

Space Plus USA Steel Shelving Installation Instructions

Space Plus USA recommends that this product be assembled only by qualified personnel, experienced in assembly of storage steel shelving, and knowledgeable of all safety regulations and practices. These instructions are intended only for use by qualified individuals working with all proper safety equipment.

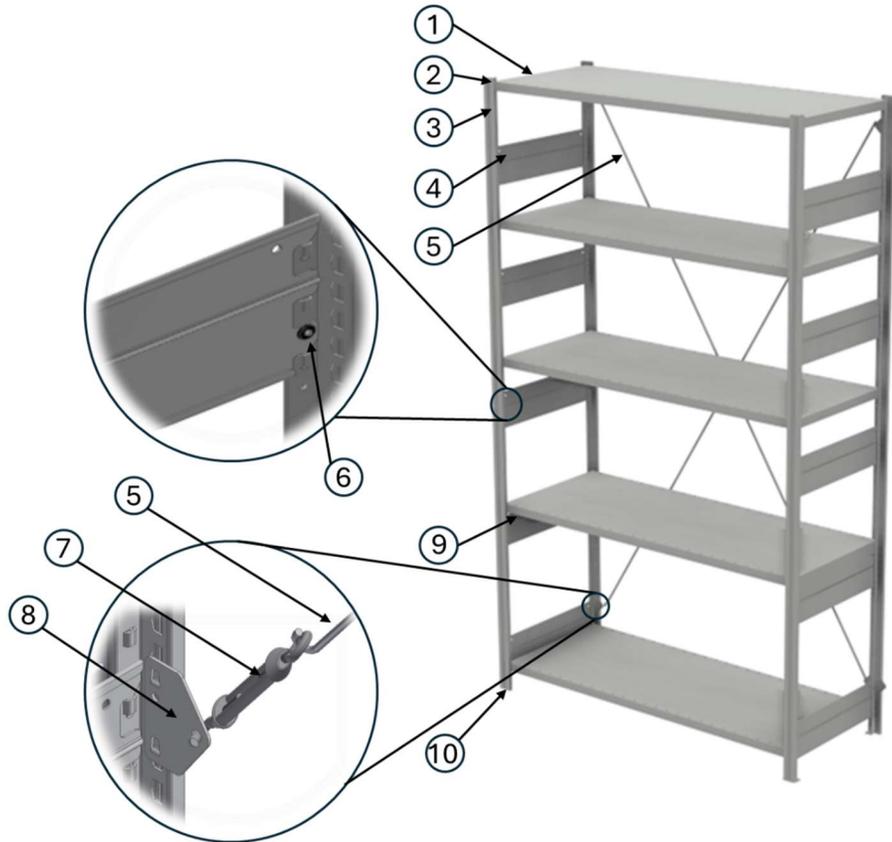
Steel Shelving is heavy, and if not properly secured during installation and assembly could fall, causing injury as well as damage to equipment and property. Space Plus USA's Steel Shelving must be assembled only by trained personnel, experienced in the correct assembly of steel shelving, and should be familiar with the following instructions:

Our Steel Shelving is intended to be installed indoors, do not install steel shelving outdoors. Outdoor usage requires consideration of several factors like wind loads, snow loads, and many environmental conditions that are not normally considered in steel shelving design.

1) Prior to the start of installation, the installer should

- 1.1 Make sure all members of the installation crew are trained about the installation procedures and any safety procedures necessary to establish a safe working environment.
- 1.2 Check to make sure that all materials have been received. Materials should be checked against the delivery tickets and or Bill of Lading.
- 1.3 Notify the shipper immediately if any shortages exist with respect to the delivery ticket. Inspect the materials and make sure there are no damages, in case there are damages inform the shipper immediately of any product damage.
- 1.4 Organize all materials, so they can be quickly located.
- 1.5 Verify the proper location of the steel shelving with the project manager, owner or site contact person.
- 1.6 Clear the area where the steel shelving system will be located.
- 1.7 Check the area for all obstructions, such as lights, doorways, ducts, electrical panels, pipes, building columns etc. Any such obstructions should be flagged with tape and called to the attention of the site contact person, and plans should be made to avoid or remove the obstruction to ensure a clear area is ready for the installation of the storage steel shelving. If it becomes necessary to modify the configuration of the steel shelving in any way, prior approval must be obtained from the authorized person, and the changes must comply to Space Plus USA guidelines.
- 1.8 Establish the Steel Shelving lay out by determining the aisle dimensions and the steel shelving position. Determine a starting line and snap chalk lines to layout the floor. Make sure adequate aisle widths are established. Down-aisle chalk lines should be made at the front face of the steel shelving upright from the start line.

2) Steel Shelving parts.



