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MOBILE STORAGE SOLUTIONS

 **PIPP**[®]
MOBILE STORAGE SYSTEMS

 **IRSG**[®]
DIVISION OF PIPP MOBILE

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OVERVIEW



Since 1981, **Pipp Mobile Storage System's mission** has been to design space-saving systems that are responsive to customer-specific storage needs; to manufacture our systems to the highest quality standards; and to provide a level of sales and service support that is unsurpassed in the storage products industry. That mission is ongoing. Our extensive product line allows us tailor systems for many different storage situations, and we have the manufacturing capacity to handle high volume requirements. In addition, we take pride in our reputation of responding quickly and effectively to unexpected job-site challenges. Our sole focus is on ways to help our customers use storage space wisely.

STORAGE OPTIMIZATION



Hanging Goods



Flat Goods



Misc. Goods



Packaged Goods



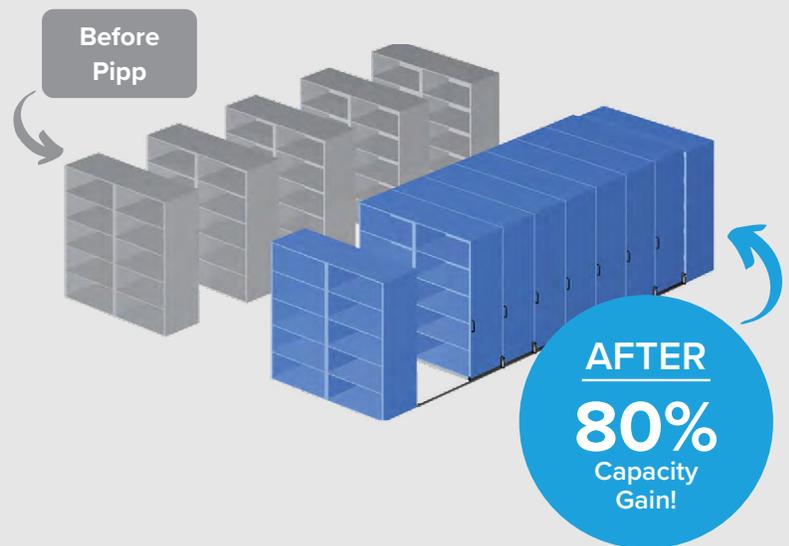
Material Handling



Agriculture

CREATING SPACE

Pipp Mobile's solutions **create more space** by compacting storage and eliminating fixed aisles. This, in turn, creates a single aisle system that **increases storage capacity by as much as 80%!**



MOBILE SOLUTIONS

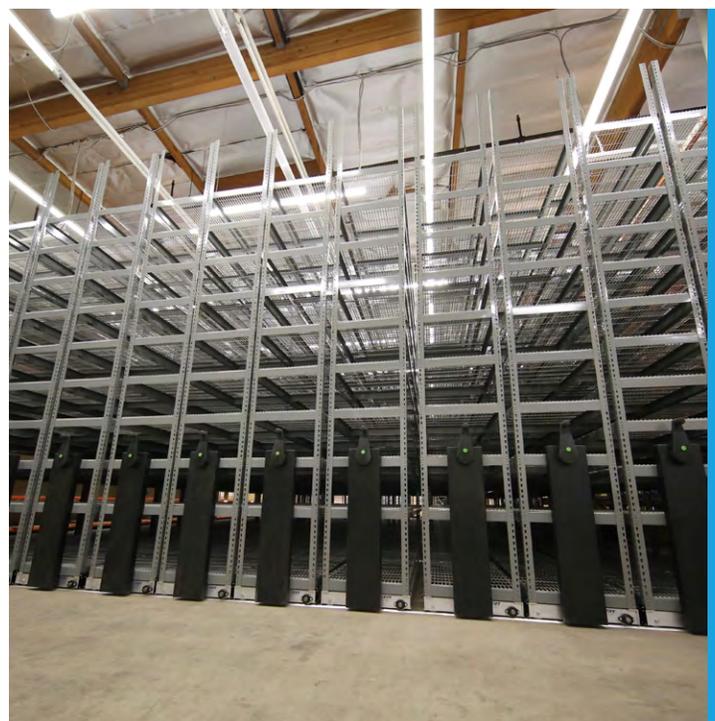


MANUAL COMPACTING MOBILE STORAGE SYSTEM

Manual Compacting Mobile Storage Systems eliminate unnecessary aisles between each unit, increasing storage capacity by as much as **80%**, and also increases floor space by as much as **50%** at **1/3** the cost! This system is available in both standard and heavy duty. The standard duty system is best used in applications such as, light-weight filing and retail applications (shoe, apparel, handbags). However, as materials become heavier in weight, such as furnishings, supplies, “small-box” storage, large record or filing, the heavy duty system is the product of choice. The maximum system length is 12’ with an overall weight capacity of 3,000 lbs. per carriage. Shelving options include **Four-Post, Tab, Wire, Rivet Style Shelving** and the heavy duty system can accommodate **Light** and **Heavy Duty Pallet Rack** and **Bulk Rack**. This system is available with **Flat Track** or “**V**” **Groove Track**, both which are ADA Compliant. The anti-tip options are **In-Track Anti-Tip, Z-Rail Anti-Tip**, and **Overhead Anti-Tip** Systems.

MECHANICAL-ASSIST MOBILE STORAGE SYSTEM

Mechanical-Assist Mobile Storage Systems incorporate a drive shaft which runs the entire length of the carriage to assure smooth, responsive carriage movement, eliminating “lag time” or “sway”. Its 16:1 gear ratio drive allows access to be a virtually effortless with a simply turn of the ergonomically designed handle. The Mechanical-Assist Mobile System is applicable when carriage weights exceed 3,000 lbs. or 12’ in length. In addition to previously stated storage situations, ideal opportunities for this system are “big-box” storage environments, X-ray, archival storage, equipment and warehouse storage. The overall weight capacity is 1,000 lbs. per linear foot of carriage. The recommended maximum system length is 24’; applications beyond this length should be approved by Pipp. Shelving options include **Four-Post, Tab, Wire, Rivet Style Shelving, Light** and **Heavy Duty Pallet Rack** and **Bulk Rack**. This system is available with **Flat Track** or “**V**” **Groove Track**, both which are ADA compliant. The anti-tip options are **In-Track Anti-Tip, Z-Rail Anti-Tip**, and **Overhead Anti-Tip** Systems.



