# Universal Shelf Framing System

















## RivetRite Defined

### RivetRite Universal Shelf Framing System

We call RivetRite the Universal Shelf Framing System because so many storage requirements can be met with only a few simple components. RivetRite is engineered to provide safe, economical storage of virtually any type of hand-loaded material. Structural integrity is ensured by a rigid boltless connection between beams and posts.

RivetRite offers the following to help solve your storage problems:

- Economical your shelving dollar goes a long way
- Easy assembly without special tools — all you need is a rubber mallet to assemble most units
- Access to contents from all four sides — no braces to get in the way
- Shelves adjustable on 1-1/2" centers — allows you to custom design unit to fit your load size
- Finished in durable powder coat enamel — baked on for permanence. The standard color is 723 Light Putty, however it is available in any of Penco's shelving colors at no additional cost
- A variety of beams to accomodate a wide range of loads — you buy the capacity you need





Contents	
Building Your RivetRite® Units	3
Single Rivet High Density Units	4
Double Rivet Storage Units	
Record Storage Shelving	
Inventory Systems	10
RivetRite® Two-Level Storage	12
Two-Level Accessories	
RivetRite® Components	14
Technical Information	19
Color Chart	20
QuickShip Program	21



## **Building Your**RivetRite® Units

## **Single Rivet Unit Double Rivet Unit** Starter Add-On Starter Add-On STARTER ADD-ON ADD-ON

### Starter and Add-On units are combined to form economical rows of shelving. Each Add-On unit includes a pair of tee posts which are used in common between units. This reduces assembly time and the number of parts required. Begin each row with two angle posts from the starter unit and join the desired number of add-on units to complete the row. Finish the last unit with a pair of angle posts from the starter unit.

### Six Steps for Selecting Your RivetRite® Units

- **1.** Review the catalog and decide what type of unit will meet your requirement.
- **2.** Determine the shelf size desired and select the capacity needed. Note the capacity shown is for the steel structure only.
- **3.** Next determine the type of shelf deck material and calculate the quantity. Note that none of the unit catalog numbers include decking. Particle Board decking available from Penco is unfinished and natural in color.
- **4.** The standard color for all steel parts is 723 Light Putty, however RivetRite is available in all Penco shelving colors at no additional cost.
- **5.** All starter units are furnished with four Angle Posts. Add-on units have two intermediate Tee Posts. When assembling units, always put the Angle Posts at the extreme ends of the shelving row. Note that shelving growth will always occur; see Growth Chart on page 20.
- **6.** When ordering piece parts from the Component Parts pages of the catalog, contact your Penco representative for guidance on piece part capacities and product application to insure structural integrity.

<sup>\*</sup> All dimensions in the following tables are in inches and are subject to change without notice.



## Single Rivet High Density Units

Penco Single Rivet Beam High Density shelving is designed to provide for maximum vertical clearance between shelves. Access to stored item from all sides is possible because side and back cross braces are not necessary for stability. Add-on units assemble quickly without special tools by using a common tee post between units. Finished with an attractive baked powder coat finish.

To Order:
Page 5 for Units
Page 18 for Components

Deck material must be ordered separately.





## Sizes and Dimensions

		Single Rivet	High Density Un	its (84" High)		
Unit Width	Shelf Depth	Shelf Capacity*	5 Shelf Cat. No.	6 Shelf Cat. No.	7 Shelf Cat. No.	8 Shelf Cat. No.
	12"	350	461315	461316	461317	461318
36" Starter	18"	350	461325	461326	461327	461328
Units	24"	350	461335	461336	461337	461338
	36"	350	461345	461346	461347	461348
	12"	350	462355	462356	462357	462358
36" Add-On	18"	350	462365	462366	462367	462368
Units	24"	350	462375	462376	462377	462378
	36"	350	462385	462386	462387	462388
	12"	250	461415	461416	461417	461418
48" Starter	18"	250	461425	461426	461427	461428
Units	24"	250	461435	461436	461437	461438
	36"	250	461445	461446	461447	461448
	12"	250	462455	462456	462457	462458
48" Add-On	18"	250	462465	462466	462467	462468
Units	24"	250	462475	462476	462477	462478
	36"	250	462485	462486	462487	462488



#### Starter Add-On

#### Single Rivet High Density Units

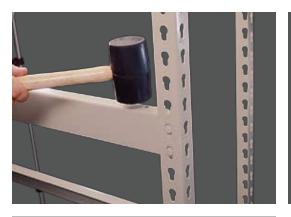
Single Rivet High Density shelving uses single rivet beams on intermediate levels, and double rivet beams at the top and bottom for rigidity. For units up to 48" wide.

