Systems™ Scaffold Technical Manual







SYS

AWARNING

THIS DOCUMENT IS INTENDED FOR USE BY EXPERIENCED SCAFFOLD ENGINEERS. USE BY UNQUALIFIED PERSONS MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE.

LOADING INFORMATION CONTAINED IN THIS DOCUMENT IS BASED UPON THE LOAD-CARRYING CAPACITY OF THE INDIVIDUAL COMPONENTS. THE TOTAL LOADS (COMPONENT WEIGHT, PLANK WEIGHT, LIVE LOAD, MATERIAL LOAD, WIND LOAD, ETC.) TO BE IMPOSED ON THE COMPLETE ASSEMBLY MUST BE CONSIDERED. ALL LOADS ON INDIVIDUAL MEMBERS ARE TRANSMITTED TO OTHER COMPONENTS AND ULTIMATELY TO THE GROUND. COMPENSATION FOR THESE CUMULATIVE VERTICAL AND HORIZONTAL LOADS MUST BE PROVIDED FOR EACH INDIVIDUAL SCAFFOLD APPLICATION.

▲WARNING

SERIOUS INJURY OR DEATH CAN RESULT FROM YOUR FAILURE TO FAMILIARIZE YOURSELF, AND COMPLY WITH ALL APPLICABLE SAFETY REQUIREMENTS OF FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS BEFORE ERECTING, USING OR DISMANTLING THIS SCAFFOLD.

♠WARNING

FALL ARREST EQUIPMENT ATTACHED TO SCAFFOLD MAY NOT PREVENT SERIOUS INJURY OR DEATH IF A FALL OCCURS.

Symbol Legend C Denotes Centerline of Horizontal or Vertical Tubes Material - See Page 44 Label - See Page 41-42 Manufacturing Date Code Location

This document is subject to periodic revision and updating. Before designing scaffolds with Systems™ Scaffold components, contact BrandSafway to be sure you are using the most current revision.

Contact BrandSafway for all scaffold loading not covered in this document.

THIS DOCUMENT IS NOT TO BE REPRODUCED IN PART OR IN WHOLE.

All drawings in this guide are for illustrative purposes only. This guide is intended for general information purposes only. Because of the many variables which affect the performance of the product line, some of the information in this brochure may not apply. For specific applications, contact BrandSafway.

Note: All scaffolds shall be erected, modified and dismantled only under the supervision of a Competent Person. Erection, use, maintenance and disassembly must conform to current manufacturer's instructions as well as all federal, state, provincial and local regulations. Copies of complete Safety Guidelines for these and other products are available from your local BrandSafway branch.

BrandSafway Systems™ Scaffold has passed all seismic qualification tests of Class 1E equipment and is in full compliance with the American National Standards Institute (ANSI) and the Institute of Electrical and Electronic Engineers (IEEE) standard 344-1987.

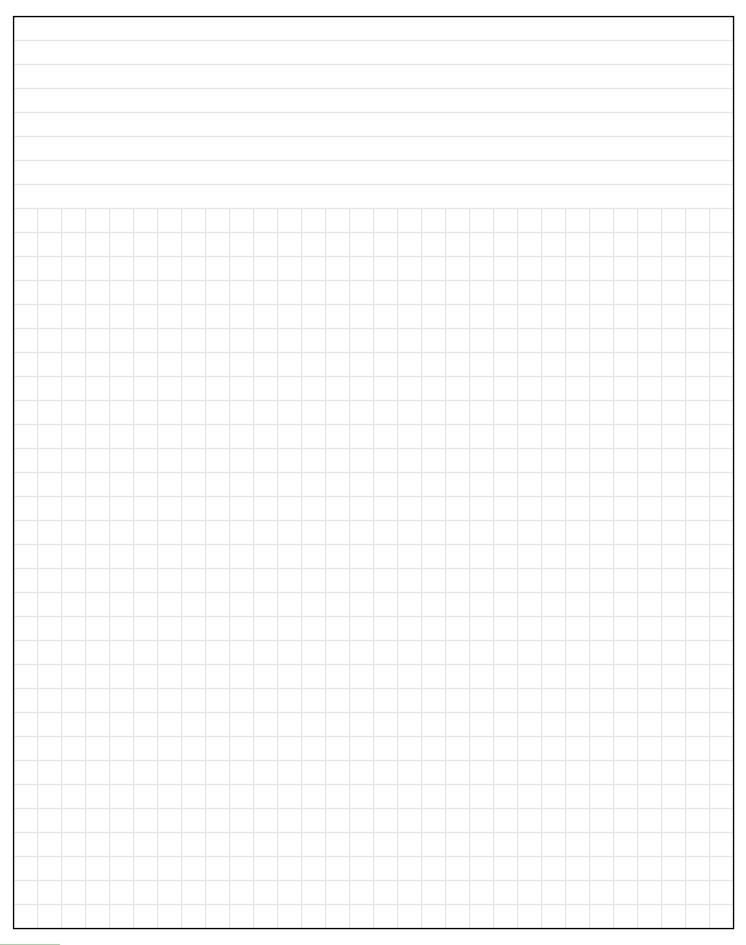
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⁶ Notes

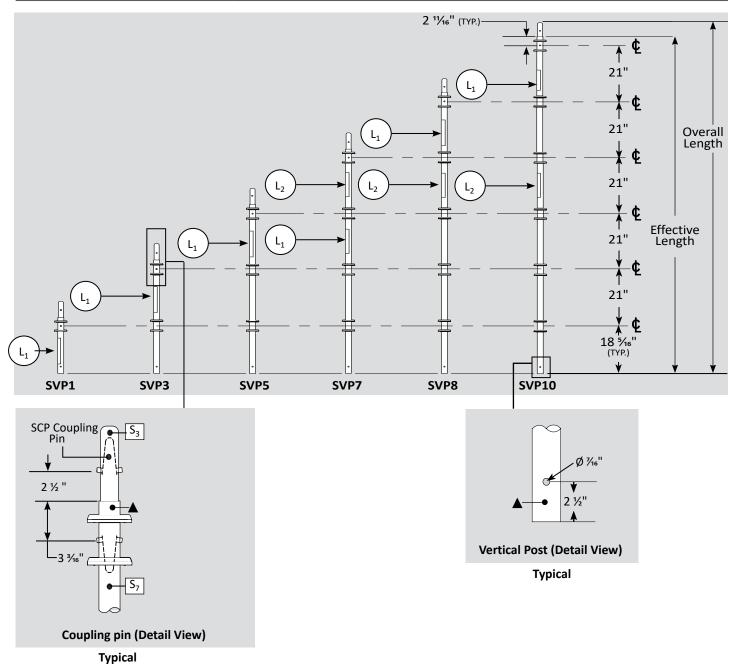


Section 1

This section contains BrandSafway
Systems™ Scaffold component
illustrations, dimensions and weights to
be used for visual part recognition and
dimensional identification. The noted
weights may be used for shipping weight
and leg load calculations.

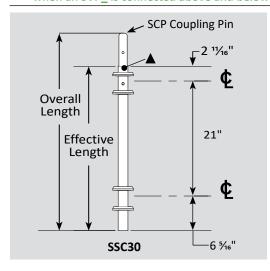
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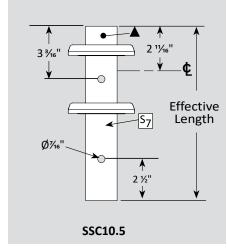
| Vertical Posts | | | | | | | |
|----------------|-------------------------|----------------|--------|-----------------------|---------------------------------|--|--|
| Part No. | Effective Length | Overall Length | Weight | Label | Material | | |
| | ft-in | ft-in | lb | | | | |
| SVP10 | 10'-6" | 11'-0" | 35.1 | L_1 , L_2 | S ₃ , S ₇ | | |
| SVP8 | 8'-9" | 9'-3" | 29.7 | $L_{\!1}$, $L_{\!2}$ | S_3, S_7 | | |
| SVP7 | 7'-0" | 7'-6" | 24.1 | L_1 , L_2 | S ₃ , S ₇ | | |
| SVP5 | 5'-3" | 5'-9" | 18.6 | L ₁ | S_3, S_7 | | |
| SVP3 | 3'-6" | 4'-0" | 13.0 | L ₁ | S ₃ , S ₇ | | |
| SVP1 | 1'-9" | 2'-3" | 7.6 | L_1 | S_3 , S_7 | | |



| Starter Collars | | | | | |
|-----------------|------------------|----------------|--------|----------------|--|
| Part No. | Effective Length | Overall Length | Weight | Material | |
| | ft-in | ft-in | lb | | |
| SSC30 | 2'-6" | 3'-0" | 10.7 | S_3 , S_7 | |
| * SSC10.5 | 10 1/2" | _ | 3.4 | S ₇ | |

^{*} SSC10.5 does not come with a coupling pin. A special coupling pin is available when an SVP_ is connected above and below the SSC10.5





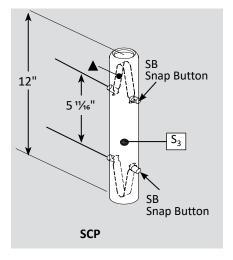
Systems™ Coupling Pin

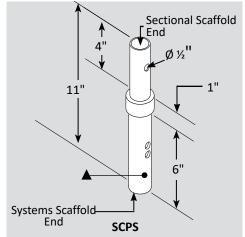
| Part No. | Weight | Material |
|----------|--------|----------|
| | lb | |
| SCP | 2.1 | S_3 |

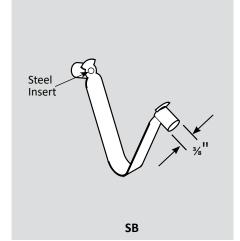
| Transition Couplir | ng Pin |
|--------------------|--------|
| | |

| Part No. | Weight |
|----------|--------|
| | lb |
| SCPS | 2.3 |

| Snap Button | |
|-------------|--------|
| Part No. | Weight |
| | lb |
| SB | 0.1 |







Tubular Screw Jack Part No. Maximum Extension Minimum Extension **Adjustment Range Overall Height** Weight in in in lb 14" STSJ1 12" 21" 8.3 8" 2" STSJ2 6" 12" 6.2

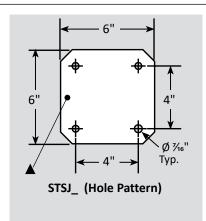
Not for use with casters.

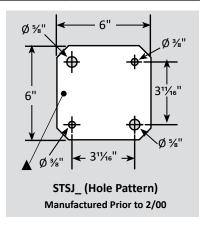
1 ½" Acme
Thread

Overall
Height

Maximum
Extension

Adjustment
Range

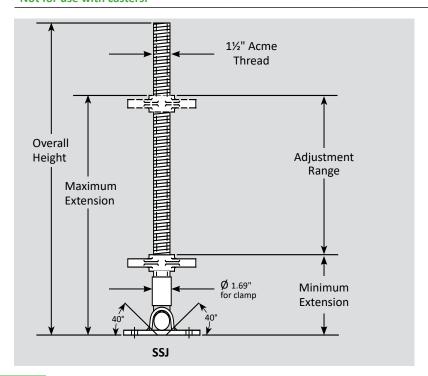




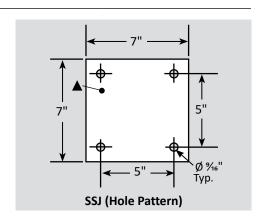
* The STSJ1 and STSJ2 have "Safway" marked into the base plate or jack handle.

Tubular Swivel Scew Jack Part No. **Maximum Extension Minimum Extension Adjustment Range Overall Height** Weight in in lb 1813/16" 65/16" 12½" 24½" SSJ 14.9

Not for use with casters.

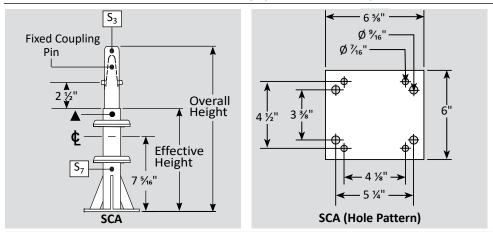


Extension



| Caster Adapter | | | | | | | |
|----------------|------------------|----------------|--------|---------------------------------|--|--|--|
| Part No. | Effective Height | Overall Height | Weight | Material | | | |
| | in | ft-in | lb | | | | |
| SCA | 10" | 1'-4" | 9.6 | S ₃ , S ₇ | | | |

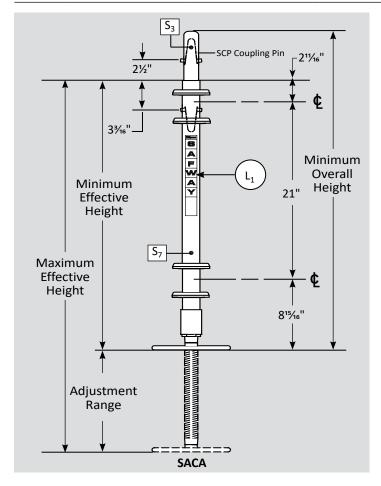
For use with 8" and 12" diameter BrandSafway Systems™ casters only.

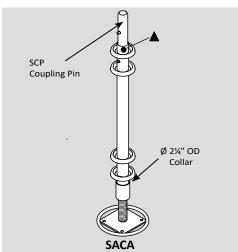


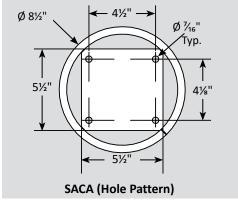
Adjustable Caster Adapter

| Part No. | Max. Effective Height | Min. Effective Height | Adjustment Range | Minimum Overall Height | Weight | Label | Material |
|----------|-----------------------|-----------------------|------------------|------------------------|--------|----------------|---------------------------------|
| | ft-in | ft-in | in | ft-in | lb | | |
| SACA | 3'-9" | 2'-9¼" | 11¾" | 3'-25%" | 27.2 | L ₁ | S ₃ , S ₇ |

For use with 8" diameter BrandSafway Systems™ casters only. (Not for use with 12" diameter casters.)







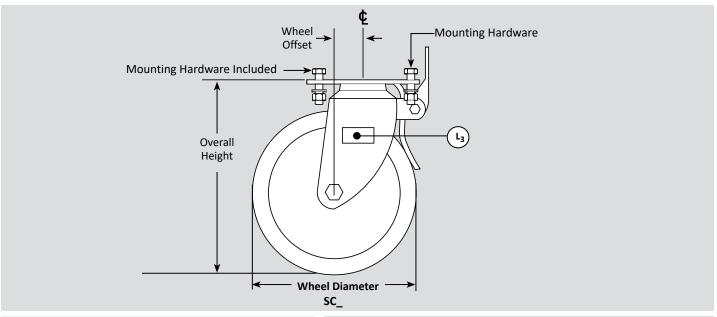
¹² Component Identification

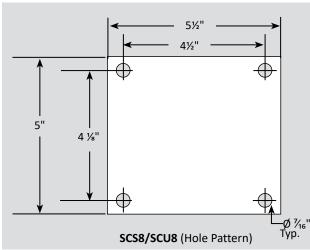
| Casters | | | | | | | |
|----------|----------------|----------------|--------------|-----------------|----------------|--------|----------------|
| Part No. | Wheel Diameter | Overall Height | Wheel Offset | Wheel Thickness | Tread Material | Weight | Label |
| | in | in | in | in | | lb | |
| SCS8 | 8" | 9½" | 2" | 2" | Steel | 15.4 | L ₃ |
| SCU8 | 8" | 9½" | 2" | 2" | Polyurethane | 10.8 | L ₃ |
| SCS12 | 12" | 14½" | 2 1/8" | 25/8" | Cast Iron | 36.7 | L ₃ |
| SCU12 | 12" | 14½" | 2 1/8" | 21/8" | Polyurethane | 25.2 | L ₃ |
| *SCU12HD | 12" | 15½" | 2 %" | 3" | Polyurethane | 26.5 | L ₃ |

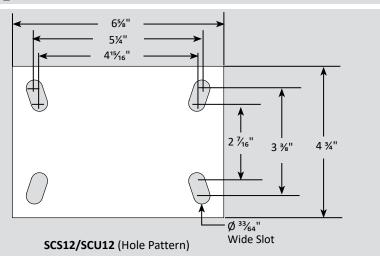
^{*} Discontinued

| Mountin | g Hardware | | | |
|----------|------------|-----------|-------------|--|
| Part No. | Bolt | Nut | Lock Washer | |
| SCS8 | 5143A0601 | 5163A0001 | 5182A0001 | |
| SCU8 | 5143A0601 | 5163A0001 | 5182A0001 | |
| SCS12 | 5143A0801 | 5163A0002 | 5182A0002 | |
| SCU12 | 5143A0801 | 5163A0002 | 5182A0002 | |
| SCU12HD | 5143A0801 | 5163A0002 | 5182A0002 | |

Replacement components: 4 bolts, nuts and lock washers required per caster

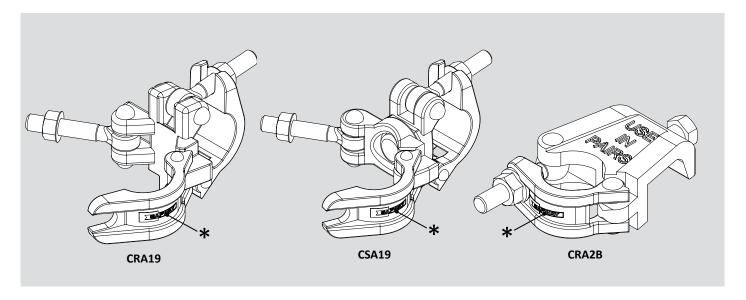




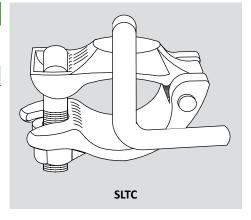


| Bolt Clamps - Dual Purpose | | | | | |
|----------------------------|--------------------------------|--------|--|--|--|
| Part No. | Description | Weight | | | |
| | | lb | | | |
| CRA19 | Right Angle Clamp | 3.0 | | | |
| CSA19 | Swivel Clamp | 3.5 | | | |
| | e Clamps fit 1.90" and 1.69" C | | | | |

| Beam Cla | mp | |
|----------|------------------------|--------|
| Part No. | Description | Weight |
| | (Use in pairs) | lb |
| CRA2B | Beam Clamp, 1.90" Only | 3.9 |



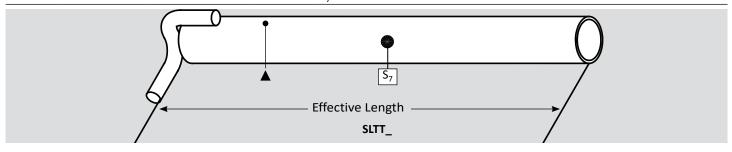
| Tie Clamp | |
|-----------|--------|
| Part No. | Weight |
| | lb |
| SLTC | 3.1 |
| | |



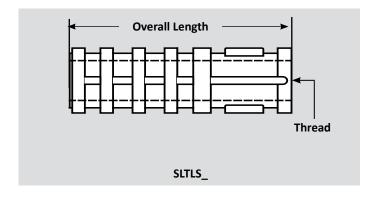
* The CRA19, CSA19 and CRA2B have "Safway" marked on the clamp caps.

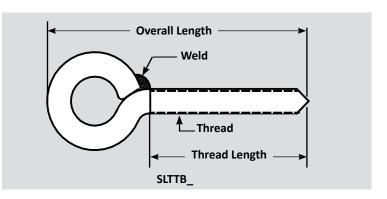
¹⁴ Component Identification

SL Tie Tubes Material Part No. Description **Effective Length** Weight ft-in lb 1'-81/4" SLTT 0.5m Tie Tube 4.6 S_7 3'-7%" 9.7 SLTT1 1.1m Tie Tube S_7



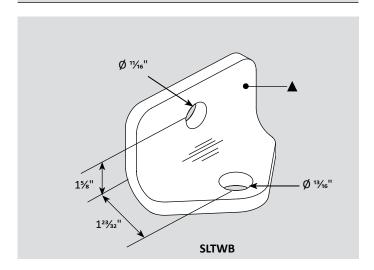
| Wall Inserts | | | | | Eye Bolts | | | | |
|--------------|----------|----------------|---------------|--------|-----------|----------------|---------------|---------------|--------|
| Part No. | Powers | Overall Length | Thread | Weight | Part No. | Overall Length | Thread Length | Thread | Weight |
| | Part No. | in | | lb | | in | in | | lb |
| SLTLS1 | 1151 | 1¾" | 3⁄8"-7 Lag | 0.06 | SLTTB1 | 43/8" | 2½" | ¾"-7 Lag | 0.13 |
| SLTLS2 | 6306 | 1%6" | %"-16 Machine | 0.06 | SLTTB2 | 2½" | 7∕8 " | %"-16 Machine | 0.12 |



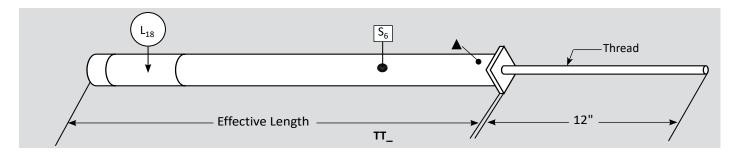


Wall Tie Bracket

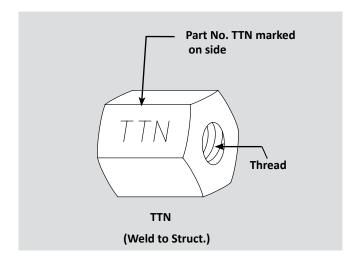
| Part No. | Weight | |
|----------|--------|--|
| | lb | |
| SLTWB | 1.56 | |



| Tie Tub | Tie Tubes | | | | | | | | |
|----------|-------------|------------------|-------------|--------|-----------------|----------|--|--|--|
| Part No. | Description | Effective Length | Thread | Weight | Label | Material | | | |
| | | ft-in | | lb | | | | | |
| TT2 | 2' Tie Tube | 2'-0" | ½"-6 Coil | 4.9 | L ₁₈ | S_6 | | | |
| TT3 | 3' Tie Tube | 3'-0" | 1/2"-6 Coil | 6.8 | L ₁₈ | S_6 | | | |

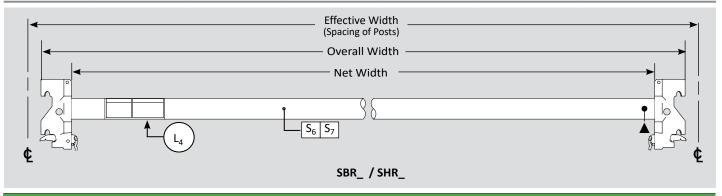


| Tie Tube Nut | | | | | | | | | |
|--------------|--------------|--------------|-----------|--------------|--|--|--|--|--|
| Part No. | Description | Length in | Thread | Weight lb | | | | | |
| TTN | Tie Tube Nut | 13/16" | ½"-6 Coil | 0.31 | | | | | |



| Bearers/Runners | | | | | | | | | |
|-----------------|-----------------|---------------|-----------|--------|-------|----------------|--|--|--|
| Part No. | Effective Width | Overall Width | Net Width | Weight | Label | Material | | | |
| | ft-in | ft-in | ft-in | lb | | | | | |
| SBR2 | 2'-0" | 1'-9¾" | 1'-43/8" | 6.7 | L_4 | S ₆ | | | |
| SBR33 | 2'-9" | 2'-6¾" | 2'-1¾" | 8.2 | L_4 | S ₆ | | | |
| SBR3 | 3'-0" | 2'-9¾" | 2'-4¾" | 8.7 | L_4 | S ₆ | | | |
| SBR42 | 3'-6" | 3'-3¾" | 2'-10¾" | 11.1 | L_4 | S ₇ | | | |
| SBR45 | 3'-9" | 3'-6¾" | 3'-13/8" | 10.1 | L_4 | S_6 | | | |
| SBR4 | 4'-0" | 3'-9¾" | 3'-43/8" | 12.2 | L_4 | S ₇ | | | |
| SBR54 | 4'-6" | 4'-3¾" | 3'-103/8" | 13.5 | L_4 | S ₇ | | | |
| SBR5 | 5'-0" | 4'-9¾" | 4'- 43/8" | 14.7 | L_4 | S ₇ | | | |

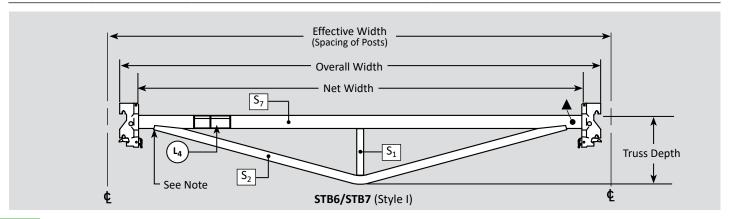
| Runners | | | | | | |
|----------|------------------|----------------|------------|--------|----------------|----------------|
| Part No. | Effective Length | Overall Length | Net Length | Weight | Label | Material |
| | ft-in | ft-in | ft-in | lb | | |
| SHR6 | 6'-0" | 5'-9¾" | 5'-4¾" | 14.6 | L ₄ | S ₆ |
| SHR7 | 7'-0" | 6'-9¾" | 6'-4¾" | 16.5 | L ₄ | S ₆ |
| SHR8 | 8'-0" | 7'-9¾'' | 7'-43/8" | 18.4 | L ₄ | S ₆ |
| SHR9 | 9'-0" | 8'-9¾" | 8'-43/8" | 20.4 | L_4 | S ₆ |
| SHR10 | 10'-0" | 9'-9¾" | 9'-43/8" | 22.3 | L_4 | S ₆ |



Truss Bearers (Style I)

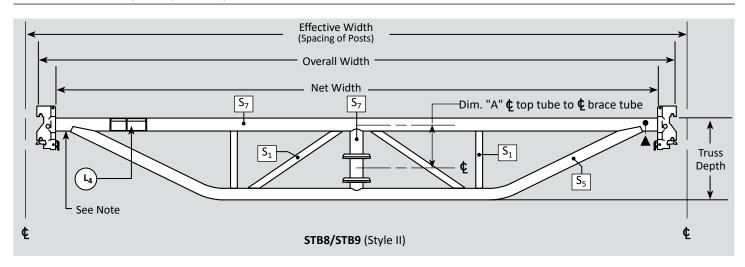
| Part No. | Effective Width | Overall Width | Net Width | Truss Depth | Weight | Label | Material |
|----------|------------------------|---------------|-----------|-------------|--------|----------------|--|
| | ft-in | ft-in | ft-in | in | lb | | |
| STB6 | 6'-0" | 5'-9¾" | 5'-4¾" | 10" | 23.4 | L ₄ | S ₁ , S ₂ , S ₇ |
| STB7 | 7'-0" | 6'-9¾" | 6'-43/8" | 10" | 26.9 | L_4 | S_1, S_2, S_7 |

Note: End of tube may or may not be open, sides are welded.



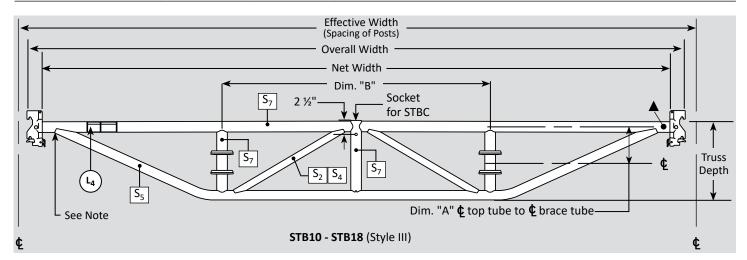
| Truss Bearers (Style II) | | | | | | | | | | |
|--------------------------|------------------------|---------------|-----------|-------------|---------|--------|-------|--|--|--|
| Part No. | Effective Width | Overall Width | Net Width | Truss Depth | Dim "A" | Weight | Label | Material | | |
| | ft-in | ft-in | ft-in | in | in | lb | | | | |
| STB8 | 8'-0" | 7'-9¾" | 7'-43/8" | 12" | 515/16" | 40.6 | L_4 | S ₁ , S ₅ , S ₇ | | |
| STB9 | 9'-0" | 8'-9¾" | 8'-43/8" | 14" | 515/16" | 45.7 | L_4 | S_1, S_{5}, S_7 | | |

Note: End of tube may or may not be open, sides are welded.



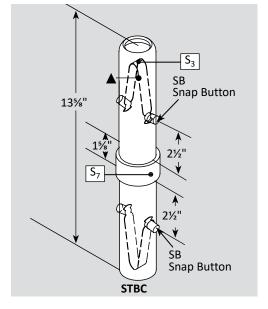
Truss Bearers (Style III) Effective Width Overall Width Dim "A" Dim "B" Part No. **Net Width Truss Depth** Weight Label Material lb ft-in ft-in ft-in in in ft-in 10'-0" 9'-43/8" 4'-0" STB10 9'-93/4" 14" 5%" 56.5 S₂, S₅, S₇ STB12 12'-0" 11'-9¾" 11'-4%" 7%" 6'-0" S_2, S_{5}, S_7 16" 68.4 7%" STB14 14'-0" 13'-9¾" 13'-4%" 16" 6'-0" 76.5 S_2, S_5, S_7 STB16 16'-0" 15'-9¾" 15'-4%" 18" 7%" 8'-6" 93.1 L_4 S_4, S_5, S_7 7%" STB18 18'-0" 17'-9¾" 17'-43/8" 18" 8'-6" 101.2 S₄, S₅, S₇

Note: End of tube may or may not be open, sides are welded.

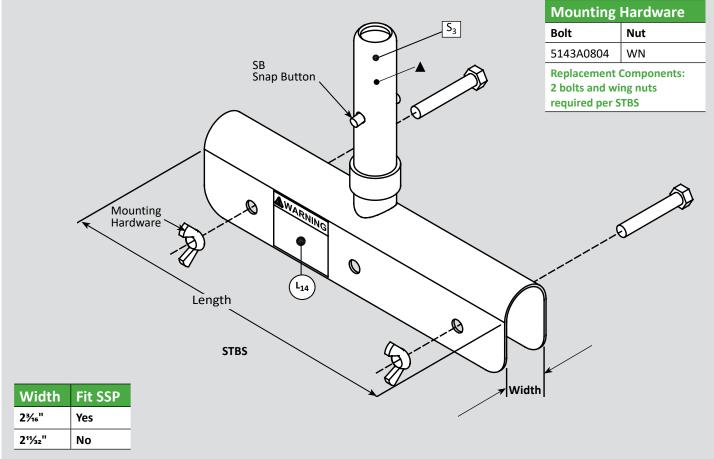


¹⁸ Component Identification

Truss Bearer Coupler Part No. Weight Material Ib STBC 2.6 S₃, S₇ Note: For use with Style III Truss Bearers only.