MOBILE SOLUTIONS



MANUAL LATERAL MOBILE STORAGE SYSTEM

Manual Lateral Mobile Storage System's ideal applications are office/filing, supply storage and medical records environments. This system's configuration consists of a rear row of stationary shelving plus 1 row (Bi-File) or 2 rows (Tri-File) of mobile units installed in front. To access the rear row of files, simply push the mobile units to the side. The lateral movement of this system allows for 50% of stored materials to be exposed at all times. The Manual Lateral Mobile System has a weight capacity of 3,000 lbs. per carriage. Shelving options include **File Drawers**, **Four-Post Style**, and **Rivet Style Shelving**. This system is available with "**V**" **Groove Track**, which is ADA compliant. An Anti-Tip system is mandatory with this system. The E-Z Track Anti-Tip is the most popular anti-tip system for this storage solution. Additional anti-tip options are **In-Track Anti-Tip**, **Z-Rail Anti-Tip**, and **Overhead Anti-Tip Systems**.

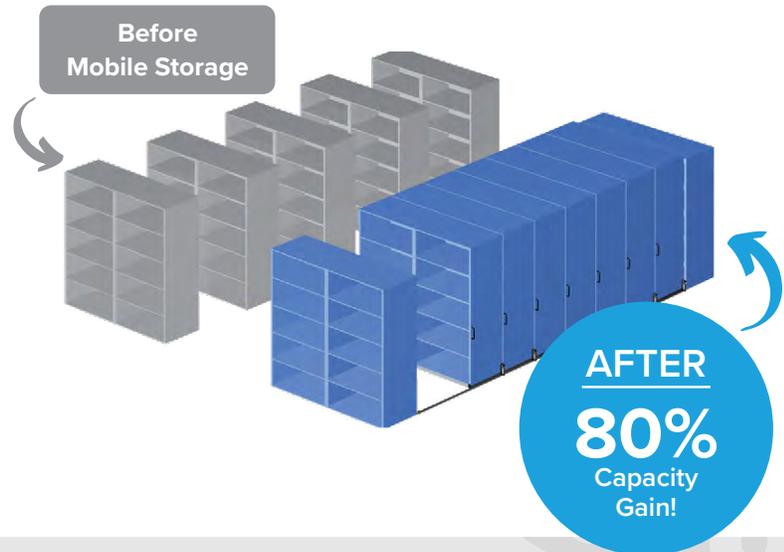
ELECTRICAL COMPACTING MOBILE STORAGE SYSTEM

Electrical Compacting Mobile Storage System's modular design requires minimal on-site mechanical assembly. Electrically, the majority of the wiring is completed at the factory; only 7 electrical connections are required per carriage during installation. One 20 amp circuit can run 5 carriages. The system is UL approved and uses standard industrial components. The carriages can be operated in a manual and automatic cycle. Each carriage has 3 safety systems; lower photo eye, optional upper photo eye and stall sensor. This system is typically used in large retailer, "big-box", library, warehouse and industrial storage environments. The maximum carriage length is 40' with a depth of 72" and an overall weight capacity of 45,000 lbs. Shelving options include **Light** and **Heavy Duty Pallet Rack** and **Bulk Rack**. This system is available with **Floor Mounted Flat Track** or **In-Ground Flat Track**. The anti-tip option is the **In-Track Anti-Tip** Systems.



THE SUPERIORITY OF MOBILE STORAGE

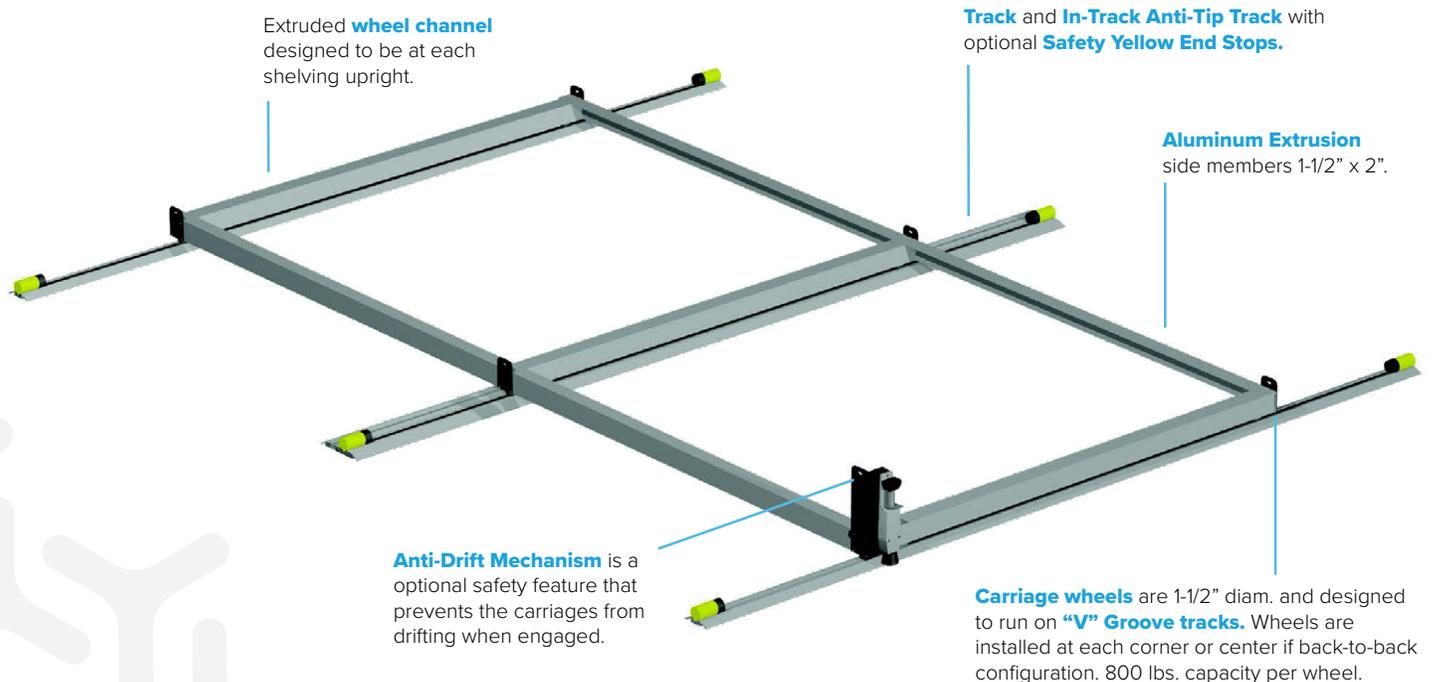
Pipp Mobile's solutions **create more space** by compacting storage and eliminating fixed aisles. This, in turn, creates a single aisle system that **increases storage capacity by as much as 80%!**



STANDARD-DUTY MOBILE CARRIAGE

Standard-Duty Manual Carriage is best used in applications such as light-weight filing and retail applications (shoe, apparel, handbags). The Standard-Duty Manual Carriage has 2 configuration options: **lateral** and **compacting**. The maximum carriage length is 12' with an overall weight capacity of 3,000 lbs. per carriage. **Shelving Options** include: File Drawers, Storage Cabinets, Four-Post Style Shelving, Tab Style Shelving, Wire Style Shelving, and Rivet Style Shelving. Several **safety features** and **mobile accessories** are available to maximize storage potential.

