

STEPHENSON'S PRODUCT KNOWLEDGE - STAIR TOWERS



Application – commonly used for access to roof tops, in and out of pits or up against structural steel during throughout the course of construction.
 Contact our Scaffold Source department to discuss site specifics, how the tower will be tied off, base conditions (will the tower be within 2' from the wall?) walk on and off – exit and entry points as well as discuss any engineering requirements.

Stair Tower Constructed in 5' High increments x 7' long x Site specific Height TBD

| Section | Description | SRS Group Code | Use |
|----------------|--|----------------|---|
| BASE | | | |
| | Starter Frame 5'x10' | 6444 | Used at bottom for entrance |
| | Wood Plank 8' | 6410A | On compacted gravel / soil ground |
| | Mud Sills 12" | MUDS | Concrete solid base 4 leg tower w/ 2 as step off @ top |
| | Leg Jacks 18" | 6404 | 4 leg tower w/ 2 as step off @ top |
| | Starter Bar | A609 | Inserted over 2 Leg Jacks @ bottom and starter frame placed on top |
| | Horizontal Diagonal Brace 7' | 6402A | One used (fits corner to corner) on first bay to keep tower square & rigid |
| | Platform 19"x7' | 6415 | One optional @ bottom - rest for top walk / step off |
| BODY | | | |
| Note #1 | Frame 5'x5' | 6401 | 5' increments |
| Note #2 | Pig Tails | ACC | Used @ ea. Junction point in scaffold |
| | Braces 7'x4' | 6402 | Cross Braces |
| | Stair Z Type Unit | 6442 | Stair fits into scaffold section |
| | Inside Handrail | HRRI | Handrail faces inside of tower |
| | Outside Handrail | HRLO | Handrail faces outside of tower |
| Note #3 | Outside Handrail - revised | HRLO - BD | Handrail faces outside of tower Box down only |
| | Outside Handrail - revised | HRLO - BU | Handrail faces outside of tower Box up only |
| | End Bars | ENDBA | 2 end bars per stair landing platform - blocks open side of 5'x5' frame for safety |
| TIES | | | |
| | Wall Ties Adj. w/ clamp & anchor Plate | 6432A | Required 2 ties @ each 15' in height plus 2 @ top of tower |
| OR | | | |
| | System Ledger 10' | 6505 | |
| | System Ledger 7' | 6507 | Ledger gets clamped horizontally to frame and wedge is connected into 1/2" eye bolt |
| | Concrete Anchor 1/2 Eye w/ 5/8" drop in anchor | EYFS50024 | Fastened into concrete wall to accept System Ledger |
| OR | | | |
| | Beam Clamp (Right Angle) | 6430A | Used to tie into vertical steel piles to accept an aluminum tube |
| OR | | | |
| | #2 Post Shore Inner | 4013A | Used to tie into wood wall forms |
| | Lag Bolts 3" | MISC | Require 4 bolts + 2 x FtT clamp per Shore Tie |
| TOP | | | |
| | 1 5/8 x 1 5/8 (F to F) SWW Clamp | 6426C | Used at top for walk off |
| | 1 5/8 x 2 (F to T) RAW Clamp | 6426 | |
| | 2 x 2 (T to T) RAW Clamp | 6430 | |
| | 4' Aluminum Tube | 6434 | |
| | 8' Aluminum Tube | 6436 | 1 bottom if brace out, top if required for walk off |

Desired Height of Tower

| Qty | 10' | 15' | 20' | 25' | 30' | 35' | 40' | 45' | 50' | 55' | 60' |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | |
| 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | |
| 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | |
| 2 | 2 | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | |
| OR | | | | | | | | | | | |
| 2 | 2 | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | |
| 2 | 2 | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | |
| OR | | | | | | | | | | | |
| 2 | 2 | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | |
| 8 | 8 | 8 | 16 | 16 | 24 | 24 | 32 | 32 | 40 | 40 | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 16 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |

Quantities Required