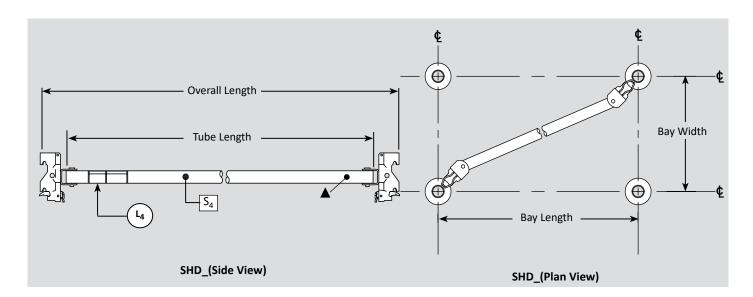
| Truss Bear | Truss Bearer Saddle | | | | | | |
|------------|---------------------|--------|-----------------|----------|--|--|--|
| Part No. | Length | Weight | Label | Material | | | |
| | ft-in | lb | | | | | |
| STBS | 1'-2" | 6.3 | L ₁₄ | S_3 | | | |



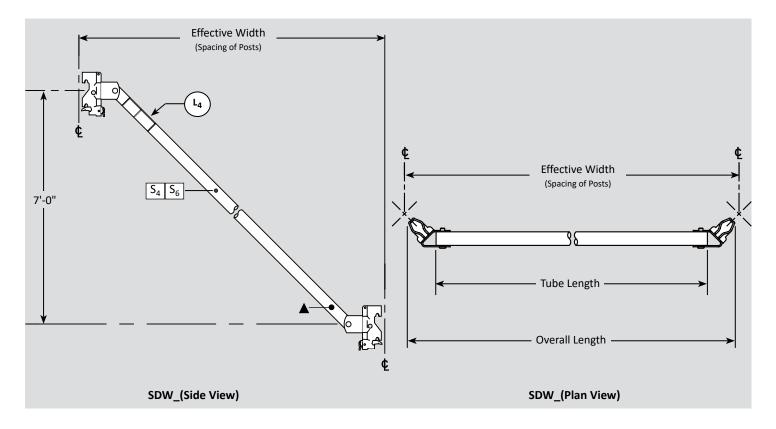
STBS manufactured prior to 4/08 have a width of $2^{1}\%2^{1}$, which prevents a SSP plank from bearing on top. STBSs manufactured after 4/08 have a width of $2^{3}\%6^{1}$, allowing the SSP plank to bear on top of it.

| Part No. | Bay Width x Bay Length | Tube Length | Overall Length | Weight | Label | Material |
|----------|------------------------|--------------------|----------------|--------|----------------|----------------|
| | | in | in | lb | | |
| SHD33 | 3' x 3' | 4127/32" | 4829/3211 | 11.3 | L_4 | S_4 |
| SHD37 | 3' x 7' | 83¾6" | 90¼" | 16.9 | L_4 | S_4 |
| SHD38 | 3' x 8' | 9417/32" | 10119/32" | 18.5 | L ₄ | S_4 |
| SHD39 | 3' x 9' | 106" | 1131/16" | 20.0 | L_4 | S_4 |
| SHD310 | 3' x 10' | 11719/32" | 124 21/32" | 21.6 | L_4 | S_4 |
| SHD425 | 42" x 5' | 64¾" | 711/16" | 14.4 | L_4 | S_4 |
| SHD427 | 42" x 7' | 8515/32" | 9217/32" | 17.2 | L_4 | S ₄ |
| SHD428 | 42" x 8' | 9617/32" | 10319/32" | 18.7 | L_4 | S_4 |
| SHD457 | 45" x 7' | 86¾" | 9313/16" | 17.4 | L ₄ | S_4 |
| SHD459 | 45" x 9' | 10813/16" | 115%" | 20.4 | L_4 | S_4 |
| SHD4510 | 45" x 10' | 1201/8" | 127¾16" | 21.9 | L ₄ | S ₄ |
| SHD45 | 4' x 5' | 6727/32" | 7429/3211 | 14.9 | L_4 | S_4 |
| SHD47 | 4' x 7' | 883/32" | 95¾2" | 17.6 | L ₄ | S ₄ |
| SHD547 | 54" x 7' | 911/16" | 98%" | 18.0 | L ₄ | S_4 |
| SHD5410 | 54" x 10' | 1231/32" | 13011/32" | 22.3 | L_4 | S_4 |
| SHD55 | 5' x 5' | 7525/32" | 8227/32" | 15.9 | L_4 | S ₄ |
| SHD57 | 5' x 7' | 945/16" | 101¾" | 18.4 | L ₄ | S ₄ |
| SHD58 | 5' x 8' | 1041/16" | 111½" | 19.8 | L_4 | S_4 |
| SHD59 | 5' x 9' | 11415/16" | 122" | 21.2 | L_4 | S_4 |
| SHD510 | 5' x 10' | 12511/16" | 132¾" | 22.7 | L_4 | S_4 |
| SHD77 | 7' x 7' | 10923/32" | 11625/32" | 20.5 | L_4 | S_4 |
| SHD79 | 7' x 9' | 12727/32" | 13429/32" | 23.0 | L ₄ | S_4 |
| SHD710 | 7' x 10' | 13719/32" | 14421/32" | 24.3 | L_4 | S ₄ |
| SHD99 | 9' x 9' | 14311/16" | 150¾" | 25.1 | L ₄ | S_4 |
| SHD910 | 9' x 10' | 15213/32" | 159¹⁵⁄₃₂" | 26.3 | L_4 | S_4 |
| SHD1010 | 10' x 10' | 160%" | 16711/16" | 27.4 | L_4 | S_4 |

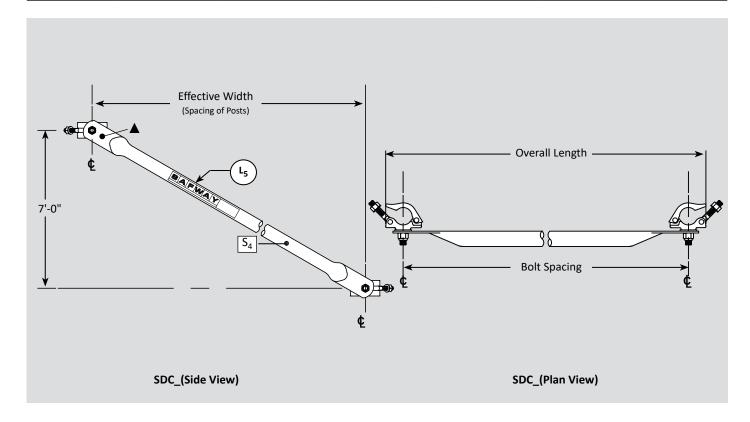
Other horizontal diagonals are available on request.



| Vertical Dia | Vertical Diagonals | | | | | | |
|--------------|--------------------|-------------|----------------|--------|----------------|----------------|--|
| Part No. | Effective Width | Tube Length | Overall Length | Weight | Label | Material | |
| | ft-in | ft-in | ft-in | lb | | | |
| SDW3 | 3'-0" | 7'-511/16" | 8'-05/16" | 18.2 | L ₄ | S ₄ | |
| SDW42 | 3'-6" | 7'-723/32" | 8'-211/32" | 18.5 | L_4 | S ₄ | |
| SDW45 | 3'-9" | 7'-821/32" | 8'-315/32" | 18.6 | L ₄ | S ₄ | |
| SDW4 | 4'-0" | 7'-101/16" | 8'-411/16" | 18.8 | L_4 | S ₄ | |
| SDW54 | 4'-6" | 8'-0¾" | 8'- 73/8" | 19.2 | L ₄ | S ₄ | |
| SDW5 | 5'-0" | 8'-323/32" | 8'-1011/32" | 19.6 | L_4 | S ₄ | |
| SDW6 | 6'-0" | 8'-101/16" | 9'-51/16" | 20.5 | L ₄ | S ₄ | |
| SDW7 | 7'-0" | 9'-61/32" | 10'-021/32" | 21.5 | L ₄ | S ₄ | |
| SDW8 | 8'-0" | 10'-211/32" | 10'-831/32" | 26.1 | L ₄ | S ₆ | |
| SDW9 | 9'-0" | 10'-11¼" | 11'-5%" | 27.5 | L ₄ | S_6 | |
| SDW10 | 10'-0" | 11'-819/32" | 12'-31/32" | 29.1 | L ₄ | S ₆ | |

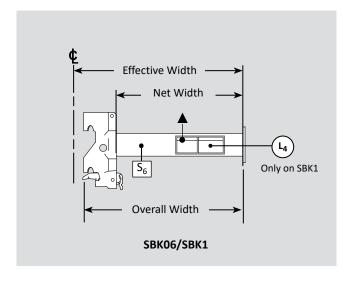


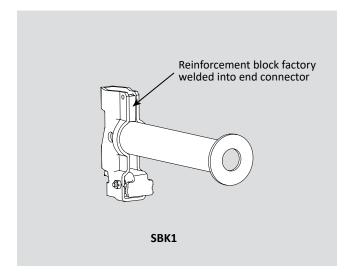
| Vertical Dia | gonals with Clar | mps | | | | |
|--------------|------------------|--------------|----------------|--------|----------------|----------------|
| Part No. | Effective Width | Bolt Spacing | Overall Length | Weight | Label | Material |
| | ft-in | ft-in | ft-in | lb | | |
| SDC3 | 3'-0" | 7'-73/8" | 7'-11%" | 16.8 | L ₅ | S ₄ |
| SDC42 | 3'-6" | 7'-929/32" | 8'-115/16" | 17.2 | L ₅ | S_4 |
| SDC4 | 4'-0" | 8'-0¾" | 8'-4¾" | 17.5 | L ₅ | S_4 |
| SDC54 | 4'-6" | 8'-31/8" | 8'-71/8" | 18.0 | L ₅ | S_4 |
| SDC5 | 5'-0" | 8'-71/32" | 8'-11¼" | 18.5 | L ₅ | S ₄ |
| SDC6 | 6'-0" | 9'-25/8" | 9'-65/8" | 19.4 | L ₅ | S_4 |
| SDC7 | 7'-0" | 9'-1025/32" | 10'-2'3/16" | 20.6 | L ₅ | S_4 |
| SDC8 | 8'-0" | 10'-71/16" | 10'-11%6" | 21.7 | L ₅ | S_4 |
| SDC9 | 9'-0" | 11'-4¹¾16" | 11'-8'3/16" | 23.0 | L ₅ | S_4 |
| SDC10 | 10'-0" | 12'-215/32" | 12'-6½" | 24.3 | L ₅ | S_4 |



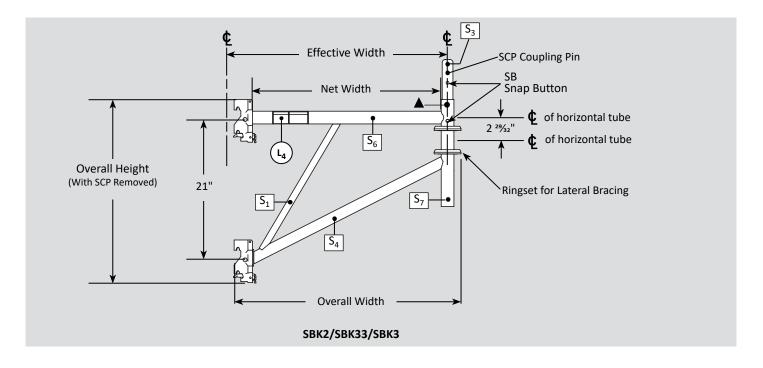
²² Component Identification

| Plank Brackets | | | | | | | |
|----------------|------------------------|-----------|---------------|--------|-------|----------------|--|
| Part No. | Effective Width | Net Width | Overall Width | Weight | Label | Material | |
| | in | in | in | lb | | | |
| SBK06 | 5½" | 15/8" | 4½" | 2.6 | - | S ₆ | |
| SBK1 | 14½" | 105/8" | 13½" | 4.2 | L_4 | S_6 | |

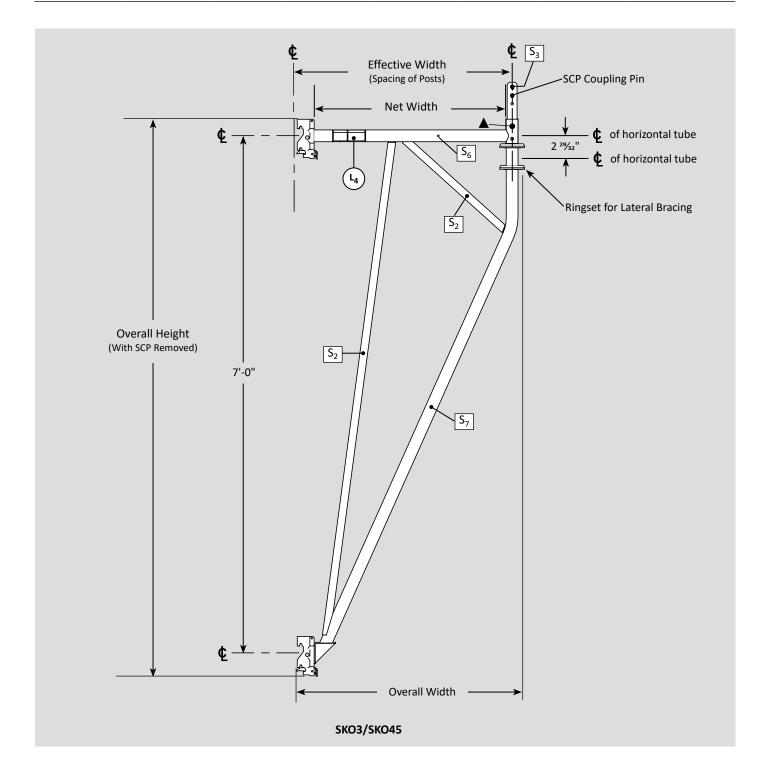




| Side Bracke | Side Brackets | | | | | | |
|-------------|-----------------|-----------|---------------|----------------|--------|----------------|--|
| Part No. | Effective Width | Net Width | Overall Width | Overall Height | Weight | Label | Material |
| | ft-in | ft-in | ft-in | ft-in | lb | | |
| SBK2 | 2'-0" | 1'-7¼" | 2'-015/16" | 2'-3½" | 18.9 | L_4 | S ₁ , S ₃ , S ₄ , S ₆ , S ₇ |
| SBK33 | 2'-9" | 2'-4¼" | 2'-915/16" | 2'-3½" | 21.4 | L_4 | S ₃ , S ₆ , S ₇ |
| SBK3 | 3'-0" | 2'-7¼" | 3'-015/16" | 2'-3½" | 22.3 | L ₄ | S ₃ , S ₆ , S ₇ |

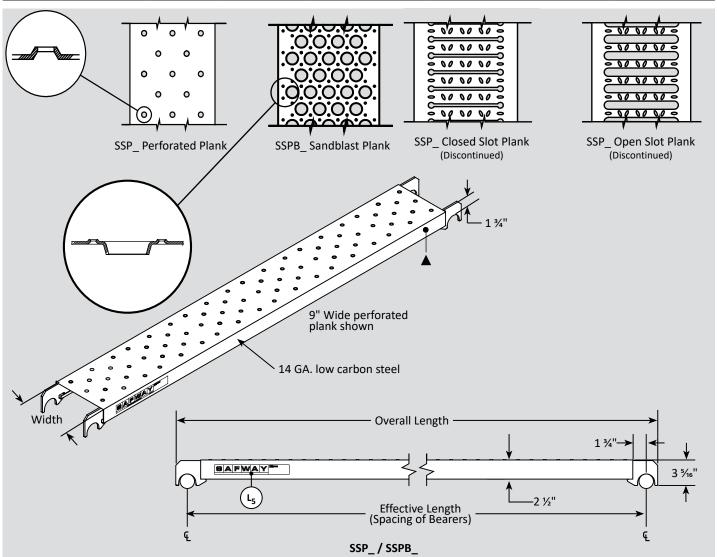


| Knee Out Brackets | | | | | | | |
|-------------------|-----------------|-----------|---------------|----------------|--------|----------------|---|
| Part No. | Effective Width | Net Width | Overall Width | Overall Height | Weight | Label | Material |
| | ft-in | ft-in | ft-in | ft-in | lb | | |
| SKO3 | 3'-0" | 2'-7¼" | 3'-015/16" | 7'-6½" | 42.1 | L ₄ | S ₂ , S ₃ , S ₆ , S ₇ |
| SKO45 | 3'-9" | 3'-4¼" | 3'-915/16" | 7'-6½" | 45.3 | L_4 | S ₂ , S ₃ , S ₆ , S ₇ |

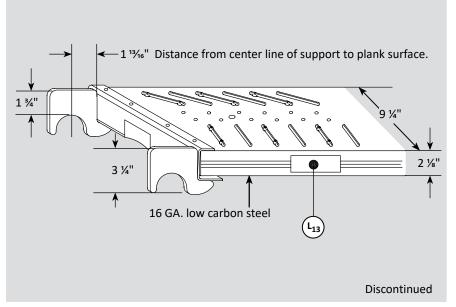


²⁴ Component Identification

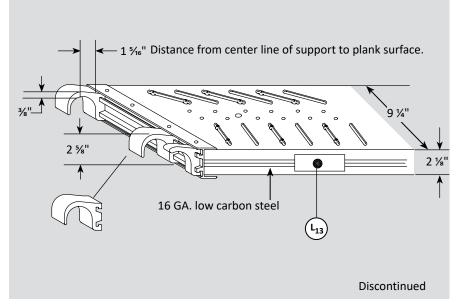
| Width = 6" | | Width = 9' | 1 | | | | | |
|------------|--------|------------|--------|----------|--------|------------------|----------------|----------------|
| Part No. | Weight | Part No. | Weight | Part No. | Weight | Effective Length | Overall Length | Label |
| | lb | | lb | | lb | ft-in | ft-in | |
| SSP62 | 9.9 | SSP2 | 11.4 | SSPB2 | 11.6 | 2'-0" | 2'-3" | L ₅ |
| SSP633 | 12.7 | SSP33 | 14.8 | SSPB33 | 14.8 | 2'-9" | 3'-0" | L ₅ |
| SSP63 | 13.6 | SSP3 | 16.0 | SSPB3 | 15.6 | 3'-0" | 3'-3" | L ₅ |
| SSP642 | 15.4 | SSP42 | 18.2 | SSPB42 | 18.1 | 3'-6" | 3'-9" | L ₅ |
| SSP645 | 16.4 | SSP45 | 19.3 | SSPB45 | 19.1 | 3'-9" | 4'-0" | L ₅ |
| SSP64 | 17.3 | SSP4 | 20.5 | SSPB4 | 20.2 | 4'-0" | 4'-3" | L ₅ |
| SSP654 | 19.1 | SSP54 | 22.7 | SSPB54 | 22.4 | 4'-6" | 4'-9" | L ₅ |
| SSP65 | 21.0 | SSP5 | 24.9 | SSPB5 | 21.4 | 5'-0" | 5'-3" | L ₅ |
| SSP66 | 24.6 | SSP6 | 29.5 | SSPB6 | 28.8 | 6'-0" | 6'-3" | L ₅ |
| SSP67 | 28.3 | SSP7 | 33.9 | SSPB7 | 32.9 | 7'-0" | 7'-3" | L ₅ |
| SSP68 | 32.0 | SSP8 | 38.4 | SSPB8 | 37.4 | 8'-0" | 8'-3" | L ₅ |
| SSP69 | 35.6 | SSP9 | 42.9 | SSPB9 | 41.7 | 9'-0" | 9'-3" | L ₅ |
| SSP610 | 39.3 | SSP10 | 47.4 | SSPB10 | 46.2 | 10'-0" | 10'-3" | L ₅ |



| High Ho | High Hook Duraplank® | | | | | |
|----------|----------------------|--------|-----------------|--|--|--|
| Part No. | Effective Length | Weight | Label | | | |
| | ft-in | lb | | | | |
| SSPH2 | 2'-0" | 10.4 | L ₁₃ | | | |
| SSPH3 | 3'-0" | 14.0 | L ₁₃ | | | |
| SSPH42 | 3'-6" | 15.8 | L ₁₃ | | | |
| SSPH45 | 3'-9" | 16.7 | L ₁₃ | | | |
| SSPH4 | 4'-0" | 17.6 | L ₁₃ | | | |
| SSPH54 | 4'-6" | 19.4 | L ₁₃ | | | |
| SSPH5 | 5'-0" | 21.2 | L ₁₃ | | | |
| SSPH6 | 6'-0" | 24.8 | L ₁₃ | | | |
| SSPH7 | 7'-0" | 28.4 | L ₁₃ | | | |
| SSPH8 | 8'-0" | 32.0 | L ₁₃ | | | |
| SSPH9 | 9'-0" | 35.6 | L ₁₃ | | | |
| SSPH10 | 10'-0" | 39.2 | L ₁₃ | | | |

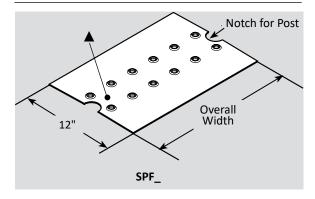


Low Hook Duraplank® Part No. Effective Length Weight Label ft-in lb FSPH2 2'-0" L₁₃ 8.6 FSPH3 3'-0" 12.2 L₁₃ FSPH42 3'-6" 14.0 FSPH45 3'-9" 14.9 L_{13} FSPH4 4'-0" 15.8 L₁₃ FSPH54 4'-6" 17.6 L₁₃ FSPH5 5'-0" 19.4 L₁₃ FSPH6 6'-0" 23.0 L₁₃ FSPH7 7'-0" 26.6 FSPH8 8'-0" 30.2 L₁₃ FSPH9 9'-0" 33.8 L_{13} FSPH10 10'-0" 37.4



| Plank Filler | s | | |
|--------------|----------------------|--------|--|
| Part No. | Overall Width | Weight | |
| | ft-in | lb | |
| SPF18 | 1'-5¾" | 7.0 | |
| SPF2 | 1'-11¾'' | 9.2 | |
| SPF3 | 2'-11¾'' | 13.7 | |
| SPF45 | 3'-8¾" | 17.0 | |

Note: SPF18 only has notch at one end.



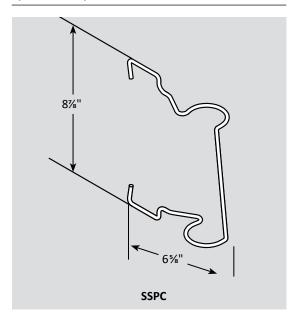
| Metal Toeboards | | | | | | |
|-----------------|------------------|----------------|--------|--|--|--|
| Part No. | Effective Length | Overall Length | Weight | | | |
| | ft-in | ft-in | lb | | | |
| SMT2 | 2'-0" | 2'-21/16" | 7.1 | | | |
| SMT33 | 2'-9" | 2'-111/16" | 8.9 | | | |
| SMT3 | 3'-0" | 3'-21/16" | 9.5 | | | |
| SMT42 | 3'-6" | 3'-81/16" | 10.9 | | | |
| SMT45 | 3'-9" | 3'-11%16" | 11.6 | | | |
| SMT4 | 4'-0" | 4'-21/16" | 12.6 | | | |
| SMT54 | 4'-6" | 4'-81/16" | 14.0 | | | |
| SMT5 | 5'-0" | 5'-21/16" | 14.9 | | | |
| SMT6 | 6'-0" | 6'-21/16" | 18.1 | | | |
| SMT7 | 7'-0" | 7'-21/16" | 20.2 | | | |
| SMT8 | 8'-0" | 8'-21/16" | 23.6 | | | |
| SMT9 | 9'-0" | 9'-21/16" | 25.5 | | | |
| SMT10 | 10'-0" | 10'-29/16" | 28.2 | | | |

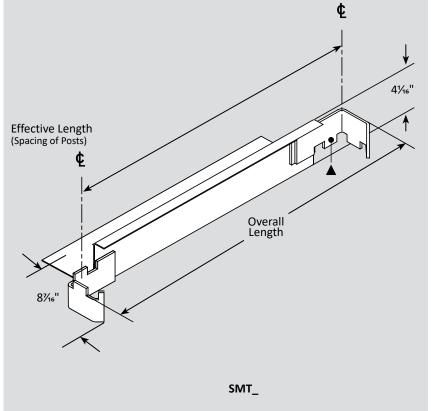
Note: Recommended for use with steel planks.

Steel Plank Clip

| | - |
|----------|--------|
| Part No. | Weight |
| | lb |
| SSPC | 0.2 |
| | |

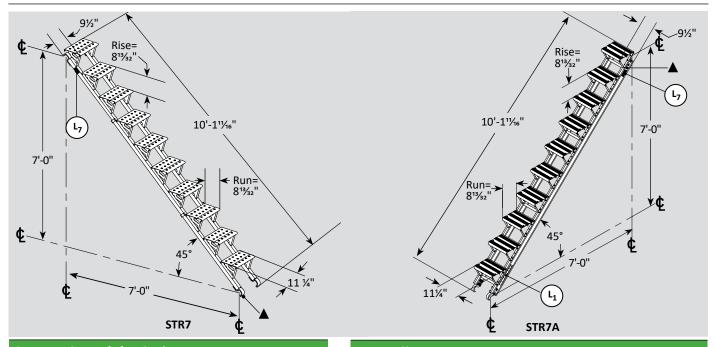
Note: Toeboard clip is needed when steel plank (SSP or SSPH) is used as a toeboard.





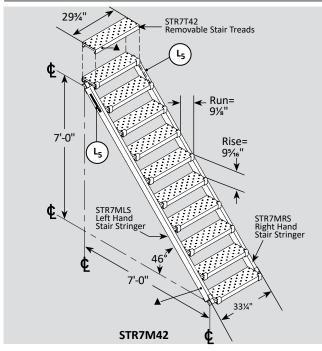
| Stair Units | | | | | |
|-------------|--------|----------------|----------|--|--|
| Part No. | Weight | Label | Material | | |
| | lb | | | | |
| STR7 | 74.2 | L ₇ | Steel | | |
| STR7A | 52.4 | L_1, L_7 | Aluminum | | |

Note: STR42 also available



STR7M42 Modular Stairs

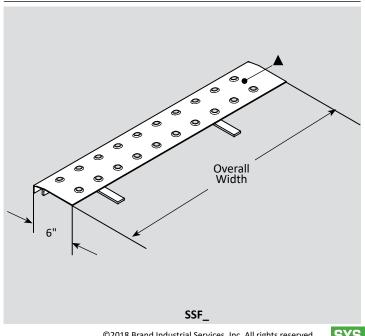
| Part No. | Weight | Label |
|----------|--------|----------------|
| | lb | |
| STR7MLS | 59.5 | L ₅ |
| STR7MRS | 59.5 | L ₅ |
| STR7T42 | 12.0 | |



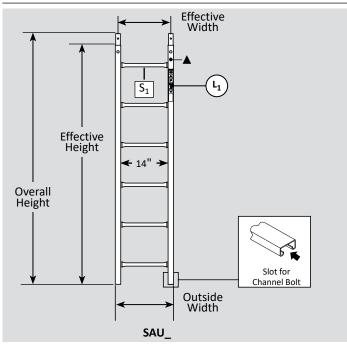
Stair Fillers

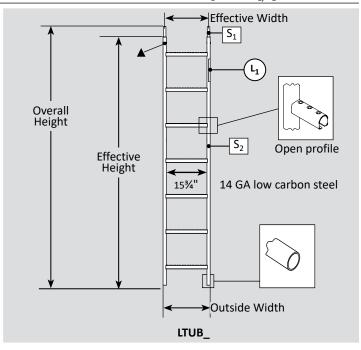
| Part No. | Overall Width | Weight |
|----------|---------------|--------|
| | ft-in | lb |
| SSF3 | 2'-8¾" | 10.3 |
| SSF42 | 3'-2¾" | 9.8 |
| SSF54 | 4'-2¾" | 13.0 |

For use with STR7 and STR7A only.