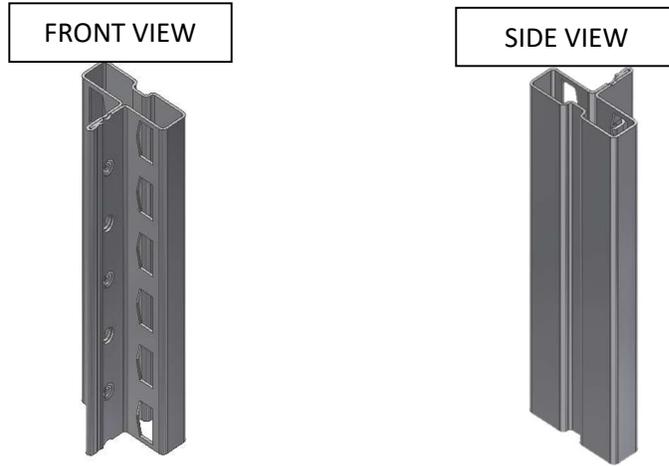
1.- SHELF PANEL



2.- UPRIGHT COVER



3.- UPRIGHT



4.- BRACING



5.- BACK TIE ROD



6.- PIN ASSEMBLY



7.- TURN BUCKLE



8.- BACK TIE ROD CLEAT (LEFT & RIGHT)



9.- SHELFCLIP

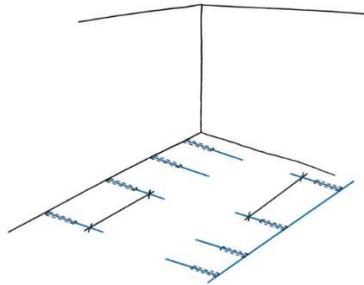


10.- FOOTPLATE



3) Installation of the unit.

3.1. Using the installation drawings as a guide, trace chalk reference lines on the floor for each column and base, ensuring the spacing between columns matches the distances specified in the installation drawings



3.2. Place the shelf panels (1), bases (10), bracing (4), and uprights (3) to be assembled near the final location where they will be installed. Make sure to include dunnage, such as wooden blocks, rubber, or plastic, to protect the floor during this operation.

3.3. If applicable, assemble the footplate (10) to the upright (3) using the 1/4"x5/8" bolt & nut.



**UPRIGHT
(3)**



**FOOTPLATE
(10)**

3.4. Position the braces (4) into the side slots of the uprights (3). We recommend using a rubber mallet to ensure the brace is securely fitted to the uprights (3).

3.5. Vertically position the four uprights (3) that make up the unit. For each upright (3), attach four shelf clips (9) for the top shelf panel (1) and four shelf clips (9) for the bottom shelf panel (1).



3.6. Based on the width of the unit, attach two back tie rod cleats (8) to the top of the rear uprights (3) and two back tie rod cleats (8) to the bottom of the rear uprights (3)

3.7. Secure the turnbuckles (7) to the lower back tie rods (5).

3.8. Connect the turn tie rods (5) to the turn buckles (7).

3.9. Tighten the turn buckles (7) so that the tie rods (7) are properly tensioned.

3.10. Insert two pin assemblies (6) per brace (4) to secure the braces (4) to the columns (2).

3.11. Based on the height at which the intermediate shelf panels are to be installed, place four shelf clips (9) for each shelf panel (1).

