

TECH DATA

SHELVING SYSTEMS

4-POST FREESPAN™ SHELVING

THE FUTURE OF YOUR
SHELVING & SPACE

Built on the bones of our traditional 4-Post solutions, 4-Post FreeSpan™ Shelving is designed for use in any space that needs dependable storage. FreeSpan Shelving is engineered to redefine modern storage by maximizing flexibility, speed, and functionality for its users and the space they occupy.



FEATURES AND BENEFITS

ADJUSTABLE

Patent-pending clip design allows for tool-free adjustment in $\frac{3}{4}$ " increments. Reference notches are located every 6" on the uprights.

DEPENDABLE

Shelves offer a standard capacity of 305+ lbs.; increasing to 455+ lbs. when FreeSpan™ Shelf Stiffeners are added.

COMPATIBLE

Backwards compatible with all Spacesaver 4-Post Shelving systems, 4-Post FreeSpan™ integrates into High-Density Mobile Shelving systems and Flexible Shelving units.

CONFIGURABLE

Open, Closed, or Case-Type Uprights in Single-Face, Double-Face, or Back-to-Back configurations pair with Universal Slotted, Perforated, or Plain Shelves - available as lift-out shelves or with FreeSpan™ Shelf Extenders - and accessories for endless configurations.

SAFE

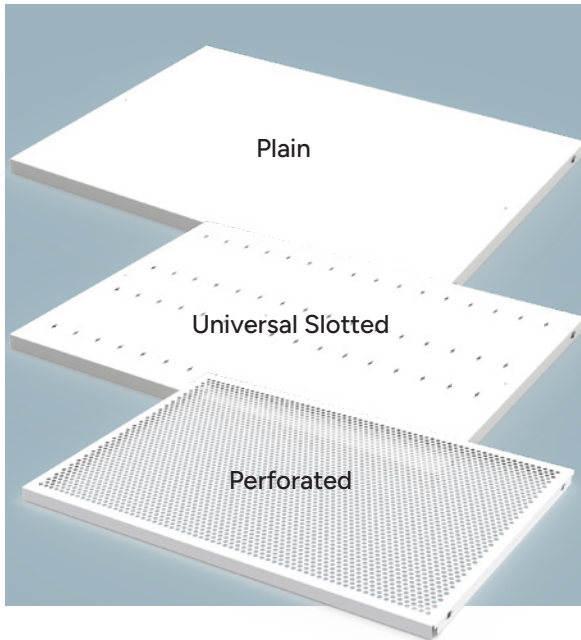
Meets ANSI MH28.1-2024a standards and is load tested to a 2x safety factor.

ATTRACTIVE

Available in a variety of powder coat paint colors, as well as with wood, laminate, acrylic, or glass end panel finishes.



4-POST FREESPAN™ SHELVING



FREESPAN™ SHELVES

Available in Plain (with or without Center Stop holes), Universal Slotted (with or without Center Stop holes), and Perforated. Shelves up to 48" wide are constructed with 20-gauge steel and shelves that are 49" to 72" wide utilize 18-gauge steel. Perforated shelves are made from 18-gauge steel and are available up to 48" wide at a 51% perforation to meet NFPA standards and support fire suppression, airflow, and ventilation needs.

UNIVERSAL SHELF CLIPS

FreeSpan™ Clips' robust double-rivet design permits up or down and left or right connection to posts and provides eight points of contact per shelf for quick and easy adjustment and reliable connection.



SYSTEM SIZES

STANDARD SHELVING SIZES

WIDTH	15" 24" 30" 36" 42" 48" 54" 60" 66" 72"
DEPTH	12" 15" 16" 18" 24" 30" 32" 36"

CUSTOM SHELVING SIZES

WIDTH	Available in 1" increments from 9" to 72"
DEPTH	Available in 1" increments from 9" to 36"

UPRIGHTS



Open Upright
Open Uprights offer enhanced visibility.



Closed Upright
Closed Uprights provide added security and aesthetics.



Case-Type Upright
Case-Type Uprights' double-walled design extends into the shelf area, preventing stored materials from slipping behind the upright posts.

