

RaptorRAC™

W I D E S P A N S H E L V I N G

TECH DATA

SHELVING SYSTEMS

Shelving built to last, with infinite possibilities.

Spacesaver's rugged and versatile wide span shelving provides a perfect platform for storing countless items. Whether it's parachutes on a military base, evidence in a police station, stock in an industrial warehouse, or large artifacts in a museum setting, RaptorRAC™ shelving offers a sturdy way to protect the stuff that's important. It is designed to work great BOTH in static applications as well as integrate with Spacesaver's wide range of industry-leading mobile systems. The wide range of size options of RaptorRAC™ wide span shelving can easily be configured to optimally store items of all shapes and sizes.

FEATURES & BENEFITS

1. **Strength and Durability:** RaptorRAC storage systems feature a roll-formed boxed style upright post design that provides optimum structural integrity under load. Horizontal "Z" beam design provides the required strength and stability to support loads over wide spans. All welded upright frames and beam construction meets AWS D1.3 certified welding standards.

2. **Versatility:**

- RaptorRAC storage system features two upright design options to provide maximum versatility when designing your storage requirements.
 - Option 1: Fully welded uprights with 2" (50.8 mm) by 1-9/16" (39.69 mm) boxed posts
 - Option 2: Knocked down uprights with 2" (50.8 mm) x 1-9/16" (39.69 mm) boxed posts and bolt on horizontal ladder braces
- RaptorRAC storage system features two different beam options: Heavy Duty, Standard Duty, to provide maximum versatility when designing your storage requirements.
- RaptorRAC storage system features three different decking options to meet your storage needs: Solid Steel, Particle Board, and Wire Waterfall.



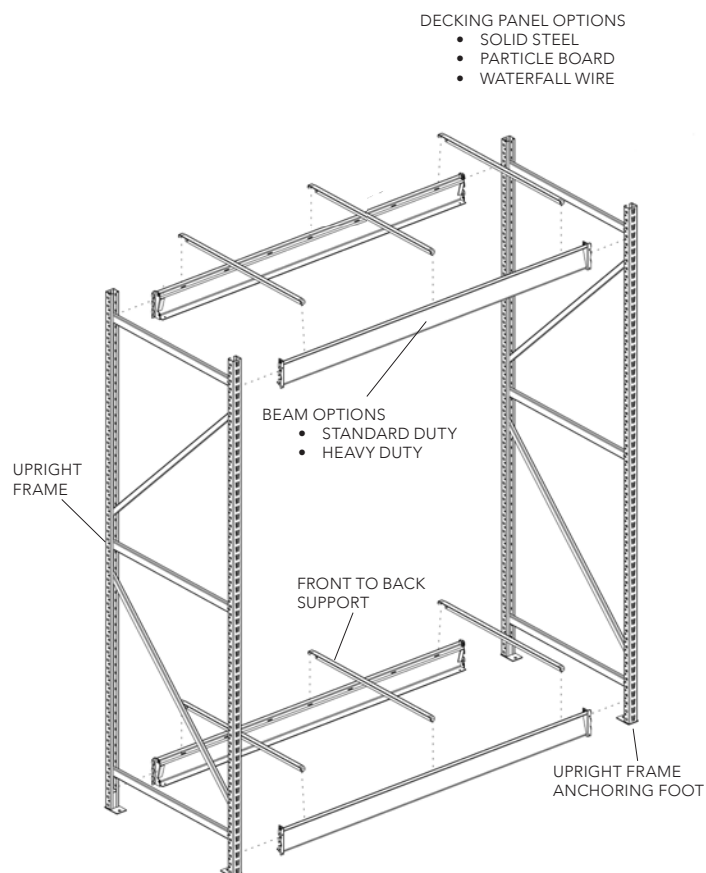
3. **Flexibility/Adjustability:**

- Easy assembly, can be quickly installed, expanded, or relocated
 - Beams can be easily adjusted vertically, no tools required for adjustment, assembly, or disassembly
 - Large variety of upright, beam, and decking size options
4. **Accessories:** Anchor feet, Front to Back supports, Upright Splices, Back to Back supports, Back to Wall supports, and Tie Plates allow customization to virtually any need, in any space.
5. **Color Options:** RaptorRAC storage system is available in all Spacesaver Mobile and Shelving powder coat paint color options.