3.12. If applicable, secure the footplates (10) to the floor using the 1/4" x 3" anchor bolts.



STARTER UNIT	WIDTH	DEPTH	HEIGHT	LEVEL S	SHELF PANEL 48" X 24"	SHELF PANEL 36" X 24"	SHELF PANEL 48" X 18"	SHELF PANEL 36" X 18"	SHELF CLIP	FRAME POST 72"	FRAME POST 96"	UPRIGHT COVER	H. BRACING 24	H. BRACING 18	ASSEMBLY PIN	BASE PLATE	ANCHOR	BASE BOLT & NUT	TIE ROD 45"	TIE ROD 65"	TIE ROD 50"	TIE ROD 69"	TIE ROD CLEATH	TURN BUCKLE	
CODE	WIDTH	DEPTH	HEIGHT	LEVEL S	BSS-SP48X24	BSS-SP36X24	BSS-SP48X18	BSS-SP36X18	BSS-SC	BSS-PP72	BSS-PP96	BSS-UC	BSS-HB24	BSS-HB18	BSS-AP6X10	BSS-BP	BSS-ANC	BSS-B5B	BSS-BTR45	BSS-BTR65	BSS-BTR50	BSS-BTR69	BSS-BTR-1C	BSS-TB	
BSS-SU36X18X72-3L	36	18	72	3	0			3	12	4		4		6	16	0			2				4	2	
BSS-SU36X18X72-4L	36	18	72	4	0			4	16	4		4		6	16	0			2				4	2	
BSS-SU36X18X72-5L	36	18	72	5	0			5	20	4		4		6	16	0			2				4	2	
BSS-SU48X18X72-3L	48	18	72	3	0		3		12	4		4		6	16	0					2		4	2	
BSS-SU48X18X72-4L	48	18	72	4	0		4		16	4		4		6	16	0					2		4	2	
BSS-SU48X18X72-5L	48	18	72	5	0		5		20	4		4		6	16	0					2		4	2	
BSS-SU36X24X72-3L	36	24	72	3	0	3			12	4		4	6		16	0			2				4	2	
BSS-SU36X24X72-4L	36	24	72	4	0	4			16	4		4	6		16	0			2				4	2	
BSS-SU36X24X72-5L	36	24	72	5	0	5			20	4		4	6		16	0			2				4	2	
BSS-SU48X24X72-3L	48	24	72	3	3				12	4		4	6		16	0					2		4	2	
BSS-SU48X24X72-4L	48	24	72	4	4				16	4		4	6		16	0					2		4	2	
BSS-SU48X24X72-5L	48	24	72	5	5				20	4		4	6		16	0					2		4	2	
BSS-SU36X18X96-3L	36	18	96	3	0			3	12			4	4		8	20	4	4		2			4	2	
BSS-SU36X18X96-4L	36	18	96	4	0			4	16			4	4		8	20	4	4	4		2		4	2	
BSS-SU36X18X96-5L	36	18	96	5	0			5	20			4	4		8	20	4	4	4		2		4	2	
BSS-SU36X18X96-6L	36	18	96	6	0			6	24			4	4		8	20	4	4	4		2		4	2	
BSS-SU48X18X96-3L	48	18	96	3	0		3		12			4	4		8	20	4	4	4			1	4	2	
BSS-SU48X18X96-4L	48	18	96	4	0		4		16			4	4		8	20	4	4	4			2	4	2	
BSS-SU48X18X96-5L	48	18	96	5	0		5		20			4	4		8	20	4	4	4			2	4	2	
BSS-SU48X18X96-6L	48	18	96	6	0		6		24			4	4		8	20	4	4	4			2	4	2	
BSS-SU36X24X96-3L	36	24	96	3	0	3			12			4	4	8		20	0				2		4	2	
BSS-SU36X24X96-4L	36	24	96	4	0	4			16			4	4	8		20	0				2		4	2	
BSS-SU36X24X96-5L	36	24	96	5	0	5			20			4	4	8		20	0				2		4	2	
BSS-SU36X24X96-6L	36	24	96	6	0	6			24			4	4	8		20	0			2			4	2	
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BSS-SU48X24X96-4L	48	24	96	4	4				16			4	4	8		20	0					2	4	2	
BSS-SU48X24X96-5L	48	24	96	5	5				20			4	4	8		20	0					2	4	2	
BSS-SU48X24X96-6L	48	24	96	6	6				24			4	4	8		20	0					2	4	2	

ADD-ON	WIDTH	DEPTH	HEIGHT	LEVEL S	SHELF PANEL 48" X 24"	SHELF PANEL 36" X 24"	SHELF PANEL 48" X 18"	SHELF PANEL 36" X 18"	SHELF CLIP	FRAME POST 72"	FRAME POST 96"	UPRIGHT COVER	H. BRACING 24	H. BRACING 18	ASSEMBLY PIN	BASE PLATE	ANCHOR	BASE BOLT & NUT	TIE ROD 45"	TIE ROD 65"	TIE ROD 50"	TIE ROD 69"	TIE ROD CLEATH	TURN BUCKLE
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BSS-AO36X18X72-4L	36	18	72	4				4	16	2		2		3	16	0			2				4	2
BSS-AO36X18X72-5L	36	18	72	5				5	20	2		2		3	16	0			2				4	2
BSS-AO48X18X72-3L	48	18	72	3			3		12	2		2		3	16	0					2		4	2
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BSS-AO36X24X72-4L	36	24	72	4		4			16	2		2	3		16	0			2				4	2
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BSS-AO36X24X96-6L	36	24	96	6		6			24			2	2	4		20	0				2		4	2
BSS-AO48X24X96-3L	48	24	96	3	3				12			2	2	4		20	0					1	4	2
BSS-AO48X24X96-4L	48	24	96	4	4				16			2	2	4		20	0					2	4	2
BSS-AO48X24X96-5L	48	24	96	5	5				20			2	2	4		20	0					2	4	2
BSS-AO48X24X96-6L	48	24	96	6	6				24			2	2	4		20	0					2	4	2

These installation instructions are guidelines for the proper installation of Space Plus USA Steel Shelving. The procedures herein described are intended to assist in the installation of Space Plus USA Steel Shelving. The methods described have been developed over a period of time and have been proven to be reasonably successful. They do not imply that other methods better suited to field conditions might not be equally effective. Space Plus USA suggests strict adherence to all standard safety practices and further suggests all methods be tested and tried before being put into operation.

These installation instructions are only for Space Plus USA standard Steel Shelving.

The proper installation of the steel shelving is the responsibility of the purchaser and is not covered by any warranty of Space Plus USA. The purchaser should not substitute any components with those of another manufacturer. Space Plus USA has no responsibility or warranty obligations regarding materials not manufactured by it that are used in connection with Space Plus USA Steel Shelving. Space Plus USA further explicitly disclaims any responsibility for damage or injuries resulting from field interpretation or use of these suggestions.