STANDARD-DUTY MOBILE CARRIAGE SPECIFICATIONS



HEAVY-DUTY MOBILE CARRIAGES

HEAVY-DUTY MANUAL CARRIAGE

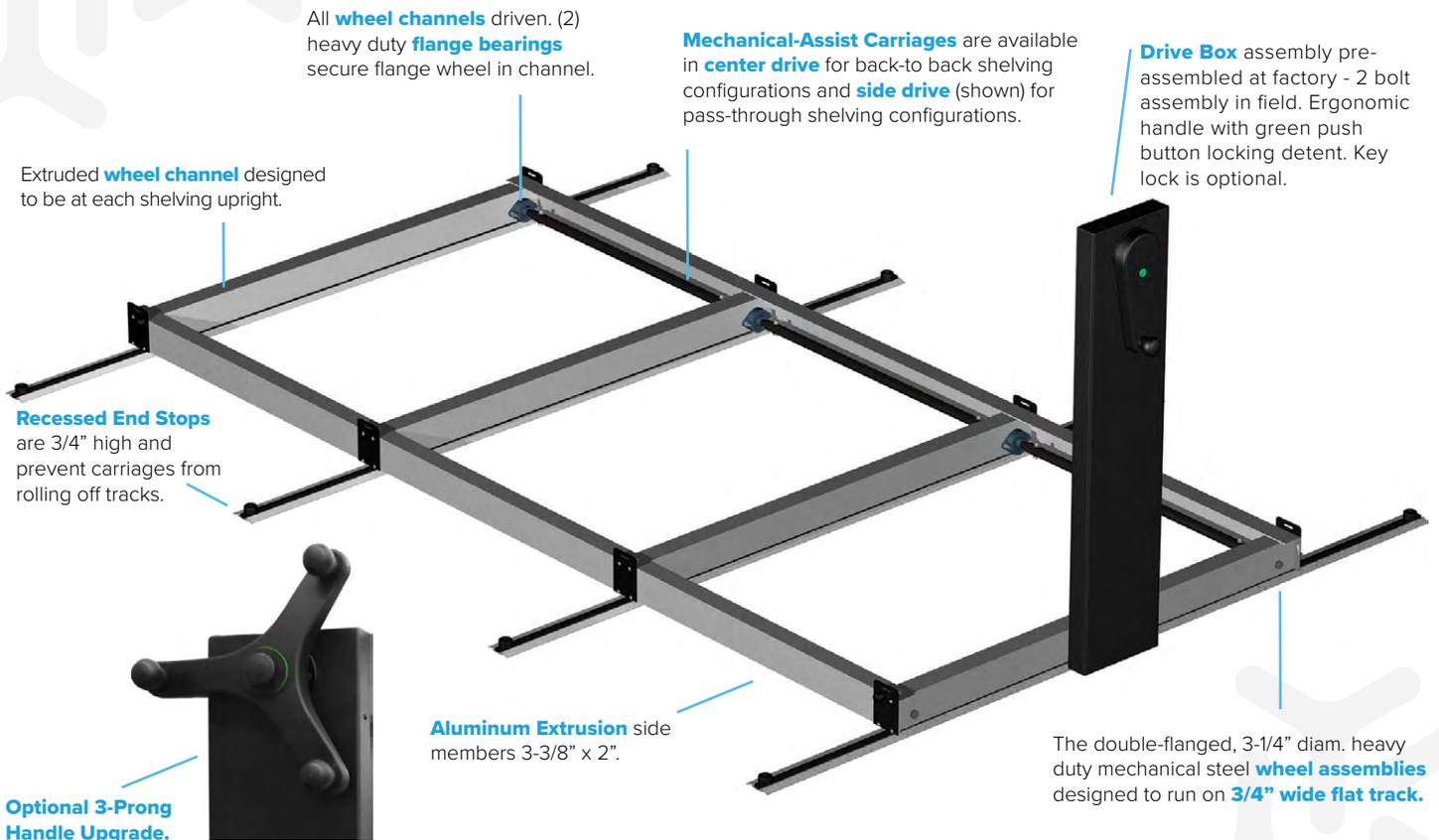
While similar to the Standard-Duty Manual Carriage, the Heavy-Duty Manual Carriage is an intermediate carriage with a more robust frame. It utilizes a larger base and wheels for ease of movement when heavier loads are applicable. It is the best manual option when storing materials such as furnishings, densely stored supplies, “small-box” storage, large record or filing storage. It is recommended that the Heavy-Duty Manual Carriage be used at 12’ and under, as well as, when loads can reach up to 3,000 lbs. This carriage can handle more weight; however, it is a matter of what the average person can move comfortably without mechanical assistance.

