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DISCLAIMER

It is always in your best interest to have professionals like Scaffold Service, Inc design and install scaffolding, but if not the intention of this book is to give the customer a basic understanding of scaffolding and what is available to them to help them access the work to be preformed in a safe manor. It is not to be deemed the "bible" of scaffolding, nor is it all inclusive of all regulations. In no way shape or form does it replace the federal safety standards for scaffolds used in the construction industry covered in 1926.450 Subpart L. Nor is the guide intended to supersede any state, local or your own corporate safety policies. While we take every effort to ensure the accuracy of the information contained in our catalog, we do not accept any responsibility for any errors which may occur herein or for any loses of any kind that may be incurred.

A competent person must be present during erection and dismantle, inspect each day before use and during any alteration of original set. We at Scaffold Service provide the training needed (sanctioned by the SAIA) for your company to deem you the competent person. Call for next available class.

<u>SCAFFOLDING</u> (scaf. fold.ing) defined as a temporary elevated platform either supported from below or suspended from above and its supporting structure (including anchorage point), used for supporting employees or material or both.



BASIC SUPPORTED SCAFFOLD TYPES

There are three basic types of scaffolding available in the United States for use in the construction industry. Most common is welded frame scaffold. For industrial type work, system scaffold along with tube and clamp are more prevalent.

Welded Frame Scaffolding

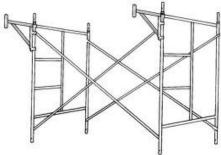
Welded frame scaffold is used where there is little restriction as to set up. They are popular with the mason, plasterers and general construction. They can be something as simple as a rolling tower or a more elaborate large platform. Welded frame scaffold is simple and fast to set to provide access to work areas. You can also purchase fiber glass and all aluminum scaffold.

System Scaffold (Ring)

System scaffold is used where there are restrictions as to access into the build site or if obstacles like piping are in the way of a traditional set. It allows the competent person to build irregular sets such as rectangular shapes. It has various fixed lengths available and lifts are at 18" intervals. Scaffold Service primarily uses ring scaffold, but there are many other styles of system scaffold.

Tube & Clamp Scaffolding

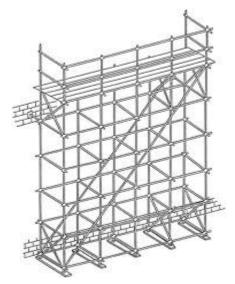
Like system scaffold, tube and clamp is a highly versatile scaffolding, but it requires a greater expertise to erect. It mimics what was done in the old days with lumber. It takes the longest to set because of all the clamps required to securely install the scaffold. This type of system is also know as twist lock.



Welded Frame Scaffold



System Scaffold



Tube & Clamp Scaffold

COMMONLY ASKED RULES OF SCAFFOLDING

- Towers can free stand at a height not to exceed four times your narrowest base dimension. (example a tower has a base of 5' x 7' then the tower can free stand 4x5'=20' tall).
- Ties for scaffold less than 3' wide start at 4 times the width and then every 20' vertically and every 30' horizontally. Scaffolds wider than 3' start at 4 times the width of the frame and then every 26' vertically and every 30' horizontally. More ties are required when enclosing scaffold with poly. (consult your sales rep for help).
- Guardrail/fall protection is required when the platform is at 10' (6' for residential construction) and the top rail must be between 38" to 45" above platform.
- Face guardrail is not required if the platform is within 14" of the face of the structure being worked on (18" for stucco, plaster and EIFS work).
- Guardrails must be able to with stand 200 lbs of applied force in a downward or horizontal direction at any point along the rail.— midrails 150 lbs.
- Toe boards are required on open ends when people are working underneath the scaffold. They must be able to withstand a 50lbs force.
- Spacing between platforms and supports cannot exceed 9 1/2", and no more than 1" between planks.
- Wood planks shall not be less than 6" from support point (unless cleated) and no more than 12" when overlapping to create a long platform. The minimum over lap must be 12" unless nailed together.
- Access to a platform 2' above or below any other platform shall be by portable ladders, integrated frame ladders, ramps, stairways, direct access from building or personnel hoist ect.
- When accessing with a ladder, the bottom rung cannot exceed 24", a rest platform must be provided every 35' and rungs spacing must be between 11.5" to 16.75". For an attachable ladder, the minimum rung width is 11.5" and for built-in frame ladders minimum width is 8".
- Access stairways bottom step can be a maximum 24" with a rest platform every 12', step width minimum is 16".
- Stairways must be between 40 to 60 degree from horizontal.
- Ramps or walkways more than 6' above lower levels shall have guardrails and ramp shall not exceed 1 vertical to 3 horizontal units or 20 degrees above horizontal (exception are permissible, consult with your sales rep).
- Scaffolds must have a suitable base: base plate, casters and sills if ground is other than concrete or steel.
- Dailey inspections prior to use are required. Inspection tags are available for purchase at Scaffold Service to hang from scaffold.
- Scaffold must not be within 10' of any power lines.

TO ORDER CALL: 800-237-0417

GENERAL REQUIREMENTS FOR ERECTION, USE AND DISMANTLE OF SUPPORTED SCAFFOLD

OSHA has mandated that a competent person must be present during erection and dismantle, inspect each day before use and during any alteration of original set. Scaffold Service, Inc is sanctioned by the SAIA to provide you with classes, testing and certificate of completion of the class so that your company can deem you as a competent person. Once at a project considerations always needs to be given from site to site as to the hazards, erecting, proper use, moving and dismantling of the scaffold.

Erecting

Proper planning is key to any project and the competent person needs to plan the erections of scaffold. The competent person can build scaffold up 125' without engineering, but once beyond that point engineers have to be involved to ensure proper loading will not be exceeded. Consideration has to be given to the base on which scaffold is to be set on, the height of the scaffold for tie in purposes and also such things as to how many levels will be decked. All these factors play into the stability of the over all set. All scaffolds need to be plumb, straight and components also checked to ensure they're in good condition before used in a set. Most of all the scaffold must be set in compliance of federal, state, local and personal company policies.

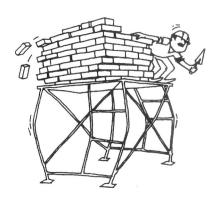
Use of Scaffolding

The scaffold is to be inspected by a competent person on a daily basis prior to each shift and corrective action must taken if issues are found. That person must also give authorization for any changes to a scaffold. Precautions must be taken when personnel are working on levels below the scaffold and also as to not to overload the scaffold which can cause failure. Never use cross braces to climb on for any reason. Never use scaffold as an anchorage for fall protection unless designed for that purpose along with manufactures authorization.

Dismantling

Prior to dismantling scaffold it should be inspected to ensure nothing has been altered especially wall ties. Since scaffold is dismantled from the top down if wall ties in the center where removed by someone else prior to dismantling and then you take off the ones at the top the scaffold the whole set would become unsafe or even worse collapse. When dismantling you are never to store dismantled items on the scaffold. All components should be lowered to the ground as they are removed.







GENERAL COMPONENTS OF SUPPORTED SCAFFOLDING FRAME & SYSTEM STYLES

In this section we will go over various components of supported scaffolding, from foundations to the accessories that will make your scaffold safe and functional. Depending from site to site, the competent person will choose the equipment that is best suited for their needs and a safe set up.

Foundation / Sills

The strength & stability of any scaffold set is dependent upon a good foundation. Many accidents occur due to a poor foundation. The competent person must understand the loads that are put on the foundations. Base plates, leveling jacks or casters are required under all scaffold sets. In soil or rocky conditions mud sills may also be required to disburse the load of a set, even asphalt will need a sill. On average the point load can only be disbursed about 14" from the center point of the leg load but a sill should have at least 9" past the center point of the leg, and when possible use a sill that spans between both legs of a frame. The use of bricks or loose gravel to level out the legs is not acceptable.

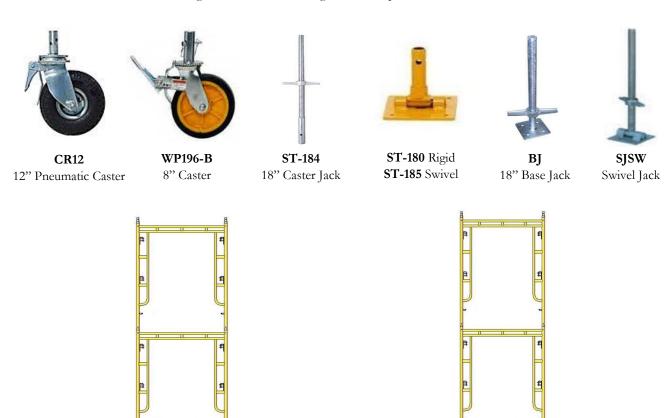


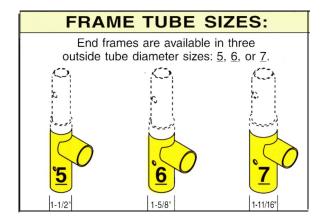
Fig 1: Small sills have a small load area and could sink if soil unstable

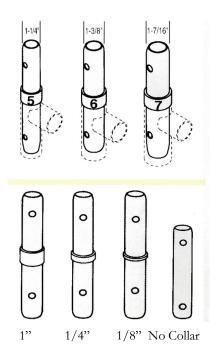
Fig 2: Large sills have a greater load area

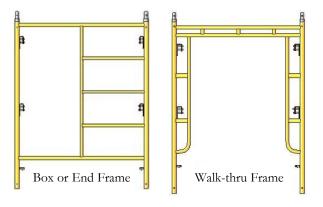
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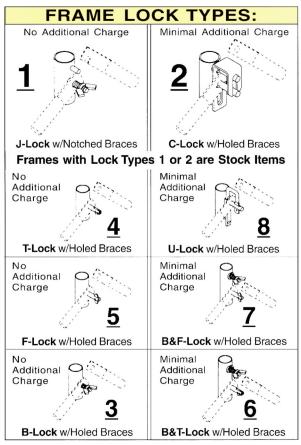
Frames

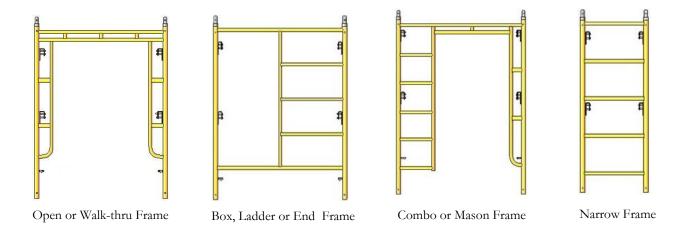
Frames come in various sizes from 2' wide to standard 5' wide and also special canopy frames that are 6' wide to make pedestrian walkways. Widths of frames are measured from center of leg to center of leg so consideration must be given in tight places when ordering frames. A 24" wide frame actually measures a little over 25" and with the base plate or jacks, the over all outside dimension would be over 29". Frames come in two basic styles; box or end frames and also walk-thru style. They come in heights of 2' up to 6'7' and will stack to make any height desired for your platform. They also come in various tube diameters. Scaffold Service uses a #7 tube with pins at a 45 degree angle. Scaffold Service end frames come with a legal access ladder built into the frame so there is no need to rent a special bolt on ladder. Below are frame tube sizes, coupling pin size and collar types and last lock styles on frames.