STANDARD UPRIGHT SIZES

4-POST OPEN UPRIGHTS

HEIGHT	40.25" 64.25" 76.25" 85.25" 88.25" 97.25" 121.25"
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4-POST CLOSED AND CASE-TYPE UPRIGHTS

HEIGHT	40.25" 64.25" 76.25" 85.25" 88.25" 97.25" 121.25" 133.25" 143.75"
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CUSTOM UPRIGHT SIZES

4-POST OPEN UPRIGHTS

HEIGHT	Available in 1.5" increments from 23.75" to 121.25"
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4-POST CLOSED AND CASE-TYPE UPRIGHTS

HEIGHT	Available in 1.5" increments from 23.75" to 143.75"
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SHELVING CONFIGURATIONS

4-Post FreeSpan™ configurations include **Single-Face**, **Double-Face**, and two versions of **Back-to-Back**. Users may choose between a **Back-to-Back Dual** configuration that utilizes two separate uprights for shelf depths greater than 18" or a **Single Back-to-Back Midpost** upright configuration for shelf depths up to 18" - allowing for fewer components and faster installation.

OPTIONAL ACCESSORIES

4-Post FreeSpan™ is compatible with all Spacesaver 4-Post Shelving accessories:

Slotted Back Stops

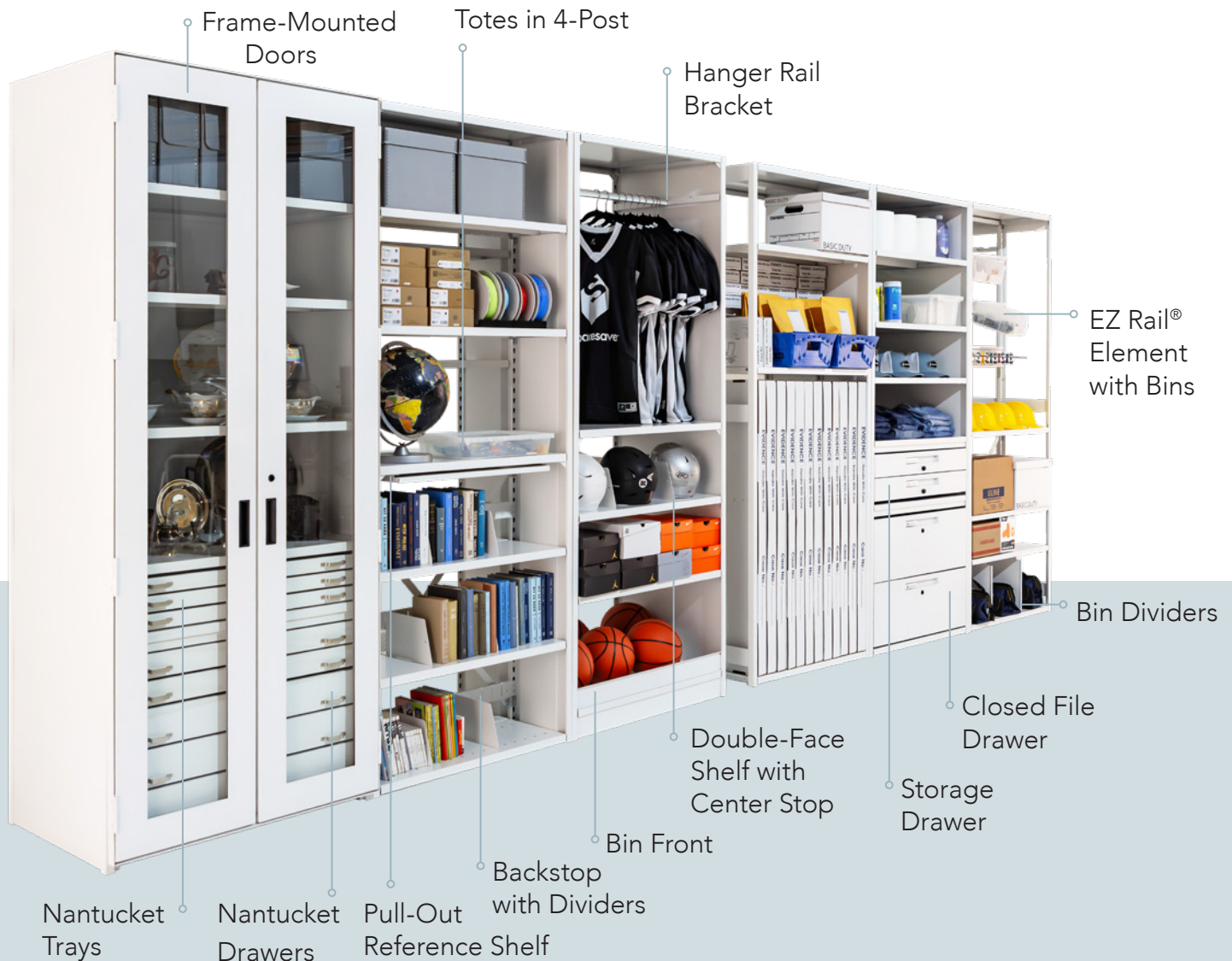
- Adjustable on $\frac{3}{4}$ " increments by flipping 180 degrees.
- Compatible with Single-Face and Back-to-Back shelving configurations.