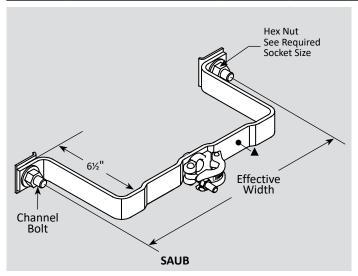
| Scaffold Access Unit | | | | | | | | | |
|----------------------|----------------|------------------|---------------|-----------------|---------|------------|----------------|---------------------------------|--|
| Part No. | Overall Height | Effective Height | Outside Width | Effective Width | Weight | Weight | Label | Material | |
| | | | | | Painted | Galvanized | | | |
| | ft-in | ft-in | ft-in | ft-in | lb | lb | | | |
| SAU3 | 3'-3½" | 3'-0" | 1'-5¼" | 1'-35/8" | 9.6 | 10.7 | L_1 | S ₁ | |
| SAU6 | 6'-3½" | 6'-0" | 1'-5¼" | 1'-35/8" | 18.3 | 20.2 | L_1 | S_1 | |
| LTUB4 | 4'-3½" | 4'-0" | 1'-6¼" | 1'-5" | N/A | 14.2 | L ₁ | S ₁ , S ₂ | |
| LTUB7 | 7'-3½" | 7'-0" | 1'-6¼" | 1'-5" | N/A | 24.1 | L_1 | S_1, S_2 | |

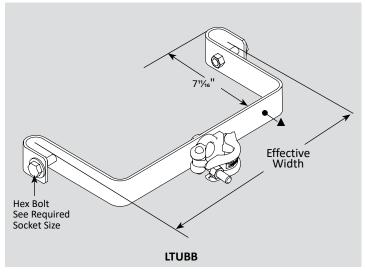




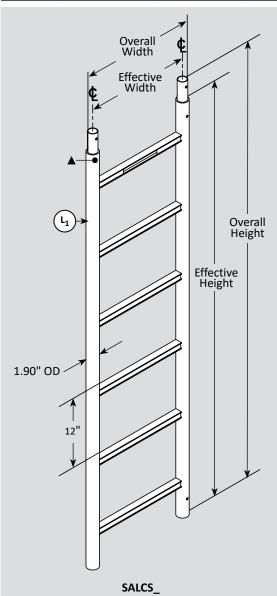
Scaffold Access Unit Bracket

| Part No. | Effective Width | Weight Painted | Weight Galvanized | Required Socket Size |
|----------|-----------------|-------------------|----------------------|----------------------|
| | ft-in | lb | lb | in |
| SAUB | 1'-35/8" | 5.8 | 6.0 | %" |
| LTUBB | 1'-5" | N/A | 6.8 | %" |

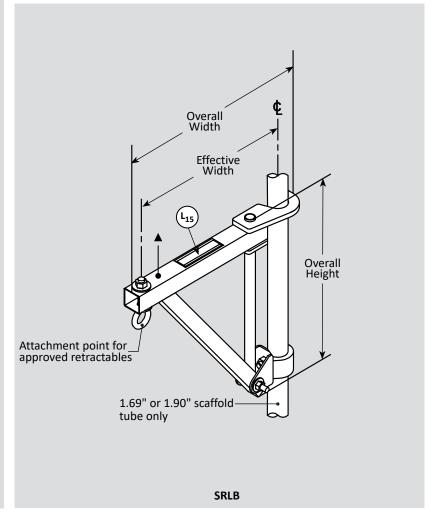




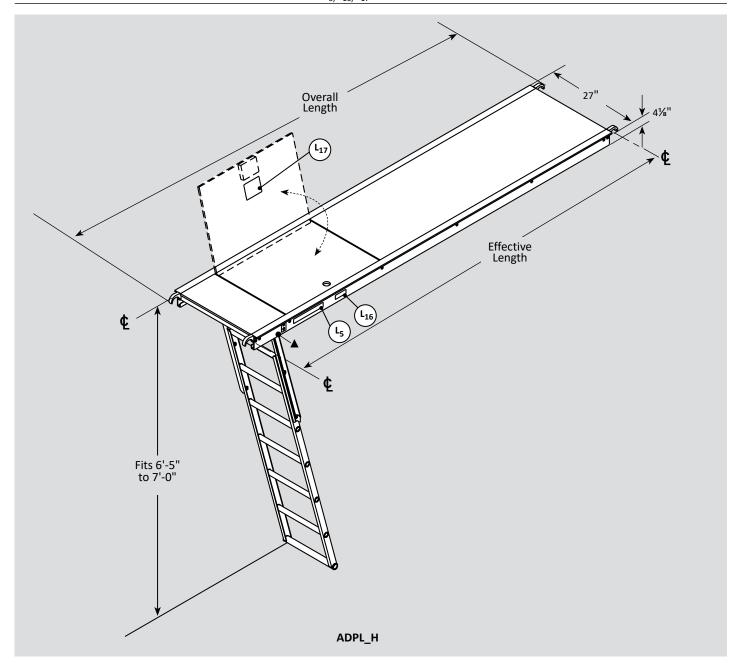
| Pipe Acc | Pipe Access Ladder | | | | | | | |
|----------|--------------------|---------------|------------------|----------------|--------|-------|------------------|--|
| Part No. | Effective Width | Overall Width | Effective Height | Overall Height | Weight | Label | Material | |
| | in | in | ft-in | ft-in | lb | | | |
| SALCS212 | 12¾" | 14¼" | 2'-0" | 2'-3½" | 7.0 | L_1 | 6061-T6 Aluminum | |
| SALCS312 | 12¾" | 14¼" | 3'-0" | 3'-3½" | 9.4 | L_1 | 6061-T6 Aluminum | |
| SALCS612 | 12¾" | 14¼" | 6'-0" | 6'-3½" | 16.8 | L_1 | 6061-T6 Aluminum | |
| SALCS218 | 17%" | 19½" | 2'-0" | 2'-3½" | 7.6 | L_1 | 6061-T6 Aluminum | |
| SALCS318 | 17%" | 19½" | 3'-0" | 3'-3½" | 10.3 | L_1 | 6061-T6 Aluminum | |
| SALCS618 | 17%" | 19½" | 6'-0" | 6'-3½" | 18.6 | L_1 | 6061-T6 Aluminum | |



| Retractable Lifeline Bracket | | | | | | | | | |
|------------------------------|-----------------|---------------|----------------|--------|-------|--|--|--|--|
| Part No. | Effective Width | Overall Width | Overall Height | Weight | Label | | | | |
| | | | | | | | | | |
| | in | in | in | lb | | | | | |

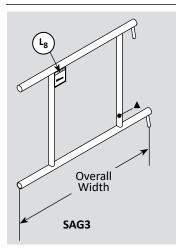


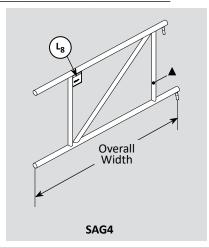
| Hatch D | Hatch Deck | | | | | |
|----------|------------------|----------------|--------|--|--|--|
| Part No. | Effective Length | Overall Length | Weight | Label | | |
| | ft-in | ft-in | lb | | | |
| ADPL7H | 7'-0" | 7'-2¾" | 60.6 | L _{5,} L _{16,} L ₁₇ | | |
| ADPL10H | 10'-0" | 10'-2¾'' | 73.3 | L _{5,} L _{16,} L ₁₇ | | |

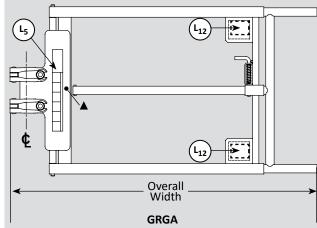


| Access Gates | | | | | | | |
|--------------|---------------|--------|----------------------------------|--|--|--|--|
| Part No. | Overall Width | Weight | Label | | | | |
| | ft-in | lb | | | | | |
| SAG3 | 2'-811/16" | 8.8 | L ₈ | | | | |
| SAG4 | 3'-811/16" | 12.8 | L ₈ | | | | |
| GRGA | *3'-0¾" | 27.9 | L ₅ , L ₁₂ | | | | |

^{*} Dimension is when GRGA is fully telescoped in.

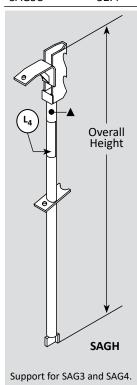


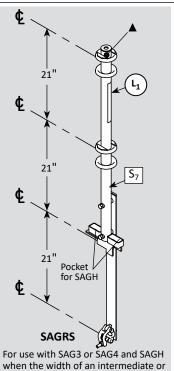


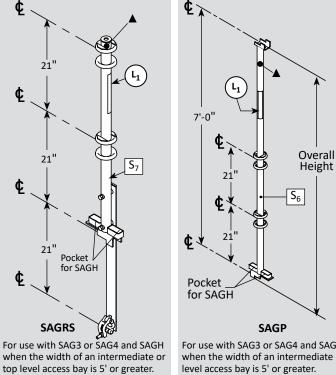


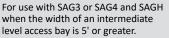
| | alaval. | 1-1-1-1-4 |
|--|---------|-----------|
| | HISYSYI | nents |
| | | |

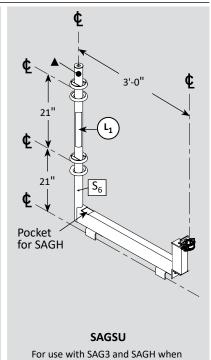
| Part No. | Weight | Overall Height | Label | Material |
|----------|--------|----------------|----------------|----------------|
| | lb | ft-in | | |
| SAGH | 8.0 | 3'-7" | L ₄ | _ |
| SAGRS | 25.5 | 5'-41/16" | L_1 | S ₇ |
| SAGP | 20.6 | 7'-1%" | L ₁ | S_6 |
| SAGSU | 32.4 | _ | L ₁ | Sc |





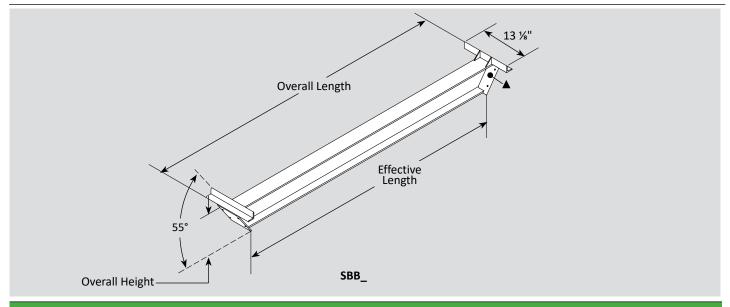






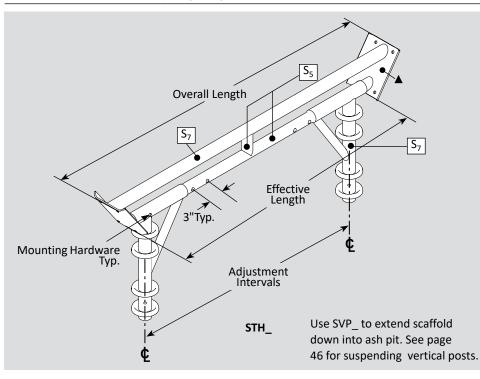
the width of the top scaffold level when access bay is 5' or greater.

| Base Beams | | | | | | | | |
|------------|-------------------------|----------------|----------------|-------------|------------------|--------|--|--|
| Part No. | Effective Length | Overall Length | Overall Height | Beam | Material | Weight | | |
| | ft-in | ft-in | in | in | | lb | | |
| SBB6 | 6'-0" | 7'-01/16" | 8¼" | W6 X 16 | ASTM A36 Steel | 128.2 | | |
| SBBA8 | 8'-0" | 8'-11%" | 111/16" | WF8 X 10.72 | 6061-T6 Aluminum | 107.3 | | |



Throat Headers

| THI GUT TICKED TO | | | | | | | |
|-------------------------|---------|-----------------------------------|------------------|--------|---------------------------------|--|--|
| Part No. Overall Length | | Adjustment Intervals | Effective Length | Weight | Material | | |
| | ft-in | ft-in | ft-in | lb | | | |
| STH4 | 4'-95%" | 1'-6", 2'-0", 2'-6", 3'-0", 3'-6" | 4'-0½" | 41.5 | S ₅ , S ₇ | | |
| STH6 | 6'-5%" | 2'-0", 3'-0", 3'-6" | 5'-8½" | 48.8 | S_5, S_7 | | |



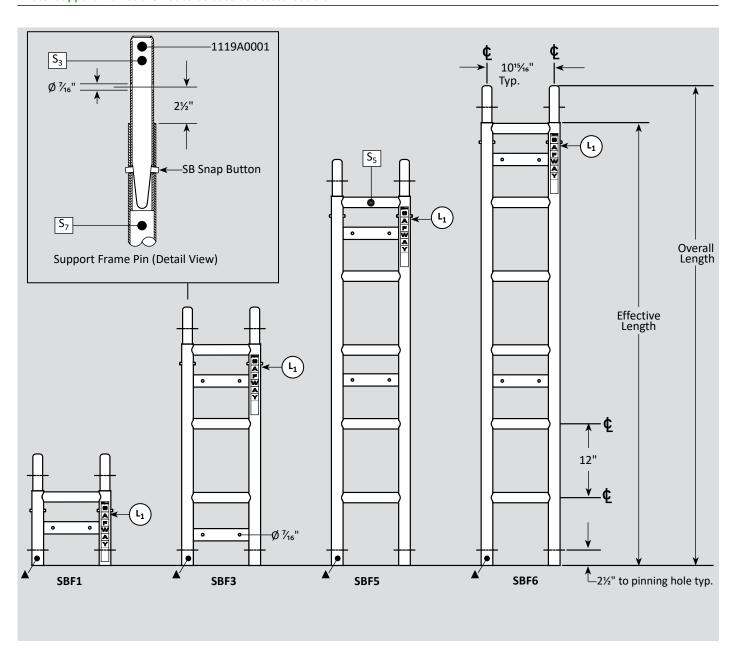
Mounting Hardware

Bolt Nut **Lock Washer** 5163A0002 5143A0802 5182A0002

Replacement Components: 2 bolts and nuts required per throat header

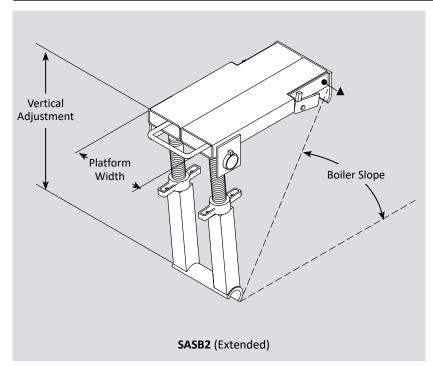
| Support F | Support Frames | | | | | | | |
|-----------|------------------|----------------|--------|----------------|--|--|--|--|
| Part No. | Effective Length | Overall Length | Weight | Label | Material | | | |
| | ft-in | ft-in | lb | | | | | |
| SBF1 | 1'-0" | 1'-6" | 12.7 | L ₁ | S ₃ , S ₅ , S ₇ | | | |
| SBF3 | 3'-0" | 3'-6" | 27.4 | L ₁ | S ₃ , S ₅ , S ₇ | | | |
| SBF5 | 5'-0" | 5'-6" | 39.9 | L_1 | S ₃ , S ₅ , S ₇ | | | |
| SBF6 | 6'-0" | 6'-6" | 46.2 | L_1 | S ₃ , S ₅ , S ₇ | | | |

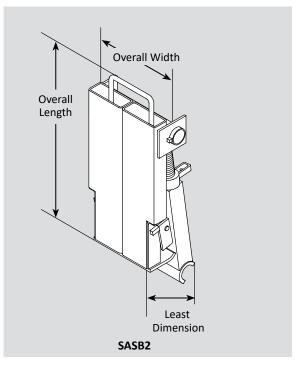
Note: Support Frames are not to be used as access ladders.



³⁴ Component Identification

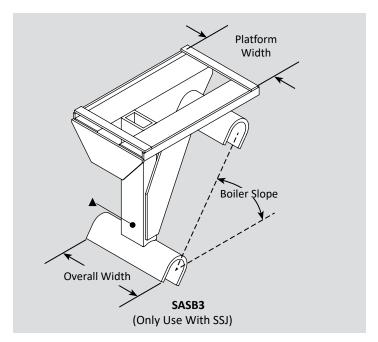
Adjustable Support Bracket Part No. Platform Width Overall Width **Least Dimension Vertical Adjustment Overall Length Boiler Slope** Weight ft-in ft-in ft-in lb in in Min-Max 1'-7" SASB2 10" 1'-01/4" 1'-6½" to 2'-0" 45°-60° 52.3

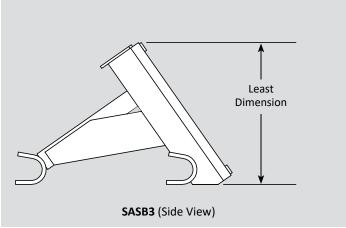




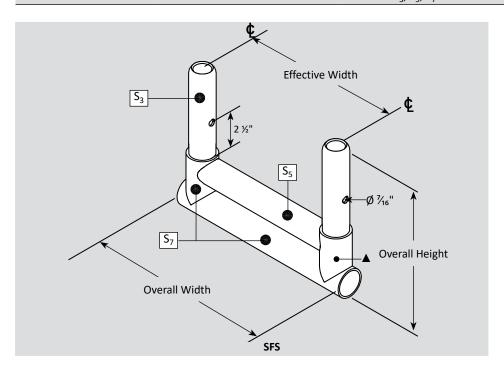
| Fixed Support Bracket | | | | | | | | |
|-----------------------|----------------|---------------|------------------------|---------------------|--------|--|--|--|
| Part No. | Platform Width | Overall Width | Least Dimension | Boiler Slope | Weight | | | |
| | in | in | | | lb | | | |
| SASB3 | 7½" | 83/8" | 11¼" | 55° | 27.1 | | | |

Note: Only SSJ may be used on the SASB3



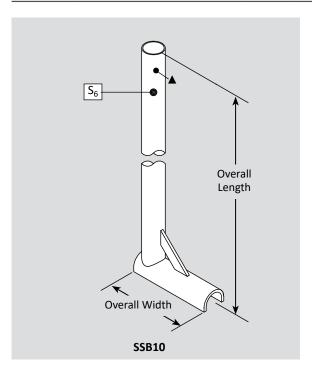


Support Frame Starter Part No. Overall Width ft-in in in lb SFS 1'-1¾6" 10¹5/6" 10¾6" 7.8 S₃, S₅, Sγ



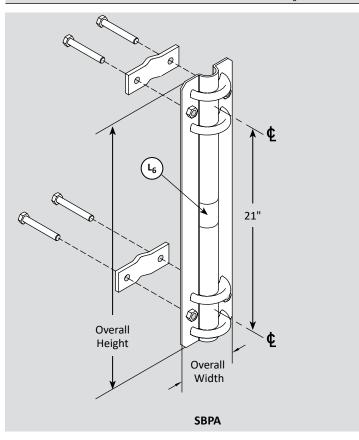
Saddle Brace

| Part No. | Overall Width | Overall Length | Weight | Material |
|----------|---------------|----------------|--------|----------|
| | in | ft-in | lb | |
| | | | II. | |
| SSB10 | 8" | 9'-6½" | 22.2 | S_6 |



Boiler Pendant Adapter

| Part No. | Overall Height | Overall Width | Weight | Label |
|----------|----------------|---------------|--------|----------------|
| | ft-in | in | lb | |
| SBPA | 2'-3¾" | 6" | 15.0 | L ₆ |

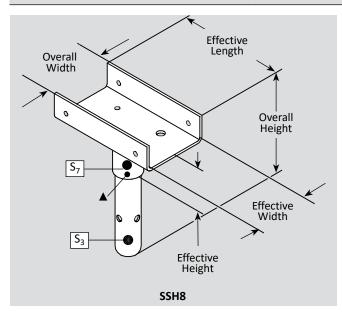


Mounting Hardware

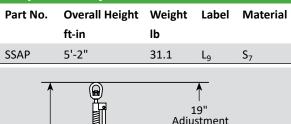
Bolt 03X5159A0001 03X3160A0001

Replacement Components: 4 bolts and 2 plates required per SBPA

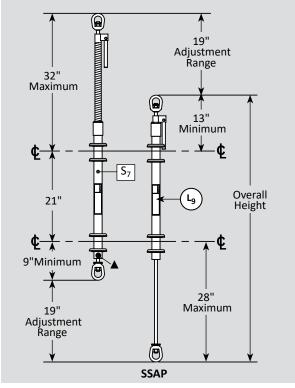
| U-Head | | | | | | | | |
|--------------------------|----|----------------------------|-------|---------------------------------|-----|--------|---------------------------------|--|
| Part No. Effective Lengt | | Effective Width Overall Wi | | Effective Height Overall Height | | Weight | eight Material | |
| | in | in | in | in | in | lb | | |
| SSH8 | 8" | 4" | 43/4" | 33/16" | 11" | 5.6 | S ₃ , S ₇ | |

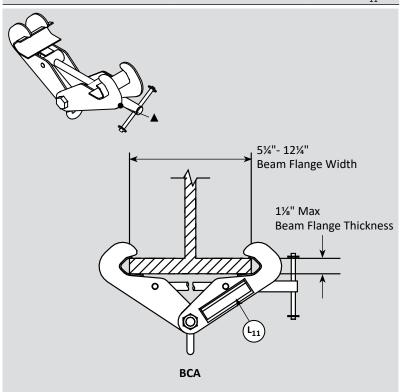


Suspended Adjustable Post Overall Height Weight Label Material ft-in lb 5'-2" 31.1



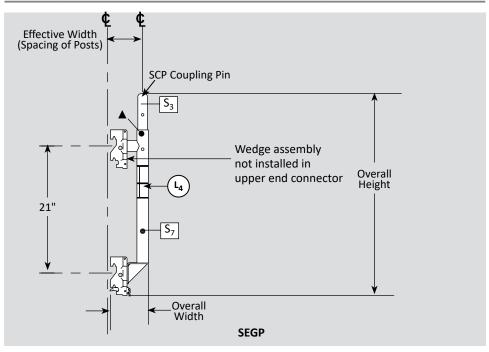
| Adjusta | Adjustable Beam Clamp | | | | | | | |
|----------|-----------------------|-----------------------|--------|-----------------|--|--|--|--|
| Part No. | Beam Flange Width | Beam Flange Thickness | Weight | Label | | | | |
| | in | in | lb | | | | | |
| BCA | 5¼" -12¼" | 1%" | 13.8 | L ₁₁ | | | | |



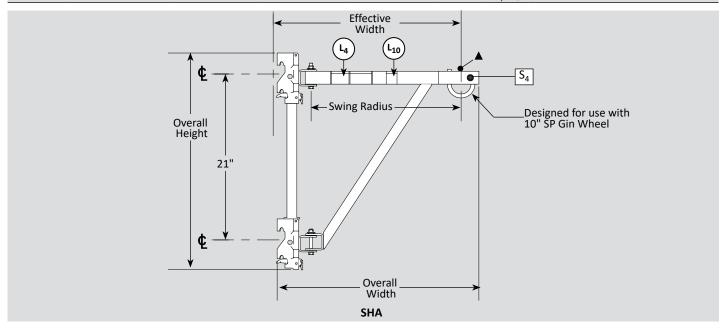


External Guard Rail Post

| Part No. | Overall Height | Overall Width | Effective Width | Weight | Label | Material |
|----------|----------------|---------------|-----------------|--------|-------|---------------------------------|
| | ft-in | in | in | lb | | |
| SEGP | 2'-9¾" | 6¼" | 6¾" | 12.6 | L_4 | S ₃ , S ₇ |

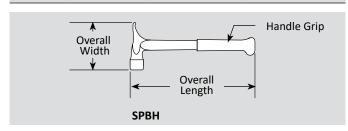


Hoist Arm Part No. **Effective Width Overall Width Overall Height Swing Radius** Weight Label Material ft-in lb ft-in ft-in ft-in 1'-7" 2'-03/8" 2'-11/16" SHA 2'-31/2" 13.5 S_4 L_{4} , L_{10}



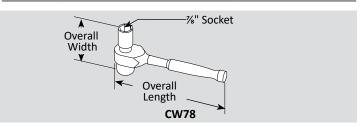
Pry Bar Hammer

| Part No. | Overall Width | Overall Length | Weight |
|----------|---------------|----------------|--------|
| | in | in | lb |
| SPBH | 4½" | 13" | 2.3 |



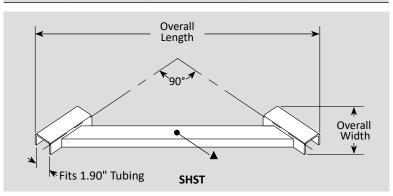
Tube and Clamp Wrench

| Part No. | Overall Width | Overall Length | Weight Ib |
|----------|---------------|----------------|--------------|
| CW78 | 41/8" | 97/16" | 2.2 |



Horizontal Squaring Tool

| Part No. | Overall Width | Overall Length | Weight |
|----------|---------------|----------------|--------|
| | in | ft-in | lb |
| SHST | 5%16" | 2'-5¾" | 10.6 |



Storage Rack Bin

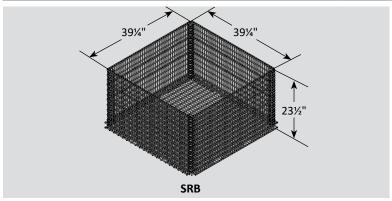
Part No. Weight

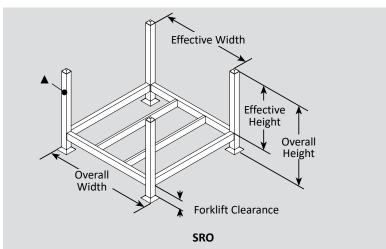
lb

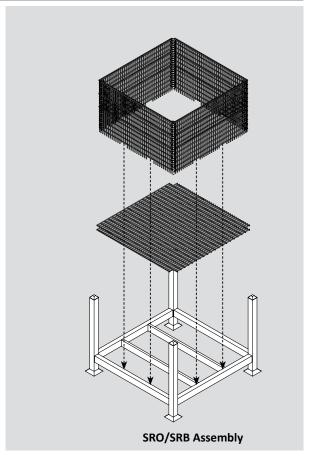
SRB 134.7

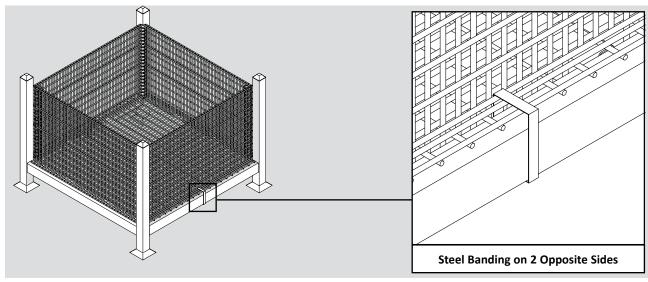
Storage Rack

| Part No. | Effective Width | Effective Height | Overall Width | Overall Height | Forklift Clearance | Weight | Label |
|----------|-----------------|------------------|---------------|----------------|--------------------|--------|----------------|
| | in | in | in | in | in | lb | |
| SRO | 39¼" - 39¾" | 26½ " | 45½" - 46 ¾6" | 34" - 34½ " | 5" | 128.0 | L ₁ |

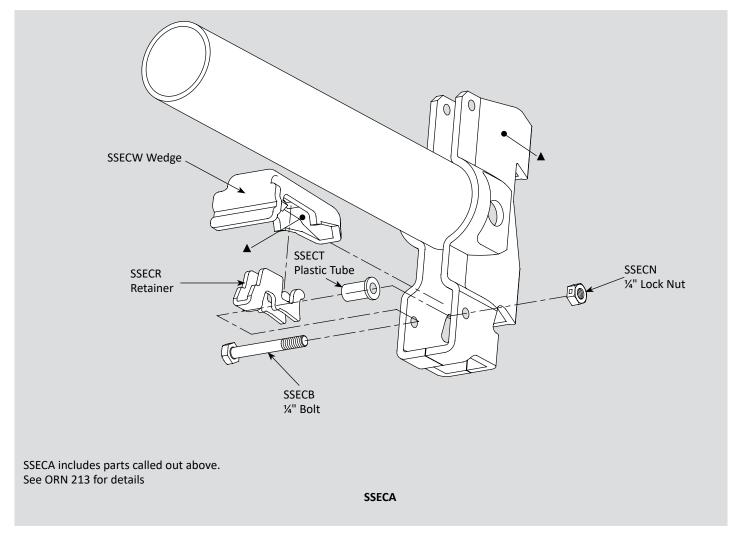








| Wedge | Wedge & Retainer Assembly | | | | |
|----------|---------------------------------|--------|--|--|--|
| Part No. | Description | Weight | | | |
| | | lb | | | |
| SSECT | Plastic Tube | | | | |
| SSECR | Retainer | 0.1 | | | |
| SSECW | Wedge | 0.3 | | | |
| SSECN | ¼" Lock Nut | 0.007 | | | |
| SSECB | ¼" Bolt | 0.03 | | | |
| SSECA | Includes parts called out above | 0.5 | | | |

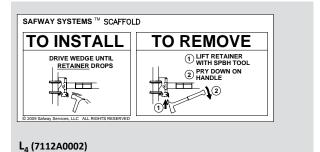


Assembly and Installation Instructions

REPLACE COMPONENT LABELS IF THEY ARE WORN, DEFACED OR ARE ILLEGIBLE. IF REPLACEMENT LABELS ARE NEEDED, CONTACT YOUR LOCAL BRANDSAFWAY BRANCH.









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This equipment is rated in accordance with the recommendation of the Scaffolding, Shoring & Forming Institute. Erection, use, maintenance and disassembly must conform to current Safway Group instructions as well as all federal, state, provincial and local regulations.

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SAFWAY. Group

L₅ (7112A0105)



L₆ (7112A0155)

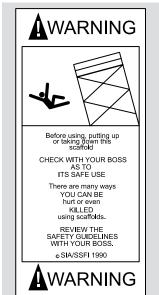


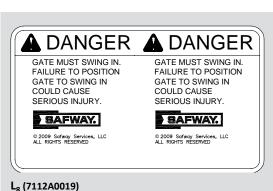
●Do not intermix tread width or heights Minimum stair width 2 units wide (22 inches)

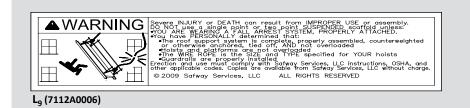
Hand rails/guard rails are required on both sides of stairs and on open sides and ends of all platforms and landings

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L7 (7112A0004)







L₂ (7112A0038)



L₁₀ (7112A0005)



Severe INJURY OR DEATH can result from IMPROPER USE or assembly.

- Use only on STRUCTURAL STEEL beams with flange width between 5 1/4" and 12 1/4" AND with flange thickness less than 1 1/8". Clamp directly on beam flange. USE NO spacers, blocks or fillers.

- Clamp alrectly on beam flange. USE NO spacers, blocks or fillers. Check daily to be sure clamp is tight. Clamp is intended for vertical suspension loads up to 4,000 pounds. USER MUST VERIFY capacity and structural integrity of beam

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L₁₁ (7112A0008)



FALLING HAZARD

GATE MUST SWING IN.

FAILURE TO POSITION GATE CORRECTLY COULD RESULT IN SERIOUS INJURY OR DEATH. **USE WITH INSTRUCTION SHEET ORN 107**

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L₁₂ (7112A0150)



L₁₃ (7112A0101)



FALLING HAZARD

SERIOUS INJURY OR DEATH CAN RESULT FROM YOUR **FAILURE TO FAMILIARIZE** YOURSELF AND COMPLY WITH INSTRUCTIONS ORN 209.

L₁₄ (7112A0164)

WARNING

FALLING HAZARD

Systems[™] Retractable Lifeline Bracket must be used in accordance with instructions ORN 254.

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L₁₅ (7112A0169)

NOTICE

HATCH DECK



DO NOT EXCEED SAFE WORKING LOAD 25 lb./sq. ft.

PD1025

L₁₆ (7112A0156)

WARNING

FALL HAZARD

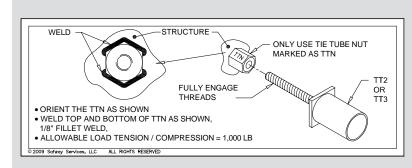
KEEP HATCH CLOSED IF USING AS WORK PLATFORM

FAILURE TO FOLLOW USER INSTRUCTIONS ORN 109 MAY RESULT IN SERIOUS INJURY OR

DEATH

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L₁₇ (7112A0162)



L₁₈ (7112A0171)

Technical Data & Component Allowable Loads

Section 2

This chapter contains illustrations and load ratings for the various BrandSafway Systems™ Components. The load ratings are based on the capacity of assemblies as shown or the individual components only. Refer to Section 3: Assembly Details and the warnings at front of manual before computing the scaffold loads.