SSI RENTAL FRAMES

Part#	Type	Size	Lbs	Brace Stud
FLT2	Ladder	2'H X 5W	26.0	1
FLT3	Ladder	3'H X 5W	29.5	2
FLT4	Ladder	4'H X 5W	36.5	3
FLT5-15	Ladder	5'H X 5W	39.5	4
FLT64-15	Ladder	6'4"H X 5W	45.5	4
FWT64	Walk-thru	6'4"H X 5W	49.5	4
FWTL64	Combo	6'4" X 5W	65.0	4
FLT33	Ladder	3'H X 3W	19.0	2
FLT35	Ladder	5'H X 3W	31.0	4
FLT364	Ladder	6'4"H X 3W	39.0	4
FWT364	Walk-thru	6'4"H X 3W	39.0	4
TFL3	Ladder	2'H X 5W	16.5	2
TFL5	Ladder	2'H X 5W	25.5	4
TFL64	Ladder	2'H X 5W	33.5	4
SW-676C	Canopy	7'6"H X 6W	60.0	4

^{*}Many other frame styles & sizes available for purchase & special order

LOAD CHART FOR FRAMES

Part#	Type	Tier 1	Tier 2	Tier 3	Tier 4
FLT3	3'H X 5W	4,200	3,465	3,360	2,993
FLT4	4'H X 5W	4,200	3,465	3,360	2,993
FLT5-15	5'H X 5W	4,043	3,360	3,213	2,835
FLT64-15	6'4"H X 5W	2,441	2,240	2,048	1,785
FWT64	Walk-thru	3,434	3,045	2,646	2,373

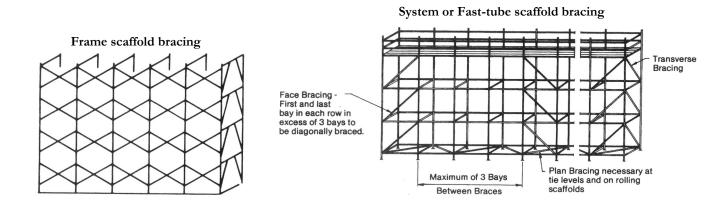
For towers in excess of 4 tiers high, subtract dead load weight/leg of frames, cross braces, & brackets above fourth tier to obtain an allowable load/leg for workman, material and planking. All values are based upon a maximum of 12" extension on the leveling jacks

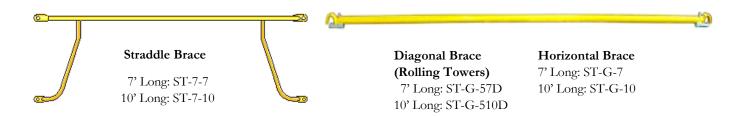
The load chart above is for quick reference purposes only on what leg loads typically are, but they will differ a little from manufacturer to manufacturer and also based on tube size. Extreme caution should be used in trying to calculate leg loads for large sets. We strongly recommend to consult your rep or an engineer for proper calculations to avoid any failures of overloading your scaffold.

Due to the mass differences in types in style of scaffolding, we can only stock and rent just so many. Scaffolding can be special ordered to the same specs as what you may currently have in your inventory. They can also come ordered in other materials like aluminum or even fiberglass. Your Scaffold Service rep is committed to helping you get what you need or want for your inventory so call them today.

Bracing

Bracing is a vital part of the strength and integrity of scaffolding. Bracing includes cross braces, horizontal and diagonal braces for frame scaffold, and bay brace and ledgers for system scaffold (covered later). Wall ties for right angle bracing for both. All vertical members must be braced at regular intervals. A common "don't" that happens in the field is using cross braces to climb up scaffold, THIS IS NOT ALLOWED. Bracing is required every 6'6" on the plan of the face of the scaffold. Bracing for frame scaffold is required on both face sides but not the transverse since it is built into the frame. For system or fast tube, no more than three un-braced bays between each bay braced section. The Braces should always be in at wall tie points for system & fast-tube.







Rent and stock tubular, available special order in angle iron. The brace length is determined by the plank size used. Keep in mind when wood scaffold grade planks are used, the plank must overhang a minimum of 6" and a maximum of 12" so choose a brace smaller than the wood plank size.

	SPACE BETWEEN FRAMES					
Stud Space	4'0"	5'0"	6'0"	7'0"	8'0"	10'0"
1'0"	B41	B51*	B61	B71	B81*	B101
2'0"	B42	B52	B62	B72	B82	B102
3'0"	B43	B53	B63	B73	B83	B103
4'0"	B44	B54	B64	B74	B84	B104

Ties

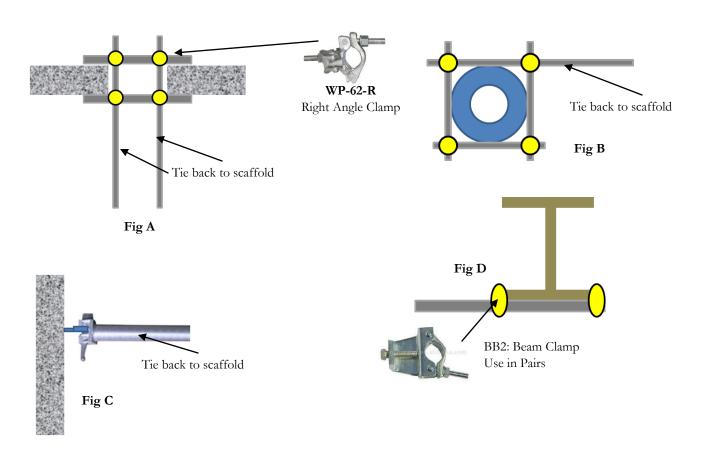
Ties are essential for the strength and safety when scaffold exceeds the 4:1 height to base ratio. Ties keep the scaffold plumb and secure it from tipping in towards the surface (compression) or pulling away from the surface (tension). This can occur due to wind loads or over loading an area. Old school is to use 2x4 studs for compression and number 9 tie wire for tension. Scaffold Service used anchor I-bolts with a system ledger to accomplish both compression & tension.

GENERAL RULES TO FOLLOW:

- 1) All ties should be attached with load bearing clamps
- 2) The entire scaffold should be tied using the follow schedule; for scaffold less than 3' wide start at 4 times the width and then every 20' vertically and every 30' horizontally as well as both ends. Scaffolds wider than 3' start at 4 times the width of the frame and then every 26' vertically and every 30' horizontally as well as both ends. More ties are required when enclosing scaffold with poly. (consult your sales rep for help)

COMMON TYPES OF TIES:

- 1) Through Ties; where a tube is taken through any opening like a window and tightly clamped inside and outside the opening to create a positive tie. (Fig A)
- 2) Box Ties; in which tubes are used to go around columns (Fig B)
- 3) Anchor bolt ties; (most commonly used) in which I-bolt anchors are put into a structure or mortar joints to create a connecting point. The anchorage point most have a pull out force of 800 lbs for lite, 1200 lbs for medium or 1600 lbs for heavy duty scaffolds. This will require patching of holes after the anchors are removed. (Fig C)
- 4) Tube to beam ties; which you use a pair of beam clamps to secure the tube to a steel I-beam and then back to the scaffold.



Planking

Scaffold planking comes in many different styles including wood, steel and aluminum planks. Like any other scaffolding components they should be inspected prior to use and select the right plank for the right job. Hook planks can be all aluminum or aluminum sides with a ply top deck. Planks have a rating of pound per square foot (psf). For example a 7' plank 19" wide would have an evenly distributed weight capacity of 831 pounds (1.58'x7'x75psf). Stay within the recommended loads to avoid collapse. Aluminum planks and steel planks can come with one of two hook types A or 1 which is 7/16 from top of scaffold to top of the plank and hook type B or 2 is 1 5/16 (Fig A). Type 2 hooks are used so that if you use a wood plank next to it to fill in gaps there is no tripping hazard. Wood planks can be either solid sawn or laminated veneer lumber "LVL" and come in various widths.

Fig A

Type 1 or A



Type 2 or B



CAUTIONDebris and rubble should never be allowed to accumu-

In winter conditions always keep planks free of snow and

On high scaffolds extra care

should be taken for wind

effects. All planks up high

should be tie wired down or plank restraining clip used.

late on planking.

ice buildup.

Part#	Size	Lbs
OD-8619-04	19" X 4'	25.0
OD8619-05	19" X 5'	26.0
OD-8619-06	19" X 6'	28.0
OD-8619-07	19" X 7'	32.0
OD-8619-08	19" X 8'	36.0
OD-8619-10	19" X 10'	44.0

Part#	Size	Lbs
OD-7119-05	19" X 5'	22.0
OD-7119-07	19" X 7'	32.0
OD-7119-10*	19" X 10'	40.0

Part#	Size	Lbs
PSS-5	9.5" X 5'	23.5
PSS-6	9.5" X 6'	28.0
PSS-7	9.5" X 7'	33.8
PSS-10	9.5" X 10'	46.5

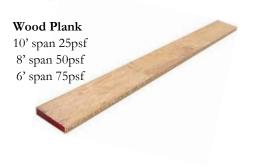
Part#	Size	Lbs
WP4	9.5" X 4'	15.0
WP6	9.5" X 6'	22.5
WP8	9.5" X 8'	30.0
WP9	9.5" X 9'	32.0
WP10	9.5" X 10'	33.7
WP12	9.5" X 12'	45.0
WP16	9.5" X 16'	60.0

Alum w/Ply top 75psf



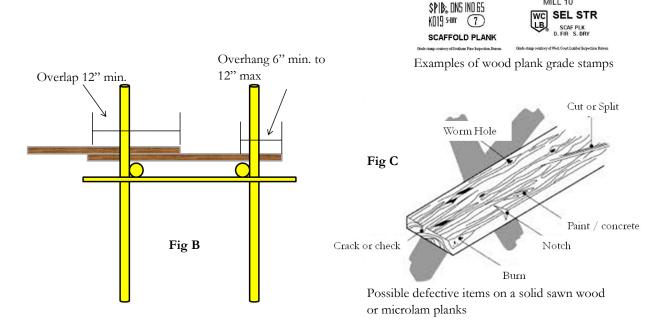
All Aluminum 75psf *10' is 50psf	
The state of the s	





Wood Planking Special Requirements

Unlike standard hook planks that are made to fit the exact length of a frame set, wood planks have special rules that must be followed to avoid failure or fines for improper use. Most wood plank are nominal 2" x 10" and must contain a stamp stating "SCAFFOLD GRADE". Wood planks are required to extend a minimum of 6" beyond the center bearing point of the scaffold (unless cleated to prevent movement) and no more than 12"(Fig B). Inspection of the planks should be done prior to each use. Your rep should be able to provide you with a guide to inspect wood boards and for testing deflection. Figure C shows some of the thing to look for during inspection.