Center Stops

- Available in slotted and plain formats, with options for 2"H or 4.75"H.
- Can be fitted for shelf width or upright width.
- Only compatible with shelving with Center Stop mounting holes.

FreeSpan™ Kick Plates

- Optional Kick Plates are available in 2.5"H or 4"H.



TECHNICAL SPECIFICATIONS

SHELVING SYSTEM DESIGN

4-Post non-angle/beaded post design consisting of uprights, shelves, shelf clips, and fixed braces. Shelves shall not have any holes on exposed surfaces. Front and back flanges shall be flush with outside faces of posts. Design shall permit individual shelf adjustment and/or removal anywhere along the entire height of uprights.

SHELVES

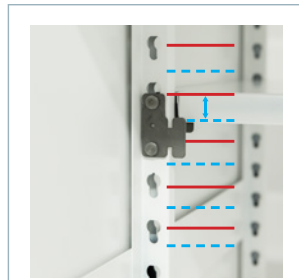
Formed from sheet steel minimum 20-gauge with flanges on all sides and return hem on front and back flanges. Shall be formed to clear the opening between upright posts. Shelves using clip-type attachment shall be independently adjustable without the use of tools. Louvered dimple features on underside to accept and interlock optional shelf stiffeners for increased load capacity. Minimum shelf

height of 1.125" [28.6mm]. Provide shelf units capable of supporting a minimum of 50 lbs./ft [22.6kg/305mm] with maximum deflection of L/140. Shelves shall exhibit no permanent deflection under fully loaded conditions and have a 2x safety factor. Tested by an accredited test facility in full compliance with the ANSI MH28.1-2024a specification evaluating uniform load capacity, allowable deflection, and system/component strength. Canopy tops to be provided in the same construction as shelf units.

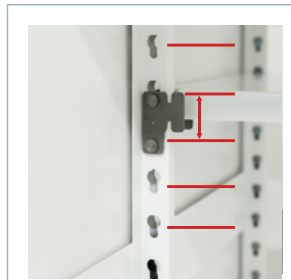
Optional perforated steel shelves shall be fabricated from a minimum 18-gauge sheet steel and provided with a perforation pattern yielding a minimum 51% open area. Perforations shall consist of 0.375" [9.5mm] diameter round holes arranged in a 0.50" [12.7mm] staggered pattern. Perforated steel shelves available in widths from 12" [304.8mm] to 48" [1,219.2mm].

MAX LOAD CAPACITY PER SHELF (LBS) FOR 12" - 48" WIDE SHELVES												
SHELF DEPTH (IN)	STANDARD CAPACITY NO SHELF STIFFENERS						HIGH CAPACITY ADD (1) SHELF STIFFENER					
	SHELF WIDTH (IN)											
	15	24	30	36	42	48	15	24	30	36	42	48
12	700	590	520	450	375	305	800	755	725	700	670	640
15	665	620	545	475	395	320	770	730	705	680	650	625
16	650	625	550	485	405	325	760	720	695	670	645	620
18	625	645	565	500	415	320	740	705	680	660	635	610
24	550	550	510	475	395	315	680	655	645	630	605	585
30	475	445	420	400	360	315	620	610	600	590	585	575
32	455	425	410	385	350	315	580	585	590	585	580	575
36	390	370	490	340	325	310	455	480	495	510	525	540