Starter and add-on units are combined to form economical rows of shelving. Each add-on unit includes a pair of tee posts which are used in common between units. This reduces assembly time and the number of parts required. Begin each row with two angle posts from the starter unit and join the desired number of add-on units to complete the row. Finish the last unit with a pair of angle posts from the starter unit.

All intermediate shelves on units that exceed 24" deep utilize single rivet beams for front to back shelf deck support.

Units 12", 18" and 24" deep include one pair of single rivet beams for intermediate use front to back.

- High Density Shelf Beams provide maximum space between shelf levels
- Common tee posts between starter and add-on unit
- Shelf levels adjust on 1-1/2" centers
- Fast easy assembly
- No special tools needed
- Optional heavy duty single rivet shelf beams available for added capacity



## **Double Rivet**Bulky Storage Units

Penco RivetRite bulky shelving is designed to provide an economical solution for the storage of retail, wholesale or industrial goods. Installation can be done without special tools in a minimum amount of time. All steel parts are finished in attractive baked powder coat enamel.

Starter and add-on units are combined to form economical rows of shelving. Each add-on unit includes a pair of tee posts which are used in common between units. This reduces assembly time and the number of parts required. Begin each row with two angle posts from the starter unit and join the desired number of add-on units to complete the row. Finish the last unit with a pair of angle posts from the starter unit.

- 48" to 96" wide beams
- Access to stored items from all sides
- Choice of beam capacity to meet your storage requirement
- Easy assembly without special tools
- Units available in 84" and 120" heights



## To Order: Page 7 for Units Page 18 for Components

Deck material must be ordered separately.









## **Double Rivet** Sizes and Dimensions

		Double Rive	et Bulky Stor	age Units (W	ith 4 Shelves	s - 84" High)			
			WITH	OUT Center Su	pport	WI	WITH Center Support		
Unit Width	Beam Type	Shelf Depth	Shelf Capacity*	Starter Cat. No.	Add-On Cat. No.	Shelf Capacity*	Starter Cat. No.	Add-On Cat. No.	
	Heavy Duty Angle	18"	750	46001H	46006H	1400	46W01H	46W06H	
48"	Heavy Duty Angle	24"	750	46002H	46007H	1400	46W02H	46W07H	
Wide	Heavy Duty Angle	30"	750	46003H	46008H	1310	46W03H	46W08H	
Units	Heavy Duty Angle	36"	750	46004H	46009H	1220	46W04H	46W09H	
	Heavy Duty Angle	48"	750	46005H	46010H	1125	46W05H	46W10H	
	Heavy Duty Angle	18"	600	46011H	46016H	1200	46W11H	46W16H	
	Heavy Duty Angle	24"	600	46012H	46017H	1200	46W12H	46W17H	
	Heavy Duty Angle	30"	600	46013H	46018H	1200	46W13H	46W18H	
	Heavy Duty Angle	36"	600	46014H	46019H	1200	46W14H	46W19H	
60" Wide	Heavy Duty Angle	48"	600	46015H	46020H	1200	46W15H	46W20H	
Units	Channel	18"	-	-	-	2240 (1)	46W01C	46W06C	
<b>Cc</b>	Channel	24"	-	-	-	2240 (1)	46W02C	46W07C	
	Channel	30"	-	-	-	2240 (1)	46W03C	46W08C	
	Channel	36"	-	-	-	2240 (1)	46W04C	46W09C	
	Channel	48"	-	-	-	2240 (1)	46W05C	46W10C	
	Heavy Duty Angle	18"	500	46021H	46026H	1000	46W21H	46W26H	
	Heavy Duty Angle	24"	500	46022H	46027H	1000	46W22H	46W27H	
	Heavy Duty Angle	30"	500	46023H	46028H	1000	46W23H	46W28H	
	Heavy Duty Angle	36"	500	46024H	46029H	1000	46W24H	46W29H	
72" Wide	Heavy Duty Angle	48"	500	46025H	46030H	1000	46W25H	46W30H	
Units	Channel	18"	-	-	-	1850	46W11C	46W16C	
	Channel	24"	-	-	-	1850	46W12C	46W17C	
	Channel	30"	-	-	-	1850	46W13C	46W18C	
	Channel	36"	-	-	-	1850	46W14C	46W19C	
	Channel	48"	-	-	-	1850	46W15C	46W20C	
	Heavy Duty Angle	18"	-	-	-	620	46W31H	46W36H	
	Heavy Duty Angle	24"	-	-	-	620	46W32H	46W37H	
	Heavy Duty Angle	30"	-	-	-	620	46W33H	46W38H	
	Heavy Duty Angle	36"	-	-	-	620	46W34H	46W39H	
96" Wide	Heavy Duty Angle	48"	-	-	-	620	46W35H	46W40H	
Wide Units	Channel	18"	-	-	-	1400	46W21C	46W26C	
J5	Channel	24"	-	-	-	1400	46W22C	46W27C	
	Channel	30"	-	-	-	1400	46W23C	46W28C	
	Channel	36"	-	-	-	1400	46W24C	46W29C	
	Channel	48"	-	-	-	1400	46W25C	46W30C	