Large Plank



Part#	Size	Lbs
P1412	14" X 12'	40.0
P2412	24" X 12'	56.0
P1416	14" X 16'	58.0
P2416	24" X 16'	81.0
P1420	14" X 20'	85.0
P2420	24" X 20'	115.0
P1424	14" X 24'	109.0
P2424	24" X 24'	138.0
P2428	24" X 28'	204.0
P2432	24" X 32'	236.0
AXP1408	14" X 8-13'	40.0
AXP1410	14"X 10-17'	56.0

SSP: are the guardrail post require every 8' and aluminum tubes are used for the rails

Other sizes and styles of planks are available for order just call your rep to get pricing and availability.

Loads

The maximum load capacity of any scaffold is determined by the maximum load of the various components and by making sure you stay within those limits. A frame header can support 2,300 pounds on a 4' wide frame which can hold 2 hook planks, this doesn't mean you can load the planks with the 2,300 pounds. Both planks together can only support 1,632 pounds evenly distributed. You must also consider leg loads when building tall structures. OSHA requires a 4:1 safety factor to be used when designing scaffold. This safety fact is used in computing the load capacity of all the scaffold components that will have people working on them (material handling components are typically 2:1). In order to compute the load being applied, one must determine its use on all working levels, how many levels there are or will be and how tall the scaffold will be.

Definition of live loads

- Lite Duty: 25 pounds per square foot. (Painting & Window cleaning)
- Medium Duty: 50 pounds per square foot. (Plastering & Stucco)
- Heavy Duty: 75 pounds per square foot (Mason, Stone setter & other heavy load contractors)

LOAD CHART FOR FRAMES

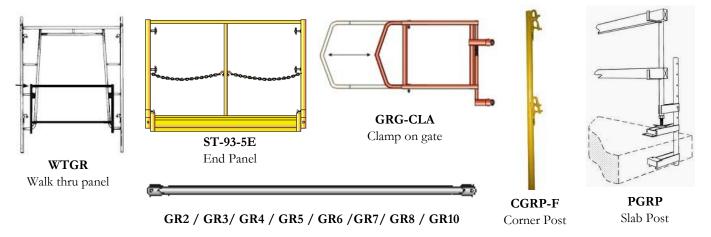
Part#	Type	Tier 1	Tier 2	Tier 3	Tier 4
FLT3	3'H X 5W	4,200	3,465	3,360	2,993
FLT4	4'H X 5W	4,200	3,465	3,360	2,993
FLT5-15	5'H X 5W	4,043	3,360	3,213	2,835
FLT64-15	6'4"H X 5W	2,441	2,240	2,048	1,785
FWT64	Walk thru	3,434	3,045	2,646	2,373

For towers in excess of 4 tiers high, subtract dead load weight/leg of frames, cross braces, & brackets above fourth tier to obtain an allowable load/leg for workman, material and planking. All values are based upon a maximum of 12" extension on the leveling jacks

The load chart above is for quick reference purposes only on what leg loads typically are, but they will differ a little from manufacturer to manufacturer and also based on tube size. Extreme caution should be used in trying to calculate leg loads for large sets. We strongly recommend that you consult your rep or an engineer for proper calculations to avoid any failures or overloading your scaffold.

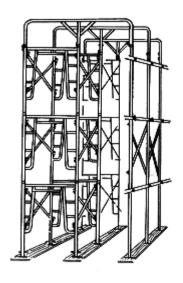
Guardrail & Toeboards

When any work platform is above 10' in height (6' for residential) guardrail & midrails are required. The height of the top rail should be between 38"-45" above the platform and the midrails should be midway between the top rail and platform. Guardrail can be omitted on the work surface side if the tower is no more than 14" from the surface (18" for stucco, plaster or EIFS). Top guardrails most be able to withstand a force without fail of 200 lbs applied in any downward or horizontal direction at any point on the guardrail. Midrails must withstand a force of 150 lbs. Toe boards are required on any open side in which there are people working below that platform. They need to be at least 3.5" tall and be able to withstand a 50 lbs of force.



Enclosures for Scaffold

When enclosing scaffold in poly the tie schedule should be increased because with poly, the wind forces on the scaffold are extreme, even in winds of 30 miles per hour. Thus, the tie schedule should be a minimum of every 13' vertically and 14' horizontally. The anchor points must also be able to with stand a pull force of 1500 lbs. This tie schedule is based on scaffold with a height max of 60' and winds not exceeding 30 mph. Anything greater than these numbers one should consult an engineer for a proper tie schedule and anchorage pull force.



Part#	Desc	Lbs		
BWET	Тор	28.0		
Leg Option #1				

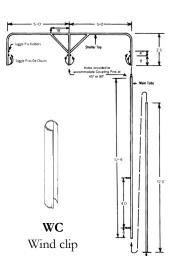
BWEL	23' Adj Leg	40.0

l.eg	r ()	ption	#2

BWEL9	9' Inner Leg	15.2			
BWEL10	10' Outter Leg	28.0			

Extension for either							
BWE10	10' Ext Leg	15.5					
BWEL5	5' Ext Leg	7.0					

Scaffold Service also stocks various size poly along with wind clips for both frame and system scaffold







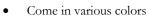




Mesh Netting

- Come in various colors
- 30%- 90% Shading
- Height 4'-10' x 150'

Debris Netting



- Knitted or 1/8 to 1/4" square
- Height 4'-12' x 150'

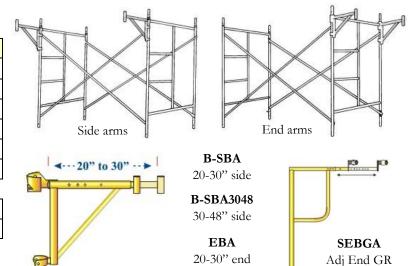
Side arms & End arms

When scaffold cannot be built close to a structure or if its just for the ease of moving a work platform side arms and or end arms are a great accessory. They are for personnel only not material. Most side arms are rated for only 250 lbs. They can come rigid or adjustable. At Scaffold Service we mainly use the adjustable.

Part#	Desc	Lbs
B-SBA	20-30" Adj Side Arm	14.0
B-SBA3048	30-48" Adj Side Arm	24.0
ST-77H-10	10" Side Arm	8.0
B7-SB24	24" Side Arm	10.5
ST-77H-30	30" Side Arm	14.0
EBA	20-30" Adj End Arm	14.0
Guardrail		

Guarc	1401	
Ouarc	пап	

SBEGA	GR of adj 20-30"	15.0
SBEGA3048	GR of adj 30-48"	19.0



PAGE 15 TO ORDER CALL: 800-237-0417

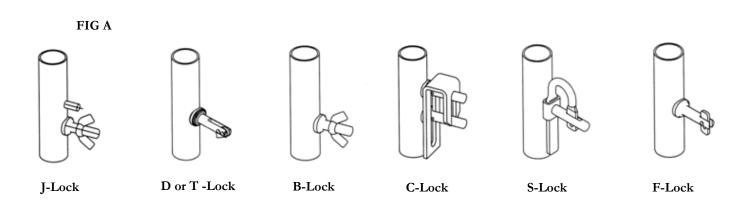
Quick Frame & Brace Count Chart

The chart below can be used to determine how many frames and braces you would need to cover a certain height and length. You choose what size frame you want to use on the left and then choose what size plank. Next determine the height and length you want to achieve and were the two intersect is what you would need for frames and braces. You rep with Scaffold Service can also help you in figuring all you equipment needs.

	EST	IMAT	ſING			Length based on 6' 7' 8' or 10' spacing between frames																					
	(CHAF	RT		10	10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200								200	210	220	230										
	Tot	tal Hei	ight		8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184
No.	4'	5'	6'4"	Qty	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140	147	154	161
High	4	5	04	Used	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
1	4'0	5'0	6'4	Frame	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Ĺ			• •	Brace	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
2	8'1	10'1	12'9	Frame	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
				Вгасе	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92
3	12'2	15'2	19'2	Frame	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
				Brace	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114		126		138
4	16'3	20'3	25'7	Frame	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96
_				Вгасе	8	16	24	32	40	48	56	64	72	80	88	96	104	112		128	136		152				\vdash
5	20'4	25'4	32'0	Frame	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110		120
\vdash				Вгасе	10	20	30	40	50	60	70	80	90	100	110	120		140		160			190				230
6	24'5	30'5	38'5	Frame	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
\vdash				Brace	12	24	36	48	60	72	84	96	108	120	132	144				192		216	228		252		-
7	28'6	35'6	44'10	Frame	14	21	28	35	42	49	56	63	70	77	84	91	98	105		119	126	133	140		154	161	168
\vdash				Brace	14	28	42 32	56 40	70 48	84	98	72	126 80	140 88	154 96	168		196		224	238	252	266		-		
8	32'7	40' 7	51'3	Frame Brace	16 16	24 32	48	64	80	56 96	64 112	128	144	160	176	104 192	112 208	120 224		136 256		152 288	160 304				368
				Frame	18	27	36	45	54	63	72	81	90	99	108	117	126	135		153	162	171	180	189	198		216
9	36'8	45'8	57'8	Brace	18	36	54	72	90	108				180			234	252		288		324			378		l I
1.0	4010	- ala		Frame	20	30	40	50	60	70	80	90	100	110	120	130				170	180	190	200		220	230	240
10	40'9	50'9	64'1	Brace	20	40	60	80	100	120	140	160	180	200	220	240		280		320	340	360	380		420	440	460
11	44'10	55'10	70'6	Frame	22	33	44	55	66	77	88	99	110	121	132	143	154	165	176	187	198	209	220	231	242	253	264
11	44 10	55 10	700	Brace	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440	462	484	506
12	48'11	60'11	76'11	Frame	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
12	TO 11	0011	7011	Вгасе	24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480	504	528	552
13	53'0	66'0	83'4	Frame	26	39	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234	247	260	273	286	299	312
	550	000	001	Brace	26	52	78	104	130	156	182	208	234	260	286	312	338	364	390	416	442	468	494	520	546	572	598
14	57'1	71'1	89'9	Frame	28	42	56	70	84	98	112	126	140	154	168	182	196	210	224	238	252	266	280	294	308	322	336
Ĺ				Brace	28	56	84	112	140	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644
15	61'2	76'2	96'2	Frame	30	45	60	75									210										1 1
				Brace	30	60	90	120	150	180	210	240	270	300	330	360	390	420	450	480	510	540	570	600	630	660	690

Frame Brace Locks and Safety Pins

There are many styles of brace locks on welded frames. Below in (Fig A) shows the various types and how Scaffold Service refers to each type. Scaffold Service frames use the "T" locks which allows the builder to attach the brace without standing next to the frame. OSHA requires a safety pin at any junction where two pieces of scaffold come together and where uplift may occur. Most frames will have coupling pins inserted on top of the scaffold held in place with a semi permanent pin, spring rivet or rivet cotter pin (Fig B). The spring rivet is the most commonly used on frames today. When scaffold is stacked temporarily, pins are used, see (Fig C).