MAX LOAD CAPACITY PER SHELF (LBS) FOR 49" - 72" WIDE SHELVES								
SHELF DEPTH (IN)	STANDARD CAPACITY ADD (1) SHELF STIFFENER				HIGH CAPACITY ADD (2) SHELF STIFFENERS			
	SHELF WIDTH (IN)							
	54	60	66	72	54	60	66	72
12	575	490	410	325	775	665	550	435
15	575	485	400	325	770	655	535	430
16	575	485	400	325	770	650	530	430
18	570	485	395	325	765	645	520	430
24	565	475	380	325	740	625	490	425
30	535	465	380	315	635	635	490	425
32	530	465	380	310	605	605	490	425
36	510	460	380	300	535	535	490	425



$\frac{3}{4}$ " Shelf Adjustability



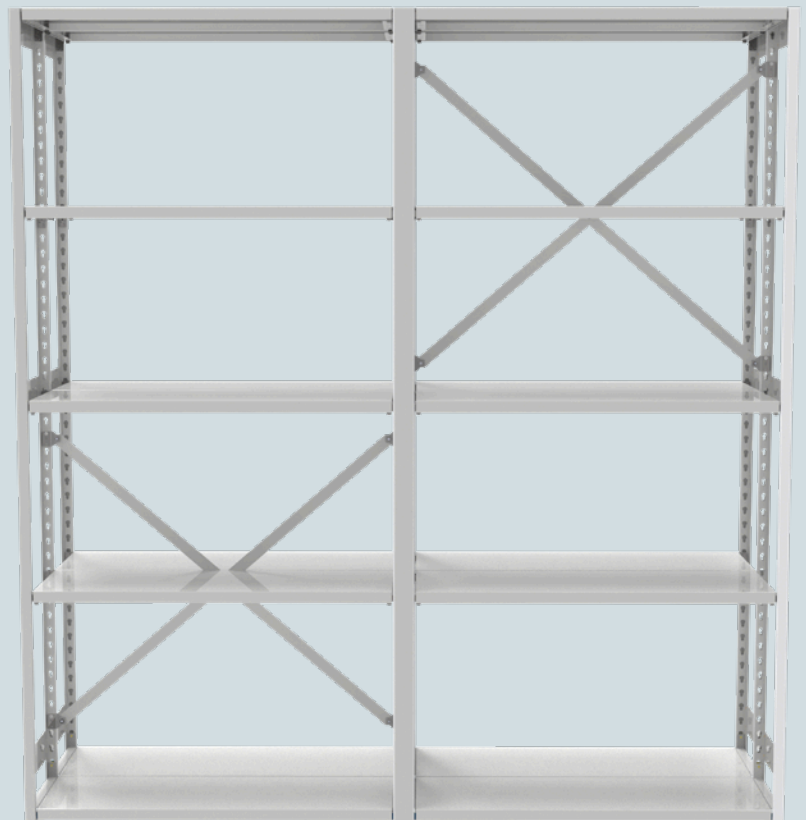
1- $\frac{1}{2}$ " Shelf Adjustability

UNIVERSAL SHELF CLIPS

Provide four (4) zinc plated 14-gauge steel shelf clip assemblies per shelf that engage with the upright key holes using two (2) floating rivets per clip to support the shelf. The clip shall allow positioning in up or down orientation to deliver shelf adjustability on 0.75" [19mm] or 1.5" [38mm] increments. Clips shall have arrow markings to identify up or down position and be compatible with both left and right posts.

NOMINAL SHELF MEASUREMENTS

- Width: 12" [304.8mm] to 72" [1,828.8mm] sections used to meet project requirements.
- Shelf Edge Vertical Profile: 1.125" [28.6mm] maximum.
- Vertical Adjustment Increment with Clip: 0.75" [19mm] or 1.5" [38mm].
- Vertical Adjustment Increment with Fixed Brace: 1.5" [38mm].
- Width Of Intermediate Uprights: 2" [50.8mm].
- Clearance Between Uprights: Nominal shelf section width minus 2" [50.8mm].
- Levelness of Completed Shelf Units: Maximum 0.125" [3.2mm] between bottom shelf and canopy top, measured along the edge of any upright in any direction.
- Number of Vertical Shelf Spaces and Vertical Shelf-To-Shelf Spacing as indicated on drawings.