Allowable loads specified in this chapter include a safety factor of 4:1. Federal OSHA Regulations require that each scaffold and scaffold component be capable of supporting its own weight and at least 4 times the maximum intended load applied to it. An appropriate dead load safety factor shall be applied to all scaffold designs in accordance with recognized and generally accepted good engineering practices.

When designing scaffolds with unique configurations or special loading conditions, consult with BrandSafway engineering or a qualified engineer familiar with scaffold design prior to design finalization.

Unless otherwise noted, in this section all vertical diagonals can be SDW, SDC or Tube & Clamp with CSA19's. Horizontal diagonals can be SHD or Tube & Clamp with CRA19's. Refer to page 74.

44 Technical Data

| Steel Tube (S ₁ , S ₂ , S ₃ , S ₄) | | | | | |
|---|------------------------|------------------------|------------------------|------------------------|--|
| | S_1 | S ₂ | S ₃ | S ₄ | |
| OD | 1.000 in | 1.250 in | 1.600 in | 1.625 in | |
| Wall | 0.072 in | 0.083 in | 0.120 in | 0.095 in | |
| Area | 0.2099 in ² | 0.3043 in ² | 0.5579 in ² | 0.4566 in ² | |
| Yield | 50,000 psi | 50,000 psi | 50,000 psi | 50,000 psi | |
| Tensile | 60,000 psi | 60,000 psi | 70,000 psi | 70,000 psi | |
| Elongation (min.) | 25% | 25% | 20% | 20% | |
| Section Modulus | 0.0455 in ³ | 0.0833 in ³ | 0.1922 in ³ | 0.1651 in ³ | |
| Moment of Inertia | 0.0227 in ⁴ | 0.0521 in ⁴ | 0.1538 in ⁴ | 0.1341 in ⁴ | |
| Radius of Gyration | 0.3291 in | 0.4136 in | 0.5250 in | 0.5420 in | |

| Steel Tube (S ₅ , S ₆ , S ₇ , S ₈) | | | | | |
|---|------------------------|------------------------|------------------------|--|--|
| | S ₅ | S ₆ | S ₇ | | |
| OD | 1.690 in | 1.900 in | 1.900 in | | |
| Wall | 0.095 in | 0.095 in | 0.120 in | | |
| Area | 0.4760 in ² | 0.5387 in ² | 0.6710 in ² | | |
| Yield | 50,000 psi | 50, 000 psi | 50,000 psi | | |
| Tensile | 70,000 psi | 70,000 psi | 70,000 psi | | |
| Elongation (min.) | 20% | 20% | 20% | | |
| Section Modulus | 0.1798 in ³ | 0.2316 in ³ | 0.2810 in ³ | | |
| Moment of Inertia | 0.1519 in ⁴ | 0.2200 in ⁴ | 0.2670 in ⁴ | | |
| Radius of Gyration | 0.5649 in | 0.6390 in | 0.6308 in | | |

Vertical Post

 Unbraced Post
 *Allowable Compressive Load (See Note 1)

 Length (ft-in)
 lb

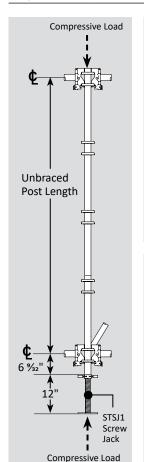
 7'-0"
 4,000

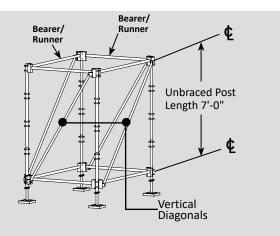
 5'-3"
 5,950

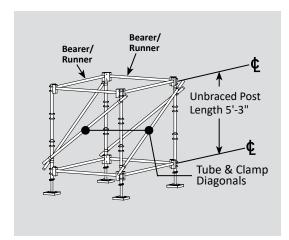
 3'-6"
 7,300

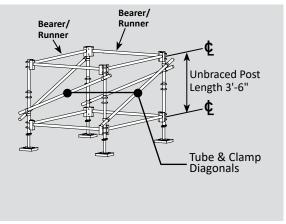
 1'-9"
 8,100

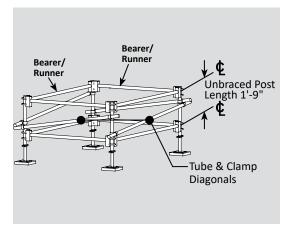
Vertical Diagonals installed at the same vertical increments as bearer/runners. Allowable compressive load is based on Vertical Diagonals connected to vertical posts at the same levels as bearer/runners. Refer to Section 4: Tying & Bracing of this manual for specific bracing requirements. Allowable compressive loads shown are based on the use of the STSJ1 at 12" Screw Jack extension.











Note: Loads shown are based on tests 3 lifts high in accordance with ANSI/SSFI SC-100 Standards for Testing and Rating Scaffold Assemblies and Components.

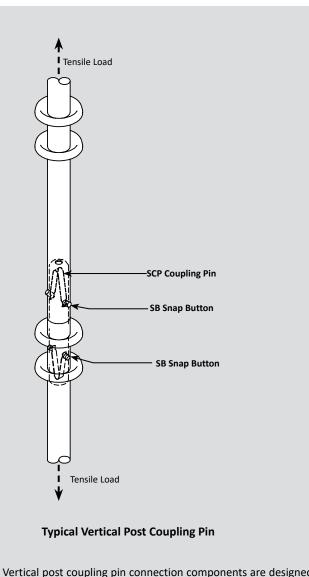
See Section 4 for additional loading information based on various scaffold configurations.

Note 1: Allowable loads shown are based on a maximum bay size of 7'-0" in either direction. When using 10'-0" bays in either direction the load capacity with an unbraced post length of 7'-0" is reduced to 3,800 lb. For bay sizes between 7'-0" to 10'-0", values may be interpolated.

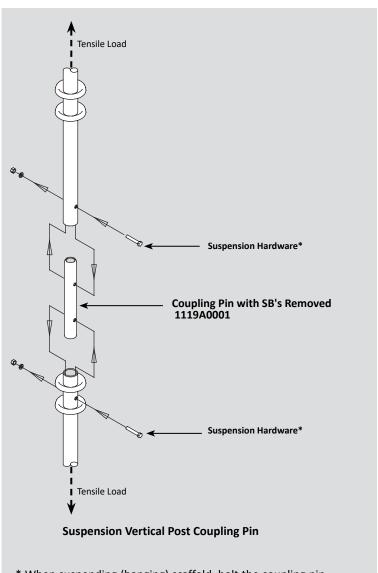
* All allowable compressive loads shown are based on the use of SSC30's and STSJ1's installed at their base. Scaffolds without SSC30's and STSJ1's installed at their base may have reduced capacities. Contact BrandSafway Engineering for these applications.

Contact BrandSafway Engineering for capacities relating to specific applications.

| Vertical Post Coupling Tensile Loads | | | | |
|---|------------------------|--|--|--|
| Coupling Type | Allowable Tensile Load | | | |
| | lb | | | |
| Typical Vertical Post Coupling Pin (Snap Buttons) | 1,100 | | | |
| Suspension Vertical Post Coupling Pin (Bolted) | 2,000 | | | |



Vertical post coupling pin connection components are designed to resist nominal tensile loads, such as those created by uplift and/or overturning loads. Do not use SB when suspending (hanging) scaffolds.



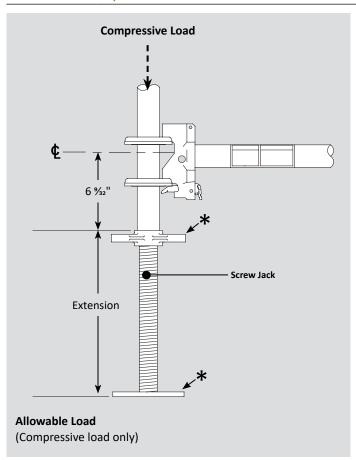
* When suspending (hanging) scaffold, bolt the coupling pin using suspension hardware as follows: Use two %"-16 UNC X 2 $\frac{1}{4}$ " long hex head bolts - Grade 5, $\frac{3}{4}$ " lock washers and $\frac{3}{4}$ "-16 UNC hex nuts.



CAUTION: Do not use SB when lifting, moving or hanging scaffold assemblies.

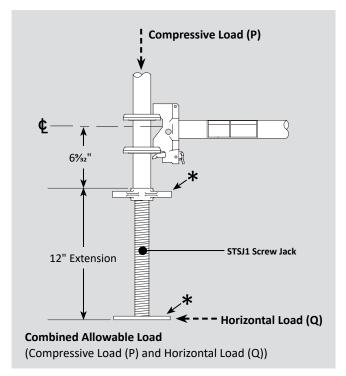
Screw Jacks Vertical Compressive Load Part No. Jack Extension in lb STSJ1 12" 8,100 STSJ2 8" 6,000

Note: See page 45 for allowable compressive load on vertical post. See page 48 for allowable loads on the STSJ1 if horizontal loads are present.



* The STSJ1 and STSJ2 have "Safway" marked into the base plate or jack handle.

STSJ1 Combined Vertical and Horizontal Load



The allowable Compressive Load (P) of the STSJ1 is reduced when it is exposed to any Horizontal Load (Q). Use the chart below to determine the reduced capacity.

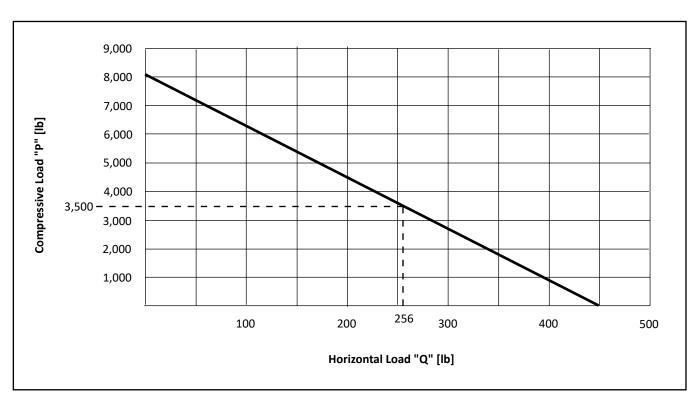
Note: Anchor hole size and locations for Screw Jacks (STSJ1) are noted on page 10.

* The STSJ1 has "Safway" marked into the base plate or jack handle.

Instructions for chart usage:

- Locate the given Horizontal Load (Q) on the horizontal axis of the chart.
- Draw a line vertically from that point until it crosses the interaction line.
- From the intersection point, draw a line horizontally until it crosses the vertical axis of the chart.
- The reduced allowable Compressive Load (P) is taken at the point where the horizonatal line crosses the vertical axis.

Example: A scaffold leg resists a 256 lb Horizontal Load (Q). Following the dotted line in the chart, the maximum allowable Compressive Load (P) would be 3,500 lb with a 12" extension.

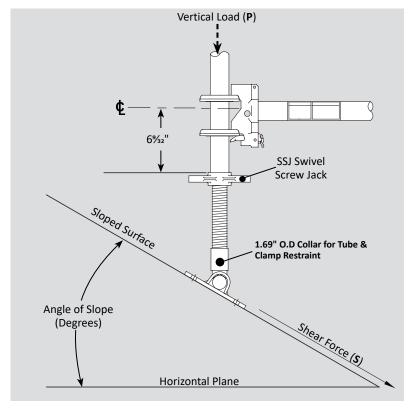


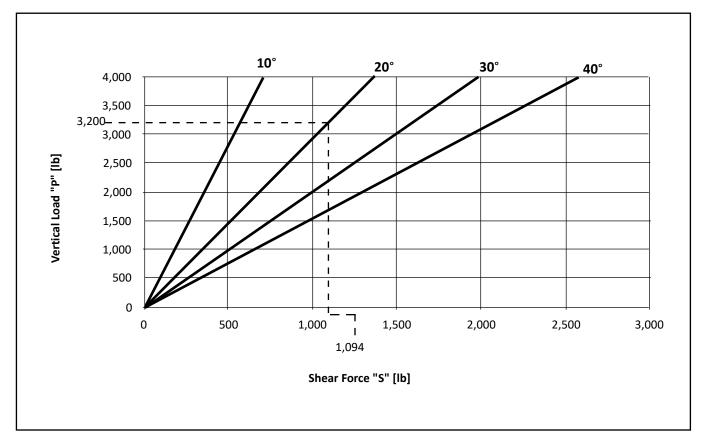
Swivel Screw Jack

Anchor or restrain the Swivel Jack (SSJ) when on sloped surface. Anchors, bolts or restraints need to resist four times the Shear Force determined from the chart. Anchor hole size and locations are noted on page 10.

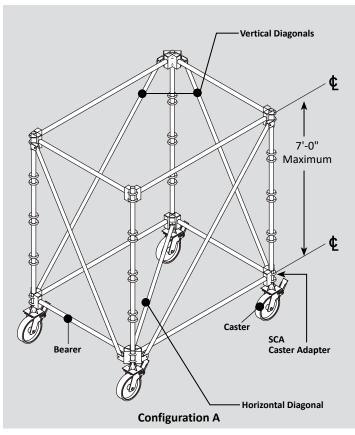
Example: A scaffold vertical post supports a load (P) of 3,200 lb on a 20° slope. A corresponding 1,094 lb shear force is generated as shown by the dotted lines in the chart and arrows on illustration.

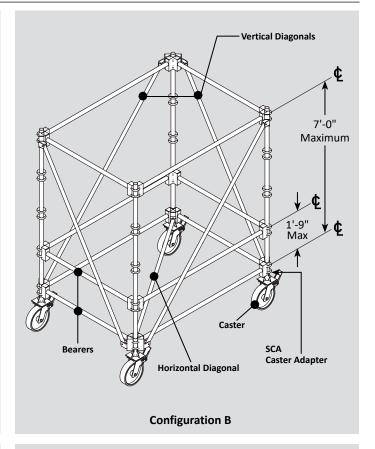
Note: Contact BrandSafway Engineering Department or a qualified engineer familiar with scaffold when slope exceeds 40°. See page 106 for alternate methods of restraint

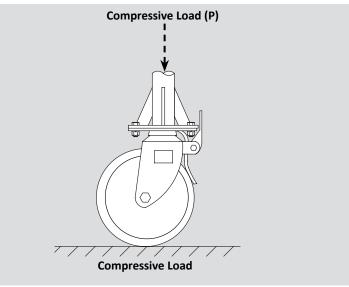


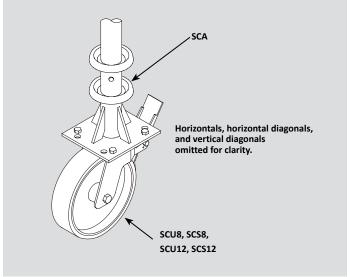


| Casters | | | | | | |
|----------|--|--|--|--|--|--|
| | Configuration A | Configuration B | | | | |
| Part No. | Allowable Rolling or Static Compressive Load | Allowable Rolling or Static Compressive Load | | | | |
| | lb | lb | | | | |
| SCS8 | 900 | 900 | | | | |
| SCU8 | 900 | 900 | | | | |
| SCS12 | 900 | 1,700 | | | | |
| SCU12 | 900 | 1,700 | | | | |









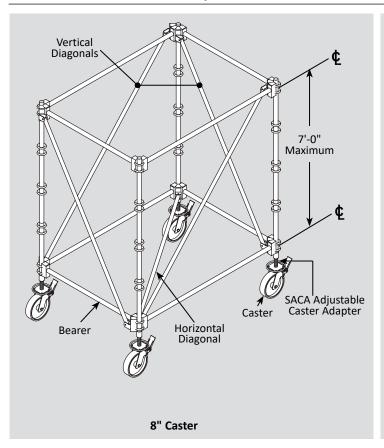
Adjustable Caster Adapter

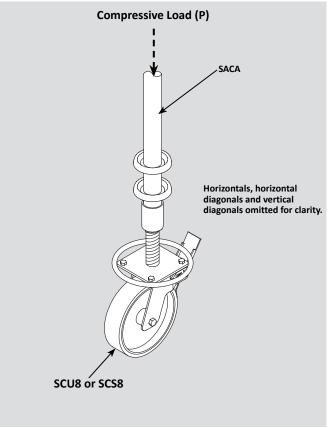
Part No. Allowable Rolling or Static Compressive Load

lb

SCS8 900 SCU8 900

For use with 8" diameter casters only.

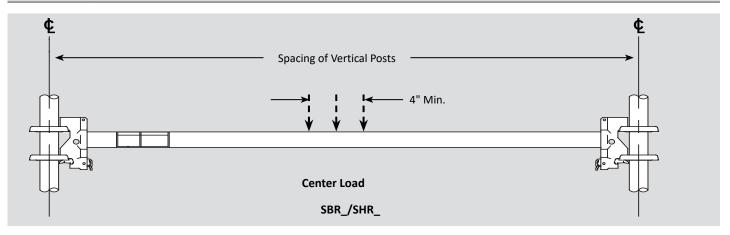


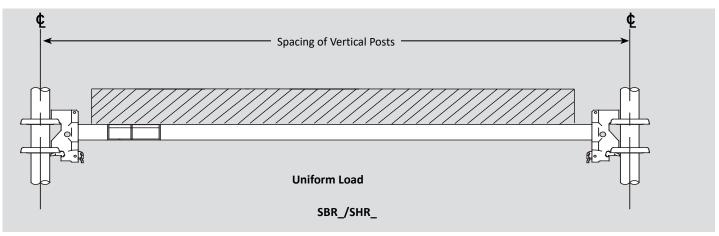


| Bearers | | | | | | |
|----------|--------------|-----------------------|------------------------|-------|--|--|
| Part No. | Post Spacing | Allowable Center Load | Allowable Uniform Load | | | |
| | ft-in | lb | lb | lb/ft | | |
| SBR2 | 2'-0" | 1,350 | 2,700 | 1,350 | | |
| SBR33 | 2'-9" | 800 | 1,675 | 610 | | |
| SBR3 | 3'-0" | 725 | 1,500 | 500 | | |
| SBR42 | 3'-6" | 725 | 1,575 | 450 | | |
| SBR45 | 3'-9" | 550 | 1,125 | 300 | | |
| SBR4 | 4'-0" | 640 | 1,320 | 330 | | |
| SBR54 | 4'-6" | 570 | 1,170 | 260 | | |
| SBR5 | 5'-0" | 500 | 1,050 | 210 | | |

Note: Best practice is to use SBR and STB members to support scaffold platforms. Contact BrandSafway Engineering for conditions not shown in table above or pages 53-58.

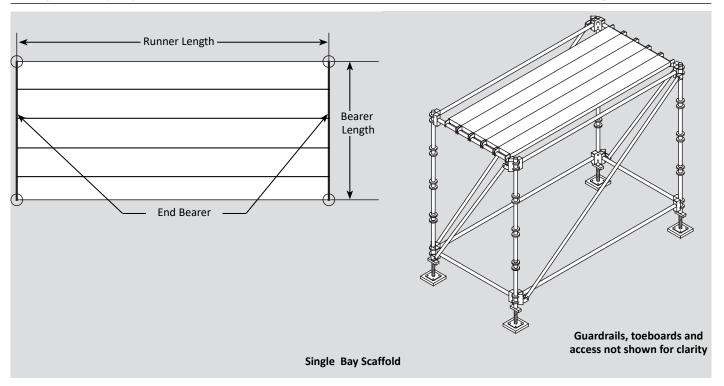
| Runners | | | | | |
|----------|--------------|-----------------------|-----------------------|-------|--|
| Part No. | Post Spacing | Allowable Center Load | Allowable Uniform Loa | d | |
| | ft-in | lb | lb | lb/ft | |
| SHR6 | 6'-0" | 344 | 667 | 124 | |
| SHR7 | 7'-0" | 289 | 562 | 88 | |
| SHR8 | 8'-0" | 249 | 486 | 66 | |
| SHR9 | 9'-0" | 218 | 428 | 51 | |
| SHR10 | 10'-0" | 195 | 382 | 40 | |





| Single B | ay Scaffold Be | earers | | | | | | | | | | | | |
|----------|----------------|--------|-----|-------|-----|-----|---------|---------|----------|--------------------|-------|-------|-------|--------|
| | | | | | | | Runr | ner Len | gth (in) | | | | | |
| Part No. | Bearer Length | 2'-0" | 33" | 3'-0" | 42" | 45" | 4'-0" | 54" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 10'-0" |
| | ft-in | | | | | Al | lowable | Bearer | Load (lb | /ft ²) | | | | |
| SBR2 | 2'-0" | 1,350 | 980 | 900 | 770 | 720 | 670 | 600 | 540 | 450 | 380 | 330 | 300 | 270 |
| SBR33 | 2'-9" | 610 | 440 | 400 | 340 | 320 | 300 | 270 | 240 | 200 | 170 | 150 | 130 | 120 |
| SBR3 | 3'-0" | 500 | 360 | 330 | 280 | 260 | 250 | 220 | 200 | 160 | 140 | 120 | 110 | 100 |
| SBR42 | 3'-6" | 450 | 320 | 300 | 250 | 240 | 220 | 200 | 180 | 150 | 120 | 110 | 100 | 90 |
| SBR45 | 3'-9" | 300 | 210 | 200 | 170 | 160 | 150 | 130 | 120 | 100 | 80 | 70 | 60 | 60 |
| SBR4 | 4'-0" | 330 | 240 | 220 | 180 | 170 | 160 | 140 | 130 | 110 | 90 | 80 | 70 | 60 |
| SBR54 | 4'-6" | 260 | 190 | 170 | 140 | 130 | 130 | 110 | 100 | 80 | 70 | 60 | 50 | 50 |
| SBR5 | 5'-0" | 210 | 150 | 140 | 120 | 110 | 100 | 90 | 80 | 70 | 60 | 50 | 40 | 40 |

Note: This chart is based on bearer strength only. Determine the maximum allowable deck load from either deck material strength, vertical post load capacity, or the chart above, whichever is less. Load values include live load and all dead loads, decking, etc.

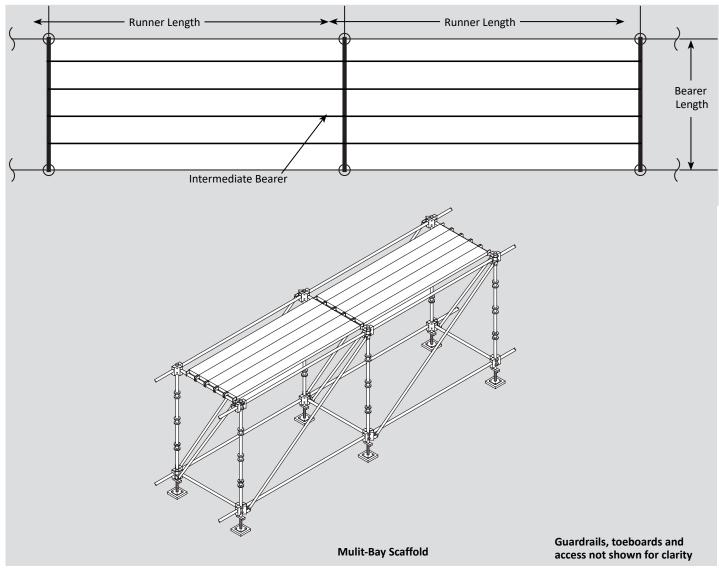


Example: A scaffold bay is constructed using SBR5s and SHR10s. The planking material typically used weighs from 3 to 6 lb/ft 2 . Based on bearer capacity, the allowable platform load is: 40 lb/ft 2 (from chart above) - 5 lb/ft 2 (woodplank) = 35 lb/ft 2 .

⁵⁴ Component Allowable Loads

| Multi Ba | y Scaffold Bear | ers | | | | | | | | | | | | |
|----------|-----------------|-------|--------------------|-------|-----|-----|--------|--------|----------|--------------------|-------|-------|-------|--------|
| | | | Runner Length (in) | | | | | | | | | | | |
| Part No. | Bearer Length | 2'-0" | 33" | 3'-0" | 42" | 45" | 4'-0" | 54" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 10'-0" |
| | ft-in | | | | | All | owable | Bearer | Load (lb | /ft ²) | | | | |
| SBR2 | 2'-0" | 675 | 490 | 450 | 385 | 360 | 335 | 300 | 270 | 225 | 190 | 165 | 150 | 135 |
| SBR33 | 2'-9" | 305 | 220 | 200 | 170 | 160 | 150 | 135 | 120 | 100 | 85 | 75 | 65 | 60 |
| SBR3 | 3'-0" | 250 | 180 | 165 | 140 | 130 | 125 | 110 | 100 | 80 | 70 | 60 | 55 | 50 |
| SBR42 | 3'-6" | 225 | 160 | 150 | 125 | 120 | 110 | 100 | 90 | 75 | 60 | 55 | 50 | 45 |
| SBR45 | 3'-9" | 150 | 105 | 100 | 85 | 80 | 75 | 65 | 60 | 50 | 40 | 35 | 30 | 30 |
| SBR4 | 4'-0" | 165 | 120 | 110 | 90 | 85 | 80 | 70 | 65 | 55 | 45 | 40 | 35 | 30 |
| SBR54 | 4'-6" | 130 | 95 | 85 | 70 | 65 | 65 | 55 | 50 | 40 | 35 | 30 | 25 | 25 |
| SBR5 | 5'-0" | 105 | 75 | 70 | 60 | 55 | 50 | 45 | 40 | 35 | 30 | 25 | 20 | 20 |

Note: This chart is based on bearer strength only. Determine the maximum allowable deck load from either deck material strength, vertical post load capacity, or the chart above, whichever is less. Load values include live load and all dead loads, decking, etc.

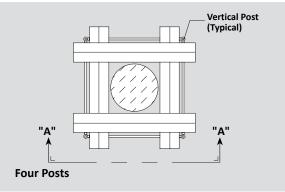


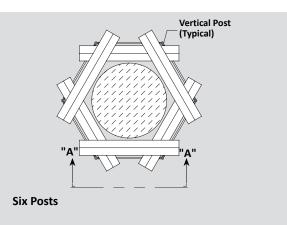
See example calculation on page 53.

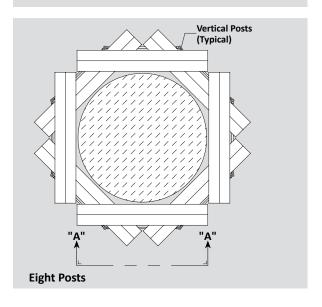
Horizontal Runners - Single Post Circular Scaffold Allowable Loads

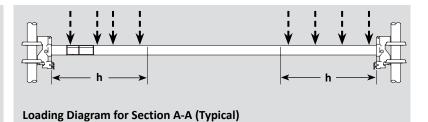
| Number of Vertical Posts | Loading Distance (h) | Allowable Uniform L | oad on Distance h |
|---------------------------------|----------------------|---------------------|-------------------|
| in Tower | in | lb | lb/ft |
| 4 | 19" | 585 | 370 |
| 6 | 22" | 500 | 270 |
| 8 | 27" | 400 | 180 |

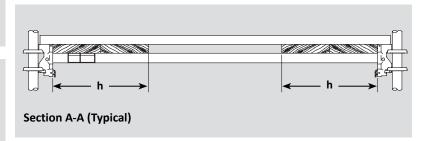
Note: This chart is based on runner strength only. Determine the maximum allowable deck load from either platform material strength, vertical post load capacity or the chart above, whichever is less.











Platforms may rest on runners if platform area is located close to the posts, does not exceed dimension "h" and the allowable load table above.

Note: Dimension "h" is based on two 2" x 10" lumber scaffold planks. If wider platforms are required, contact BrandSafway Engineering or a qualified engineer familiar with scaffold design prior to design finalization.

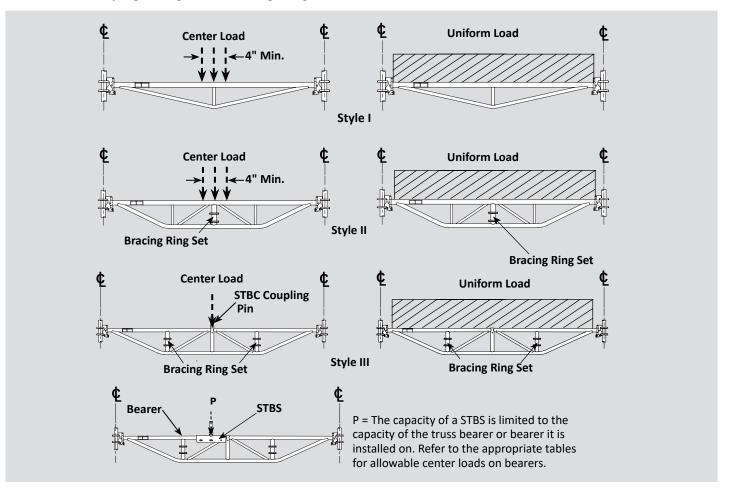
| Truss Bear | Truss Bearers Styles I and II | | | | | | | | | |
|------------|-------------------------------|--------------|-----------------------|-----------|--------------|--|--|--|--|--|
| Part No. | Style | Post Spacing | Allowable Center Load | Allowable | Uniform Load | | | | | |
| | | ft-in | lb | lb | lb/ft | | | | | |
| STB6 | 1 | 6'-0" | 1,875 | 3,750 | 625 | | | | | |
| STB7 | I | 7'-0" | 1,650 | 3,300 | 470 | | | | | |
| STB8 | П | 8'-0" | 2,200 | 4,400 | 550 | | | | | |
| STB9 | П | 9'-0" | 2,200 | 4,400 | 488 | | | | | |

Note: Brace Style II Truss Bearer to adjacent Truss Bearers at center ring set when supporting vertical loads.

| Truss Bea | Truss Bearers Style III | | | | | | | |
|-----------|-------------------------|-----------------------|-----------|----------------|--|--|--|--|
| Part No. | Post Spacing | Allowable Center Load | Allowable | e Uniform Load | | | | |
| | ft-in | lb | lb | lb/ft | | | | |
| STB10 | 10'-0" | 2,200 | 4,400 | 440 | | | | |
| STB12 | 12'-0" | 2,200 | 4,400 | 367 | | | | |
| STB14 | 14'-0" | 1,800 | 3,600 | 257 | | | | |
| STB16 | 16'-0" | 1,800 | 3,600 | 225 | | | | |
| STB18 | 18'-0" | 1,800 | 3,600 | 200 | | | | |

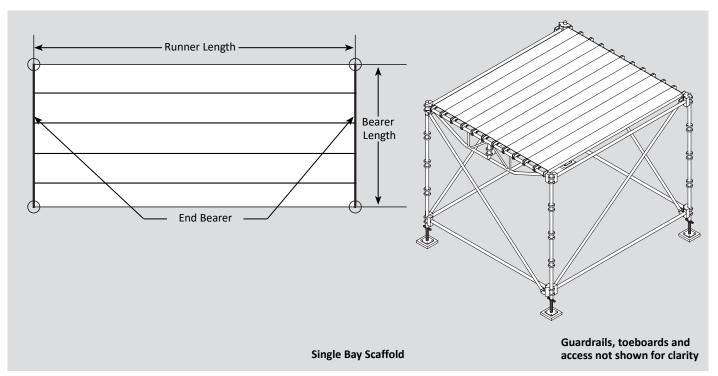
Note: Brace Style III Truss Bearer to adjacent Truss Bearers at both bracing ring sets when supporting vertical loads.