DESIGN AND CAPABILITIES

- 2" (50.8 mm) wide cold-rolled steel box-formed posts and welded truss style upright frames provide the structural integrity needed to support demanding storage requirements.
- Wide variety of upright frame heights, 60" (1524.0 mm) to 144" (3657.6 mm), and depths, 15" (381.0 mm) to 48" (1219.2 mm), to meet customer storage requirements.
- Upright design allows for 1-1/2" (38.1 mm) vertical adjustment of horizontal beams.
- Two beam size options are available to optimize space and loading requirements.
- Beam design offers configured sizes in 1" (25.4 mm) increments between 48" (1219.2 mm) and 96" (2438.4 mm) in length.
- Three different decking options to accommodate different material being stored.
- Anchor Feet are available for anchoring upright frames to either the floor or mobile carriage platform.
- Upright splices can be used to integrate two uprights together vertically.
- Tie Plates, Back to Back, Back to Wall, Back to Back Tie Plates are all available to increase the support, stability, and configurability of the RaptorRAC storage system.



APPLICATION

- RaptorRAC storage system can be used as standalone shelving or mobilized on Spacesaver carriages for maximum space efficiency. The system was designed to accommodate storage needs where 4-Post and Pallet Racking do not meet the exact customer needs or space requirements.
- RaptorRAC storage system is the ideal choice for back room and warehouse applications within healthcare, museum and archive, government and justice, military, law enforcement, and correctional facilities.



TECHNICAL SPECIFICATIONS

UPRIGHTS:

WELDED UPRIGHT frames shall be a welded truss design similar to that used for pallet rack. Upright frame posts shall be 14-gauge (1.90 mm) steel, box-formed, 2" (50.8 mm) by 1-9/16" (39.69 mm), designed with notches on the front face of post, located on 1-1/2" (38.1 mm) centers, to allow for easy adjustment of horizontal load bearing beams. Sides of post shall have notches, located on 1-1/2" (38.1 mm) centers, to accommodate anchor feet, supports, tie plates, and securing beams to post. Horizontal braces shall be 14-gauge (1.90 mm) steel, roll-formed 1-1/2" (38.1 mm) by 3/4" (19.05mm) tube MIG welded to posts. Diagonal braces shall be 14-gauge (1.90 mm) steel, roll-formed 1" (25.4 mm) by 3/4" (19.05mm) open channel MIG welded to posts. All welded upright frame construction shall meet AWS D1.3 certified welding standards.

KNOCK-DOWN frame shall be a bolt together design utilizing vertical post and horizontal ladder bracing. Upright posts shall be 14-gauge (1.90 mm) steel, box-formed, 2" (50.8 mm) by 1-9/16" (39.69 mm), designed with notches on the front face of post, located on 1-1/2" (38.1 mm) centers, to allow for easy adjustment of horizontal load bearing beams. Sides of post shall have notches, located on 1-1/2" (38.1 mm) centers, to accommodate anchor feet, supports, tie plates, and securing beams to post. Horizontal ladder brace component shall be 12-gauge (2.66 mm) steel with two integral lances and one 5/16" (7.94 mm) hole on each end to engage and secure to vertical post.

All uprights shall be available in the following sizes:

U.S. CUSTOMARY UNITS (INCHES)	
Standard Depths	15", 18", 24", 30", 36", 42", 48"
	With configured depths on 1" increments
Standard Heights	60", 72", 84", 96", 120", 144"
	With configured heights on 1-1/2" increments

METRIC DIMENSIONS (mm)	
Standard Depths	381.0mm, 457.2mm, 609.6mm, 762.0mm, 914.4mm, 1066.8mm, 1219.2mm
	With configured depths on 25.4mm increments
Standard Heights	1524.0mm, 1828.8mm, 2133.6mm, 2438.4mm, 3048.0mm, 3657.6mm
	With configured heights on 38.1mm increments

UPRIGHT CAPACITY RATINGS	
All Sizes	8500 lb capacity with bottom beam in 1st or 2nd position above floor and 36" maximum beam spacing
	7000 lb capacity with bottom beam 36" maximum above floor and 36" maximum beam spacing
*Capacities listed are for minimum of 2 beam levels with evenly distributed loads. Designed and tested with 1.8 safety factor.	

BEAMS:

STANDARD DUTY BEAMS shall be 14-gauge (1.90 mm) steel with "Z"-shaped structural design. Overall height of beam shall be 3-5/8" (92.1 mm) nominal. Each beam shall have slots punched along its length to accommodate front to back shelf supports; length and location of supports are dependent on shelving load requirements. Beam mounting end brackets shall be manufactured from 12-gauge (2.66 mm) material and welded to each end of the beam. All welded upright beam construction shall meet AWS D1.3 certified welding standards

STANDARD DUTY CAPACITY RATINGS					
Width	48"	60"	72"	84"	96"
Capacity	3300 lb	2600 lb	1900 lb	1775 lb	1650 lb

HEAVY DUTY BEAMS shall be 12-gauge (2.66 mm) steel with "Z"-shaped structural design. Overall height of beam shall be 4-5/8" (117.48 mm) nominal. Each beam shall have slots punched along it, length to accommodate front to back shelf supports; length and location of supports are dependent on shelving load requirements. Beam mounting end brackets shall be manufactured from 12-gauge (2.66 mm) material and welded to each end of the beam. All welded upright beam construction shall meet AWS D1.3 certified welding standards.