Caution

Caution must be taken anytime scaffold is to be moved by craning or forklifts. If this is attempted you need to replace all (semi permanent & temporary locks) intersecting points with grade 5 bolts. To avoid separation during transporting to new location.



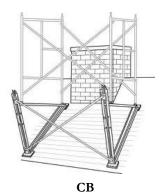
Snap pins and toggle pins come in various lengths the 2" is most common in both. So if you require a special size make sure to specify when placing orders with your rep

Other Miscellaneous Components

There are hundreds of components for welded frame scaffold...too many to discuss but below are other items Scaffold Service rents and sells to make your job easier and safer.



ST-11 Outrigger



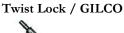
Chimney Bracket



SW6/OHR6/IHR6 Steel 22" Stairs with rails ASW6/ AOHR6 / AIHR6 Alum 24" Stairs with rails



SHShore head





Part#	Size	Lbs
ST-TL-4	4'	9.2
ST-TL-6	6'	13.3
ST-TL-8	8'	19.0
ST-TL-10	10'	23.0
ST-TL-13	13'	34.0



ST-TL-80 Gilco Base Plate



BB2S Swivel Beam Clamp



BB2 Rigid Beam Clamp



GRC G/R Clamp



WP-62-S Swivel Clamp



WP-62-R Right Angle Clamp



BSSFF Side by Side

ST-PL-12 Putlog 12'



ST-PL-16 ST-PL-22 ST-PL-26 Putlog 16' Putlog 22' Putlog 26'



THS S Hanger



ST-PL-221 Putlog Hanger



ST-61 Curved Base Plate



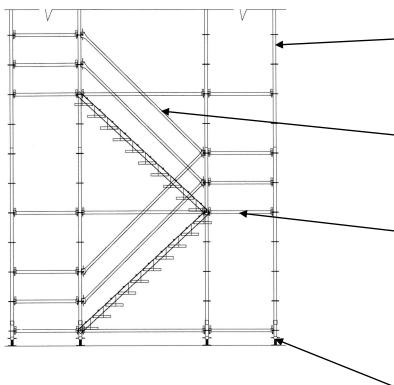
WW Well Wheel



ST-65-H Hoist Arm

System Scaffold (RING)

System scaffold come in 3 basic types cup lock, ring and kwik or wedge lock. System scaffold is one of the most versatile scaffold there is today along with the speed and ease to set up and dismantle. Here at Scaffold Service we carry ring style in various sizes with many sizes available to order for sale. It also has very little chance for errors do to the positive locking system which it makes it safe. This section will concentrate on ring scaffold only, but we can special order for sale the other styles if you need to match your existing inventory.



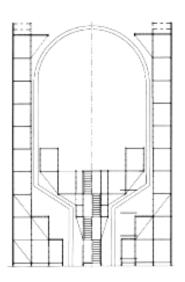
Vertical Standards: Vertical come in various heights and have rings to attach ledgers about every 19.5". This allows for platforms to be added at various heights

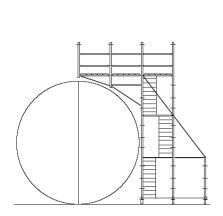
Bay Braces: These braces are used to square up the set along with being used for handles when stairs are installed.

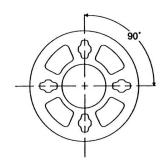
Horizontal Ledgers: Ledgers are used to tie the verticals together to form boxes or even circles. They are also used as guardrails. They can be used as load barring only if they are less than 5'. A maximum of 6'6 in height between ledgers or every fourth rosette.

Truss Ledgers: Ledgers are used for load barring the planks when the span between verticals exceeds 5'

Base Collar & Leveling Jacks

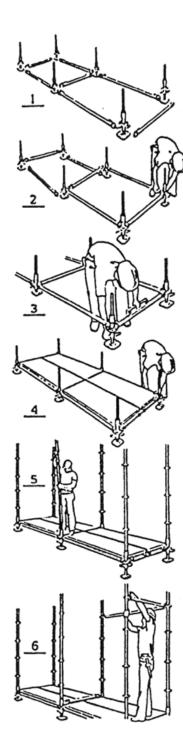




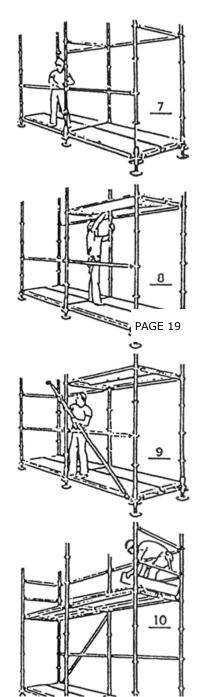


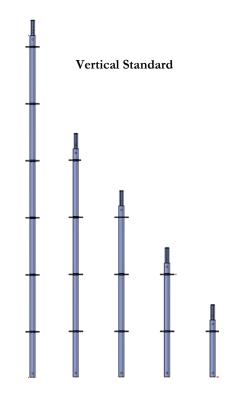
Overhead view of system ring or rosette. There are four slots used to make a perfect rectangle. The larger holes are used when making shapes other than a box and for bay braces.

Basic Set Up Procedure For System Scaffold



- Fit adjustable bases with collars and lay out roughly in position with their corresponding ledgers. Pick the highest ground level for a setting out point to simplify later adjustment. It helps if the screw jack is near (not at) the bottom of the thread by allowing maximum adjustment on lower ground levels.
- Connect the ledgers to the rosette on the collar of the adjustable base. DO NOT DRIVE HOME THE WEDGES AT THIS STAGE.
- Using a spirit level, adjust the bases so that the ledgers are horizontal. Accuracy in leveling at this stage eliminates the need for further leveling and plumbing as the scaffolding is erected.
- Place two aluminum planks or four 255mm (10") wide board in each bay spanning the ledgers to square up the system. Move progressively round the base of the scaffolding. When squared and leveled drive home the wedges.
- When basing out is completed, the first standards are positioned into the collar of the base.
- Ledgers can now be placed at the required levels.
- 7. Handrails is automatically positioned.
- Planks are now moved up to this first lift, decking out fully if this is to be a working platform.
- 9. Fix diagonal braces across the face of the bays. Hammer wedges home.
- The scaffolding is completed by adding ledger midrails, handrails and toe boards on the working platform.

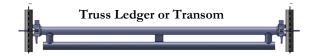


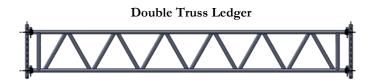




Ledger length center to center of vertical







Vertical Standard

Part#	Height	Lbs
VS1	18"	5.0
VS33	3'3"	11.0
VS411	4'11"	17.0
VS67	6'7"	21.0
VS99	9'10"	32.0

Horizontal Ledger Bay Brace

Homzomai	norizontai Leuger									
Part#	Length	Lbs	Part#							
SL1	1'	5.0	NA							
SL20	2'0"	6.8	NA							
SL22	2'2"	7.0	NA							
SL210	2'10"	8.0	NA							
SL30	3'0"	8.5	NA							
SL35	3'6"	9.4	BB35							
SL36	3'7"	9.6	BB36							
SL310	3'10"	10.0	BB310							
SL40	4'0"	11.0	BB40							
SL43	4'3"	12.0	BB43							
SL50	5'0"	15.0	BB50							
SL54	5'4"	16.0	BB54							
SL60	6'0"	20.0	BB60							
SL70	7'0"	22.0	BB70							
SL80	8'0"	24.0	BB80							
SL100	10'0"	26.0	BB100							

Truss Ledgers

Part#	Length	Lbs
TL70	7'0"	35.0
TL80	8'0"	40.0
TL100	10'0"	50.0

Double Truss Ledgers

Part#	Length	Lbs
DTL14	14'	103.0
DTL17	17'	130.0
DTL21	21'	160.0
DTL28	28'	219.0

Other sizes are available for special sales orders contact your local rep to get pricing.

TO ORDER CALL: 800-237-0417

Other System Components

There are hundreds of components for system scaffold...too many to discuss but below are other items Scaffold Service rents and sells to make your job easier.

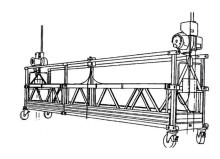


BASIC TEMPORARY SUSPENDED SCAFFOLD TYPES

There are three basic types of suspended scaffolds available for use in the construction industry. Again this is just a general overview of common types, but many more are available for sale, just contact your rep.

Swing Stage (Two Point Suspension)

A swing stage has a two, or more point suspension. They can be made with standard fixed length aluminum pick boards, modular decks or knock down decking.

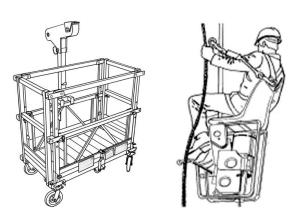


Work Cage (Single Point)

Work Gages are a single point suspended scaffold. Typically for one man, but in some cases wings can be added to make it a two man basket.

Bosun Chair (Single Point)

Bosun chairs are another single point suspended scaffold. This is only for one person and is used for window washing, repairs or just to get into tight spaces.



GENERAL REQUIREMNETS FOR ERECTION, USE AND DISMANTLE OF SUSPENDED SCAFFOLD TYPES

Suspended scaffold like supported scaffold has a mandate from OSHA that a competent person must be present during erection and dismantle, inspect each day before use and during any alteration of original set.

Erecting

Proper planning is key to any project. Consideration has to be giving to the structural integrity of the roof, anchor points and parapet walls if you are connecting to them. Inspection of all equipment must be done before installation to ensure there is no damage. Most of all safety concerns must be given for the workers installing the swing.

Use of Suspended Scaffold

Prior to every use a competent person must inspect the swing and corrective action taken if issues are found. A load should be applied each day and tighten all cable clamps to manufactures recommendation with the load on. Each person must have their own safety system anchored to its own anchorage point of 5000 lbs force. Never exceed the lowest load capacity of any component to avoid failure on the site. One should never use a suspended system in wind conditions.

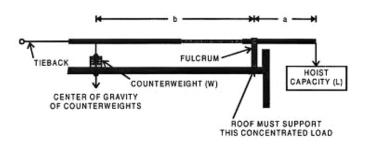
Dismantling

Again an inspection must be performed by a competent person prior to dismantling the suspended scaffold. This will ensure the safety of those who are dismantling the suspended scaffold.

