmark$ |  |  |  |
| 27.5 | \& $5^{5 \prime}$ wall |  |  | ** | $\checkmark$ V |  |  |  |  | $\begin{aligned} & \mathrm{R}-2 \cdot 5-20 \\ & \mathrm{R}-2.5-5-26 \end{aligned}$ |  |  |
| $28^{\prime \prime}$ | nw |  | $\checkmark$ |  | * $\checkmark$ * | $\checkmark$ | $\checkmark$ | * $\checkmark$ | $\checkmark$ |  |  |  |
| 30" |  |  | $\checkmark$ |  | * $\checkmark$ * | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | R-2.5-8-26 |  |  |
| 32" |  | NM | * ${ }^{\text {V }}$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | * $V$ | $\checkmark$ | R-3-3-10-32 |  |  |
| 33" |  | both ${ }^{\text {b }}$ " wall ${ }^{\text {a }}$ |  |  | *** $V$ |  |  |  |  |  |  |  |
| $34^{\prime \prime}$ |  | ${ }^{5}{ }^{\text {" }}$ wall |  |  | $\checkmark \cdot$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\begin{gathered} \mathrm{R}-2-5-38 \\ \mathrm{R}-3.5-30-48 \end{gathered}$ |  |  |
| 35" |  | wall |  | * $\downarrow$ | $\checkmark$ |  |  |  |  |  |  |  |
| 36" |  | N |  | M | **V | ${ }^{*}$ | ${ }^{*}$ | $\checkmark$ | ${ }^{* * \checkmark}$ | R-4-1050 |  |  |
| 38" |  | N | 4 | 4" wall | * $\downarrow$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | R-2.5-28-53 |  |  |
| 39" |  | N |  |  |  |  |  | $\checkmark$ |  | $\begin{gathered} R-3.5-7-72 \\ R-7-5-86 \end{gathered}$ |  |  |
| 40" |  | ${ }_{* 4,75}$ |  | "both 4" ${ }_{\text {4 }}^{4.5}$ | $\checkmark$ * | $\checkmark$ | $\stackrel{\square}{*}$ |  | $\checkmark$ |  |  |  |
| 42" |  | ${ }^{* 4.75 "}$ | wall | ${ }^{8.4 .5 "}$ | $\checkmark$ | $\checkmark$ | * $\checkmark$ | * $V$ | $\checkmark$ | MISCELLANEOUS |  |  |
| 44" |  | * ${ }_{\text {both }}$ | 4" \& | 4 A | $\nabla^{*}$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |
| $45^{\prime \prime}$ |  | $4^{4.75 "}$ | wall | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | R-10-106-120 |  |  |
| $46^{\prime \prime}$ |  | $\bigcirc$ | $4^{4 \prime}{ }^{\prime \prime}$ | $\bigcirc$ | , | $\checkmark$ | $\checkmark$ |  |  |  |  |  |
| $48^{\prime \prime}$ |  | $4^{84.55^{\prime \prime}}$ | wall | *both | 3" \& ${ }^{5}$ | * $\checkmark$ | * $\checkmark$ | * $\checkmark$ | $\checkmark$ | STANDARD Wall Thickness |  |  |
| 50" |  |  | $\stackrel{\rightharpoonup}{ }$ | *bot |  |  |  |  | $\checkmark$ |  |  |  |
| 52" |  |  | ${ }^{-}$ | ${ }^{*+5}$ | wall | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | 24.1.0. | = ${ }^{\text {™ }}$ | 844.L.D. $=8^{\prime \prime}$ |
| $54^{\prime \prime}$ |  |  |  | 5.25 " |  |  | $\checkmark$ | $\checkmark$ |  | 42"ID. $=$ | 4/2" | 1084.L.: $=10^{\prime \prime}$ |
| $55^{\prime \prime}$ |  |  |  | tals, | taper $5^{\prime \prime}$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $48^{4} \mathrm{Cl} 1 . \mathrm{D}$. | = $5^{\prime \prime}$ | 120"1.0. $=11^{\prime \prime}$ |
| 56" |  |  |  | - bot | $5^{\prime \prime \prime} 89^{\prime \prime}$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | 60\% 1.0 . | $=6^{\prime \prime}$ | $144^{4} 1.0 .=12^{\prime \prime}$ |
| 57" |  |  |  | Vbot | wall $4^{\prime \prime}$ |  | $\checkmark$ |  |  | 72 ${ }^{\text {2 }}$. 1.0 |  |  |
| 58" |  |  |  | - | valls |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| $60^{\prime \prime}$ |  |  |  | wall | 6" 8 | V | ${ }^{*} \downarrow$ | $\checkmark$ | $\checkmark$ |  |  |  |
| 62" |  |  |  | ${ }^{\circ} 6^{\prime \prime}$ w | - | th 6" \& | $\stackrel{\rightharpoonup}{ }$ | $\checkmark$ | $\checkmark$ |  |  |  |
| 64" |  |  |  | L | N | $8{ }^{\prime \prime}$ wall | $\checkmark$ | $\checkmark$ | $\checkmark$ | BLACK THORN |  |  |
| 66" |  |  |  |  | A- | $\underbrace{}_{\substack{\text { both } \\ \text { c } \\ \text { c }}}$ | M | * $\checkmark$ | $\checkmark$ |  |  |  |
| 68" ${ }^{\text {70 }}$ |  |  |  |  | $\sqrt{2}$ | ${ }^{8} 6^{\prime \prime}{ }_{*}$ | oth 7"\& |  | $\checkmark$ |  |  |  |
| 72" |  |  |  |  |  |  | wall | $\checkmark$ | ${ }^{*}$ | www.blackthorn-inc.com sales@blackthorn-inc.com |  |  |
| 74" |  |  |  |  |  | < | $8{ }^{8}$, \& |  |  |  |  |  |
| 76" |  |  |  |  |  |  | 5" wall |  | $\checkmark$ |  |  |  |
| 78" |  |  |  |  |  |  | , |  |  |  |  |  |
| $80^{\prime \prime}$ |  |  |  |  |  |  | $\xi{ }^{* 9.75 "}$ |  |  |  |  |  |
| 82" |  |  |  |  |  |  | Lun |  | $\checkmark$ |  |  |  |