Contact BrandSafway Engineering for other bracing configurations.



| Single B | ay Scaffold Ti | russ B | earers | | | | | | | | | | | | |
|----------|----------------|--------|--------|-----|-------|-----|------|---------|--------|----------|--------------------|-------|-------|-------|--------|
| | | | | | | | | Runn | er Len | gth (in) | | | | | |
| Part No. | Bearer Length | Style | 2'-0" | 33" | 3'-0" | 42" | 45" | 4'-0" | 54" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 10'-0" |
| | ft-in | | | | | | Allo | wable E | Bearer | Load (Ik | /ft ²) | | | | |
| STB6 | 6'-0" | I | 620 | 450 | 410 | 350 | 330 | 310 | 270 | 250 | 200 | 170 | 150 | 130 | 120 |
| STB7 | 7'-0" | 1 | 470 | 340 | 310 | 270 | 250 | 230 | 210 | 180 | 150 | 130 | 110 | 100 | 90 |
| STB8 | 8'-0" | II | 550 | 400 | 360 | 310 | 290 | 270 | 240 | 220 | 180 | 150 | 130 | 120 | 110 |
| STB9 | 9'-0" | П | 480 | 350 | 320 | 280 | 260 | 240 | 210 | 190 | 160 | 140 | 120 | 100 | 90 |
| STB10 | 10'-0" | Ш | 440 | 320 | 290 | 250 | 230 | 220 | 190 | 170 | 140 | 120 | 110 | 90 | 80 |
| STB12 | 12'-0" | Ш | 360 | 260 | 240 | 210 | 190 | 180 | 160 | 140 | 120 | 100 | 90 | 80 | 70 |
| STB14 | 14'-0" | Ш | 250 | 180 | 170 | 140 | 130 | 120 | 110 | 100 | 80 | 70 | 60 | 50 | 50 |
| STB16 | 16'-0" | Ш | 220 | 160 | 150 | 120 | 120 | 110 | 100 | 90 | 70 | 60 | 50 | 50 | 40 |
| STB18 | 18'-0" | Ш | 200 | 140 | 130 | 110 | 100 | 100 | 80 | 80 | 60 | 50 | 50 | 40 | 40 |

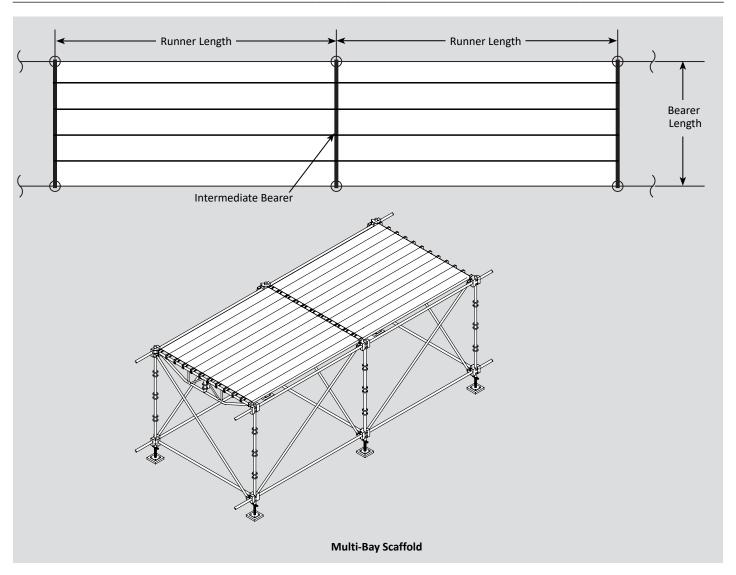
Note: This chart is based on truss bearer strength only. Determine the maximum allowable deck load from either deck material strength, vertical post load capacity, or the chart above, whichever is less. Load values include live load and all dead loads, decking, etc.



See example calculation on page 53.

| Multi-E | Bay Scaffold T | russ Be | earers | | | | | | | | | | | | |
|----------|----------------|---------|--------|--------------------|-------|-----|-----|---------|---------|---------|-----------------------|-------|-------|-------|--------|
| | | | | Runner Length (in) | | | | | | | | | | | |
| Part No. | Bearer Length | Style | 2'-0" | 33" | 3'-0" | 42" | 45" | 4'-0" | 54" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 10'-0" |
| | ft-in | | | | | | ļ | Allowab | le Bear | er Load | (lb/ft ²) | | | | |
| STB6 | 6'-0" | 1 | 310 | 225 | 205 | 175 | 165 | 155 | 135 | 125 | 100 | 85 | 75 | 65 | 60 |
| STB7 | 7'-0" | 1 | 235 | 170 | 155 | 135 | 125 | 115 | 105 | 90 | 75 | 65 | 55 | 50 | 45 |
| STB8 | 8'-0" | II | 275 | 200 | 180 | 155 | 145 | 135 | 120 | 110 | 90 | 75 | 65 | 60 | 55 |
| STB9 | 9'-0" | II | 240 | 175 | 160 | 140 | 130 | 120 | 105 | 95 | 80 | 70 | 60 | 50 | 45 |
| STB10 | 10'-0" | Ш | 220 | 160 | 145 | 125 | 115 | 110 | 95 | 85 | 70 | 60 | 55 | 45 | 40 |
| STB12 | 12'-0" | Ш | 180 | 130 | 120 | 105 | 95 | 90 | 80 | 70 | 60 | 50 | 45 | 40 | 35 |
| STB14 | 14'-0" | Ш | 125 | 90 | 85 | 70 | 65 | 60 | 55 | 50 | 40 | 35 | 30 | 25 | 25 |
| STB16 | 16'-0" | Ш | 110 | 80 | 75 | 60 | 60 | 55 | 50 | 45 | 35 | 30 | 25 | 25 | 20 |
| STB18 | 18'-0" | Ш | 100 | 70 | 65 | 55 | 50 | 50 | 40 | 40 | 30 | 25 | 25 | 20 | 20 |

Note: This chart is based on truss bearer strength only. Determine the maximum allowable deck load from either deck material strength, vertical post load capacity, or the chart above, whichever is less. Load values include live load and all dead loads, decking, etc.



See example calculation on page 53.

Stair Units

Part No. Allowable Concentrated Load P (at two places)

lb

 STR7
 350

 STR7A
 350

STR7M42 350

Adjustable Beam Clamp

Part No. Allowable Suspension Load P

lb

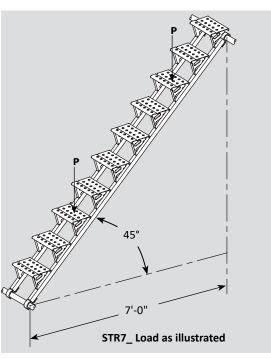
BCA 4,000

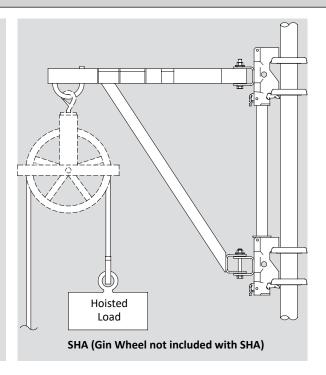
Hoist Arm

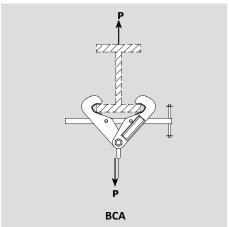
Part No. Maximum Hoisted Load

lb

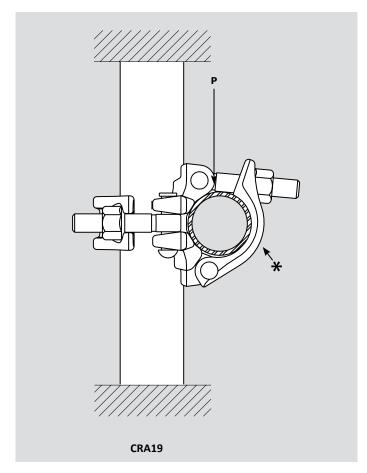
SHA 100

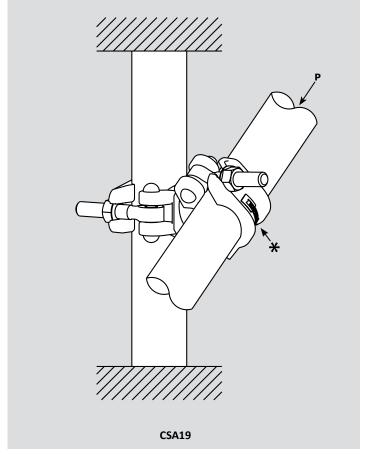






| Dual Purp | Dual Purpose Forged Clamps | | | | | | | | |
|------------------|----------------------------|--------------------|--------------------|--------------------|-------------------------------|--|--|--|--|
| Part No. | Tube | Finish | Bolt Torque | Allowable Load (P) | Use | | | | |
| | | | ft-lb | lb | | | | | |
| CRA19 | S7 | Hot Dip Galvanized | | 925 | Drimary structural load | | | | |
| | S6 | Pre-Galvanized | 45 | 825 | Primary structural load | | | | |
| | S5 | Powder Paint | | 750 | bearing application | | | | |
| CSA19 | S7 | Hot Dip Galvanized | | 925 | Cocondon, stobility and suppl | | | | |
| | S6 | Pre-Galvanized | 45 | 825 | Secondary stability and sway | | | | |
| | S5 | Powder Paint | | 750 | load applications. | | | | |





Best Practices: Use CRA19 (right angle) clamps for supporting primary (scaffold platform) loads such as planked bearers, knee bracing of cantilevered scaffold bays, hanging legs and knee bracing of runners used as bearers. It is also recommended to use CRA19 clamps for all connections where tubes intersect at right angles such as runners attached to scaffold legs.

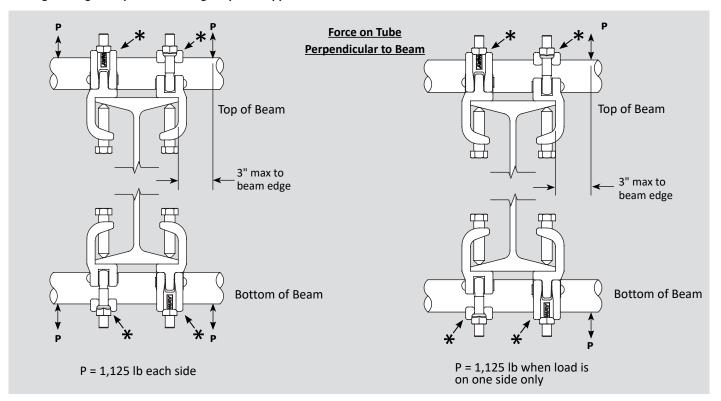
Use CSA19 (swivel angle) clamps for stability and sway bracing where secondary loads only are anticipated, such as sway loads or stiffening of vertical bays. CSA19 clamps are not recommended for use in knee bracing that supports primary loads.

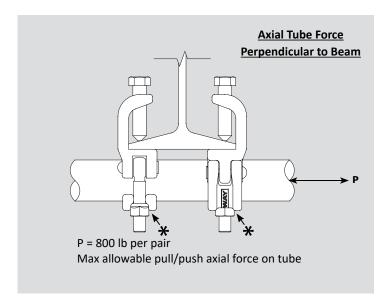
Consult BrandSafway Engineering or a qualified engineer familliar with scaffold design for other situations.

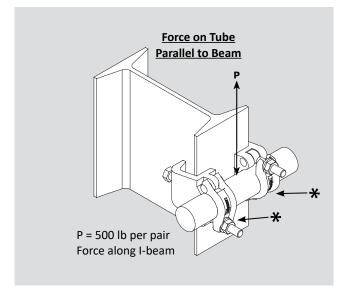
 $[\]ensuremath{^{*}}$ The CRA19 and CSA19 have "Safway" marked on the clamp cap.

Beam Clamp Allowable Loads

Loads shown are based on all bolts tightened to approximately 45 ft-lb on tapered flange beams. Contact BrandSafway Engineering for capacities relating to specific applications.



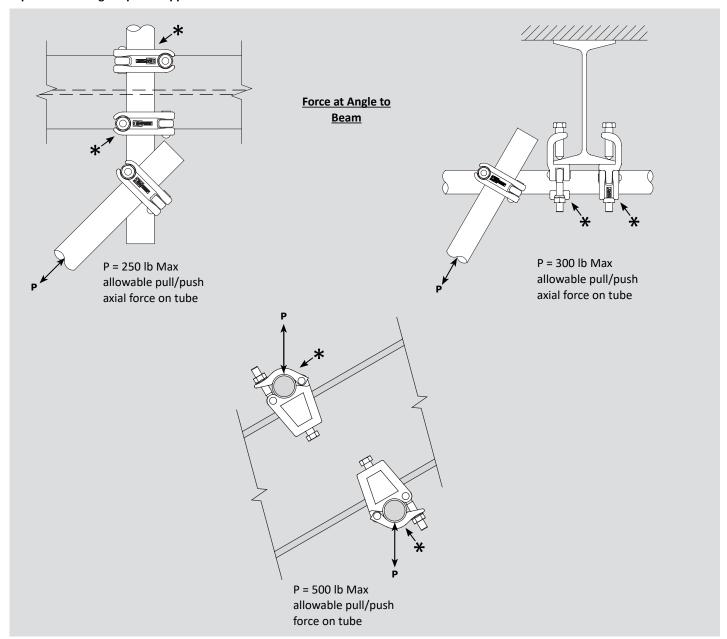




^{*} The CRA2B has "Safway" marked on the clamp cap.

Beam Clamp Allowable Loads

Loads shown are based on all bolts tightened to approximately 45 ft-lb on tapered flange beams. Contact BrandSafway Engineering for capacities relating to specific applications.



^{*} The CRA2B has "Safway" marked on the clamp cap.

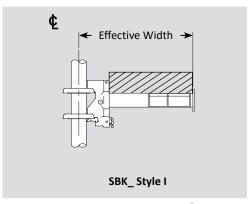
| Side Brack | Side Brackets | | | | | | | |
|------------|---------------|-----------------|------------------------|--|--|--|--|--|
| Part No. | Style | Effective Width | Allowable Uniform Load | | | | | |
| | | ft-in | lb | | | | | |
| SBK06 | 1 | 0'-5½" | 250 | | | | | |
| SBK1 | 1 | 1'-2½" | 250 | | | | | |
| SBK2 | II | 2'-0" | 500 | | | | | |
| SBK33 | II | 2'-9" | 500 | | | | | |
| SBK3 | II | 3'-0" | 500 | | | | | |

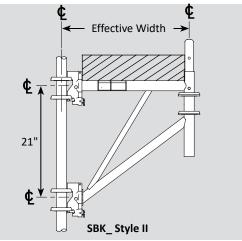
Note: This chart is based on side bracket strength only. Determine the maximum allowable platform load from either platform material strength, leg load capacity or the chart above, whichever is less. Side brackets intended to support workers only. Contact BrandSafway Engineering for capacities relating to specific applications. Coupling Pin (SCP) is provided with Style II side brackets for guard rail post installation only.

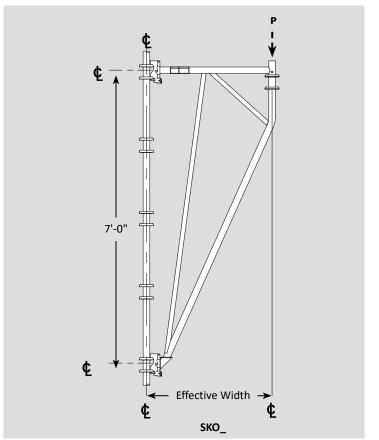
Knee-out Brackets

| Part No. | Effective Width ft-in | Allowable Concentrated Load lb |
|----------|--------------------------|-----------------------------------|
| SKO3 | 3'-0" | 875 |
| SKO45 | 3'-9" | 700 |

Note: Install Bearers/Runners at same increments as knee-out(s) to provide bracing to the vertical post. Scaffold to be properly tied and/ or of adequate size to prevent it from overturning. See page 105 for tying scaffolds and additional load information when utilizing knee-outs.

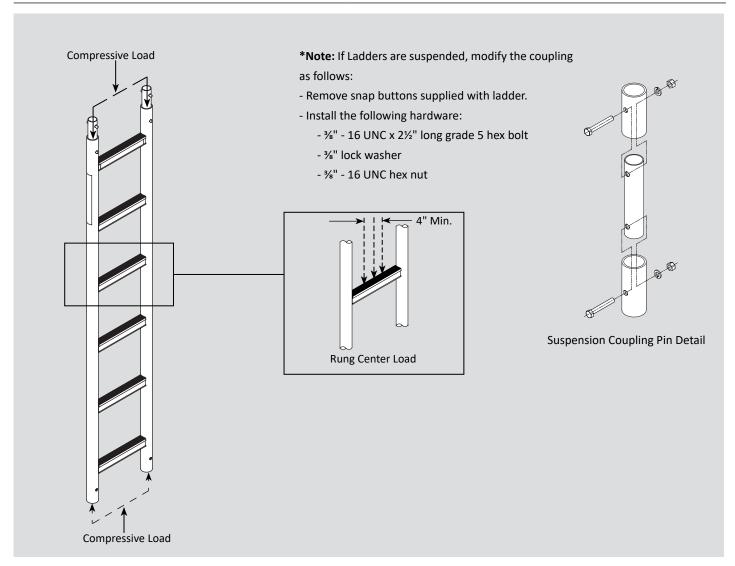






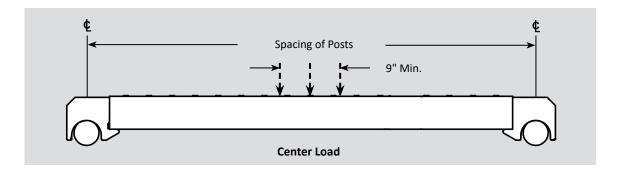
| Pipe Acces | Pipe Access Ladders | | | | | | |
|------------|--|----------------------------|--|--|--|--|--|
| Part No. | Allowable Compressive or Tensile Load* | Allowable Rung Center Load | | | | | |
| | lb | Ib | | | | | |
| SALCS212 | 700 | 350 | | | | | |
| SALCS312 | 700 | 350 | | | | | |
| SALCS612 | 700 | 350 | | | | | |
| SALCS218 | 700 | 350 | | | | | |
| SALCS318 | 700 | 350 | | | | | |
| SALCS618 | 700 | 350 | | | | | |

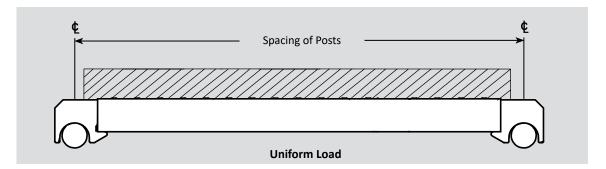
Note: Allowable compressive load is based on ladder assembly properly braced per page 91.



| Steel Planks | | | | | | |
|---------------------|-----------------------------------|---------------------------|----------------------------|--------------------------|---------------------------|-------------------------------|
| Type of Plank | Perforated SSP*, SSPB, FSPH, SSPH | | | Slotted SSP | | |
| Effective Length | Allowable Center Load | Allowable Uniform Load | Allowable Distributed Load | Allowable Center Load | Allowable Uniform Load | Allowable Distributed Load |
| ft-in | lb | lb/ft | lb/ft ² | lb | lb/ft | lb/ft ² |
| 2'-0" | 770 | 472 | 630 | 412 | 171 | 227 |
| 3'-0" | 770 | 472 | 630 | 412 | 171 | 227 |
| 3'-6" | 625 | 386 | 515 | 347 | 147 | 196 |
| 3'-9" | 580 | 360 | 480 | 328 | 137 | 182 |
| 4'-0" | 550 | 311 | 415 | 298 | 128 | 170 |
| 4'-6" | 495 | 255 | 340 | 261 | 116 | 154 |
| 5'-0" | 450 | 213 | 285 | 233 | 93 | 124 |
| 6'-0" | 380 | 150 | 200 | 338 | 113 | 150 |
| 7′-0" | 325 | 105 | 140 | 302 | 86 | 115 |
| 8'-0" | 290 | 82 | 110 | 240 | 60 | 80 |
| 9'-0" | 260 | 60 | 80 | 220 | 49 | 65 |
| 10'-0" | 250 | 49 | 65 | 206 | 41 | 55 |

^{*} Loads shown for SSP's include 6" wide and 9" wide planks.





Suspended Adjustable Post

Part No. Allowable Tensile Load

lb

SSAP 4,000

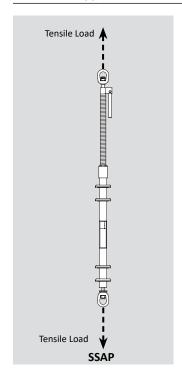
Support Brackets

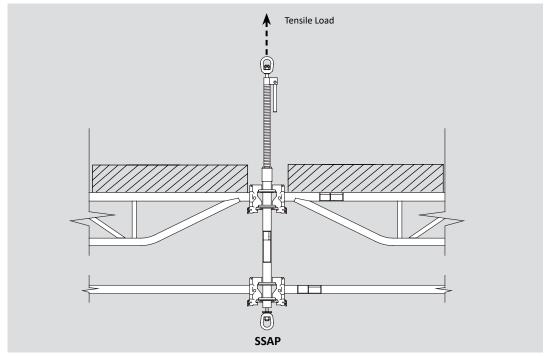
Part No. Allowable Vertical Load P

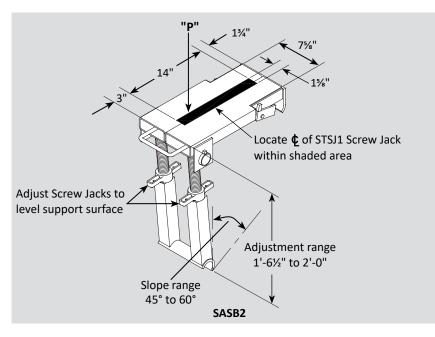
lb

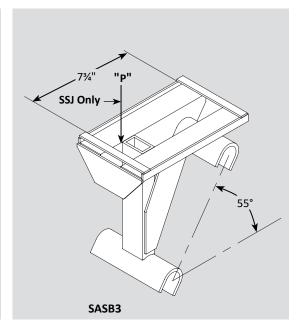
SASB2 4,000 SASB3 4,000

Note: Use support brackets only with SBF support frames.





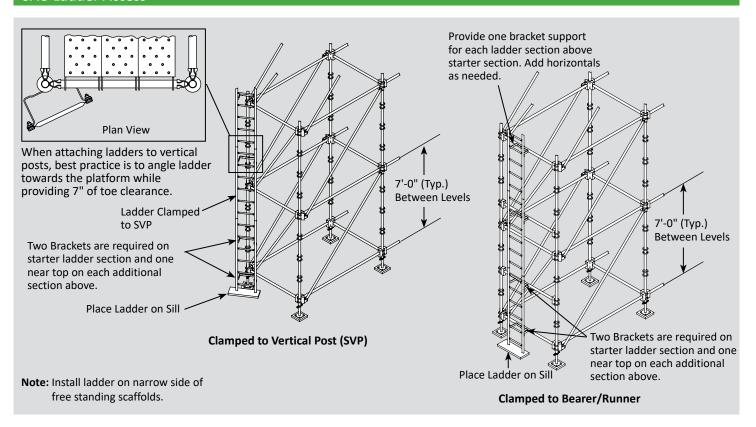




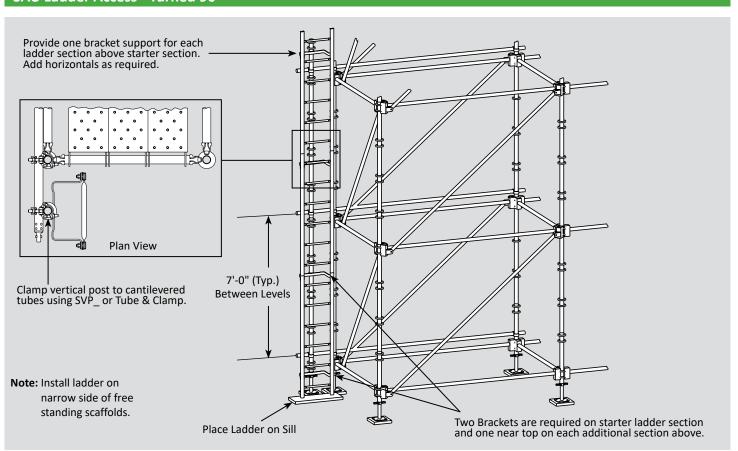
Section 3

This chapter contains illustrations of various scaffold assembly details. The illustrations are provided as information to describe component fit and dimensional limitations. This chapter is not intended to be used as a complete guide to erect BrandSafway Systems™ Scaffolds.