TECHNICAL SPECIFICATIONS CONTINUED

BRACING OPTIONS

Fixed Bracing is an interference-type brace that is formed from heavy gauge steel sheet with four (4) solid steel shoulder rivets that interlock with inner wall of uprights to provide structural stability for the shelving section at the bottom, middle, and top unless other bracing methods are employed. Fixed braces shall support shelves in lieu of clips at the installed locations.

- **Fixed Bracing** is available in three (3) styles:
 - Standard Fixed Bracing with a gusseted profile for maximum access, and double-rivet engagement to the uprights. Commonly used for all fixed brace locations of intermediate height (i.e. not the bottom location).
 - 2.2"H [55.9mm] Trim Fixed Bracing minimizes the reveal between shelving and trays or drawers beneath them for a clean, aesthetic appeal. Uses double-rivet engagement to the uprights.
 - 1.25"H [31.8mm] Anchorable Fixed Bracing anchors shelving bays and is most commonly used to support the bottom shelf in the lowest shelf position.
- For **Double-Face Shelving** configurations, Fixed Bracing supports the system at the top, middle, and bottom to ensure stability, and is required every 42" [1,066.8mm] in height. Shelf clips can be used to support all other shelving positions. Anchor feet are often substituted to support the bottom shelf.

Cross-Bracing can be utilized with Single-Face or Back-to-Back configurations and alternate in positioning between the top and bottom of the shelving uprights within a run of shelving.

- One Cross-Bracing pair is required per shelving bay up to 88.25"H [2,241.6mm] for single-bay systems, and up to 121.25"H [3,079.75mm] for multiple-bay systems.
- Two Cross-Bracing pairs are required per shelving bay for installation in all seismic zones AND all applications where shelving heights are greater than 88.25"H [2,241.6mm] for single bays and greater than 121.25"H [3,079.75mm] for multiple-bay systems.
- Cross-Bracing varies in size, depending on the width and height of each shelving bay. Cross-Bracing pairs robustly secure to 4-Post upright keyholes using four (4) heavy gauge steel brace clips per Cross-Bracing pair.

Back Panels can be utilized with Single-Face and Back-to-Back shelving configurations.

- Back Panels provide maximum structural rigidity to shelving systems and also help to secure stored items and protect against dirt and debris.
- Back Panels require four (4) brace clip connections for shelving bays up to 88.25"H [2,241.6mm], or six (6) brace clip connections for shelving bays greater than 88.25"H [2,241.6mm].

ANCHORING OPTIONS

All 4-Post Shelving bays are securely anchored for stability. Anchoring methods include anchoring to the floor, to a wall, to a Flexible Shelving caster base, or to a High-Density Mobile Shelving carriage. Use 1.25"H [31.8mm], 2.5"H [63.5mm], or 4"H [101.6mm] anchor feet or select 1.25"H [31.8mm] anchorable fixed bracing to anchor each shelving unit and support the bottom shelf. Optional shim plates are available for ease of leveling.

UPRIGHTS

OPEN UPRIGHTS:

Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots every 1.5" [38mm] on inner wall only with identifier notch for height on 6" [152.4mm] increments. Front and rear face of post to be free of holes or missing material. Provide with sheet steel panels full height and depth of end uprights. Provide intermediate open "tee" uprights with a minimum of three welded spreaders between adjacent units or as indicated on drawings. Provide optional single Midpost upright for Back-to-Back shelving applications.

CLOSED UPRIGHTS:

Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots every 1.5" [38mm] on inner wall only with identifier notch for height on 6" [152.4mm] increments. Front and rear face of post to be free of holes or missing material. Provide with sheet steel panels full height and depth of end uprights.

CASE-TYPE UPRIGHTS:

Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots on inner wall only with identifier notch for height on 6" [152.4mm] increments. Front and rear face of post to be free of holes or missing material. Provide intermediate "tee" uprights between adjacent units. There shall be a 24-gauge steel panel welded to both sides of the two posts to form a hollow, Closed upright which is flush with the steel posts.

Load Capacities Per Shelf Bay:

OPEN UPRIGHTS	CLOSED UPRIGHTS	CASE-TYPE UPRIGHTS
2,590 LBS.	3,650 LBS.	4,000 LBS.
1,174.8 KG	1,655.6 KG	1,814.3 KG





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