	Double Rivet Bulky Storage Units (With 5 Shelves - 120" High)										
			WITH	IOUT Center Su	pport	WITH Center Support					
Unit Width	Beam Type	Shelf Depth	Shelf Capacity*	Starter Cat. No.	Add-On Cat. No.	Shelf Capacity*	Starter Cat. No.	Add-On Cat. No.			
	Heavy Duty Angle	30"	500	46041H	46044H	1000	46W41H	46W44H			
	Heavy Duty Angle	36"	500	46042H	46045H	1000	46W42H	46W45H			
72" Wide	Heavy Duty Angle	48"	500	46043H	46046H	1000	46W43H	46W46H			
Units	Channel	30"	-	-	-	1850 (2)	46W31C	46W34C			
• • • • • • • • • • • • • • • • • • • •	Channel	36"	-	-	-	1850 (2)	46W32C	46W35C			
	Channel	48"	-	-	-	1850 (2)	46W33C	46W36C			
	Heavy Duty Angle	30"	-	-	-	620	46W47H	46W50H			
	Heavy Duty Angle	36"	-	-	-	620	46W48H	46W51H			
96"	Heavy Duty Angle	48"	-	-	-	620	46W49H	46W52H			
Wide Units	Channel	30"	-	-	-	1400	46W37C	46W40C			
C.mo	Channel	36"	-	-	-	1400	46W38C	46W41C			
	Channel	48"	-	-	-	1400	46W39C	46W42C			

<sup>\*</sup> Capacity shown are for the steel support beams, not the shelf deck material. For higher support beam capacity, see "RivetRite Coponents." Capacities are in pounds for evenly distributed loads. All unit catalog numbers include metal framing only. Shelf deck material must be ordered separately.

All Double Rivet Bulky Storage Units with Channel Beams are furnished with Heavy Duty Double Rivet Angle Beams (left to right) at the bottom level.

(1) - Max. Average Shelf Load 2000# per shelf.

(2) - Max. Shelf Load 1490# per shelf.



## **Record**Storage Shelving

RivetRite Record Storage Units will aid in records management by providing an organized solution to high density archive storage.

Two types of units are available; one that utilizes particle board decking to support the boxes, and an all steel unit with specially designed box supports. (Particle board must be ordered separately — see the table on page 11).

Fire insurance premium savings may be realized by using units with steel box supports. Check with your insurance carrier.

- · Assembles without special tools
- Records can be retrieved from both sides
- Units can be added as needed
- Two shelf types available; particleboard and steel box supports

Add-on units utilize a common Tee Post between units to save time during assembly.

## To Order: Page 9 for Units Page 18 for Components

Deck material must be ordered separately.





## **Record Storage**Sizes and Dimensions

	Record Storage Units									
	For Use With Decking									
Unit Width	Unit Depth	Unit Height	No. of Shelves	No. of Boxes*	Starter Cat. No.	Add-On Cat. No.				
42"	15"	84"	4	24	46601A	46613A				
42"	30"	84"	4	48	46602A	46614A				
69"	15"	84"	4	40	46603A	46615A				
69"	30"	84"	4	80	46604A	46616A				
42"	15"	108"	5	30	46605A	46617A				
42"	30"	108"	5	60	46606A	46618A				
69"	15"	108"	5	50	46607A	46619A				
69"	30"	108"	5	100	46608A	46620A				
69"	15"	168"	7	70	46609A	46621A				
69"	30"	168"	7	140	46610A	46622A				
69"	15"	192"	8	80	46611A	46623A				
69"	30"	192"	8	160	46612A	46624A				
			With Box Supports							
Unit Width	Unit Depth	Unit Height	No. of Shelves	No. of Boxes*	Starter Cat. No.	Add-On Cat. No.				
42"	15"	60"	3	18	46701A	46709A				
42"	30"	60"	3	36	46702A	46710A				
69"	15"	60"	3	30	46703A	46711A				
69"	30"	60"	3	60	46704A	46712A				
42"	15"	84"	4	24	46705A	46713A				
42"	30"	84"	4	48	46706A	46714A				
69"	15"	84"	4	40	46707A	46715A				
69"	30"	84"	4	80	46708A	46716A				