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COMMONLY ASKED RULES OF SUSPENDED SCAFFOLD

- Each person must have their own fall arrest system and anchorage point of 5000 lbs capacity.
- Drop cables and life line must be long enough to reach the ground or lower roof.
- OSHA requires that motors are to be certified annually. Scaffold Service does this for most manufactures call your rep for details.
- Do not use any hoist on a system if it exceeds the capacity of the support system. Example if a beam system is rated for 1000 lbs do not use a 1500 lbs capacity hoist. This can cause the support system to fail.
- Guardrails are required on any open side where a man can fall through. The motor and stirrup can act as an end rail if it is no further than 18" from the end of the deck.
- Never use a suspended work platform when winds exceed 25 mph for 2 point or 20 mph for one point suspensions.
- Anchorage points are any structural items on the roof or PI tie back systems that with stand a 5000 lbs force or factor of safety of 4:1 (whichever is greater). **DO NOT** use air vents, electrical conduit, or standard piping.
- Tie backs must be perpendicular to the face of the building or you must do opposing angle tiebacks.
- Suspension cables and hardware must be capable of holding 6 times its intended load. So on a 1000 lbs hoist the cable must support at least 6000 lbs.
- Mixing of different manufactures equipment is ok as long as they fit together without force and are approved by a competent person.
- A Minimum of three clips (fist grips) must be used for suspension cables unless a factory or qualified person installs a swage. They should be checked after initial load is applied and also before each use there after. (torque to 30 ft lbs for 5/16 fist grips)
- On a two point suspension the deck should be a minimum of 18" wide unless one can show the necessity of less.
- No more than one person shall be on a deck rated at 250 lbs capacity, no more than two on a plank rated at 500 lbs, and no more than three on a deck rated for 750 lbs.
- No platform can be moved horizontally with a person on the platform.
- All scaffold (suspended or supported) must be a minimum of 10' away from any energized power lines.
- Parapet clamps and cornice hooks must only be used on structural walls. Pour concrete walls or block walls that have been back filled with concrete. Never use on hollow brick walls.
- Counter weights must be made of none fluid material. Sandbags are never to be used as counter weights.
- Formula for proper counter weights to prevent uplift is as follow.



Weight= ((L*A)*4)/B

"L" is the hoist capacity

"A" is the over hang of the beam (in front of the fulcrum point)

"4" is for the 4:1 safety factor

"B" is for the distance from the fulcrum point back to the counter weight

GENERAL COMPONENTS OF SUSPENDED SCAFFOLDING

This section will cover the basic components of a suspended scaffold system. There is much more that goes into it but this will give you an idea of what Scaffold Service rents and installs. We have the support system, suspension system and safety system you need to complete you job safely.

Support System

The support system is considered all the roof rigging; like beams, parapet clamps, cornice hooks, tieback cables and counter weights. Scaffold Service has beam systems that can do a reach of 18" up to 10' along with one that can rech over 8' parapet walls and even one that can reach 5' down then go back under 4'.



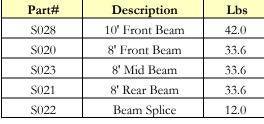
920136 1500# Parapet Clamp adjustable to a 27" wall





920245 L-Tieback Bracket For Flat Roof



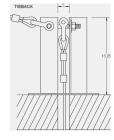








SCW 50# Steel Counter weight



920134 Pigeon Hole



6x19TB Tie Back Cable



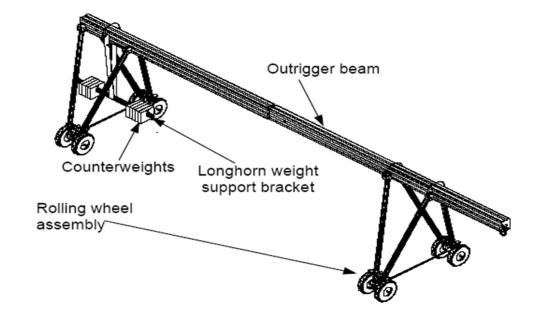
FIST Wire Clamp



SHACKLE 5/8 Screw Pin

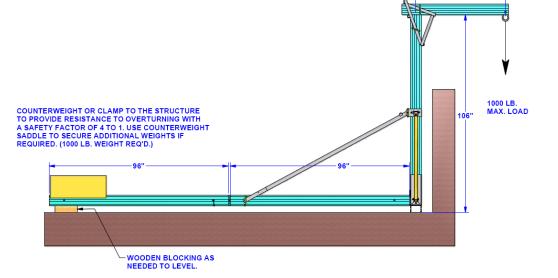
These Item are available to rent at Scaffold Service. Call Today!

Rolling wheel (**\$010** requires 2 per beam) can be added to the beams so you can move the beam without dismantling. It will have either a 36" or 48" overhang. Again no person shall be on a stage being moved horizontally

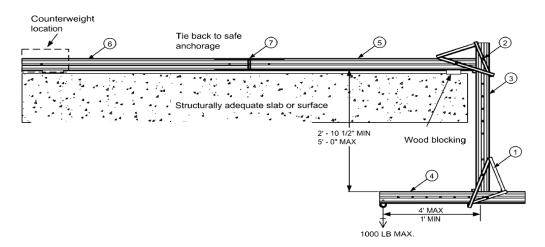


48" MAX.

The System allows you to clear up to an 8' tall parapet wall without using scaffolding



This over under system allows you to go down up to 5' and then go back under 1'-4'.



Suspension System

The suspension system includes the work platform, drop cables, motors and power supply. As mentioned earlier there is three common work platform; bosun chair, work cage and a 2 point work stage. You can use a manual, air and more common electric motors to lift the work platforms. They all have to be UL rated and have 4:1 safety factors built into the motors. Electric motor most often come in 110v or 220v with various load capacity. Remotes can be added to the motors if requested. The cable most commonly used in the construction industry is 5/16 cable and as far as power cord, the common is 10/3 SO with twist lock plugs.

Motors

The motors Scaffold Service rents are listed to the right, but many more kinds are available for special order (sizes and air type). OSHA requires the motors owned by end users be **certified by a factory certified mechanic annually**. Scaffold Service is the place to get your motors certified. We are certified by Sky Climber, Power Climber and Tirak/Tractel. Call your rep for pricing. Never plug in a 110v motor into a 220v supply source. It will cause severe damage to the motor.

SSI MOTORS	XE301P	XE501P	PC1-1000E	KCE-1000
Capacity (lbs)	700	1,000	1,000	1,000
Lift Speed (fpm)	35	35	35	35
Weight	79	123	104	104
Volts	110	220	220	220
Amps	5.2	9.5	7	7.5



Remote





Tirak

XE301





Sky Climber KCE-1000

Power Supply & Cables

Scaffold Service rents and sells 10/3 power cords and 5/16 cables cut to the size you want. We also have power boosters for both 110v and 220v to help increase power for those long drops. For drops that exceed 100' we recommend using 220v motors. There is also a "step down" that can bring 220v power used on your motors down to 110v so you can run power tools from the deck. Our cables are swaged so no need for fist grips.



836110 Strain Relief for Power Cords



10/3 SO Power Cords



9-35B 5/16 Wire Rope



9-18A 110v Yoke **9-18** 220v Yoke



ADAPTER
Various plugs
EPT
220v Pigtail

42491 110v Booster **ST-1** 220v Booster

43246 220v to 110v Step down



72001 Edge Roller

Work Platforms





Adjustable Corner

Part#	Desc	Lbs
360019	Pins	1.0
422950	1/2 Meter Deck	8.0
421005	1/2 Meter Side Frame	7.0
422055	1/2 Meter Guardrail	1.5
360040	1 Meter Deck	15.0
360031	1 Meter Side Frame	14.0
360146	1 Meter Guardrail	3.0
360042	2 Meter Deck	27.0
360033	2 Meter Side Frame	26.0
360148	2 Meter Guardrail	5.0
360043	3 Meter Deck	37.0
360035	3 Meter Side Frame	36.0
360149	3 Meter Guardrail	7.0
360039	U-Frame	10.0
360054	Guardrail Post	2.0
360150	End Stirrup	32.0
360140	End Panel	15.0
360100	Adjustabe Corner	132.0
A-10233	8" Casters	9.0



Sky Stagi	ULTRA SAFI	WORKING LO	AD ONLY FOR CONFIGURATIONS WITH END	STIRRUPS	<u>Sky</u>	CLIMBER
Max. Safe Work Load (uniformly distributed)	Suspension Distance	Self-Weight	Instructions for actual safe working load Add working load limit of hoists.	Self-Weight		k. Safe Working Load (uniformly
distibueat	6'9" (2m)	249lbs (113kg)	Compare working load limit of hoist with max. safe	584lbs (265kg)	(9m) 29'3"	distributed)
2000 lbs	9'9" (3m)	285lbs (129kg)	working load of platform. The LOWfi ST rating is	662lbs (300kg)	(10m) 33'0"	1000
(900 kg)	13'6" (4m)	363lbs(164kg)	the ACTUAL SAFÍ WORKING LOAD. 1 3 3 3	698lbs (316kg)	(11m) 36'0"	lbs
	16' 6" (5m)	399lbs (181kg)	Read 'Installation A A A A A A A A A A A A A A A A A A	734lbs (333kg)	(12m) 39'0"	(450kg)
1500 lbs	19' 6" (6m)	435lbs (197kg)	prior to assembling. 2 3 3 3 2	o i i ibs (sookg)	(13m) 42'9"	750 "
(680 kg)	23' 3" (7m)	512lbs (232kg)	3 2 3 3	847lbs (384kg)	(14m) 45'9"	750 lbs
·	26' 3" (8m)	548lbs (249kg)	3 2 3 3 3 3	883lbs (401kg)	(15m) 48'10"	(340kg)



Part#	Desc	Lbs
PMR1800D	3 Meter Tractel Deck	126.0
PMR1600D	2 Meter Tractel Deck	86.0
STCON01	Tractel Connectors	1.0
STMSTE01	Tractel End Stirrup	45.0
D25809	90 Deg Conrner	45.0
D27551	30 Deg Corner	38.0
PMR0014D	End Panel	10.0

NOTICE

What is listed here are items Scaffold Service Rents. Many more sizes and options are available for purchase. Call your rep today for prices.



9-73 or 9-11 Bosun Chair



25429 Manual Bosun Chair



9-6 Work Cage 38" x 34.5" **9-7** Wings 86" x 34.5"



143-503U Folding Workcage 47" x 21"





934160 Hinged Porch Brackets Use with Altrex or Skydeck





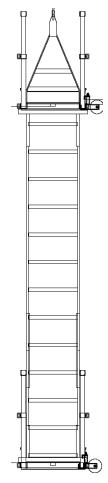
9-3 Plank Stirrup



MOD35 C– Stirrup



150-230U Angular Stirrup



Double Tier or Dble Wide Stirrups

Double Tier of Bole wide offitups				
Part#	Description	Length		
934118	Double Wide	NA		
423083	Multi Tier	10'		
MTH-3	Multi Tier	14'		
MTH-4	Multi Tier	7'		



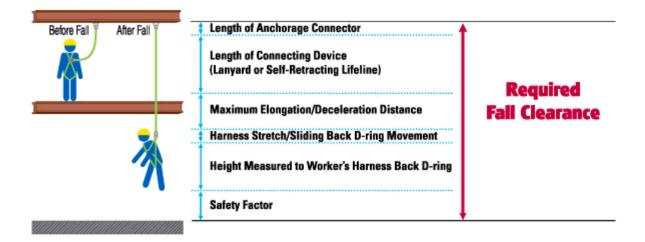
934113 Roller Bumpers

Safety System

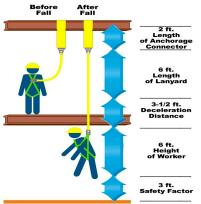
The safety system or PFAS "Personal Fall Arrest System" is a key component to any suspended scaffold. They don't prevent falls from occurring but they stop you from serious injury or worse death should the main system fail. It has three components: anchorage point, body wear & connecting devices. Scaffold Service stocks many basic items for sale but we can order just about anything you may want or need. There are major recurring errors that are found in the construction industry that impact job safety:

- Analyze the site for safety concerns up front before work begins, not after a fall occurs.
- Select appropriate anchorage point that can sustain a 5000 lbs force.
- Inspecting your equipment for wear and damage. The recommendation is every 3 years switch out your equipment and you must replace if involved in a fall.
- Lack of safety training to end users.
- Not knowing how to use safety equipment and also not knowing how to figure adequate fall clearance. (See below)
- Not using the equipment at all.