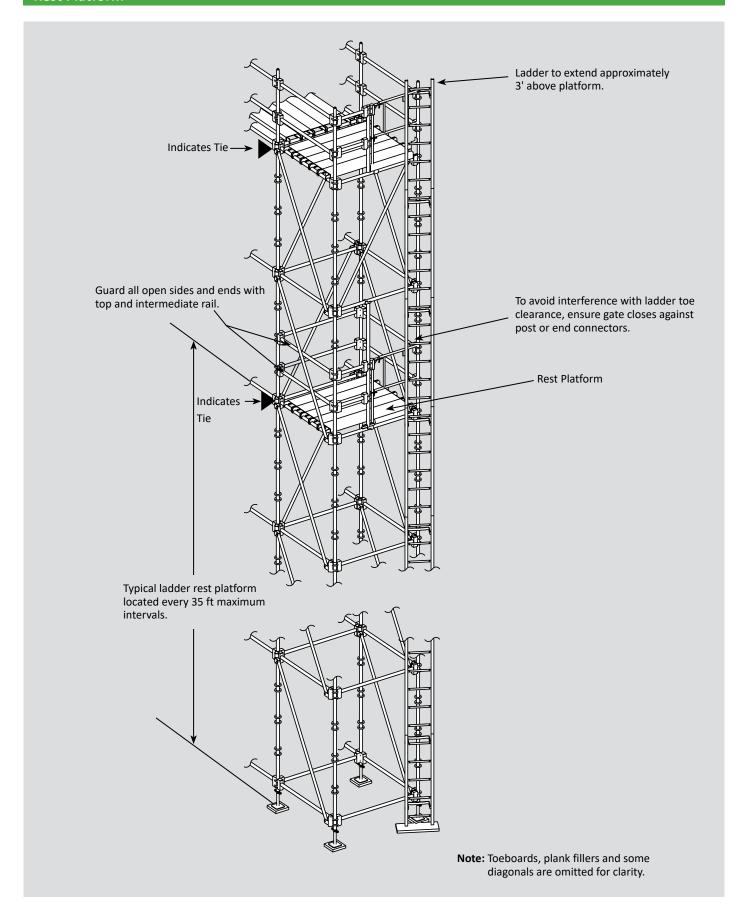
SAU Ladder Access



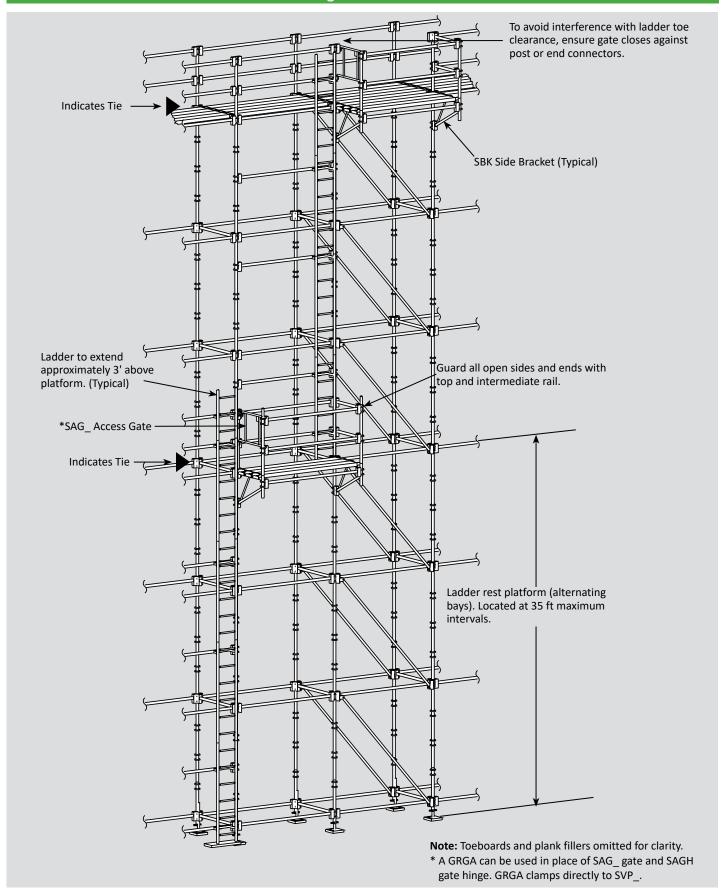
SAU Ladder Access - Turned 90°



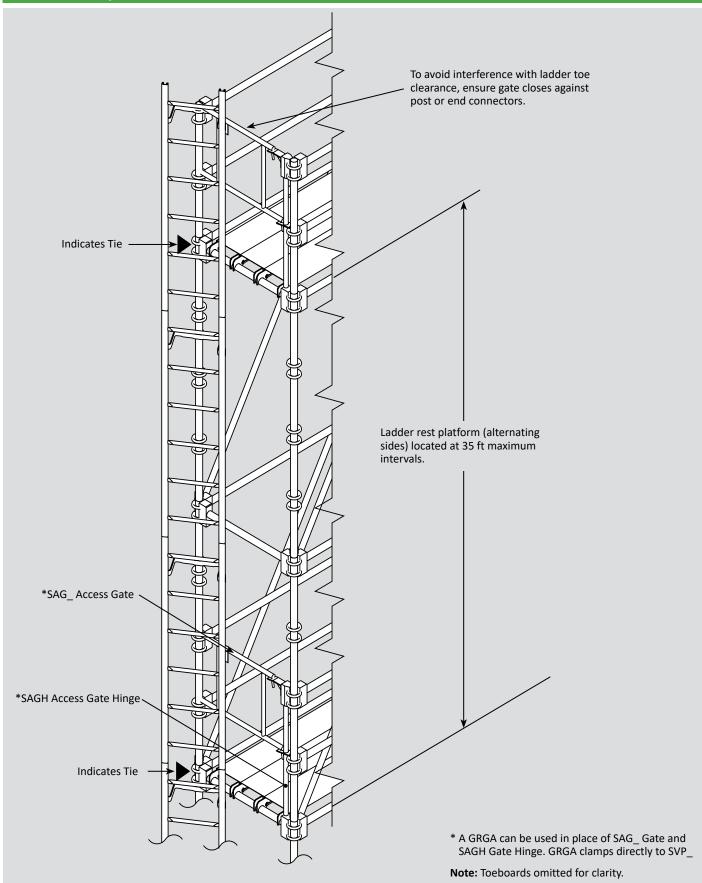
Rest Platform



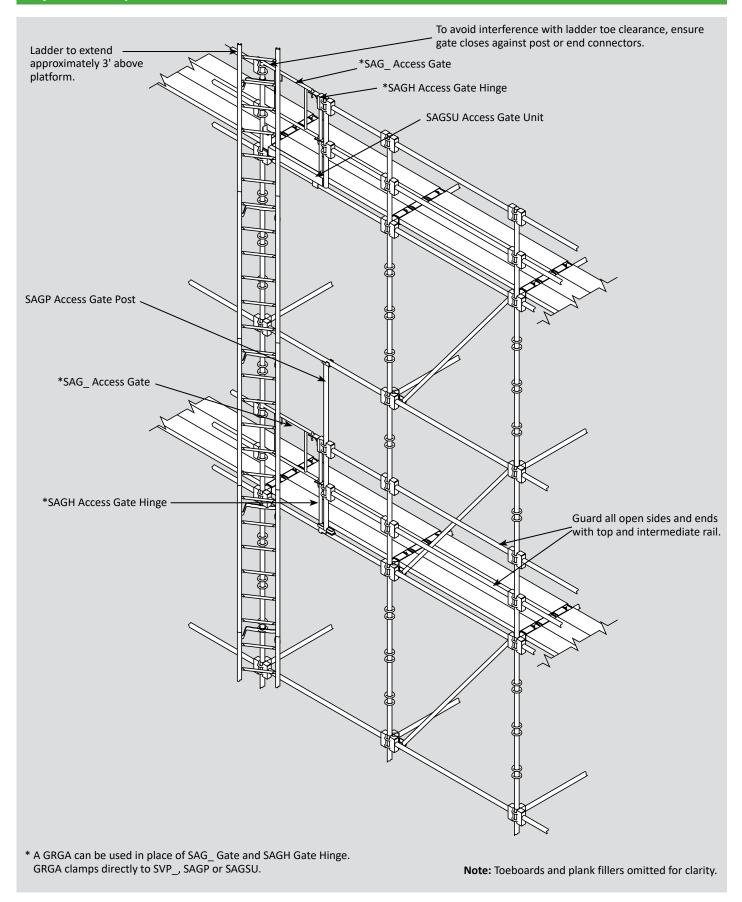
SAU Ladder Access - Used with External Landing Platforms



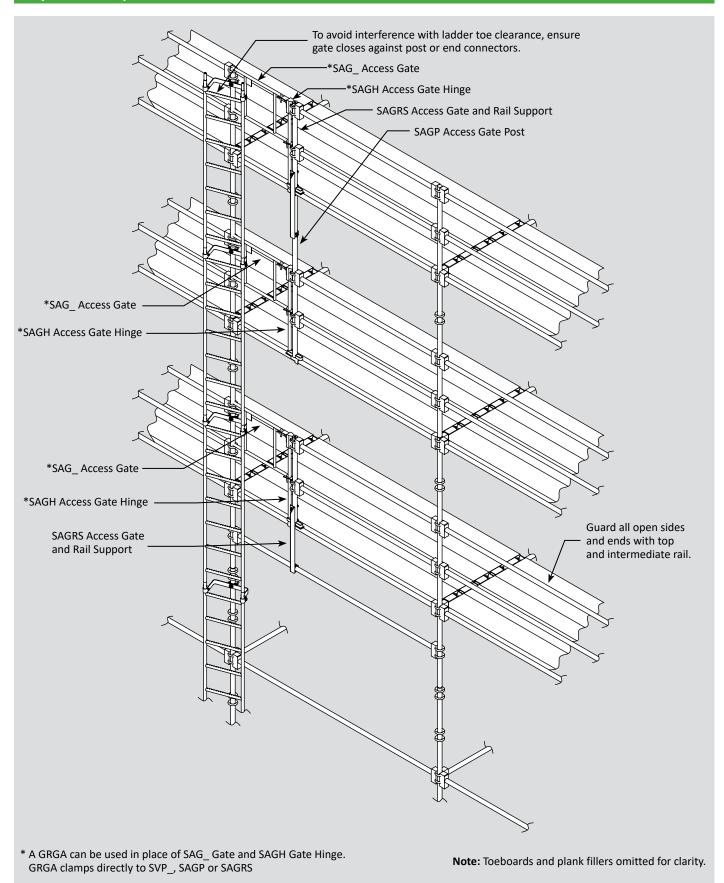
End Access - Top and Intermediate



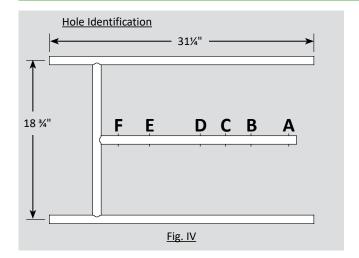
Bay Access - Top and Intermediate



Bay Access - Top and Intermediate

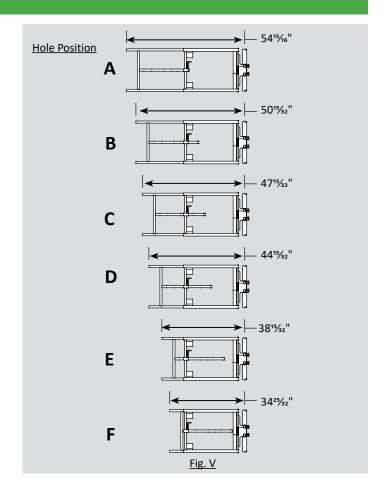


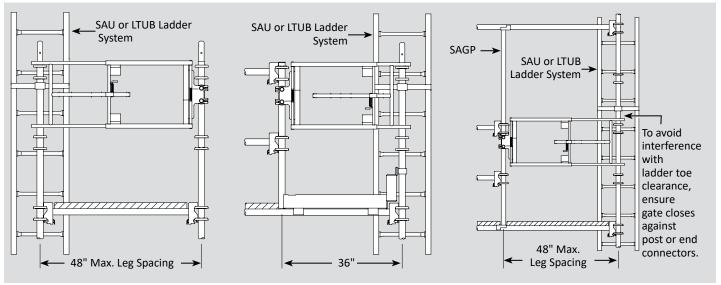
Gates



| Leg Spacing | Gate Configuration See Fig. IV and V |
|-------------|---|
| 48" | В |
| 45" | С |
| 42" | D |
| 36" | E |
| 33" | F |

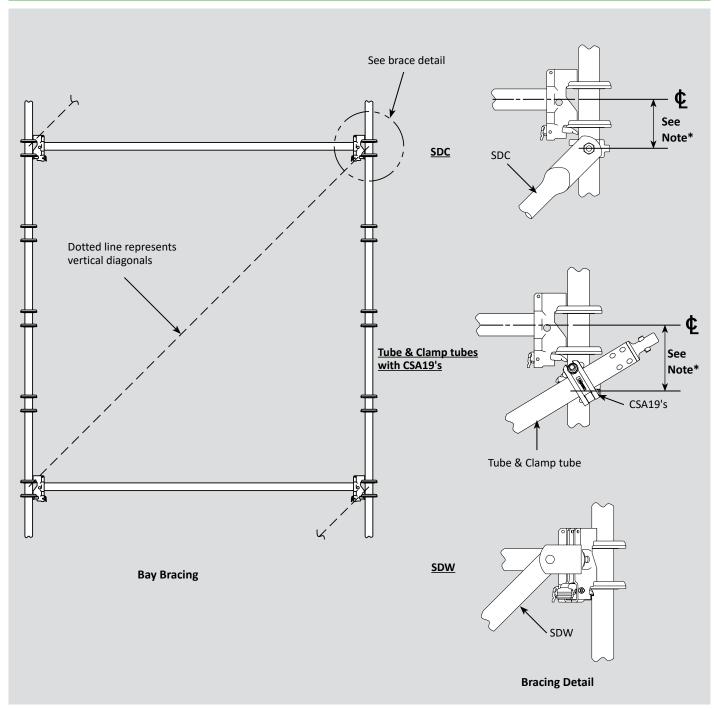
Note: Contact BrandSafway
Engineering regarding the
use of configuration "A"
with Systems Scaffold





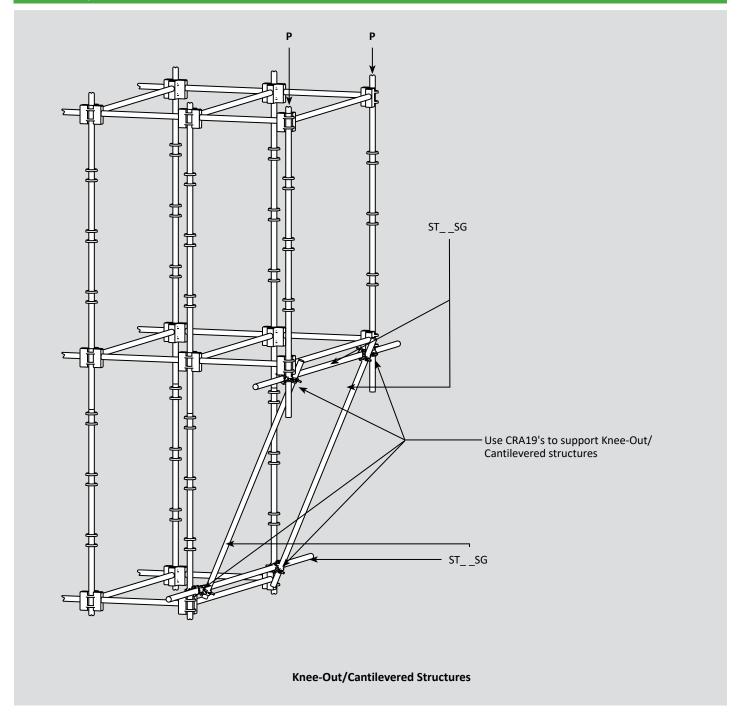
Images shown from inside scaffold.

Vertical Diagonals Used For Sway/Stability Bracing



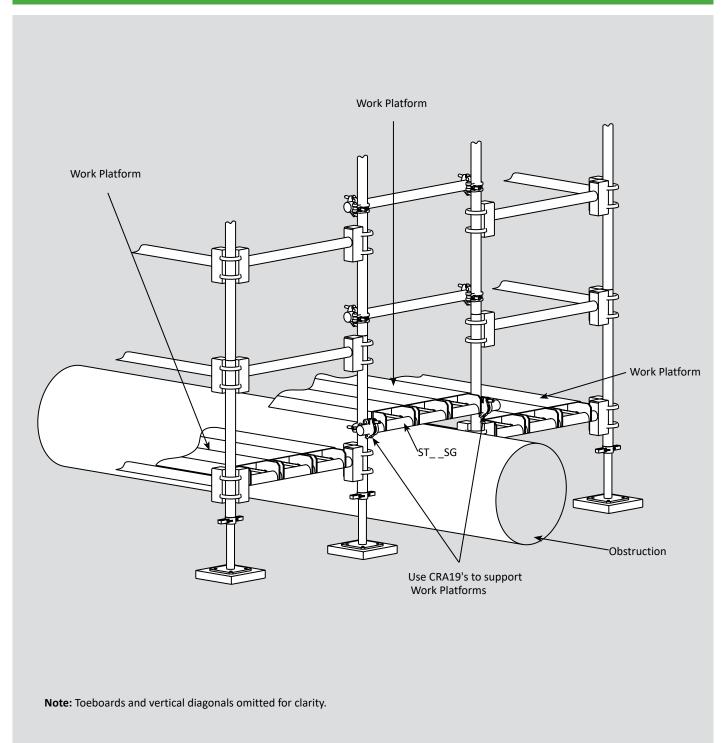
^{*} Attach vertical diagonal to vertical post near horizontal member.

Knee-Out/Cantilevered Structures

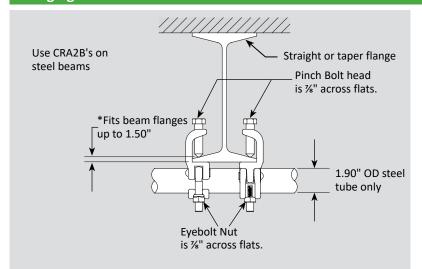


Use CRA19 clamps in knee bracing used to support cantilevered bays or scaffold legs not supported from below. Designer to verify capacity of the knee bracing tubes which may be doubled up if necessary. Install ties as needed to maintain stability of scaffold. Consult BrandSafway Engineering or a qualified engineer familiar with scaffold design for other situations.

Intermediate Work Platforms



Hanging Scaffold

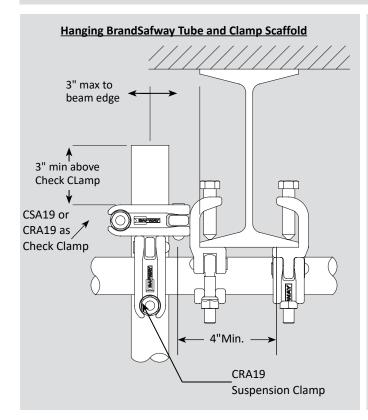


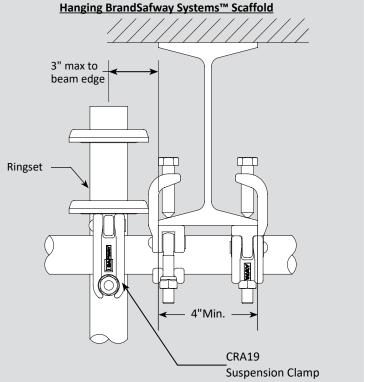
Notes:

- CRA2B's must ALWAYS be used in pairs on the same beam.
- Both clamps must show **SAFWAY** on the cap.

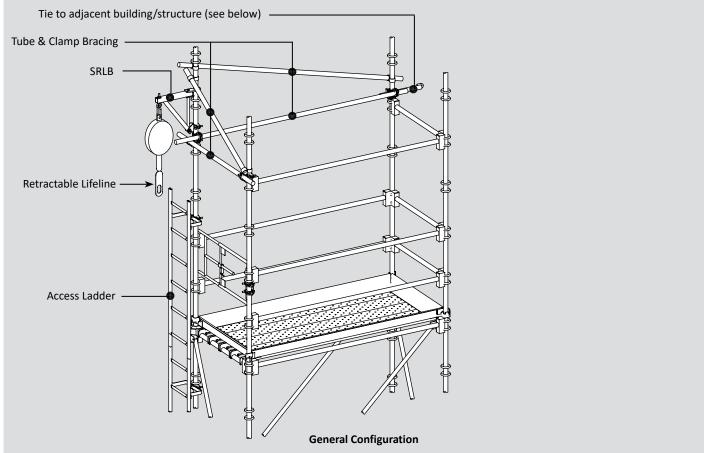
Installation Procedure

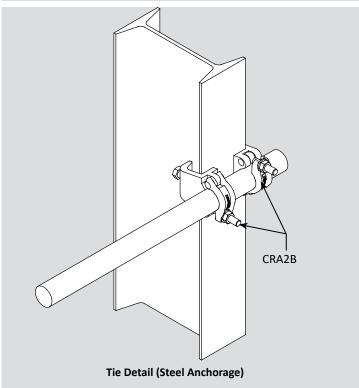
- All beams are level/plumb and secured from movement.
- Beams have a minimum flange thickness of 1/4"*.
- Beams have a minimum flange width of 4".
- All bolts tightened to approximately 45 ft-lb.
- Consult with BrandSafway Engineering, or a qualified engineer familiar with scaffold design for other situations.
- The user must determine the load capacity of the I-Beam and support structure to verify the rated load of the complete scaffold.
- * If attaching to a structural member with a flange thickness less than 1/4", consult with a qualified engineer familiar with scaffold design, to verify the member's ability to safely support the maximum intended load.

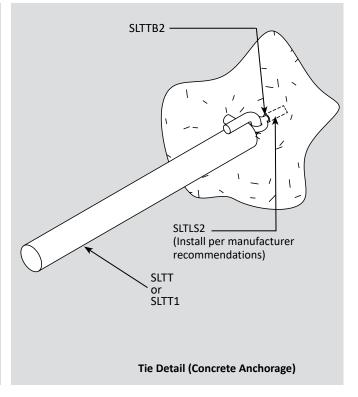




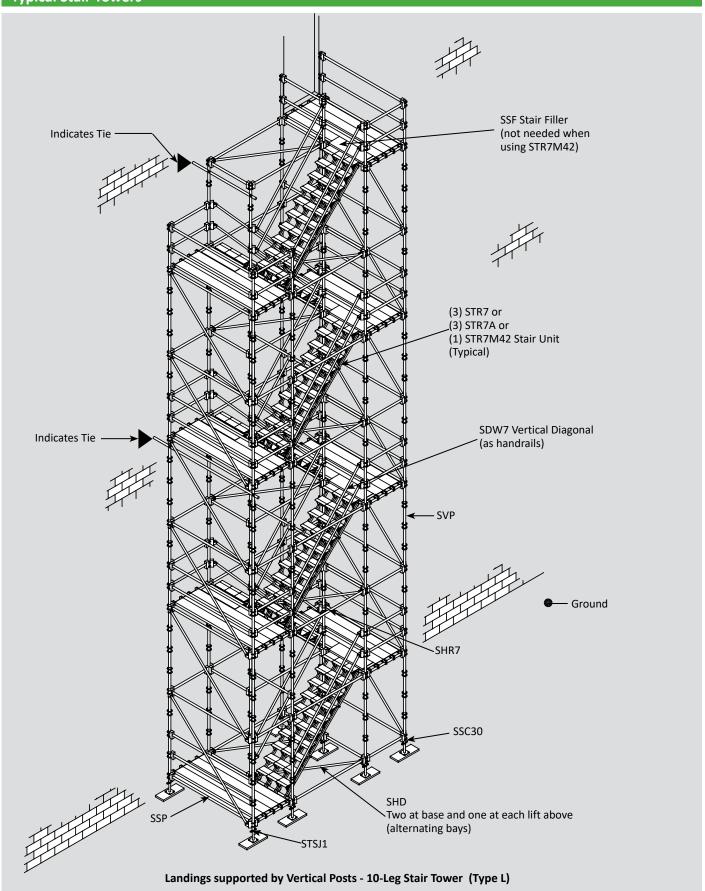
Typical Retractable Lifeline Bracket Installation





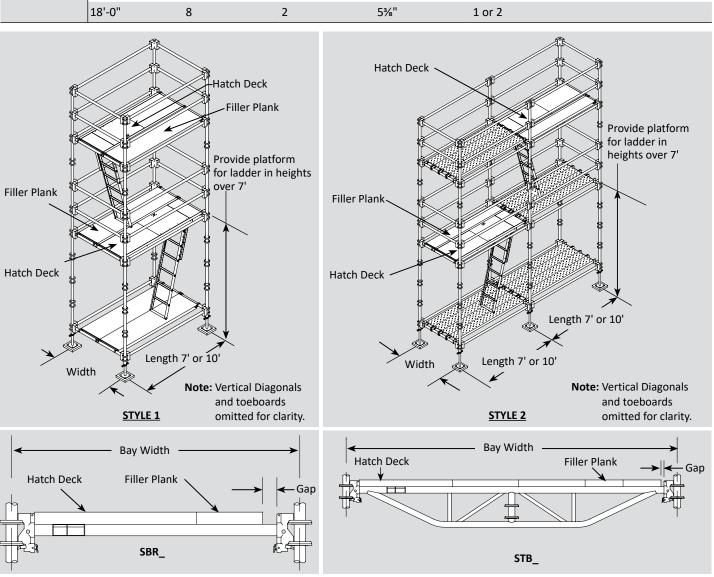


Typical Stair Towers



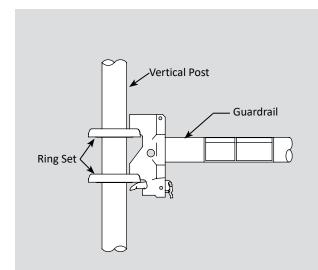
Typical Stair Towers SSF Stair Filler (not needed when using STR7M42) Indicates Tie (3) STR7 or (3) STR7A or (1) STR7M42 Stair Unit (Typical) SBR/SHR _SDW7 Vertical Diagonal (as handrails) Indicates Tie Ground SSC30 SHD Two at base and one at each lift above (alternating bays) Landing Supported by Side Brackets - 6-Leg Stair Tower (Type B)

| Hatch Decks | | | | | |
|-------------|-----------|--------------|-----|-------|--------------|
| | Bay Width | Filler Plank | | Gap | Set-Up Style |
| | ft-in | 19 ¼" | 11" | in | |
| | 4'-0" | - | 1 | 23/8" | 2 |
| SBR_ | 54" | 1 | - | 01/8" | 1 or 2 |
| | 5'-0" | 1 | - | 61/8" | 1 or 2 |
| | 6'-0" | - | 3 | 43/8" | 1 or 2 |
| | 7'-0" | - | 4 | 53/8" | 1 or 2 |
| | 8'-0" | 3 | - | 35/8" | 1 or 2 |
| | 9'-0" | 3 | 1 | 45/8" | 1 or 2 |
| STB_ | 10'-0" | 3 | 2 | 5%" | 1 or 2 |
| | 12'-0" | 5 | 1 | 21/8" | 1 or 2 |
| | 14'-0" | 5 | 3 | 41/8" | 1 or 2 |
| | 16'-0" | 8 | - | 33/8" | 1 or 2 |
| | 18'-0" | 8 | 2 | 5¾" | 1 or 2 |

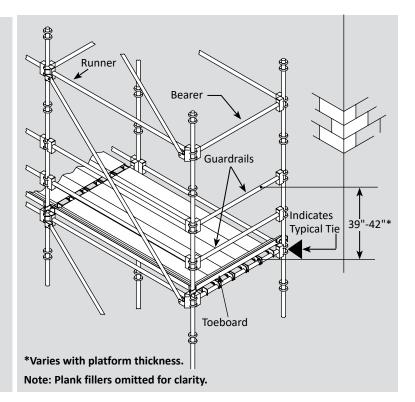


Scaffold Guardrail Installation

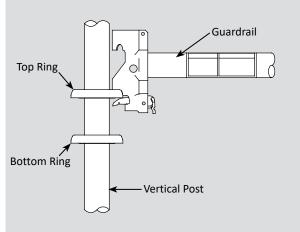
All Scaffold Locations



Attach all horizontals including guardrails, runners, bearers, side brackets and any truss bearers to both rings of a ring set on vertical posts.



Alternative location used when 45" guardrail height is required.**



Alternative top ring attachment position for guardrails. This alternate applies to scaffold top guardrails only. Other components such as runners and bearers must attach on both top and bottom ring of a ring set.

- * Top of platform to top of guardrail.
- ** Required in states such as California.

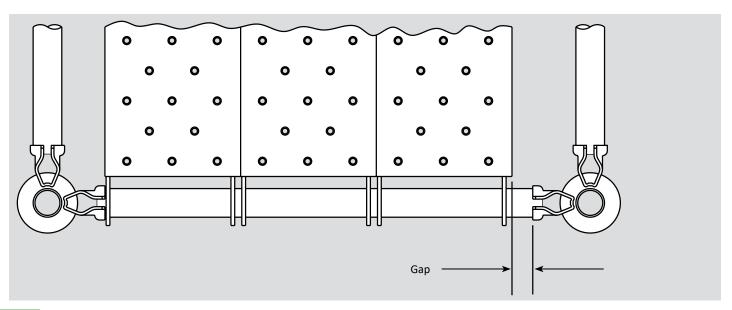
*Varies with platform thickness.

Note: Plank fillers omitted for clarity.

| Plank | | | | | | | |
|--------------------------------------|-----------|--|-------|--|-------|---|--------|
| Plank Chart | | Steel Plank SSP & Sandblast Plank SSPB | | Duraplank FSPH & SSPH and Wood Plank | | All Aluminum and Aluminum Plywood Decks | |
| | | 9" Wide | | 9 ¼" Wide | | 19 ¼" Wide | |
| | | QTY of | Gap | QTY of | Gap | QTY of | Gap |
| | | Planks | in | Planks | in | Planks | in |
| | SBR2 | 1* | 73/8" | 1* | 71/8" | 0* | 16¾" |
| | SBR33 | 2 | 73/8" | 2 | 6%" | 1 | 61/8" |
| S | SBR3 | 3 | 13/8" | 3 | 5/8" | 1 | 91/8" |
| BEARERS | SBR42 | 3 | 73/8" | 3 | 65%" | 1* | 15%" |
| EAF | SBR45 | 4 | 13/8" | 4 | 3/8" | 1* | 181/8" |
| m | SBR4 | 4 | 43/8" | 4 | 33/8" | 2 | 11/8" |
| | SBR54 | 5 | 13/8" | 5 | 1/8" | 2 | 71/8" |
| | SBR5 | 5 | 73/8" | 5 | 6%" | 2* | 13%" |
| | STB6 | 7 | 13/8" | 6 | 8%" | 3 | 6%" |
| | STB7 | 8 | 43/8" | 8 | 23/8" | 3* | 185/8" |
| RS | STB8 | 9 | 73/8" | 9 | 51/4" | 4* | 11¾" |
| TRUSS BEARERS | STB9 | 11 | 13/8" | 10 | 7%" | 5 | 41/8" |
| BE | STB10 | 12 | 43/8" | 12 | 13/8" | 5* | 16%" |
| SSN | STB12 | 15 | 13/8" | 14 | 6%" | 7 | 15/8" |
| ¥ | STB14 | 17 | 73/8" | 17 | 31/8" | 8 | 63/8" |
| | STB16 | 20 | 43/8" | 19 | 85/8" | 9* | 111/8" |
| | STB18 | 23 | 13/8" | 22 | 4%" | 10* | 15%" |
| SIDE BRACKETS AND KNEE-OUTS | SBK2 | 2 | 1¼" | 2 | 3/4" | 1 | 1/16" |
| | SBK33 | 3 | 1¼" | 3 | 1/2" | 1 | 9" |
| | SBK3/SKO3 | 3 | 4¼" | 3 | 3½" | 1* | 12" |
| | SKO45 | 4 | 41/4" | 4 | 3¼" | 2 | 1¾" |

Gap indicates the difference between the net width of the horizontal member and the actual platform width. Plank gaps larger than 6" can be filled with one additional SSP6_ (applies only when using SSP, SSPB or SSPH planks). All scaffold platforms must be a minimum of 18" wide.

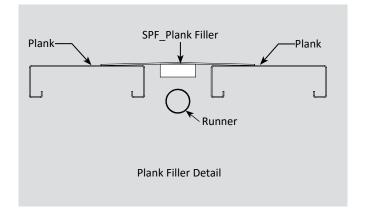
^{*}Indicates plank gaps are greater than 9 $\frac{1}{2}$ " or the actual platform width does not meet the 18" minimum requirement. These platforms are not recommended as work platforms.

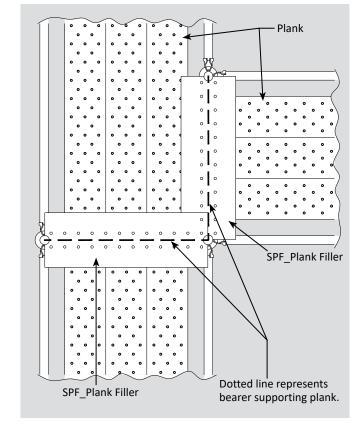


Plank Filler

| | | No. and Size of Plank Fillers | | | |
|--------------------------------------|-----------|-------------------------------|------|-------|---|
| Plank Fille | SPF18 | SPF2 | SPF3 | SPF45 | |
| | SBR2 | | 1 | | |
| | SBR33 | | | | |
| | SBR3 | | | 1 | |
| BEARERS | SBR42 | 1 | 1 | | |
| 3EAF | SBR45 | | | | 1 |
| | SBR4 | | 2 | | |
| | SBR54 | 1 | | 1 | |
| | SBR5 | | 1 | 1 | |
| | STB6 | | | 2 | |
| TRUSS BEARERS | STB7 | | 2 | 1 | |
| | STB8 | | 1 | 2 | |
| | STB9 | | | 3 | |
| | STB10 | | 2 | 2 | |
| SSO | STB12 | | | 4 | |
| ¥ | STB14 | | 1 | 4 | |
| | STB16 | | 2 | 4 | |
| | STB18 | | 1 | 6 | |
| رم بر _د | SBK2 | | 1 | | |
| SIDE BRACKETS AND KNEE-OUTS | SBK33 | | | | |
| SII RAC AN AN | SBK3/SKO3 | | | 1 | |
| | SKO45 | | | | 1 |

Note: Dark shaded areas indicate plank fillers are not available. Plank fillers are intended for use with SSP, SSPB and SSPH planks.