<sup>\*</sup> All unit box capacities are based on a standard archive box size of approximately 12-1/2" wide x 16-1/2" deep x 10-1/2" high. 42" wide units hold 3 boxes across; 69" wide units hold 5 boxes across.



### Record Storage Box Supports

Box Supports allow air to circulate around the entire box, helping to reduce moisture and musty smells. They align with holes pre-punched in the special double rivet beams and are secured with nylon button fasteners.



## **Inventory**Systems

#### **Tire Storage Rack**

Penco RivetRite® Tire Racks provide for the neat organized storage of standard automobile or light truck tires. Specially designed beams with a 30° flange on the top securely cradle the tires. Available in Single-Row, (12" deep units with 9" Wall Ties) and Double-Row, (two 12" deep units separated by 18" Double Row Spacers). Unit depth shown includes wall ties/row spacers. Deeper units are available to accomodate larger SUV tires.

#### **Hanging Tailpipe Rack**

Designed specifically for the storage of automotive and light truck tailpipes. Assembles in minutes without special tools. Stored items are visible and easily accessible.

#### **Inventory Cart**

The Penco Inventory Cart transports supplies, orders, merchandise, tools or files from point to point with ease. The cart is easy to assemble and additional shelves can be quickly added. Shelves can be adjusted to fit a wide variety of load sizes, providing greater flexibility than traditional carts. The Penco Inventory Cart delivers the goods by reducing the cost of material handling.

#### **Muffler Storage Unit**

Uniform storage of various size mufflers is achieved through the use of RivetRite Muffler Storage Units. Particle board must be ordered separately.



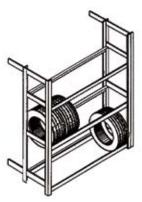


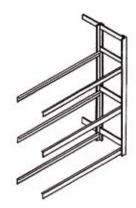






## **Inventory Systems**Sizes and Dimensions

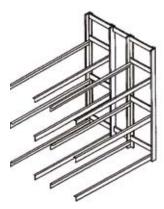




Single Row Starter

Single Row Add-On





Double Row Starter

Double Row Add-On

	Tire Storage Rack									
Single Row										
Unit Unit Unit No. of Tire Starter Add-C Width Depth Height Levels Capacity* Cat. No. Cat. N										
60"	21"	84"	3	24	46351T	46451T				
60"	21"	120"	4	32	46352T	46452T				
60"	21"	144"	5	40	46353T	46453T				
60"	21"	192"	6	48	46354T**	46454T**				
		C	ouble Ro	W						
Unit Width	Unit Depth	Unit Height	No. of Levels	Tire Capacity*	Starter Cat. No.	Add-On Cat. No.				
60"	42"	84"	3	48	46355T	46455T				
60"	42"	120"	4	64	46356T	46456T				
60"	42"	144"	5	80	46357T	46457T				
60"	42"	192"	6	96	46358T**	46458T**				

<sup>\*</sup> Based on average passenger tire.

Hanging Tailpipe Rack							
Clear Span	Cat. No.						
48"	18"	120"	46901P				
96"	18"	120"	46902P				

	Inventory Cart									
48" Cart with Three Shelves										
Unit Width	Unit Depth	Unit Height	Particle Board Deck	Melamine Deck	No Decking					
36"	24"	48"	35076P	35080P	35095P					
48"	24"	48"	35077P	35081P	35096P					
60"	24"	48"	35078P	35082P	35097P					
	60" Cart with Four Shelves									
Unit Width	Unit Depth	Unit Height	Particle Board Deck	Melamine Deck	No Decking					
36"	24"	60"	35074P	35083P	35092P					
48"	24"	60"	35073P	35084P	35093P					
60"	24"	60"	35075P	35085P	35094P					
		Additiona	I Shelves							
Unit Width	Unit Depth	Unit Height	Particle Board Deck	Melamine Deck	Sold Per					
36"	24"	1"	35086P	35089P	Shelf Kit					
48"	24"	1"	35087P	35090P	Shelf Kit					
60"	24"	3-5/8"	35088P	35091P	Shelf Kit					

Overall height of the 48" cart is 54" with base and wheels. Overall height of the 60" cart is 66" with base and wheels. All 36" and 48" wide carts use Single Rivet Beams on intermediate levels. All 60" wide carts use Double Rivet Beams on intermediate levels. Additional Shelf Kits consist of 4 Beams and Deck Material.