Fall Clearance Calculation



Total: 20-1/2 ft. from Anchor Point

These are two samples of how to calculate the fall distance required. Always follow manufactures recommendation on required distances

Fall Clearance Calculation (for Retractable Lifeline) Before After Fall Fall 2 ft. Length of Retractable Life 2 ft. 2 ft. Length of Retractable Life 2 ft. Distance 2-1/2 ft. Deceleration Distance 6 ft. Height of Worker

Total: 15-1/2 ft. from Anchor Point

Anchor Devices The anchor devices can be permanently install on roof tops or temporary. (see sample).



Body Wear Devices (see sample).



Connecting Devices (see sample).



Material Handling

This section is to show you some common material handling equipment Scaffold Service handles for sales & rental.



Maxial hoist can lift 450 lbs of material up to a maximum height of 250'. It will travel at a speed of 80' per minute.



Gemini w/Scaftrac



	TU-17	Gemini Plus	Alpha 1000	TR30	TR50
Capacity (lbs)	2,000	600	1,100	660	1,000
Lift Speed (fpm)	2 to 3	80	80	17	23
Weight	23	135	123	46	71
Volts	Manual	110	220	110	110

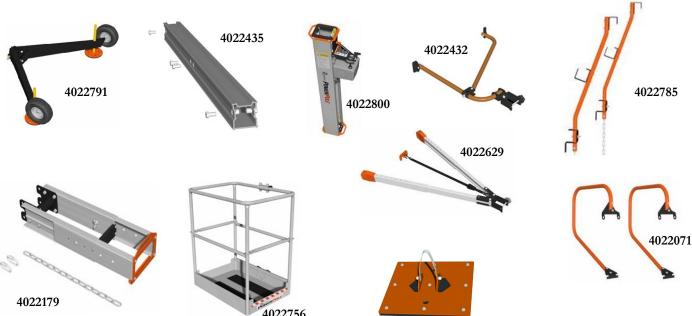


Power Pole

Powerpole is the next generation of the pump jack system that runs on 1/2" drills that move platform up and down. It is fast and easy to set up on any site. It has a load capacity of 1000 lbs with a maximum height of 69' to the platform with intermediate braces at 16' intervals. Able to free stand up to 24' with no braces and 40' with no mid ties. Up it travels at 25' per minute max and down is 30' per minute if you use the manufacturers recommended 1/2 hammer drill.



Part#	Desc	
4022800	Climber Unit	
4022771	Power Latch Assem	
4022772	Platform Support	
4022179	Platform Support w/Power Latch	
4022769	Generator Platform	
4022756	Work Cage	
4022785	Midrail (2 pack)	
4022071	Endrail (2 pack)	
4022435	6' Tilt-Up Mast	
4022084	12' Tilt-Up Mast	
4022096	Tilt-Up Coupler	
4022465	10 x 10 Base Foot Pad	
4022791	Outrigger	
4022432	Standoff Tie	
4022178	Super Standoff Tie (Roof)	
4022754	V-Brace (33")	
4022629	Adjustable V-Brace (up to 51")	
4022789	Ext for Adj V-Brace (51" to 67")	



4022465

"Power Mast System" coming 2013

Power-mast is like the power pole, but it is used to achieve greater heights and it also allows you to go past the wall ties without removing and reinstalling. They also run on 1/2" drills that move platform up and down. It has a quick tool free connecting mast section. The masts come in 5' or 32" sections for easy of stacking when going up. It is designed so you can use your modular swing stage decking





Power Lift (4022900)

Power-lift is the lightest mid range lift on the market. At 278 pounds empty one person can easily move it about on its casters. The only electrical device is the drill. There are no expensive, sensors switches or control panels to go bad or need repairing. Because it comes apart so easily one person can carry it up stairs. Its max work height at this time is 20'6" and has a lifting capacity of 350 pounds.





Stowed height 5'9" Stowed Size 53" x 30" Platform 26" x 30" Base Size 65" x 52"



The hitch hauler makes it so anyone with a type III receiver can move this unit from site to site. Loads and unloads in under 15 seconds with no ropes or chains. It only weighs 50 pounds.





Debris Chutes

Chutes are used to bring debris from upper levels down to the ground with out having to use stairs or elevators. They can be mounted in scaffolding, in a window, roof mounted or by other means. They come in various styles and diameters. Scaffold Service rents out molded plastic 32" chutes with top hopper and also intermediate hoppers to be able to have lower levels of putting in debris. You can get flat plastic or even steel chutes if you so choose. It is recommended that you have professionals like Scaffold Service install you chutes. When mounting the chute consideration must be given to the weight of the chute along with the force of the debris going down the chute. Items should be no larger than 18" long to avoid getting stuck in the chute thus creating a damn.





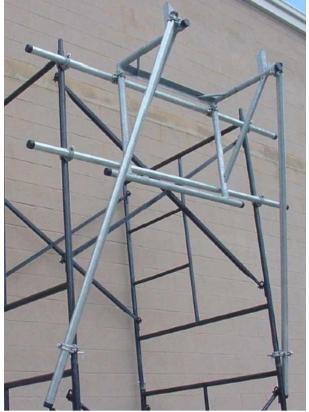


Part#	Description	Lbs
03008	Chute Section	37.0
03018	Hopper	63.0
0310	Support Frame	62.0
0311	Parapet Outrigger	92.0
0321	Winch	74.0
0322B	Intermediate Door	3.0











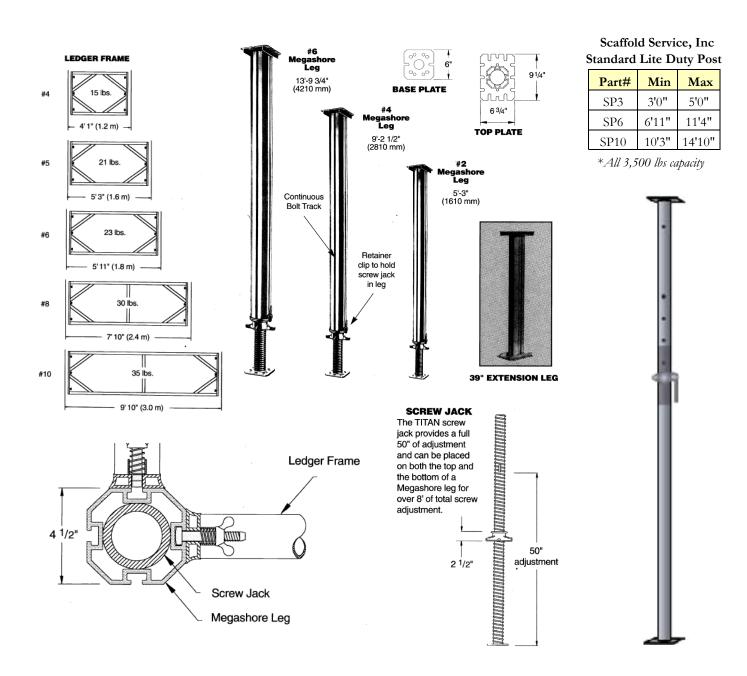


Shoring

Scaffold Service partners with another metro company to provide you with your shoring needs and installation. Do to the situation that shoring is needed, we strongly recommend you have us figure out what you need for shoring. We can arrange to come out to your site and determine your exact needs to make it a safe project.

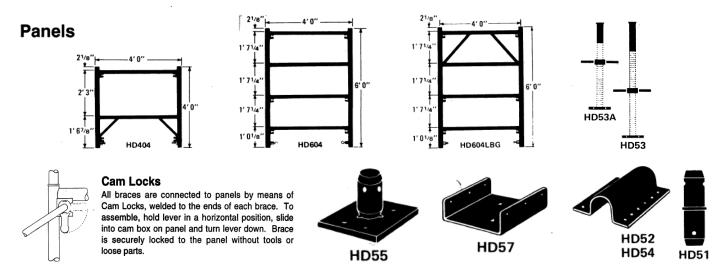
Titan Mega Shore Post & Standard Post

The titan is a lite weight component system that has an allowable load rating of 26,000 lbs per leg. It has 8' of adjustment between the top and bottom leg for perfect fit every time.



10M Heavy Duty Shoring

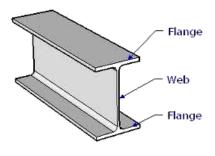
These frames have 2 1/2" OD legs that have an allowable load rating of 10,000 lbs per leg. The standard width is 4' wide and come in heights of 4', 5' and 6'.



Shoring Beams

W6X12 Steel Beam Capacity of Single Beam

i e			y			
	Center Point Load			ı	Uniforn Load	1
Span in	Load in	Deflection	Limiting	Load in	Deflection	Limiting
Feet	Pounds	in Inches	Factor	lbs/foot	in Inches	Factor
2.0	29,240	1/64	SM	28,992	1/64	SM
2.5	23,392	1/64	SM	18,552	1/64	SM
3.0	19,493	1/32	SM	12,888	1/32	SM
4.0	14,620	3/64	SM	7,248	1/16	SM
5.0	11,696	5/64	SM	4,632	7/64	SM
6.0	9,746	7/64	SM	3,216	5/32	SM
7.0	8,354	11/64	SM	2,364	15/64	SM
8.0	7,310	7/32	SM	1,740	1/4	DEF
9.0	6,106	1/4	DEF	1,056	1/4	DEF
10.0	4,450	1/4	DEF	696	1/4	DEF
11.0	3,343	1/4	DEF	468	1/4	DEF
12.0	2,575	1/4	DEF	336	1/4	DEF



These chart requires a minimum of 2" of beam to be beyond the bearing point on each side of the beam.

SM= Section Modulus (beam would fail before max deflection is reached)

DEF= Deflection (maximum allowable deflection of beam is reached before beam would fail)

Aluma Beam 6.5" Tall

Uniform Load - 1 Beam		
Span in	Load in	
Feet	lbs/foot	
4.0	3,080	
4.5	2,740	
5.0	2,020	
5.5	1,510	
6.0	1,160	
6.5	920	
7.0	730	
7.5	595	
8.0	490	
8.5	405	
9.0	345	
9.5	295	
10.0	250	



Competent Person Training

Scaffold Service, Inc is an accredited training facility for the SAIA "Scaffold & Access Industry Association". We do the training at our facility or if you have eight or more we will come to your site. The classes we teach are for frame scaffold, system scaffold or suspended scaffold. Included in the cost is a book you will receive in advance to read before coming to class. There is about an eight hour in class tutor with the instructor and then a test. We try to keep the class size to a maximum of 12 to ensure everyone gets special attention. You will receive a certificate and a wallet card if you pass which is good for three years. Prior to it expiring you will get a notice for a refresher course which is about 4 hours in class and then a test. Call your rep today to find out cost and when the next classes are scheduled.