MECHANICAL-ASSIST CARRIAGE

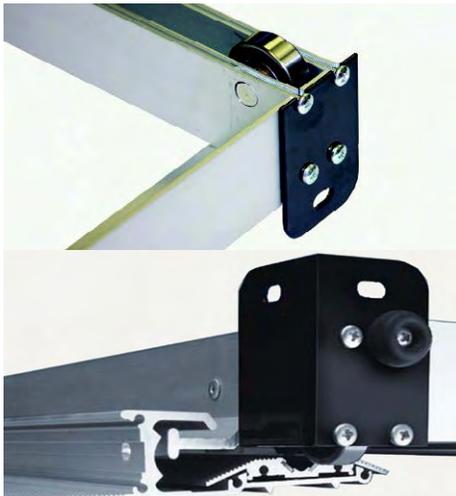
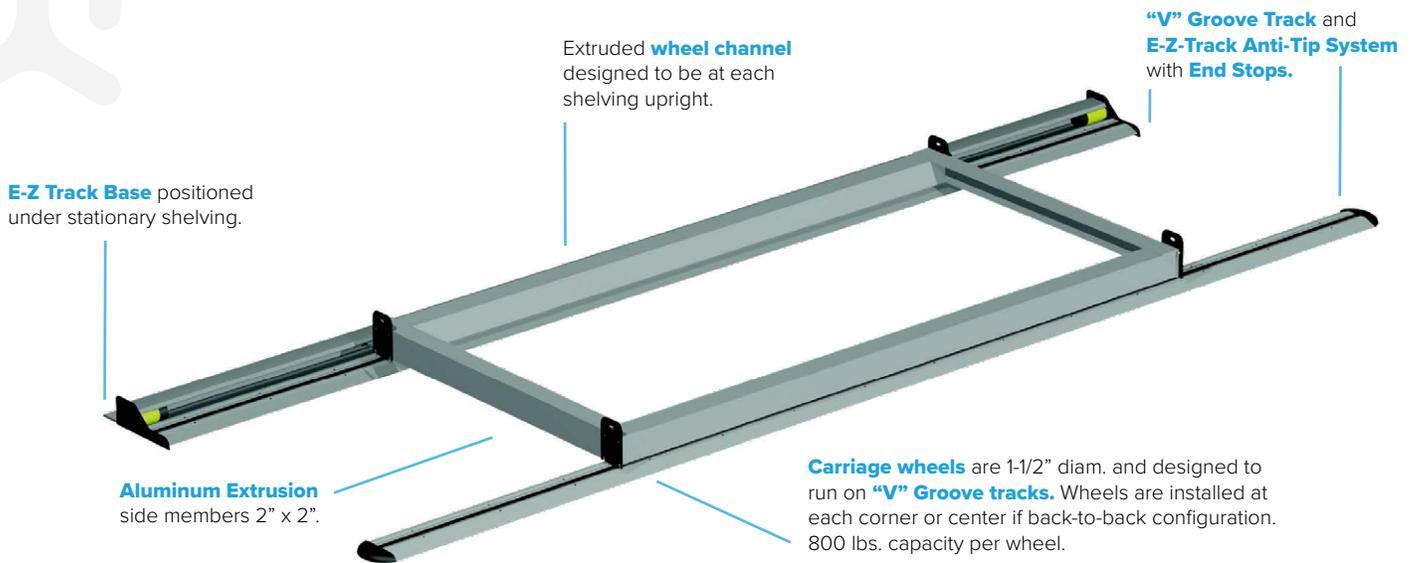
Mechanical-Assist Carriage takes advantage of the robust frame of the Heavy-Duty Manual Carriage and eliminates “lag time” or “sway”. The gear ratio allows access to be virtually effortless with the simple turn of the ergonomically designed handle. The overall weight capacity is 1,000 lbs. per linear foot of carriage. The recommended maximum carriage length is 48’. The Mechanical-Assist carriage is best utilized in applications such as “big-box” storage environments, warehouse storage, X-ray or archival filing storage. It also can be used as a matter of preference.

Heavy-Duty Carriages Shelving Options include: File Drawers, Storage Cabinets, Four-Post Style Shelving, Tab Style Shelving, Wire Style Shelving, Rivet Style Shelving, Light & Heavy Duty Pallet Rack, and Bulk Rack. Several mobile accessories and safety features are available to maximize storage potential.

HEAVY-DUTY MANUAL CARRIAGE & MECHANICAL-ASSIST CARRIAGE SPECIFICATIONS:

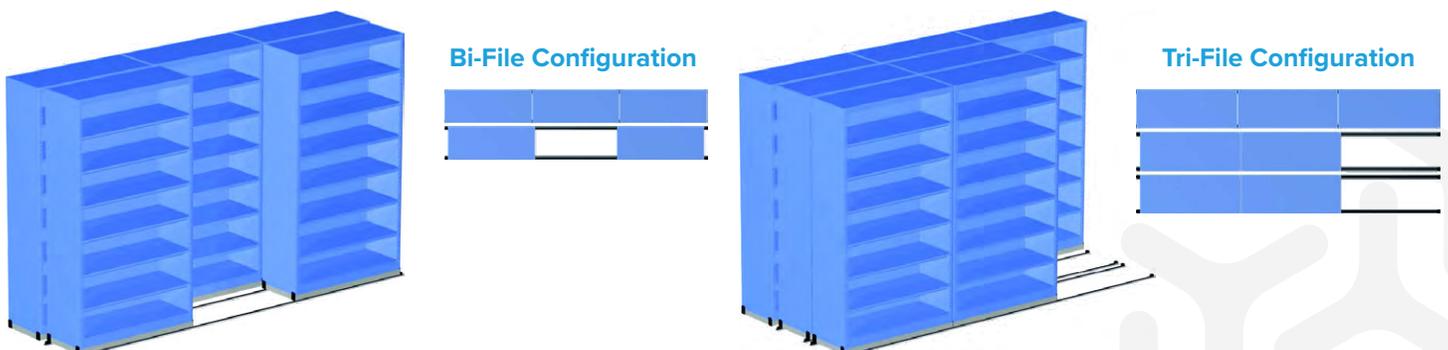


LATERAL MANUAL MOBILE CARRIAGE SPECIFICATIONS



- ▶ Carriage wheels are 1-1/2” diam. and designed to run on “V” Groove tracks. Wheels are installed at each corner or center if back-to-back configuration. 800 lbs. capacity per wheel.
- ▶ Overall construction is an assembly of 2” high angles (for length) and channels (for depth).
- ▶ Height from floor to top of angle (shelving mounting surface) is 2-3/4” for the “V” Groove carriage.
- ▶ Carriage dimensions equal storage unit dimensions plus 3/8”.
- ▶ Wheels are 1.58” diameter ball bearing, permanently lubricated and sealed.
- ▶ Anti-Tip is mandatory on all Lateral Mobile Carriages.
- ▶ Carriage frame is heat-treated aluminum.
- ▶ Standard color is silver aluminum with black trim.
- ▶ Maximum length of the carriage is 12’.
- ▶ Overall weight capacity is 3,000 lbs. per carriage.

CONFIGURE OPTIONS



“V” GROOVE TRACK SYSTEM

“V” Groove Track System is our standard track. It is a floor mounted track with the ability to be installed on a variety of different surfaces. The low profile design and the tapered sides eliminates tripping hazards and makes it easy for carts and other equipment to be moved in and out of the aisle. The installation of the tracks is very easy with minimal anchoring. The “V” Groove track is ADA compliant and is available with our built-in In-Track Anti-Tip safety feature.