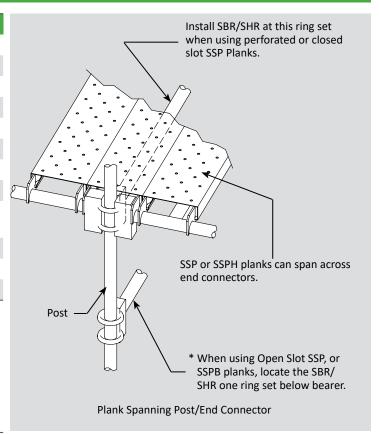


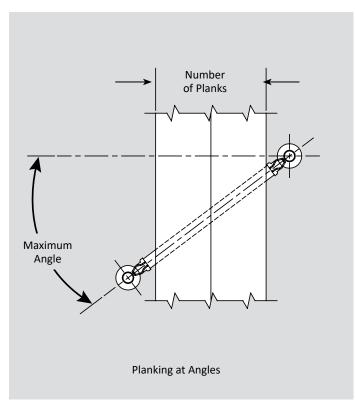


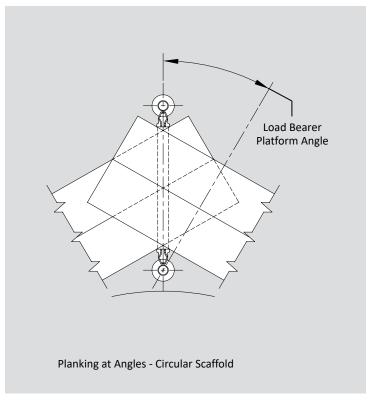
Plank Installed at Angles

| 2 x 10 Wood Planks Installed at Angles to Bearer | | | | | |
|--|---------------------------|---------------|---------------|--|--|
| Part No. | Description | No. of Planks | Maximum Angle | | |
| SBR54 | Bearer | 4 | 33° | | |
| SBR4 | Bearer | 4 | 18° | | |
| SBR4 | Bearer | 3 | 43° | | |
| SKO45 | Knee Out | 3 | 44° | | |
| SBR45 | Bearer | 3 | 38° | | |
| SBR42 | Bearer | 3 | 32° | | |
| SBK3 | Side Bracket | 3 | 22° | | |
| SKO3/SBK3 | Knee Out/ Side Bracket | 2 | 50° | | |
| SBR3 | Bearer | 2 | 44° | | |
| SBK33 | Side Bracket | 2 | 45° | | |
| SBR33 | Bearer | 2 | 37° | | |

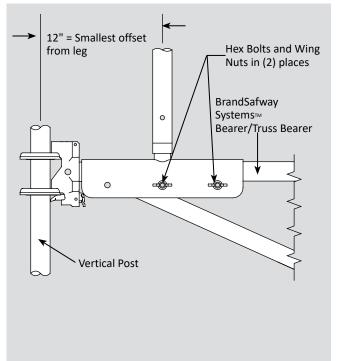
Note: Angles shown are determined with 9 %" plank width. Planking Chart for 9 %" Planks (page 83) illustrated the plank/ bearer recommended gap when a load bearing member is perpendicular to a platform run. This gap diminishes when the load bearing member intersects the platform at an angle. Refer to the chart above to determine the maximum load bearer/platform angle for 2, 3 and 4 plank wide platforms. Also, see example below.

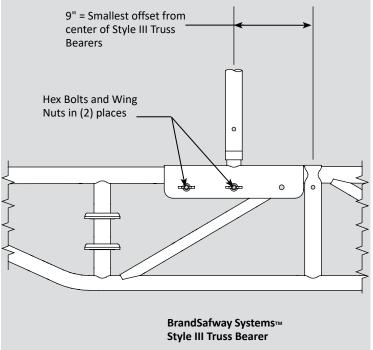


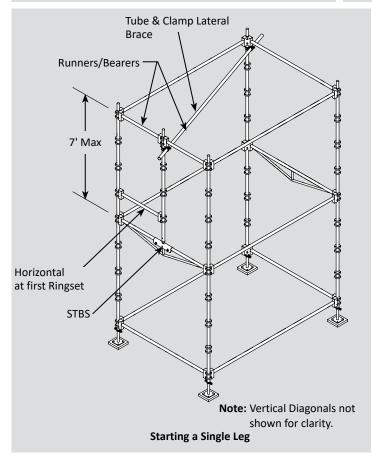


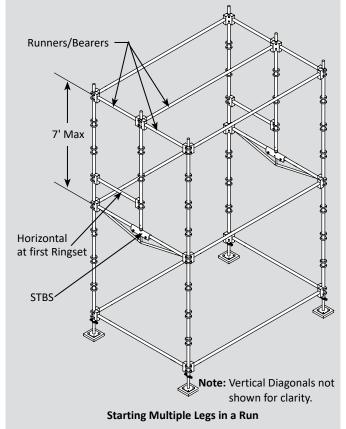


Truss

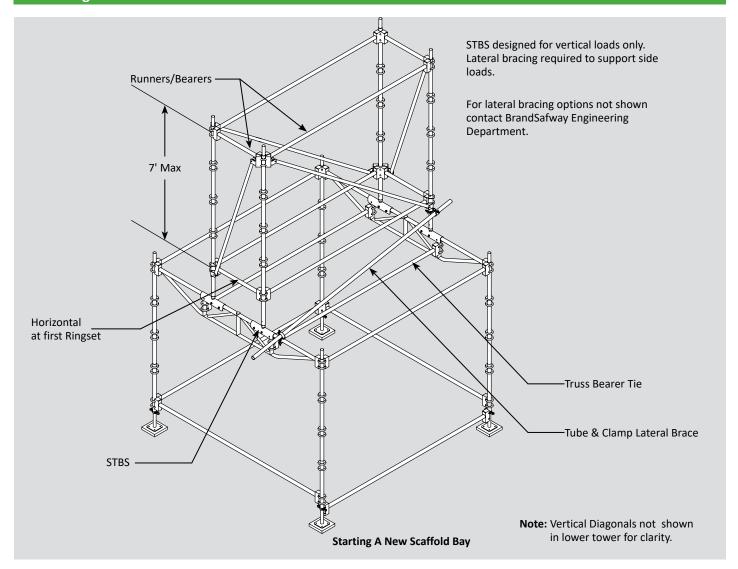


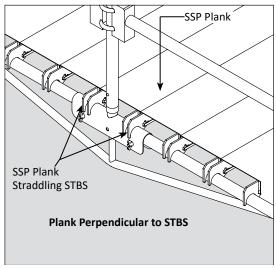


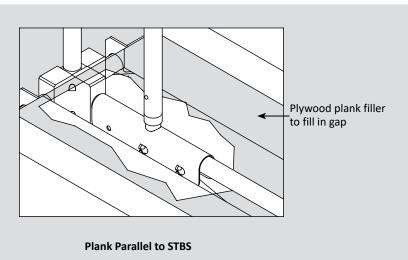




Restarting Scaffold Off of Truss Bearer

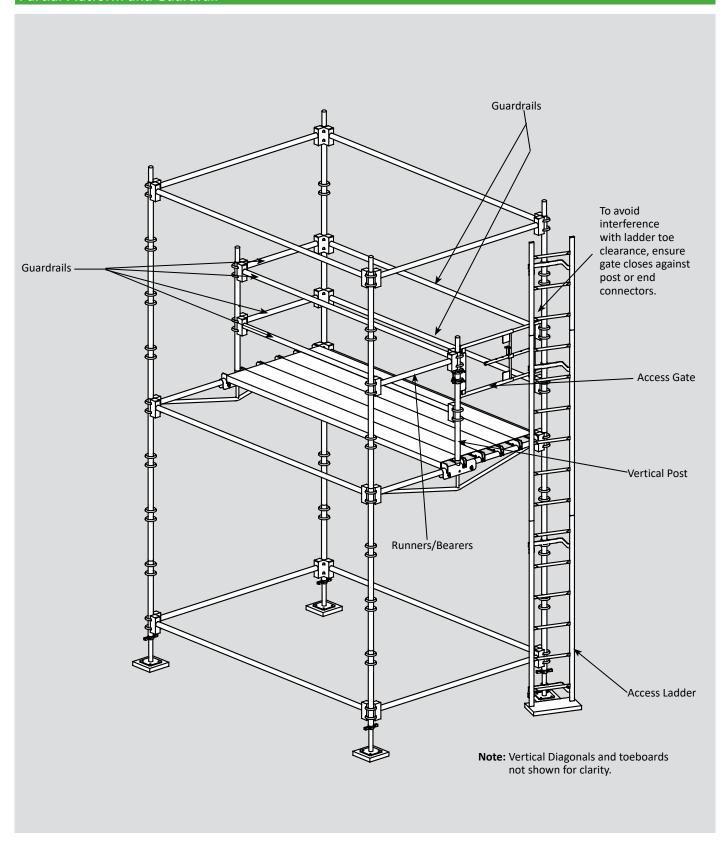




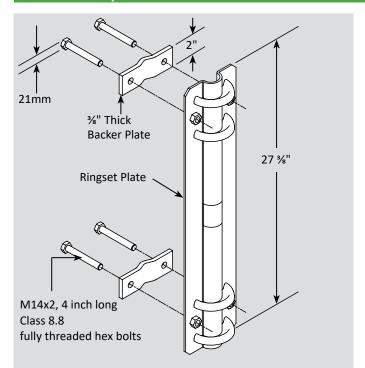


Note: Toeboards and vertical diagonal bracing not shown for clarity.

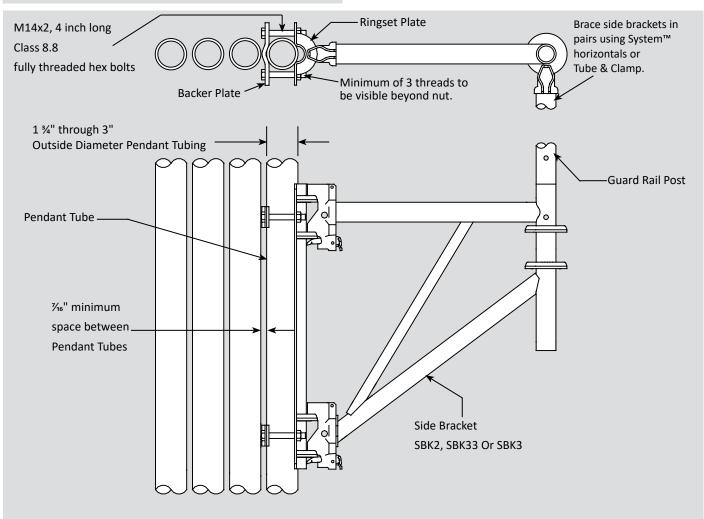
Partial Platform and Guardrail



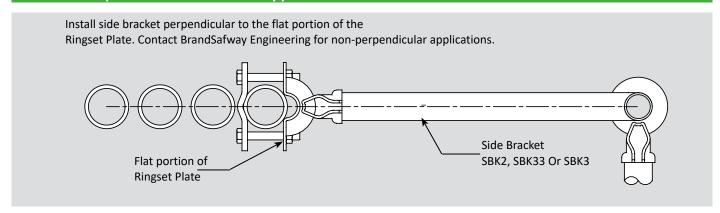
Pendant Adapter Bracket

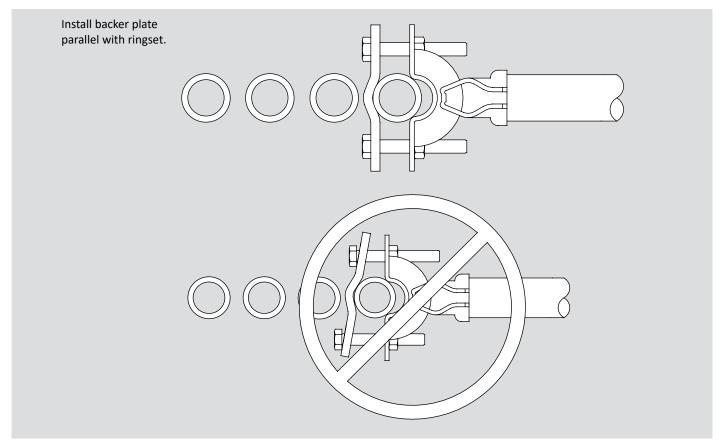


Torque: 60 ft-lb Load Capacity: 500 lb



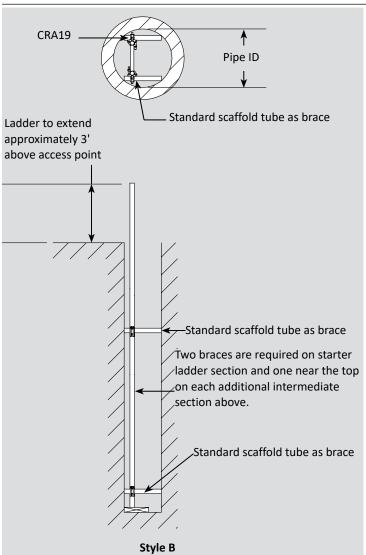
Pendant Adapter Brackets for Boiler Applications

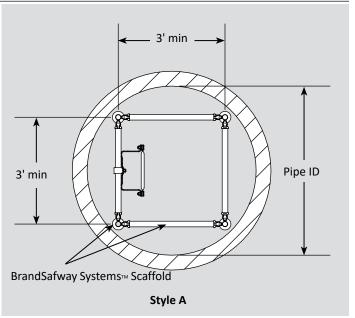




Pipe Access Ladder Installation

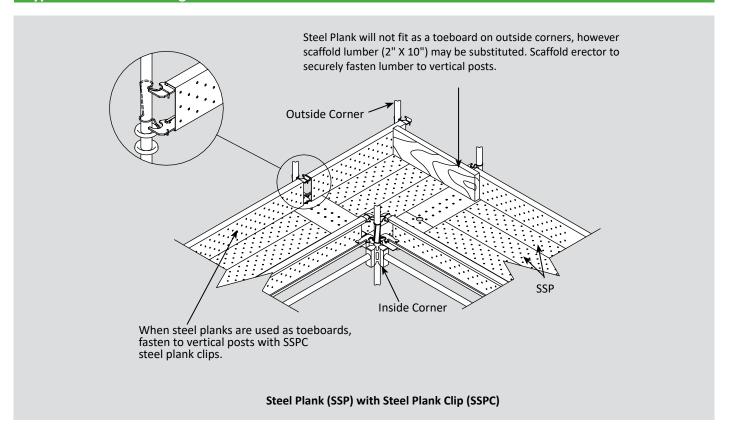
| Pipe ID | Use | Style |
|-----------|---------------|-------|
| in | | |
| 57" and | SAUB or LTUBB | Α |
| greater | SAU3 or LTUB4 | |
| | SAU6 or LTUB7 | |
| Under 57" | SALCS218 | В |
| | SALCS318 | |
| | SALCS618 | |
| | SALCS212 | |
| | SALCS312 | |
| | SALCS612 | |

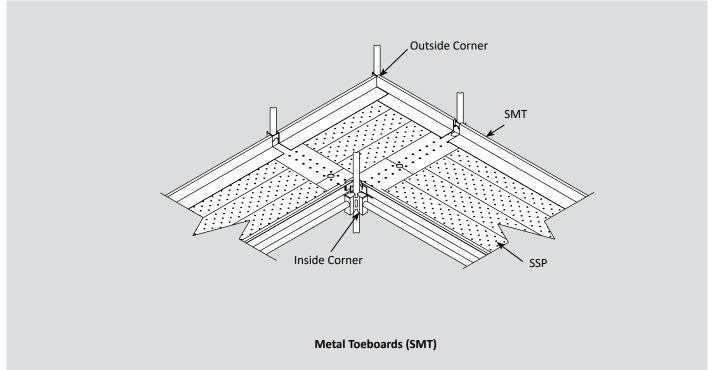




Contact BrandSafway Engineering for Style B Ladders exceeding 50 feet.

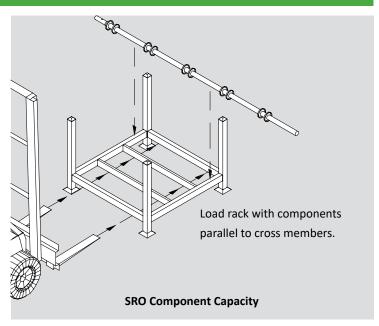
Typical Toeboard Arrangements

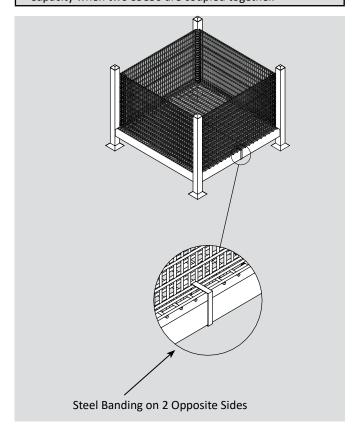


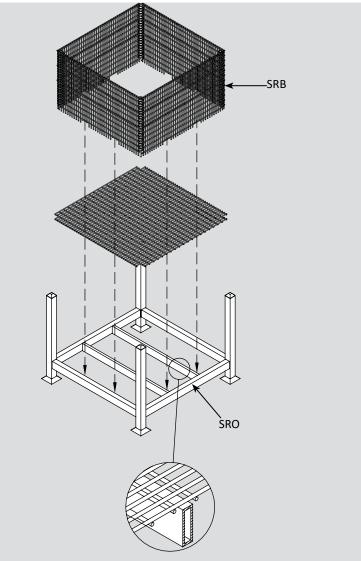


SRO/SRB Assembly

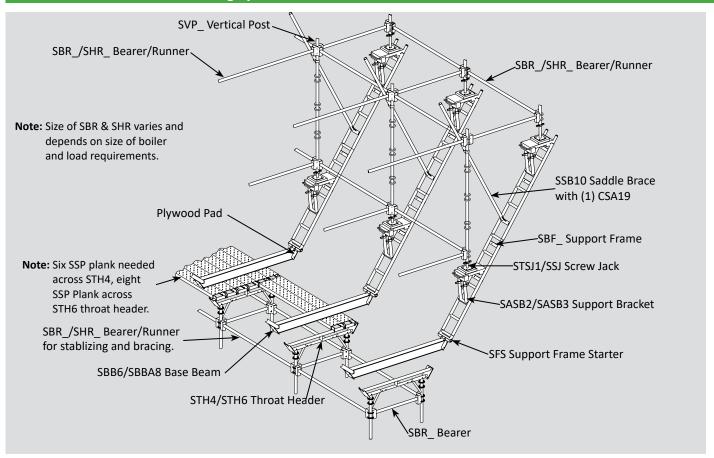
| Rack Component Capacity | | | | |
|---|----------------|--|--|--|
| Part No. | SRO Capacities | | | |
| SSC30 | 250* | | | |
| SVP_ | 125 | | | |
| SBR_ | 100 | | | |
| SHR_ | 100 | | | |
| SSP_ | 64 | | | |
| SHD_ | 100 | | | |
| SDW_ | 100 | | | |
| SDC_ | 100 | | | |
| STR7_ | 12 | | | |
| SBF5 through 6 | 30 | | | |
| STB6 through 7 | 50 | | | |
| STB8 through 18 | 25 | | | |
| * Capacity when two SSC30 are coupled together. | | | | |



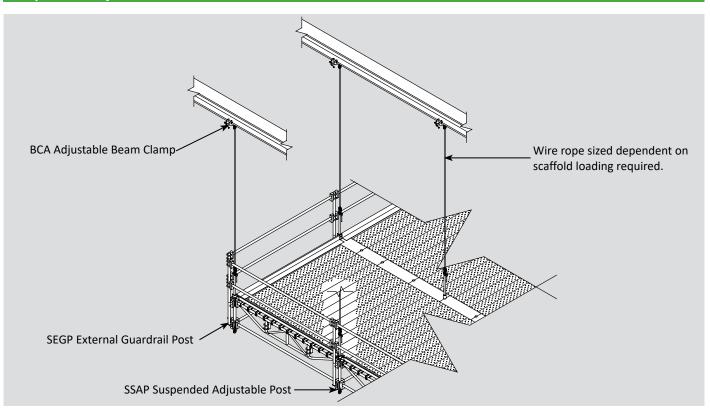




Boiler Throat Closure & Founding System



Suspended Adjustable Platform



Tying & Bracing and Assembly Loads

Section 4

Quantities and location of ties, guys and braces will vary depending upon the scaffold size, weight, shape and load conditions. The following general guidelines indicate minimum BrandSafway best practices and are not all inclusive. When designing scaffolds with unique configurations or special loading conditions, consult with BrandSafway Engineering or a qualified engineer familiar with scaffold design prior to design finalization. A qualified engineer may reduce the number of vertical diagonal braces if it can be shown that the resulting scaffold design complies with applicable codes and generally accepted scaffold engineering practices.

When designing a square or rectangular scaffold, BrandSafway recommends a horizontal diagonal be included in the base design. This diagonal will aid the erector in providing a square scaffold as well as assuring hook on plank and deck will fit properly.

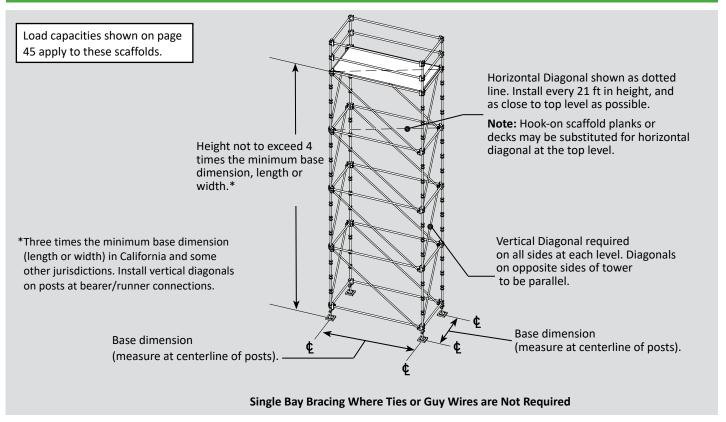
Unless otherwise noted in this chapter, all vertical diagonals can be SDW, SDC or Tube and Clamp with CSA19's. Horizontal diagonals can be SHD or Tube and Clamp with CRA19's. When doing so, consider the load capacity of these components and their effect on the completed scaffold. See page 74.

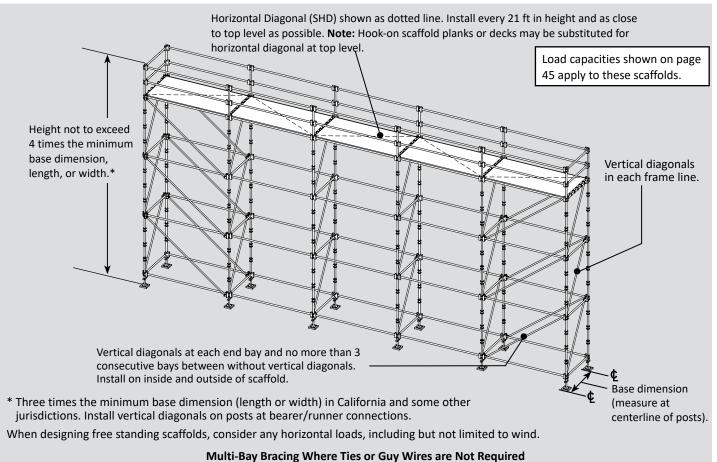
Assure ties, stand-offs, or guys are located at runner and bearer levels.

Note: Proper access and platform toeboards are required on all scaffolds. These items have been eliminated from the illustrations in this section for clarity purposes.

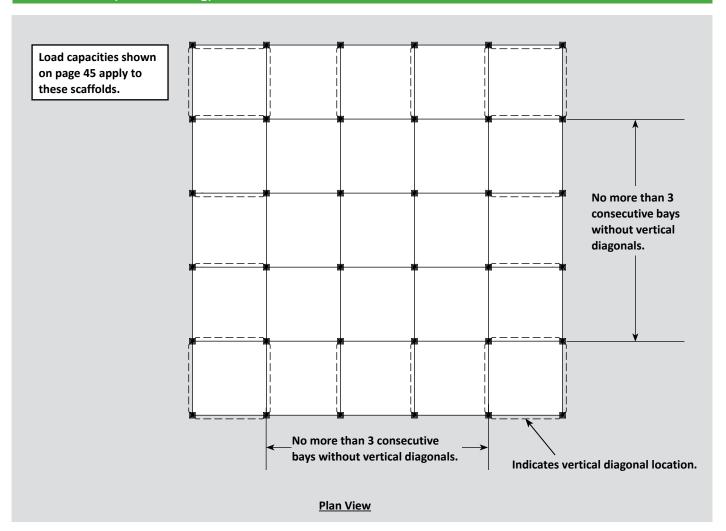
Tying, Bracing and Assembly Loads

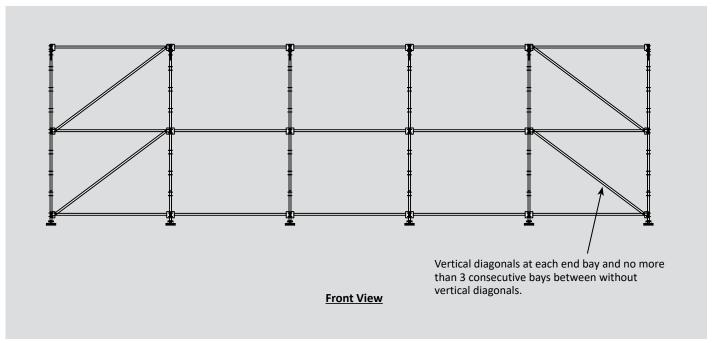
Free Standing Scaffold





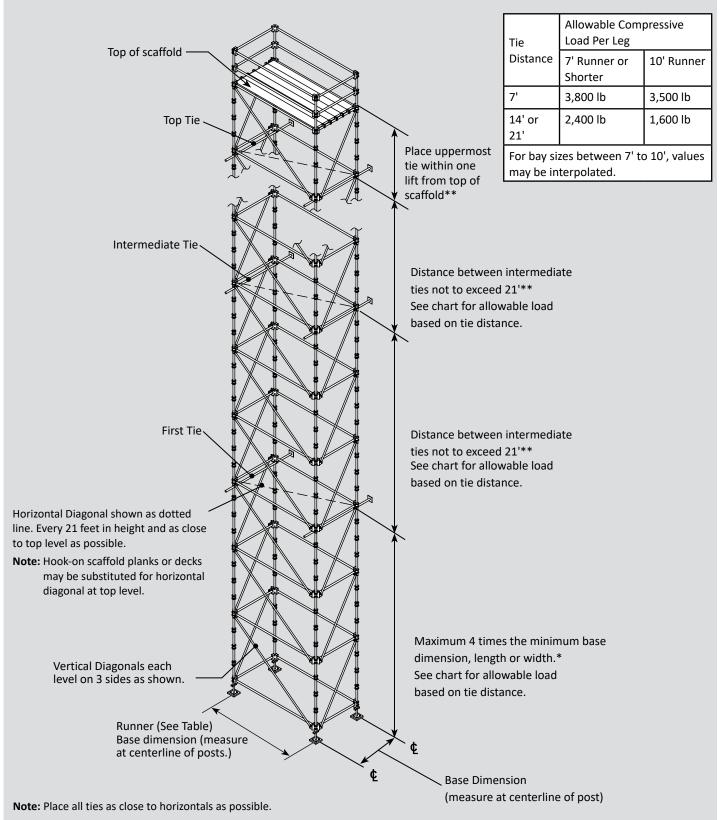
Area Scaffold (Free Standing)





Tying, Bracing and Assembly Loads

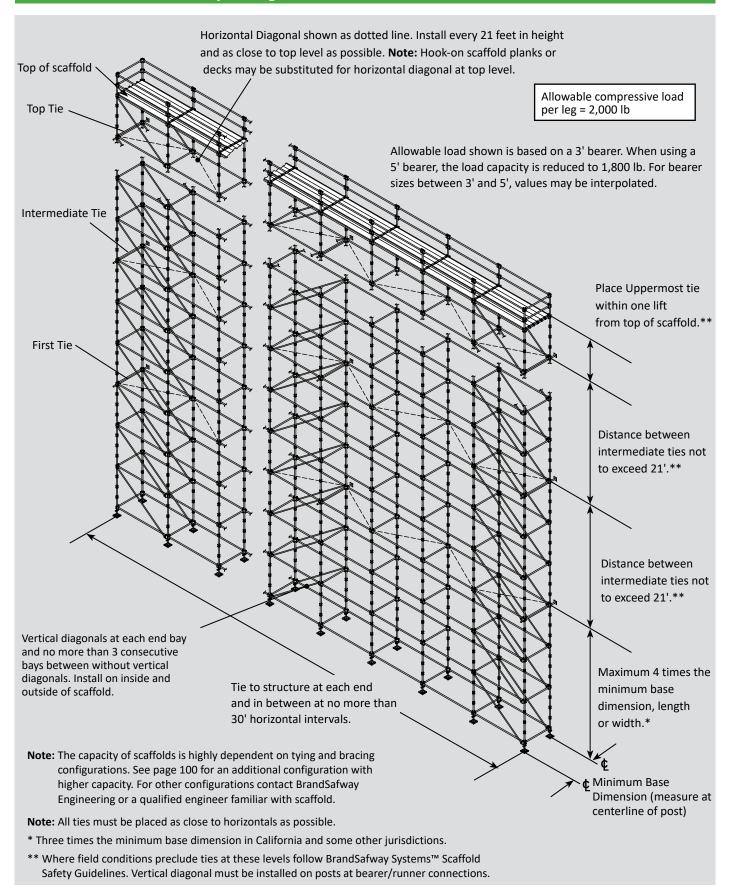
Wall Tied Scaffold - Single Bay Bracing - Diagonal on Three Sides



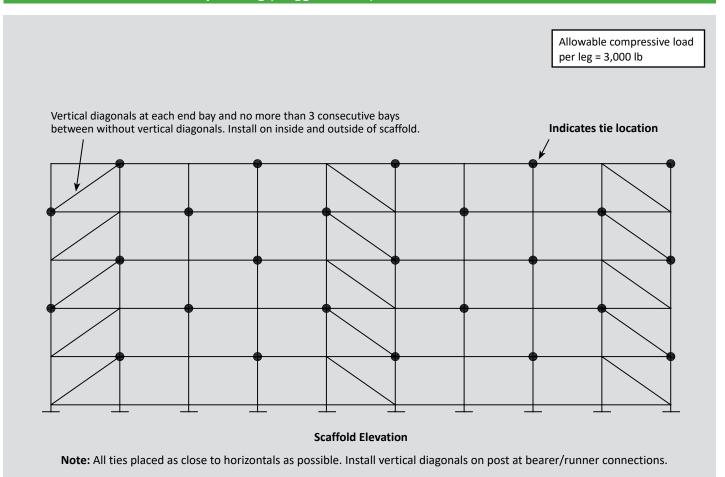
^{*} Three times the minimum base (length or width) in California and some other jurisdictions.