Benefits to CPT Training

- Helps to provide a safer workplace for employees and customers
- Helps to meet government requirements
- Helps to meet insurance requirements
- Helps to meet competent person training requirements
- Provide structure for career advancement for employees
- Create an objective standard for new employee assessment by independent not-for-profit organization
- Potential insurance savings



CODE OF SAFE PRACTICES FOR

FRAME SCAFFOLDS, SYSTEM SCAFFOLDS, TUBE AND CLAMP SCAFFOLDS & ROLLING SCAFFOLDS DEVELOPED FOR INDUSTRY BY SCAFFOLDING, SHORING & FORMING INSTITUTE (SSFI) and SCAFFOLD INDUSTRY ASSOCIATION, INC. (SIA)

It shall be the responsibility of all users to read and comply with the following common sense guidelines which are designed to promote safety in the erecting, dismantling and use of Scaffolds. These guidelines do not purport to be all inclusive nor to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. If these guidelines in any way conflict with any state, local, provincial, federal or other government statute or regulation, said statute or regulation shall supersede these guidelines and it shall be the responsibility of each user to comply wherewith.

I. GENERAL GUIDELINES

- A. POST THESE SCAFFOLDING SAFETY GUIDELINES in a conspicuous place and be sure that all persons who erect, dismantle, or use scaffolding are aware of them, and also use them in tool box safety meetings.
- B. FOLLOW ALL STATE, LOCAL AND FEDERAL CODES, ORDINANCES AND REGULATIONS pertaining to scaffolding.
- C. SURVEY THE JOB SITE. A survey shall be made of the job site by a competent person for hazards, such as untamped earth fills, ditches, debris, high tension wires, unguarded openings, and other hazardous conditions created by other trades. These conditions should be corrected or avoided as noted in the following sections.
- D. INSPECT ALL EQUIPMENT BEFORE USING. Never use any equipment that is damaged or defective in any way. Mark it or tag it as defective. Remove it from the job site.
- E. SCAFFOLDS MUST BE ERECTED IN ACCORDANCE WITH DESIGN AND/OR MANUFACTURERS' RECOMMENDATIONS.
- F. DO NOT ERECT, DISMANTLE OR ALTER A SCAFFOLD unless under the supervision of a competent person.
- G. DO NOT ABUSE OR MISUSE THE SCAFFOLD EQUIPMENT.
- H. ERECTED SCAFFOLDS SHOULD BE CONTINUALLY INSPECTED by users to be sure that they are maintained in safe condition. Report any unsafe condition to your supervisor.
- NEVER TAKE CHANCES! IF IN DOUBT REGARDING THE SAFETY OR USE OF THE SCAFFOLD, CONSULT YOUR SCAFFOLD SUPPLIER.
- J. NEVER USE EQUIPMENT FOR PURPOSES OR IN WAYS FOR WHICH IT WAS NOT INTENDED.
- K. DO NOT WORK ON SCAFFOLDS if your physical condition is such that you feel dizzy or unsteady in any way.
- L. DO NOT WORK UNDER THE INFLUENCE of alcohol or illegal drugs.

II. GUIDELINES FOR ERECTION AND USE OF SCAFFOLDS

- A. SCAFFOLD BASE MUST BE SET ON BASE PLATES AND AN ADEQUATE SILL OR PAD to prevent slipping or sinking and fixed thereto where required. Any part of a building or structure used to support the scaffold shall be capable of supporting the maximum intended load to be applied.
- B. USE ADJUSTING SCREWS or other approved methods to adjust to uneven grade conditions.
- C. BRACING, LEVELING & PLUMBING OF FRAME SCAFFOLDS-
 - 1. Plumb and level all scaffolds as erection proceeds. Do not force frames or braces to fit. Level the scaffold until proper fit can be easily made.
 - Each frame or panel shall be braced by horizontal bracing, cross bracing, diagonal bracing or any combination thereof for securing vertical members together laterally. All brace connections shall be made secure, in accordance with the manufacturer's recommendations.

D. BRACING, LEVELING & PLUMBING OF TUBE & CLAMP AND SYSTEM SCAFFOLDS-

- 1. Posts shall be erected plumb in all directions, with the first level of runners and bearers positioned as close to the base as feasible. The distance between bearers and runners shall not exceed manufacturer's recommendations.
- 2. Plumb and level all scaffolds as erection proceeds.
- 3. Fasten all couplers and/or connections securely before assembly of next level.
- 4. Vertical and/or horizontal diagonal bracing must be installed according to manufacturer's recommendations.
- E. WHEN FREE STANDING SCAFFOLD TOWERS exceed a height of four (4) times their minimum base dimension, they must be restrained from tipping. (CAL/OSHA and some government agencies require stricter ratio of 3 to 1.)
- F. TIE CONTINUOUS (RUNNING) SCAFFOLDS TO THE WALL OR STRUCTURE at each end and at least every 30 feet of length in between when scaffold height exceeds the maximum allowable free standing dimension. Install additional ties on taller scaffolds as follows: On scaffolds 3 feet or narrower in width, subsequent vertical ties shall be repeated at intervals no greater than every 20 feet. On scaffolds wider than 3 feet, subsequent vertical ties shall be repeated at intervals not greater than 26 feet. The top tie shall be installed as close to the top of the platform as possible; however, no lower from the top than 4 times the scaffold's minimum base dimension. Ties must prevent the scaffold from tipping either into or away from the structure. Stabilize circular or irregular scaffolds in such a manner that the completed scaffold is secure from tipping. Place ties near horizontal members. When scaffolds are fully or partially enclosed, or when scaffolds are subjected to overturning loads, additional ties may be required. Consult a qualified person.
- G. DO NOT ERECT SCAFFOLDS NEAR ELECTRICAL POWER LINES. Consult a qualified person for advice.
- H. ACCESS SHALL BE PROVIDED TO ALL PLATFORMS. Do not climb crossbraces or diagonal braces.

PAGE 41 TO ORDER CALL: 800-237-0417

PROVIDE A GUARDRAIL SYSTEM, FALL PROTECTION AND TOEB OARDS WHERE REQUIRED BY THE PREVAILING CODE.

J. BRACKETS AND CANTILEVERED PLATFORMS-

- 1. Brackets for system scaffolds shall be installed and used in accordance with manufacturer's recommendations.
- 2. Brackets for frame scaffolds shall be seated correctly with side bracket parallel to the frames and end brackets at 90 degrees to the frames. Brackets shall not be bent or twisted from normal position. Brackets (except mobile brackets designed to carry materials) are to be used as work platforms only and shall not be used for storage of material or equipment.
- 3. Cantilevered platforms shall be designed, installed and used in accordance with manufacturers' recommendations.
- K. ALL SCAFFOLDING COMPONENTS shall be installed and used in accordance with the manufacturers' recommended procedure. Components shall not be altered. Scaffold frames and their components manufactured by different companies shall not be intermixed, unless the component parts readily fit together and the resulting scaffold's structural integrity is maintained by the user.

L. PLANKING-

- 1. Working platforms shall cover scaffold bearer as completely as possible. Only scaffold grade wood planking, or fabricated planking and decking meeting scaffold use requirements shall be used. Planks and platforms should rest on bearers only.
- 2. Check each plank prior to use to be sure plank is not warped, damaged, or otherwise unsafe.
- 3. Planking shall have at least 12" overlap and extend 6" beyond center of support, or be cleated or restrained at both ends to prevent sliding off supports.
- 4. Solid sawn lumber, LVL (laminated veneer lumber) or fabricated scaffold planks and platforms (unless cleated or restrained) shall extend over their end supports not less than 6" nor more than 18". This overhang should be guardrailed to prevent access.

M. FOR "PUTLOGS" AND "TRUSSES" THE FOLLOWING ADDITIONAL GUIDELINES APPLY:

- 1. Do not cantilever or extend putlogs/trusses as side brackets without thorough consideration of loads to be applied.
- 2. Install and brace putlogs and trusses in accordance with manufacturer's instructions.

N. FOR ROLLING SCAFFOLDS THE FOLLOWING ADDITIONAL GUIDELINES APPLY:

- RIDING A ROLLING SCAFFOLD IS VERY HAZARDOUS. The SSFI and the SIA do not recommend nor encourage this
 practice.
- 2. Casters with plain stems shall be attached to the frames or adjustment screws by pins or other suitable means.
- 3. No more than 12 inches of the screw jack shall extend between the bottom of the adjusting nut and the top of the caster.
- 4. Wheels or casters shall be locked to prevent caster rotation and scaffold movement when scaffold is in use.
- 5. Joints shall be restrained from separation.
- 6. Use horizontal diagonal bracing near the bottom and at 20 foot intervals measured from the rolling surface.
- 7. Do not use brackets or other platform extensions without compensating for the overturning effect.
- 8. The top platform height as measured from the rolling surface of a rolling scaffold must not exceed four (4) times the smallest base dimension (CAL/OSHA and some government agencies require a stricter ratio of 3:1).
- Cleat or secure all plank.
- 10. Secure or remove all materials and equipment from platform before moving.
- 11. Do not attempt to move a rolling scaffold without sufficient help watch out for holes in floor and overhead obstructions stabilize against tipping.

O. SAFE USE OF SCAFFOLD-

- 1. Prior to use, inspect scaffold to insure it has not been altered and is in safe working condition.
- 2. Erected scaffolds and platforms should be inspected continuously by those using them.
- 3. Exercise caution when entering or leaving a work platform.
- 4. Do not overload scaffold. Follow manufacturer's safe working load recommendations.
- 5. Do not jump onto planks or platforms.
- DO NOT USE ladders or makeshift devices to increase the working height of a scaffold. Do not plank guardrails to increase the height of a scaffold.
- 7. Climb in access areas only and use both hands.

III. WHEN DISMANTLING SCAFFOLDING THE FOLLOWING ADDITIONAL GUIDELINES APPLY:

- A. Check to assure scaffolding has not been structurally altered in a way which would make it unsafe and, if it has, reconstruct and/or stabilize where necessary before commencing with dismantling procedures. This includes all scaffold ties.
- **B.** Visually inspect planks prior to dismantling to be sure they are safe.
- C. Do not remove a scaffold component without considering the effect of that removal.
- **D.** Do not accumulate excess components or equipment on the level being dismantled.
- E. Do not remove ties until scaffold above has been dismantled to that level.
- **F.** Lower dismantled components in an orderly manner. Do not throw off of scaffold.
- **G.** Dismantled equipment should be stockpiled in an orderly manner.

Since field conditions vary and are beyond the control of the SSFI and the SIA, safe and proper use of scaffolding is the sole responsibility of the user.