Adjustable Standard Manual “V” Groove Track

Adjustable Standard Manual “V” Groove Track is just over 3-1/4” wide, less than 7/16” at its highest point and is made from heat treated aluminum. This adjustable track has set screws which allow for a 1/4” of leveling if needed and is available with flat or carpet “grabbing” underlayment. This track can be used with the standard manual carriage.

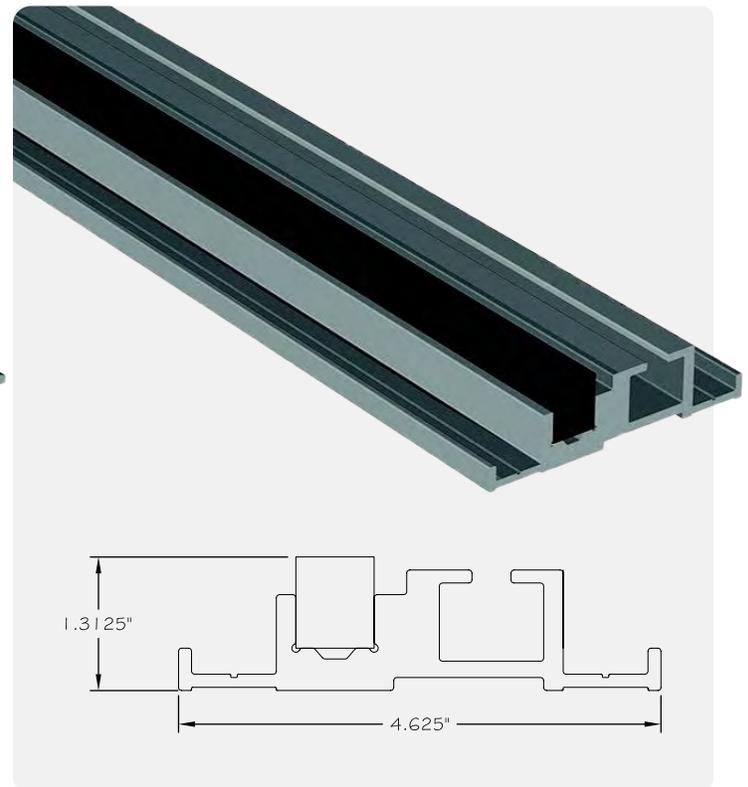
Non-Adjustable Heavy Duty Manual “V” Groove Track

Non-Adjustable Heavy Duty Manual “V” Groove Track is less than 2-3/4” wide, 1/2” at its highest point and is made from heat treated aluminum. There is no adjustability within the track for this style but this track can be leveled through shimming. This track can be used with the standard manual carriage, provides a price competitive heavy duty track option. The Non-Adjustable Heavy Duty Manual “V” Groove Track is compatible with all In-Track Anti-Tip Tracks.

NOTE: Depending on the application there are other variations available. They include a solid aluminum track or flat edged track for decking.

FLAT TRACK SYSTEM

Flat Track System is an alternative to our standard “V” Groove track. The Flat Track maintains the standard features of our “V” Groove track and incorporates the same ease of installation. The Flat Track is manufactured with a low profile and tapered sides eliminating tripping hazards and making it easy for carts and other equipment to be moved in and out of the aisle. The Flat Track is ADA compliant and is available with our built-in In-Track Anti-Tip safety feature.



Heavy Duty Flat Track

Heavy Duty Flat Track is less than 3-1/4” wide, 1/2” at its highest point and is made from aluminum. It has a flat steel insert that is 3/4” wide. This track will eliminate debris in the groove. There is no adjustability within the track for this style but this track can be leveled through shimming. This track can be used with the heavy duty flat track carriage and the mechanical-assist carriage.

Decked ITAT Flat Track

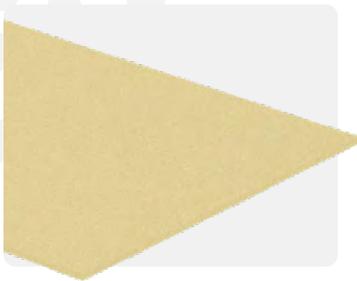
Decked ITAT Flat Track overall is 4-5/8” wide and 1-5/16” high. When installed, only 1/8” of the 7/8” X 3/4” steel insert is above the decking. This track is primarily used when specifications require a levelable track. This track was designed with high grade engineered composite decking in mind. This will provide a completely “finished” look to the overall system. The track is ideal for heavy duty carriages like mechanical-assist and electric carriages.

RIVET STYLE SHELVING

Rivet Style Shelving combines easy assembly with structural integrity. The positive rivet connection is joined with 14-gauge angle post to create a rigid framework ideal for high density shelving. The two-way keyhole slots and snap-in rivet design provide a simple installation. There are no clips, braces or additional hardware needed. Various shelf decking options include particle board, metal, circle perforated metal and wire grid. The shelves can be adjusted in 1-1/2" increments for optimal flexibility. The rivet shelving parts are available in a wide variety sizes to fit specific storage requirements. Rivet Style Shelving has a weight capacity of 375 - 600 lbs. per shelf (depending on size).

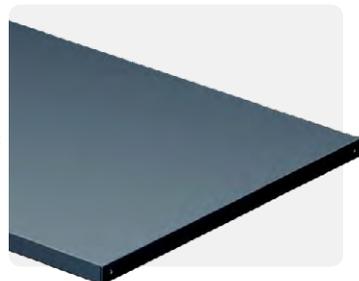


SHELF DECKING OPTIONS



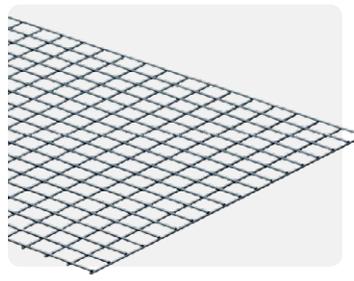
Particle Board

5/8" Thick



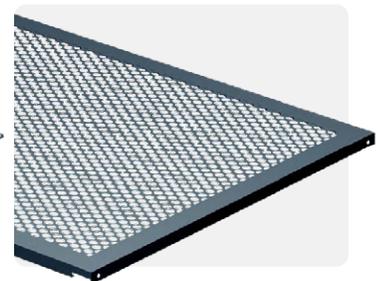
Metal

22-Gauge



Wire Grid

2" x 4" or 1" x 4" Openings



Circle Perforated

22-Gauge | 50+% Open

RIVET STYLE SHELVING SPECIFICATIONS

Structural Integrity

Positive rivet connection combines with 14 gauge angle post to make a rigid framework ideal for mezzanine or high density mobile shelving.