HEAVY DUTY CAPACITY RATINGS					
Width	48"	60"	72"	84"	96"
Capacity	3300 lb	3300 lb	3300 lb	3300 lb	3300 lb

Capacities listed per pair of beams with evenly distributed loads and required number of Front To Back Supports. Beams have been designed and tested with L/180 maximum deflection and 1.65 safety factor.

Specifications are subject to change.

TECHNICAL SPECIFICATIONS

DECKING:

SOLID STEEL DECKING shall be 1-1/4" (31.75 MM) in height and be formed of 18-gauge (1.2 mm) cold rolled steel with flanges on all four sides. Side flanges of decking shall also be turned "down", "in", and "up" to form a "J" style bend. Decking shall be supported, front and rear, by two horizontal beams. Steel decking available in widths of 12" (304.8 mm), 18" (457.2 mm), 24" (609.6 mm), 30" (762.0 mm), and 36" (914.4 mm). Steel decking is also available in 1" (25.4 mm) increments in depths between 15" (381.0 mm) and 48" (1,219.2 mm).

SOLID STEEL DECKING CAPACITY RATINGS

Width	Depth						
	15"	18"	24"	30"	36"	42"	48"
12"	1175 lb	1125 lb	1000 lb	875 lb	750 lb	625 lb	500 lb
18"	1175 lb	1125 lb	1000 lb	875 lb	750 lb	625 lb	500 lb
24"	1175 lb	1125 lb	1000 lb	875 lb	750 lb	625 lb	500 lb
30"	1175 lb	1125 lb	1000 lb	875 lb	750 lb	625 lb	500 lb
36"	1175 lb	1125 lb	1000 lb	875 lb	750 lb	625 lb	500 lb

**Capacities listed are for evenly distributed loads. Designed and tested with L/140 maximum deflection and 1.5 safety factor.*

PARTICLE BOARD DECKING shall be 11/16" (17.46 mm) thick particle board material per ANSI-A208.1-1999 M-3. Particle board decking available in 1" (25.4 mm) increments in widths between 48" (1,219.2 mm) and 96" (2,468.4 mm), and depths between 15" (381.0 mm) and 48" (1,219.2 mm).

PARTICLE BOARD DECKING CAPACITY RATINGS

Width	Depth						
	15"	18"	24"	30"	36"	42"	48"
48"	2000 lb	2000 lb	2000 lb	1675 lb	1350 lb	1025 lb	700 lb
60"	2000 lb	2000 lb	2000 lb	1675 lb	1350 lb	1025 lb	700 lb
72"	3000 lb	3000 lb	3000 lb	2500 lb	2025 lb	1525 lb	1050 lb
84"	3000 lb	3000 lb	3000 lb	2500 lb	2025 lb	1525 lb	1050 lb
96"	3300 lb	3300 lb	3300 lb	3300 lb	2700 lb	2050 lb	1400 lb

**Capacities listed are for evenly distributed loads with required number of Front To Back Supports.*

WATERFALL WIRE DECKING shall be steel 5-gauge (4.62 mm) wire fabricated on a 2" (50.8 mm) by 4" (104.6 mm) rectangular grid pattern with 1.5" (38.1 mm) front and rear formed flanges. Waterfall wire decking shall have three equally spaced 12-gauge (2.66 mm) steel structural reinforcements placed parallel along the depth of the decking and welded to the wire framing at each intersection. Waterfall wire decking shall be available in widths of 24" (609.6 mm) and 36" (914.4 mm). Waterfall wire decking shall be also available in depths of 24" (609.6 mm), 30" (762.0 mm), 36" (914.4 mm), 42" (1,066.8 mm), and 48" (1,219.2 mm).

WATERFALL WIRE DECKING CAPACITY RATINGS

Width	Depth				
	24"	30"	36"	42"	48"
24"	1550 lb	1325 lb	1100 lb	875 lb	650 lb
36"	1550 lb	1325 lb	1100 lb	875 lb	650 lb

**Capacities listed are for evenly distributed loads. Designed and tested with L/140 maximum deflection and 1.5 safety factor.*

Specifications are subject to change.

SHELVING OPTIONS AND ACCESSORIES

Welded Upright



Knock-Down Upright



Knock-Down Ladder Brace



Low Profile Beam



Standard Duty Beam



Heavy Duty Beam



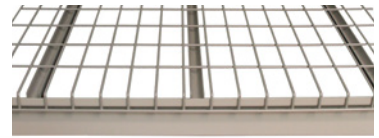
Solid Steel Decking



Particle Board Decking



Waterfall Wire Decking



Front To Back Support



Anchor Foot



Back To Back Tie Plate



Back To Wall Support



Back To Back Support



Upright Splice





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