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CODE OF SAFE PRACTICES FOR

SUSPENDED SCAFFOLDS DEVELOPED FOR INDUSTRY BY SCAFFOLDING, SHORING & FORMING INSTITUTE (SSFI) and SCAFFOLD INDUSTRY ASSOCIATION, INC. (SIA)

It shall be the responsibility of all users to read and comply with the following common sense guidelines which are designed to promote safety in the erecting, dismantling and use of suspended scaffolds. These guidelines do not purport to be all-inclusive nor to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. If these guidelines in any way conflict with any state, local, provincial, federal or other government statute or regulation, said statute or regulation shall supersede these guidelines and it shall be the responsibility of each user to comply therewith.

I. GENERAL GUIDELINES

- **A. POST THESE SAFETY GUIDELINES** in a conspicuous place and be sure that all persons who erect, use, locate, or dismantle suspended scaffold systems are fully aware of them and also use them in tool box safety meetings.
- B. FOLLOW ALL EQUIPMENT MANUFACTURERS' RECOMMENDATIONS as well as all state, local and federal codes, ordinances and regulations relating to suspended scaffolding.
- C. SURVEY THE JOB SITE. A survey shall be made of the job site by a competent person for hazards such as exposed electrical wires, obstructions that could overload or tip the suspended scaffold when it is raised or lowered, unguarded roof edges or openings, inadequate or missing tiebacks. Those conditions should be corrected before installing or using suspended scaffold systems.
- **D. INSPECT ALL EQUIPMENT BEFORE EACH USE.** Never use any equipment that is damaged or defective in any way. Mark it or tag it as damaged or defective equipment and remove it from the jobsite.
- E. ERECT AND DISMANTLE SUSPENDED SCAFFOLD EQUIPMENT in accordance with design and / or manufacturer's recommendations.
- **F. DO NOT ERECT, DISMANTLE, OR ALTER SUSPENDED SCAFFOLD SYSTEMS** unless under the supervision of a competent person.
- G. DO NOT ABUSE OR MISUSE SUSPENDED SCAFFOLD EQUIPMENT. Never overload platforms or hoists.
- **H. ERECTED SUSPENDED SCAFFOLDS SHOULD BE CONTINUOUSLY INSPECTED** by the user to be sure that they are maintained in a safe condition. Report any unsafe condition to your supervisor.
- I. NEVER TAKE CHANCES! IF IN DOUBT REGARDING THE SAFETY OR USE OF SUSPENDED SCAFFOLDS, CONSULT YOUR SCAFFOLD SUPPLIER.
- J. NEVER USE SUSPENDED SCAFFOLD EQUIPMENT FOR PURPOSES OR IN OTHER WAYS FOR WHICH IT WAS NOT INTENDED.
- K. CARE SHOULD BE TAKEN WHEN OPERATING AND STORING EQUIPMENT DURING WINDY CONDITIONS.
- L. SUSPENDED SCAFFOLD SYSTEMS should be installed and used in accordance with the manufacturer's recommended procedures. Do not alter components in the field.
- M. SUSPENDED PLATFORMS MUST NEVER BE OPERATED NEAR LIVE POWER LINES unless proper precautions are taken. Consult the power service company for advice.
- N. ALWAYS ATTACH FALL ARREST EQUIPMENT when working on suspended scaffolds.
- O. DO NOT WORK ON OR INSTALL SUSPENDED SCAFFOLDS if your physical condition is such that you feel dizzy or unsteady in any way.
- P. DO NOT WORK ON SUSPENDED SCAFFOLDS when under the influence of alcohol or illegal drugs.

II. GUIDELINES FOR ERECTION AND USE OF SUSPENDED SCAFFOLD SYSTEMS

A. RIGGING:

- 1. WEAR FALL PREVENTION EQUIPMENT when rigging on exposed roofs or floors.
- 2. ROOF HOOKS, PARAPET CLAMPS, OUTRIGGER BEAMS, OR OTHER SUPPORTING DEVICES must be capable of supporting the hoist machine rated load with a factor of safety of 4.
- 3. VERIFY THAT THE BUILDING OR STRUCTURE WILL SUPPORT the suspended loads with a factor of safety of 4.
- 4. ALL OVERHEAD RIGGING must be secured from movement in any direction.

- 5. COUNTERWEIGHTS USED WITH OUTRIGGER BEAMS must be of a non-flowable material and must be secured to the beam to prevent accidental displacement.
- 6. OUTRIGGER BEAMS THAT DO NOT USE COUNTERWEIGHTS must be installed and secured on the roof structure with devices specifically designed for that purpose. Direct connections shall be evaluated by a competent person.
- TIE BACK ALL TRANSPORTABLE RIGGING DEVICES. Tiebacks shall be equivalent in strength to suspension ropes.
- 8. INSTALL TIEBACKS AT RIGHT ANGLES TO THE FACE OF THE BUILDING and secure, without slack, to a structurally sound portion of the structure, capable of supporting the hoisting machine rated load with a safety factor of 4. IN THE EVENT THAT TIEBACKS CANNOT BE INSTALLED AT RIGHT ANGLES, two tiebacks at opposing angles must be used to prevent movement.
- 9. RIG AND USE HOISTING MACHINES DIRECTLY UNDER THEIR SUSPENSION POINTS.

B. WIRE ROPE AND HARDWARE:

- 1. USE ONLY WIRE ROPE AND ATTACHMENTS as specified by the hoisting machine manufacturer.
- 2. ASSURE THAT WIRE ROPE IS LONG ENOUGH to reach to the lowest possible landing.
- 3. CLEAN AND LUBRICATE WIRE ROPE in accordance with the wire rope manufacturer's instructions.
- 4. HANDLE WIRE ROPE WITH CARE.
- **5. COIL AND UNCOIL WIRE ROPE** in accordance with manufacturer's instructions in order to avoid kinks or damage.
- 6. TIGHTEN WIRE ROPE CLAMPS in accordance with the clamp manufacturer's instructions.
- 7. INSPECT WIRE ROPE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT USE WIRE ROPE THAT IS KINKED, BIRDCAGED, CORRODED, UNDERSIZED, OR DAMAGED IN ANY WAY. Do not expose wire rope to fire, undue heat, corrosive atmosphere, electricity, chemicals or damage by tool handling.
- 8. USE THIMBLES AND SHACKLES AT ALL WIRE ROPE SUSPENSION TERMINATIONS.
- USE J-TYPE CLAMPS OR SWEDGE FITTINGS. Do not use U-bolts. Retighten J Clamps under load and retighten daily.
- 10. WIRE ROPES USED WITH TRACTION HOISTS MUST HAVE PREPARED ENDS. Follow manufacturer's recommendations.

C. POWER SUPPLY FOR MOTORIZED EQUIPMENT:

- GROUND ALL ELECTRICAL POWER SOURCES AND POWER CORD CONNECTIONS and protect
 them with circuit breakers.
- 2. USE POWER CORDS OR AIR HOSES OF THE PROPER SIZE THAT ARE LONG ENOUGH for the job.
- 3. POWER CORD OR AIR HOSE CONNECTIONS MUST BE RESTRAINED to prevent their separation.
- 4. USE STRAIN RELIEF DEVICES TO ATTACH POWER CORDS OR AIR SUPPLY HOSES TO THE SUSPENDED SCAFFOLD to prevent them from falling.
- 5. PROTECT POWER CORDS OR AIR HOSES AT SHARP EDGES.
- 6. USE GFI WITH POWER TOOLS.

D. FALL ARREST EQUIPMENT:

- 1. EACH PERSON ON A SUSPENDED SCAFFOLD must be attached to a separate fall arrest system unless the installation was specifically designed not to require one.
- 2. EACH LIFELINE MUST BE FASTENED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS to a separate anchorage capable of holding a minimum of 5000 pounds.
- 3. DO NOT WRAP LIFELINES AROUND STRUCTURAL MEMBERS unless lifelines are protected and a suitable anchorage connection is used.
- 4. PROTECT LIFELINES AT SHARP CORNERS to prevent chafing.
- 5. RIG FALL ARREST SYSTEMS to prevent free fall in excess of six feet.
- 6. SUSPEND LIFELINES FREELY without contact with structural members or building façade.
- 7. USE LIFELINES OF SIZE AND CONSTRUCTION that are compatible with the rope grab use.
- 8. ASSURE A PROPERLY ATTACHED ROPE GRAB IS INSTALLED ON EACH LIFELINE IN THE PROPER DIRECTION. Install in accordance with the manufacturer's recommendations.
- 9. KEEP ROPE GRAB POSITIONED ABOVE YOUR HEAD LEVEL.
- 10. USE ONLY FULL BODY HARNESSES of the proper size and that are tightly fastened.
- 11. ASSURE FULL BODY HARNESS HAS LANYARD attachment with D-ring at the center of your back.

- 12. CONSULT FALL PROTECTION SUPPLIER FOR INSPECTION PROCEDURE. INSPECT FALL PROTECTION ANCHORAGE / EOUIPMENT BEFORE EACH USE.
- 13. WHEN A SECONDARY WIRE ROPE SYSTEM IS USED, a horizontal lifeline secured to two or more structural members of the scaffold in lieu of vertical lifelines.

E. DURING USE:

- 1. USE ALL EQUIPMENT AND ALL DEVICES in accordance with the manufacturer's instructions.
- 2. DO NOT OVERLOAD, MODIFY, OR SUBSTITUTE EQUIPMENT.
- 3. **BEFORE COMMENCING WORK OPERATIONS** preload wire rope and equipment with the maximum working load, then retighten wire rope rigging clamps and recheck rigging to manufacturer's recommendations.
- 4. INSPECT ALL RIGGING EQUIPMENT AND SUSPENDED SCAFFOLD SYSTEMS DAILY.
- 5. INSPECT WIRE ROPE DURING EACH ASCENT OR DESCENT FOR DAMAGE.
- 6. USE CARE TO PREVENT DAMAGE TO EQUIPMENT by corrosive or other damaging substances.
- 7. CLEAN AND SERVICE EQUIPMENT REGULARLY.
- 8. ALWAYS MAINTAIN AT LEAST (4) FOUR WRAPS OF WIRE ROPE ON DRUM TYPE HOISTS.
- 9. DO NOT JOIN PLATFORMS unless the installation was designed for that purpose.
- 10. ONLY MOVE SUSPENDED SCAFFOLDS HORIZONTALLY WHEN NOT OCCUPIED.
- 11. WHEN RIGGING FOR ANOTHER DROP assure sufficient wire rope is available before moving the suspended scaffold system horizontally.

12. WHEN WELDING FROM SUSPENDED SCAFFOLDS:

- a. Assure platform is grounded to structure.
- b. Insulate wire rope above and below the platform.
- c. Insulate wire rope at suspension point and assure wire does not contact structure along its entire length.
- d. Prevent the bitter end from touching the welding ground.

Since field conditions vary and are beyond the control of the SSFI and the SIA, safe and proper use of suspended scaffolding is the sole responsibility of the user.

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