Easy Assembly

Two way keyhole slots and snap-in rivet design make installation simple. No clips, sway braces, corner gussets or additional hardware needed.

Flexible Design

Shelves adjust in 1-1/2" increments for optimum flexibility.

Low Profile Shelf Support

Low profile double rivet shelf support is formed of 14 gauge steel and 11 gauge steel for heavier applications. Supports have flat ears at either end and form into a channel with a depth of 1-1/8". These supports are available up to 60".

Tall, Upright Posts

Upright posts are available in 1' increments in lengths up to 181".

Z-Beam Shelf Support

14 or 16 gauge support that maximizes shelf openings with thin but strong shelf supports which are available up to 72".

Long Spans

Configure units up to 96" wide by 60" deep with Rivet Style channel beams.

Strength without Compromise

Standard 14 gauge double rivet beam has 2-3/4" profile and handles loads up to 2,000 lbs. Or choose our optional 3-1/4" profile channel beam for even greater load capacity.

Added Reinforcement

Handle extra heavy loads with extra center support.

Strong, Economical Shelves

Industrial grade particle board shelves hold up to the toughest applications at an affordable price. Several additional shelf options are available.



TAB STYLE SHELVING

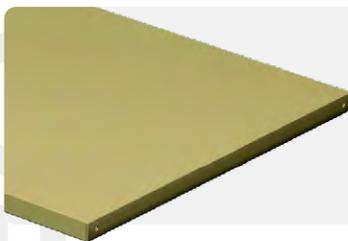
Tab Style Shelving enhances any area with superior design and product quality. The “Box” form creates incredible durability and the epoxy coating minimizes sharp edges and provides an attractive, smooth finish. This shelving system is comprised of two 16-gauge uprights with tabs for mounting shelves and accessories. 18-gauge metal spreaders are riveted to the uprights creating a rigid framework. The metal “Box” shelves are constructed of 22-gauge steel allowing for a weight capacity of 375 lbs. per shelf. Shelves are simply inserted into tabs on uprights without any additional hardware or clips making for easy assembly and relocation of this shelving. Standard paint finish is sand but gray is also available.

Available Sizes:

Height - 1' increments
 Length - 36", 42, 48",
 Depth - 12", 14", 16", 18", 24"

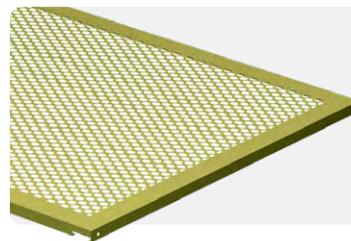


SHELF DECKING OPTIONS



Metal “Box”

22-Gauge



Circle Perforated

22-Gauge
 50+% Open

TAB STYLE SHELVING SPECIFICATIONS

Uprights

Consists of two Posts & Spreaders riveted together into a rigid framework. Posts have lances for mounting shelves and shelving accessories such as hangbars and ladder holders.

Hangbar

Consists of two "U" shaped beams that mount to the lances on the uprights like the shelves. The round hangbar is fitted on to the beams and is secured into position using standard pin and clips.

Metal "Box" Shelf

Constructed of 22 gauge steel, with full welded "Box" form in front and back of shelf forming channels on both ends. Shelves attach to lances on uprights without clips or hardware.

Long-Lasting Finish

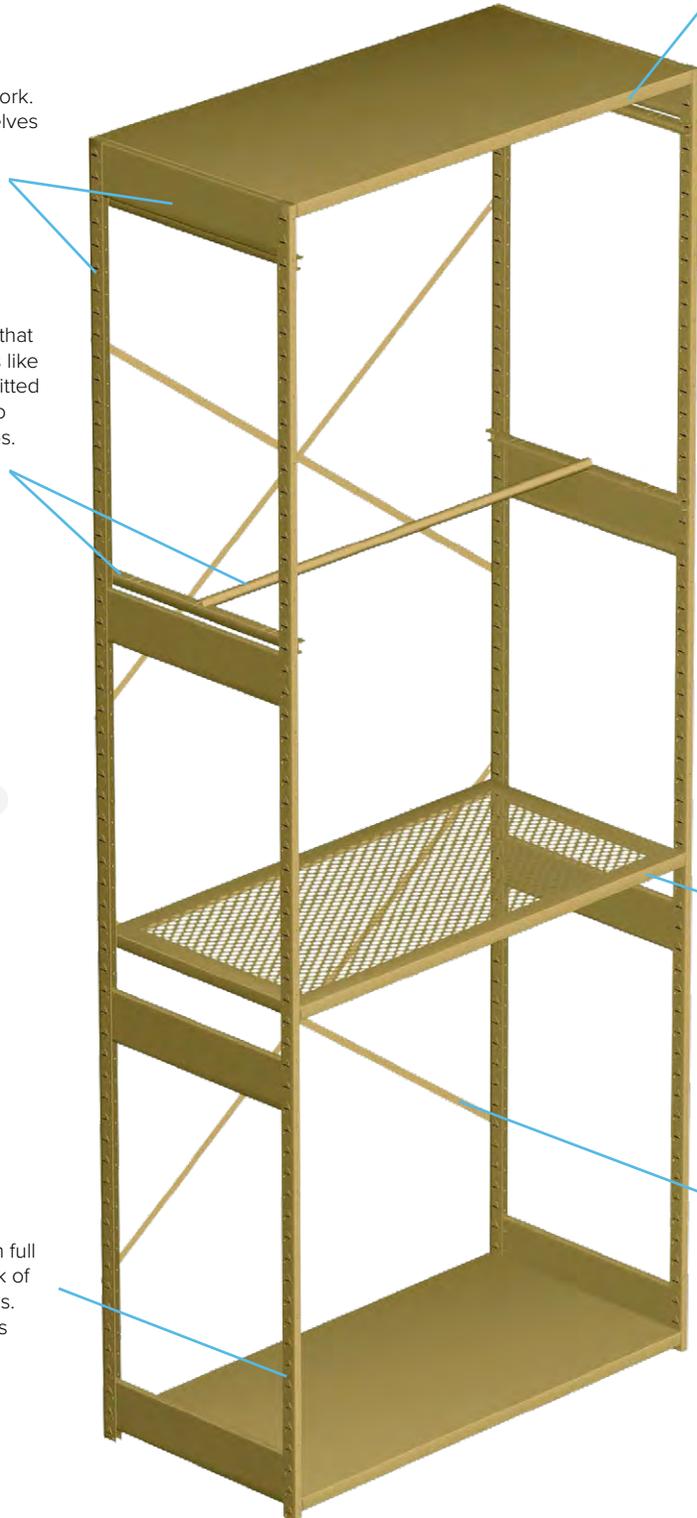
Parts are uniformly coated with epoxy paint to ensure complete and even coverage and to provide a smooth attractive surface which minimizes sharp edges, reducing catches and snags. Standard color is Sand. Gray is also available.