^{**} Where field conditions preclude ties at these levels follow BrandSafway Systems™ Scaffold Safety Guidelines. Install vertical diagonal on posts at bearer/runner connections.

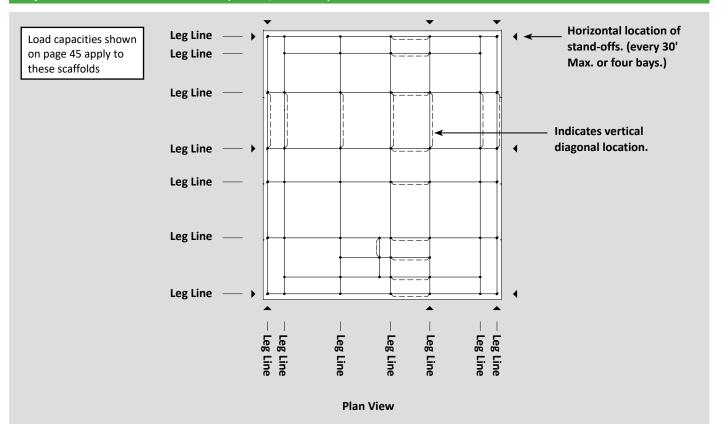
Wall Tied Scaffold - Multi-Bay Bracing

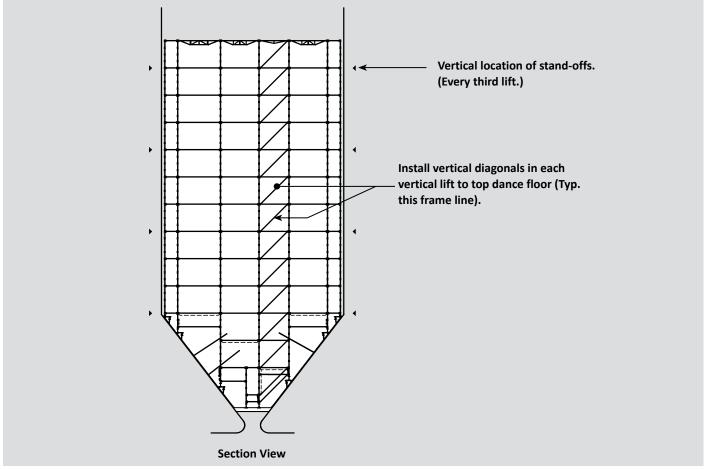


Wall Tied Scaffold - Multi- Bay Bracing (Staggered Ties)

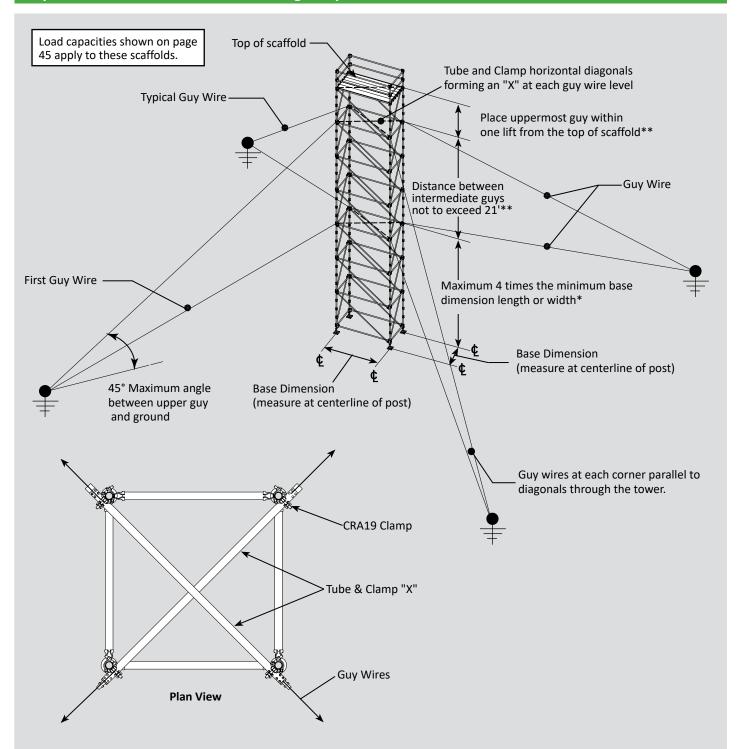


Captured 4-Sides Area Scaffold (Boiler/Atriums)





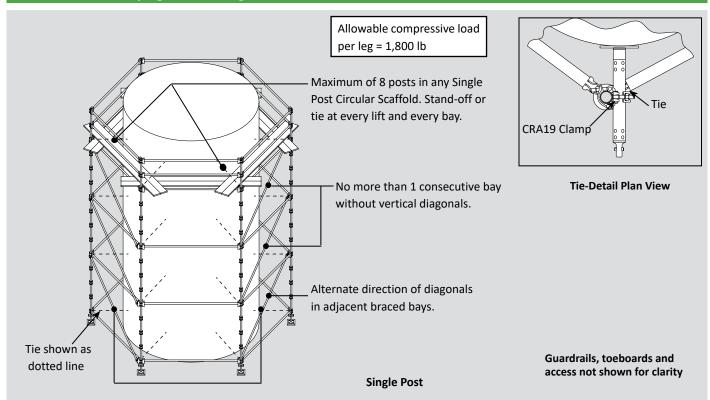
Guy Wire Restrained Scaffold Tower - Single Bay

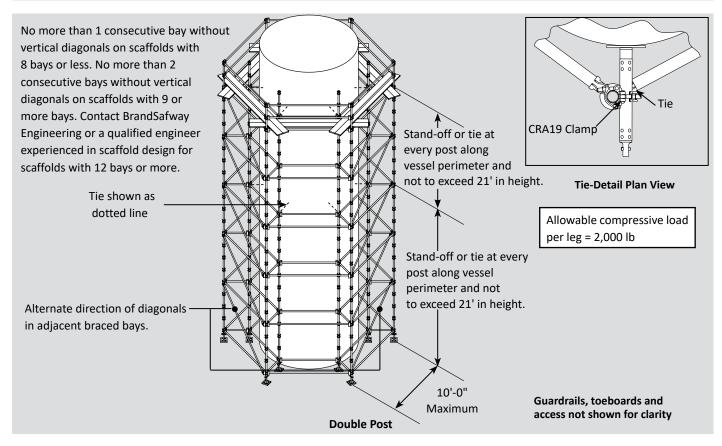


Note: Take extreme care when designing a tower guyed to the anchors below. The applied vertical and horizontal loads and wire pretensioning loads must be determined and included in the scaffold design. Consult BrandSafway Engineering or a qualified engineer familiar with scaffold design. Place all guys at fully braced levels only.

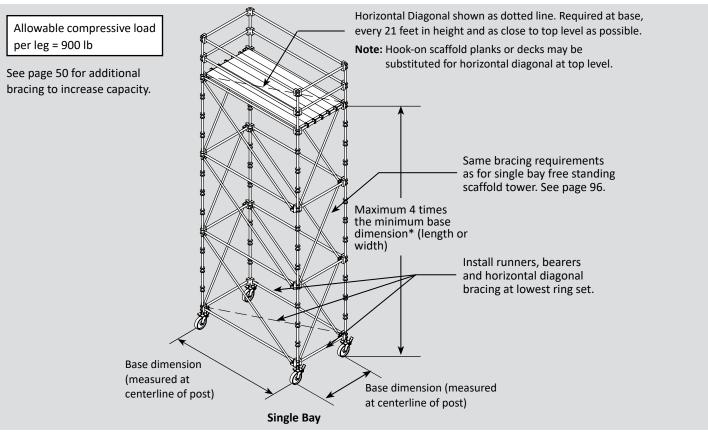
- * Three times the minimum base dimension (length or width) in California and some other jurisdictions.
- ** Where field conditions preclude ties at these levels follow BrandSafway Systems Scaffold Safety Guidelines. Install vertical diagonals on posts at bearer/runner connections. See page 96 for vertical and horizontal diagonal bracing.

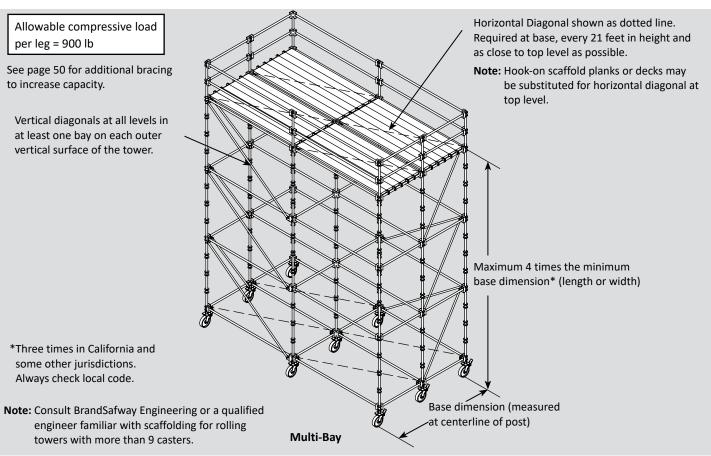
Circular Scaffold Tying and Bracing





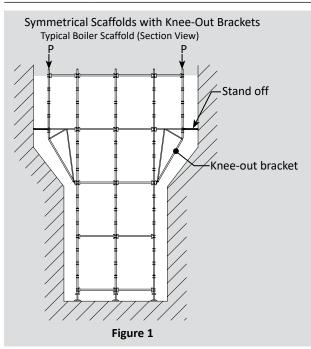
Rolling Scaffold Bracing

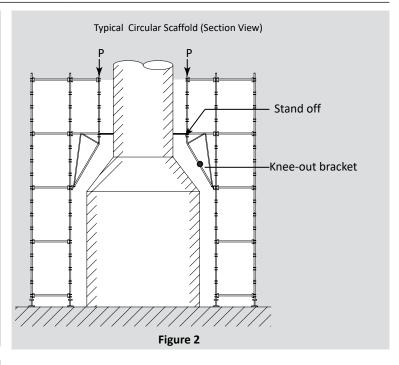


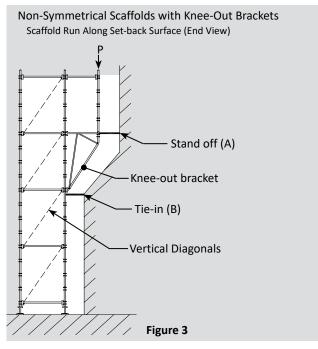


| Knee-Outs Bracing & Tying | | | | |
|---------------------------|-----------------|-----------------------------|--|--|
| Part No. | Effective Width | Allowable Concentrated Load | | |
| | ft-in | lb | | |
| SKO3 | 3'-0" | 3,325 | | |
| SKO45 | 3'-9" | 2,650 | | |

Allowable concentrated load for knee-out brackets (SKO) are shown on page 63. Loads in table above may be used when knee-out brackets are installed in symmetrical scaffolds as shown in figure 1 and 2, and in non-symmetrical scaffolds when auxiliary bracing is installed to prevent overturning and racking. See figure 3.







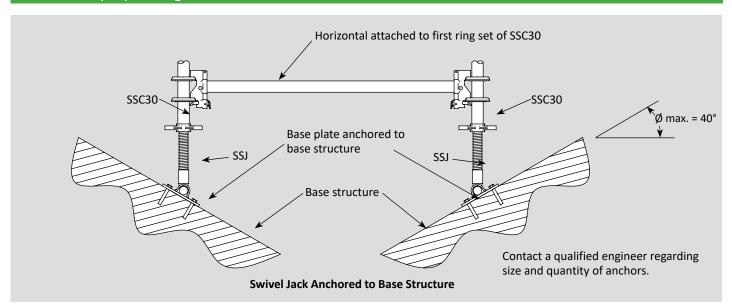
Non-symmetrical assemblies similar to figure 3 require a stand-off at A and a tie-in at B on each frame line with knee-out brackets. In addition, vertical diagonals may be requred in each frame plane. Contact BrandSafway Engineering or a qualified engineer familiar with scaffold design prior to erecting such non-symmetrical scaffolds.

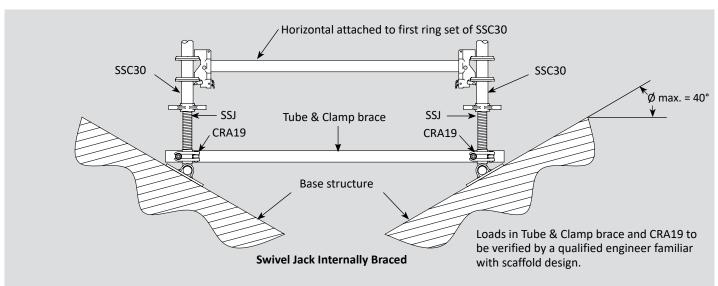
Location of standard ties/stand-offs must comply with the 4:1 height-to-minimum base width ratio*. Allowable concentrated loads for knee-out brackets installed on scaffolds are shown on page 63.

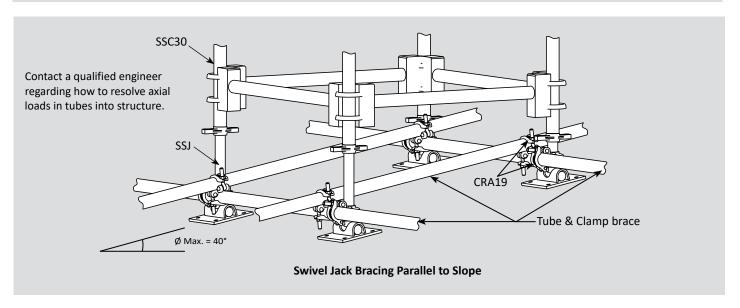
Note: All scaffolds with knee-out brackets also require bracing and tying as shown in applicable sections of this manual.

*Three times the minimum base dimension (length or width) in California and some other jurisdictions.

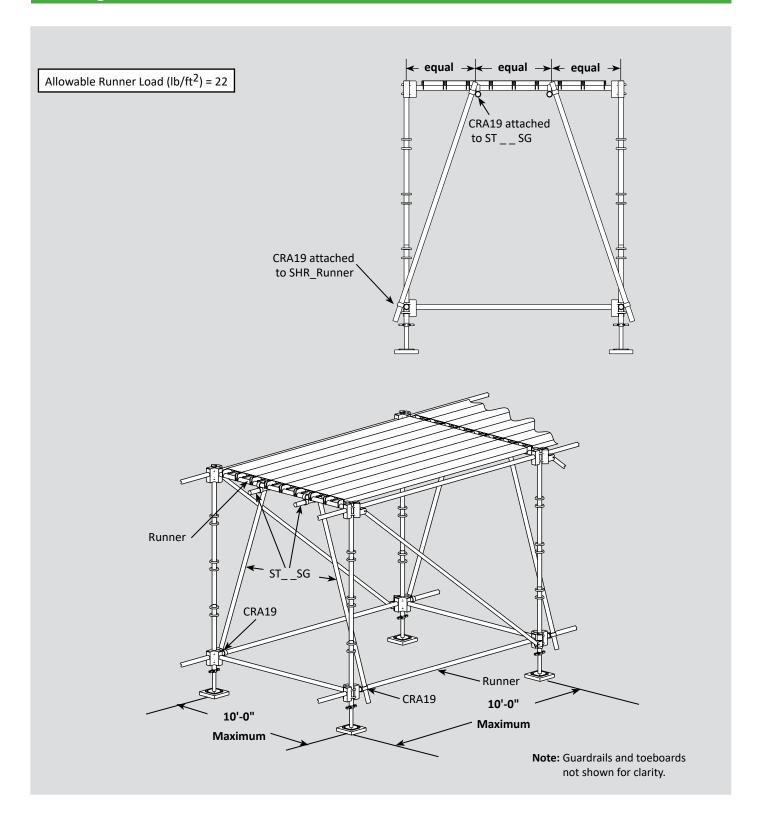
Swivel Jack (SSJ) Bracing



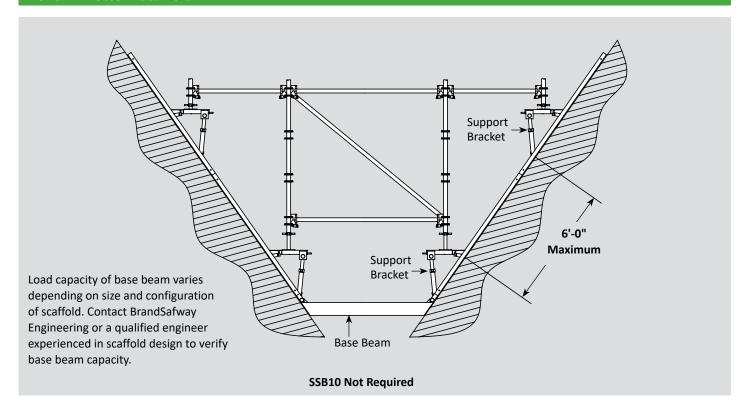


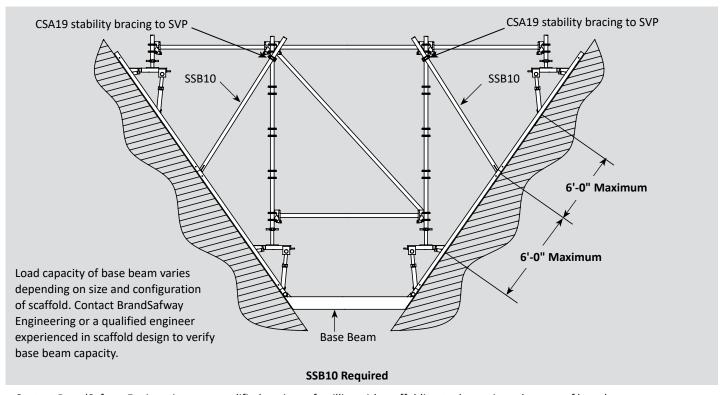


K-Bracing Runners

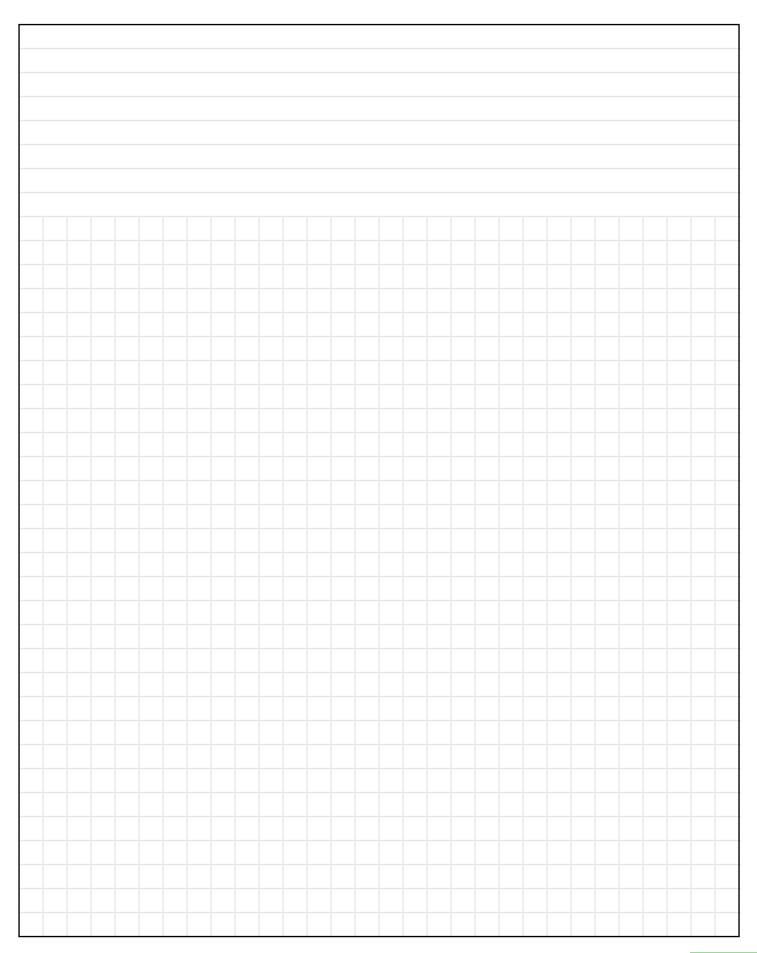


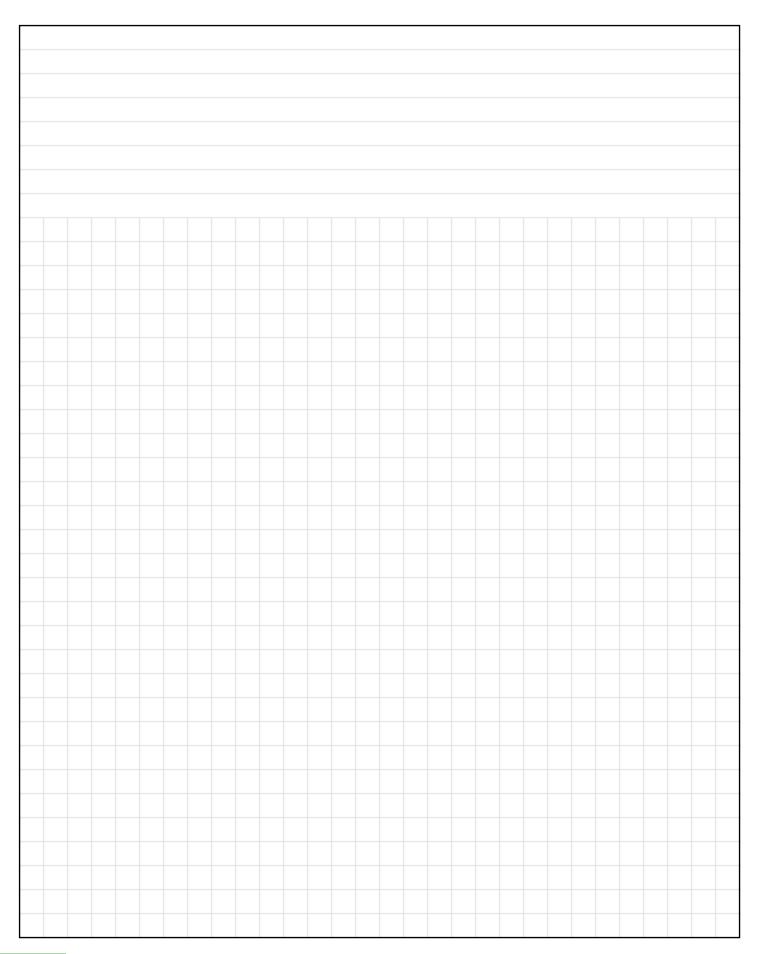
Boiler V-Bottom Scaffold

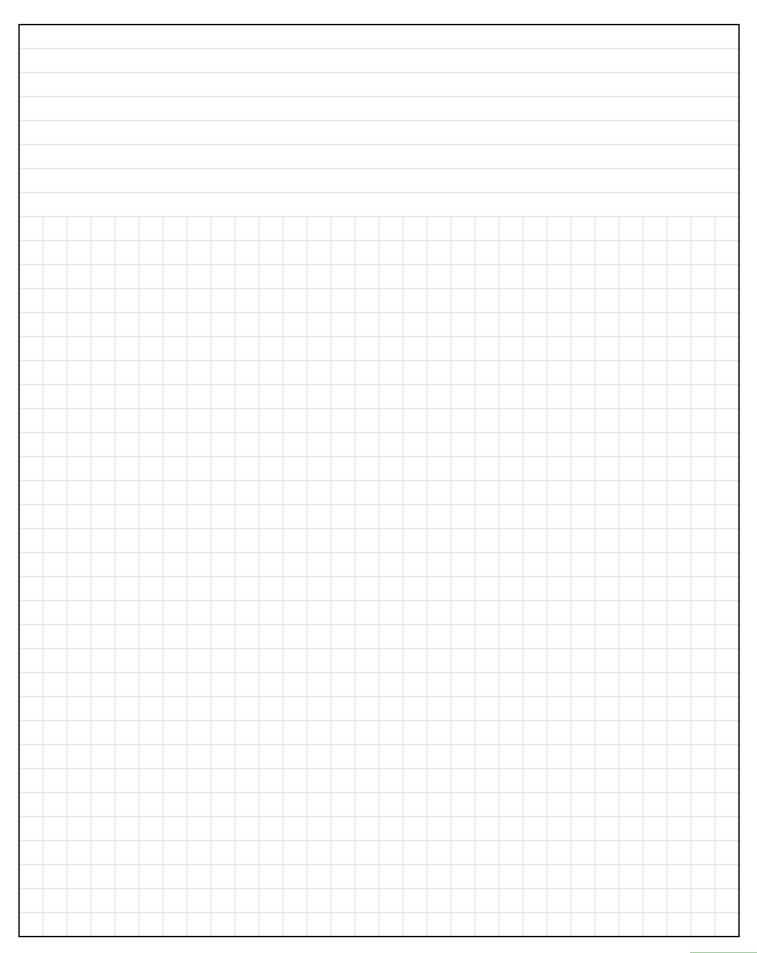


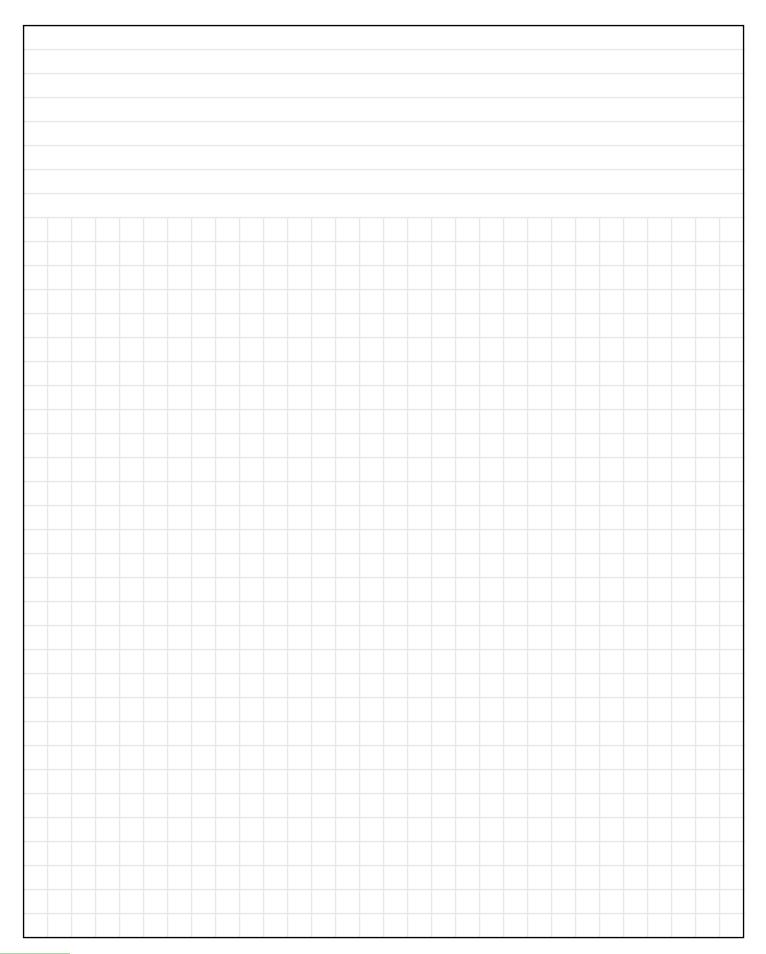


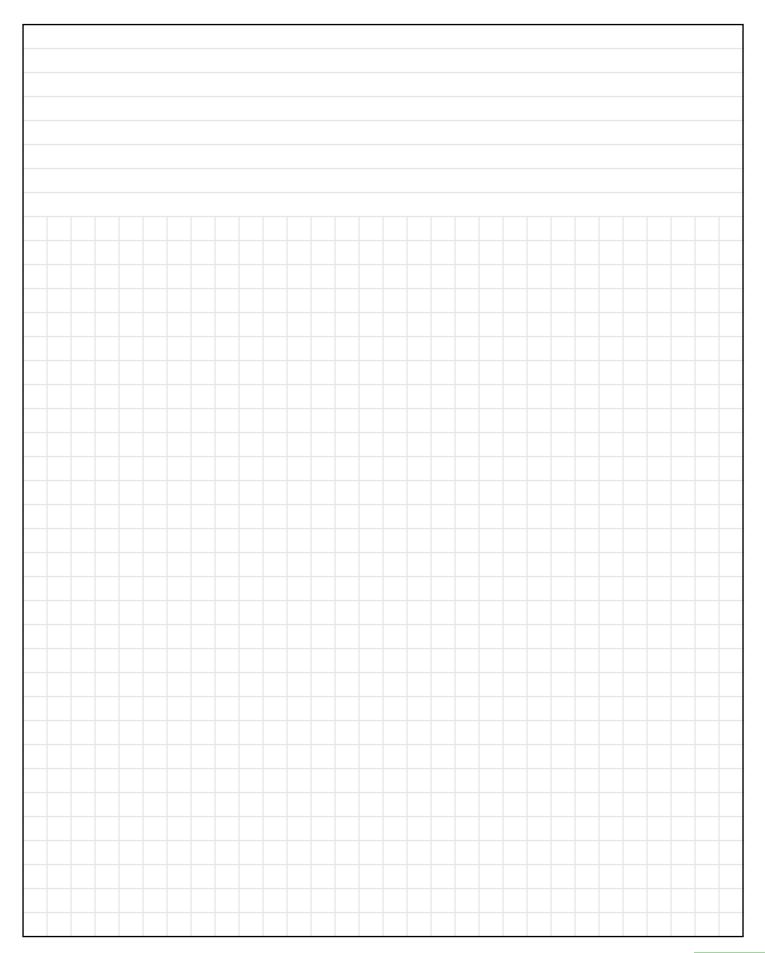
Contact BrandSafway Engineering or a qualified engineer familliar with scaffolding to determine adequacy of base beam and boiler support frames (SBF_).











BRAND SAFWAY.

With a commitment to safety as its foremost value, BrandSafway was created when Brand Energy and Infrastructure Services and Safway Group combined in 2017. BrandSafway is a portfolio company of Clayton, Dubilier & Rice.

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