Circle Perforated Shelf

Constructed of 22 gauge steel and is 50+% open. This shelf style is used when required per fire code or as a matter of preference.

X-Brace

Provides extra stability to shelving unit. Riveted together in the center and attached to the upright to form an "X" in the rear of the unit. It is constructed of 18 gauge steel.

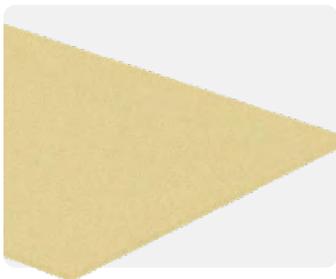


BULK RACK

Bulk Rack is the best choice for storing heavy, bulky items. It allows clear and convenient access from front or rear. Shelf spans of 96" W x 54" D are available. Uprights are pre-welded for fast assembly and strength. Each unit can handle load capacities up to 10,000 pounds. Beams incorporate a unique tapered finger design attachment that locks beams safely onto uprights. Two styles of beams and deck supports allows you choose between several different shelf options.

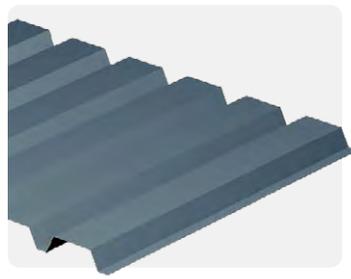


SHELF DECKING OPTIONS



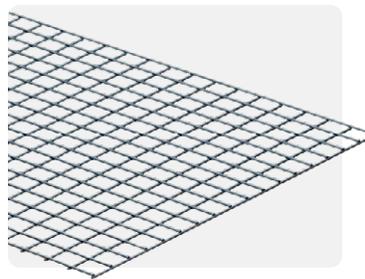
Particle Board

5/8" Thick



Corrugated Steel

9/16" High



Wire Grid

Flat or Waterfall
2" x 4" or 1" x 4" Openings



BULK RACK SPECIFICATIONS

Assembles Easily

Beams simply slide into place. Assembly takes less than half the time of most other shelving systems.

Preassembled Uprights

Welded uprights make installation fast and convenient.

Extra Strength

Rolled formed steel box beams provide added strength at front and back of shelf edges.

Box Beam Plywood Holder

Converts a Box Beam to hold particle board decking.

Three Types of Decking

Choose between wire, particle board or corrugated metal decking depending on your application.

Box Beam Plywood Holder

Converts a Box Beam to hold particle board decking.



WIRE STYLE SHELVING

Wire Style Shelving is NSF approved. Wire shelving reduces dust build-up, allows free light and air circulation, increases sprinkler effectiveness and improves visibility. It is fast and easy to install with no special tools required. Wire shelving can be safely secured to Pipp's unique mobile carriages using Intermediate Wire Post Brackets to create a lateral or compacting mobile configuration. Wire Style Shelving provides the strength, durability and cleanliness needed in many storage markets, making it the appropriate storage solution for healthcare, hospitality and restaurant storage applications and other sanitary or clean environments.



Linen Storage



Sterile Surgical Equipment Storage



Supply Storage with Wire Side & Back Panels



Box Storage

WIRE STYLE SHELVING FEATURES

WIRE STYLE SHELVING UPRIGHTS

Wire Style Shelving Uprights are constructed of 16 GA tubing that are marked every 5" and the shelves are adjustable on 1" increments. The uprights each have adjustable feet for leveling of the unit. The shelving units can be combined in a variety of configurations to maximize the storage area. Additional units can be combined side by side or joined back to back with the use of "S" Hooks and Post Clamps. Wire side and back panels can also be applied to provide security and separation of stored materials. There are a variety of heights available, however standard heights are 63", 74" and 86".

WIRE STYLE SHELVING SHELVES

Wire Style Shelving Shelves are constructed of stainless steel shelf ribs that run front to back, allowing items to slide on and off shelves smoothly. Shelf Adapters are used to secure each corner to the uprights. The shelves are assembled in minutes without the use of any special tools. Standard shelf sizes range from 14", 18", 21" and 24" deep by 24", 30" 36", 42" 48" 60" and 72" wide. Shelf capacities vary according to size but they range from 400 lbs. - 800 lbs. per shelf. Contact Pipp for additional information on non-standard sizes, accessories or specific weight capacities.



Upright Post with Adjustable Shelf Sleeve Connector



Wire Shelf



Post Clamp



Carriage with Anti-Drift Mechanism



Wire Post Brackets for Mobile Carriages

Contact Pipp for additional accessories.

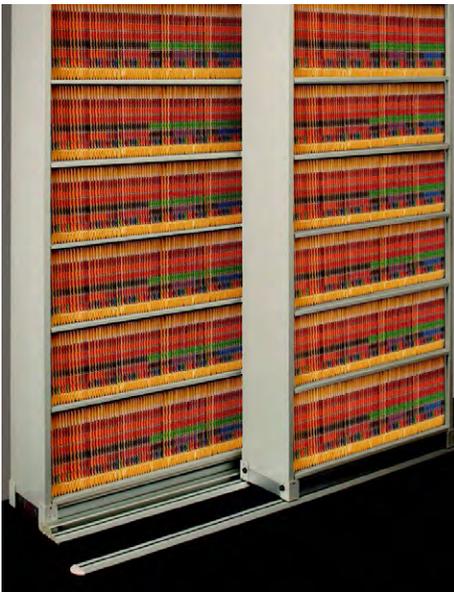
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FOUR-POST STYLE SHELVING SOLUTIONS

Four-Post Style Shelving is the most comprehensive shelving system of its kind. It is incredibly durable, easily accessible and attractively designed. With its double wall construction and unique interlocking keyhole slot design, shelf supports are secured inside the wall leaving a smooth, clean appearance making this shelving ideal for Open Shelf Filing, Library Book Stacks, Heavy Duty Industrial Storage, X-ray Filing, or various EDP Media Storage. Additionally, Pipp's Four-Post Style Shelving can be easily expanded as your business needs grow.



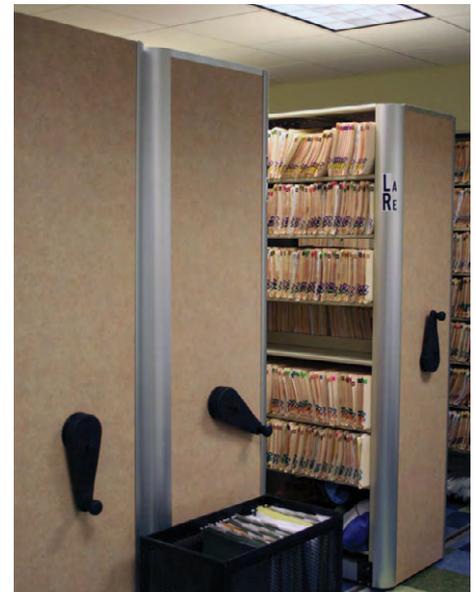
MOBILE APPLICATION OPPORTUNITIES



Lateral Mobile System



Manual Compacting Mobile System



Mechanical-Assist Compacting Mobile System

Contact Pipp for additional accessories.

LIT-PD-0020-R00

FOUR-POST STYLE SHELVING SPECIFICATIONS

Sleek, Attractive Appearance
With no exposed holes on uprights.

Sturdy Shelves
Shelves have double-bend reinforcement on all sides. Available in 18 and 22-gauge steel.

Long-Lasting Finish
Baked-on enamel finish will last for years.

Strong Steel Returns
Increase the rigidity of the backstop.

Extra High Dividers
7-1/2" Dividers, adjustable on 2" centers, help to keep folders standing in an upright position.

Thin Profile Shelf Supports
3/4" Profile allows close shelf centers for filing, yet handles loads up to 400 lbs.

Anchoring Capabilities
Return on bottom of upright allows shelving unit to be anchored securely to the floor.

Contemporary Styling
Shelf covers shelf supports for a clean, contemporary look.

Easy Assembly
Shelf supports snap into keyhole slot design on uprights.

Numerous Shelving Options
Shelves are adjustable on 1-1/2" centers. Available with or without divider slots, in five widths and six depths.

Added Support
Back Stop snaps into keyhole slot on uprights with shoulder rivets (rather than simple lances) for added stability.

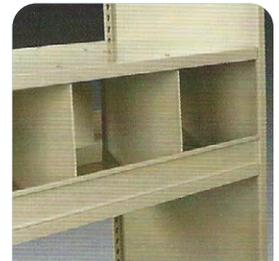
Mezzanine Support
Rigid framework is designed to support mezzanine system.

Connects to Mobile Carriages
Optional single rivet shelf supports are pre-punched to attach to mobile carriages.

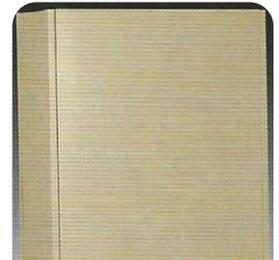
Accessories



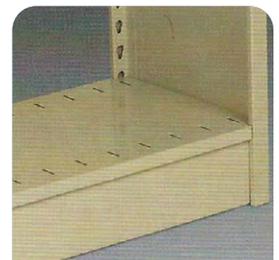
Reference Shelf



Bin Partitions



Back Panel



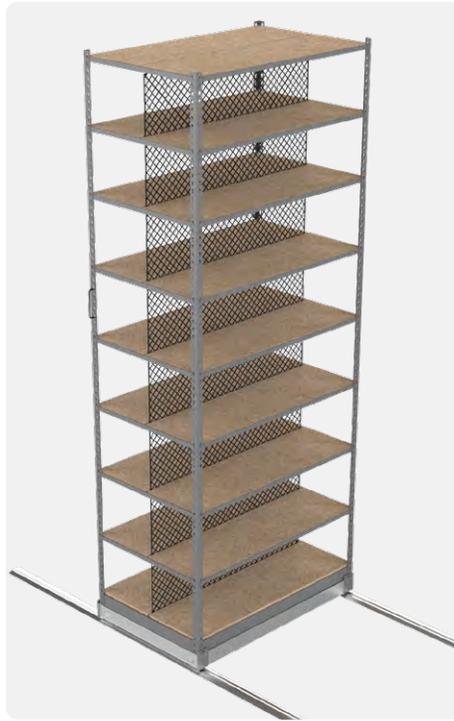
Front Base

SHELVING ACCESSORIES



End Panel

Material: 1/4" Thick Masonite



Plastic Mesh Divider

1" x 1" Openings



Masonite Divider

Material: 1/8" Thick Masonite



Shelf Bins

Top Level: Bin Grid
Bottom Level: Small Section Bin



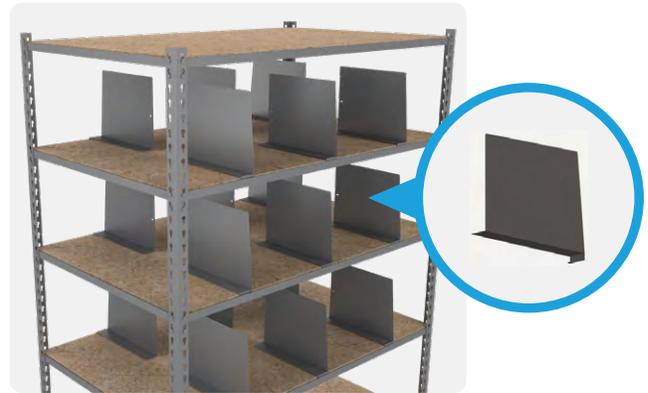
Section Bins

Top Level: All Purpose Bin
Bottom Level: Large Section Bin

SHELVING ACCESSORIES



Wire Baskets



Metal Shelf Dividers

Material: 20-Gauge Steel



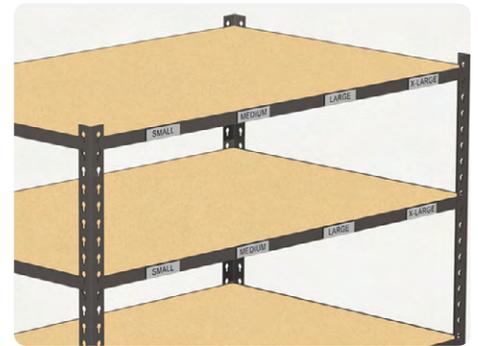
Shelf Lips

Material: 20-Gauge Steel (2-1/4" High)



Bumper Extenders

3" Long



Shelf Magnets

White - 4" W x 1" H



Sign Holder

Custom Sizes



Dry Write Board

Custom Sizes

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