Muffler Storage Unit								
Unit Width	Unit Depth	Unit Height	Starter Cat. No.	Starter Cat. No.				
48"	36"	84"	46801M	46803M				
96"	36"	84"	46802M	46804M				

	Particle Board Decking										
Size	Cat. No.	Size	Cat. No.	Size	Cat. No.	Size	Cat. No.				
36" x 12"	94603	42" x 24"	94616	60" x 18"	94635	72" x 30"	94657				
36" x 15"	94604	42" x 30"	94617	60" x 24"	94636	72" x 36"	94658				
36" x 18"	94605	42" x 36"	94618	60" x 30"	94637	72" x 48"	94659				
36" x 24"	94606	48" x 12"	94623	60" x 36"	94638	96" x 18"	94665				
36" x 30"	94607	48" x 18"	94625	60" x 48"	94639	96" x 24"	94666				
36" x 36"	94608	48" x 24"	94626	69" x 15"	94644	96" x 30"	94667				
42" x 12"	94613	48" x 30"	94627	69" x 30"	94647	96" x 36"	94668				
42" x 15"	94614	48" x 36"	94628	72" x 18"	94655	96" x 48"	94669				
42" x 18"	94615	48" x 48"	94629	72" x 24"	94656						

<sup>\*\*</sup> Supplied with Heavy Duty Posts.

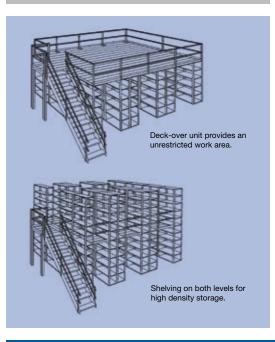


## RivetRite® Two-Level Storage

The structural integrity of RivetRite lends itself to the construction of two-level storage facilities for applications where maximum utilization of overhead space is required. Expanding in an upward direction instead of outward keeps your personnel in closer proximity to each other and stored material, for more efficient operation.

Using standard components for support, economical units may be constructed with an open "deck-over" upper level, or additional shelving. In either case, savings are realized because:

- You virtually double the amount of storage space in a given floor area
- You utilize existing heat and air conditioning within the building







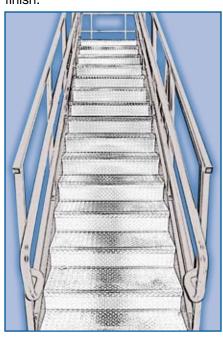


## Two-Level Accessories Custom Stairs and Stair Structures

#### Stairs:

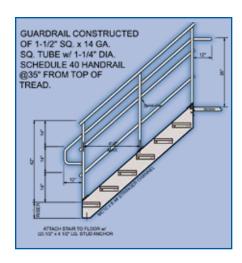
All applications involving stairs are reviewed individually and designed to meet or exceed local, state and federal codes in effect at the location where the stairs are to be installed.

Side frames are made from heavy duty MC10 structural steel. Handrails and inner handrails are welded in place, and all parts are finished with an attractive, durable powder coat finish.



#### Handrail & Kickplate:

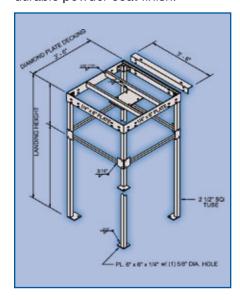
The Penco handrail is designed for two or three rails. It has welded tubular steel uprights and cross-rails with heavy gauge kickplate. All are finished with an attractive, durable powder coat finish.



#### Landings:

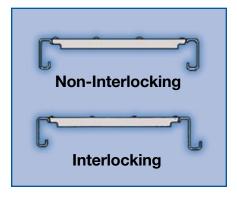
Landings for stairs feature a heavy duty 1/8" diamond plate decking, handrail and kickplate on two sides and four column supports.

Two-column pedestal supported units are also available. Special sizes and baluster handrails is also available. All are finished with an attractive, durable powder coat finish.



#### **Grating:**

Penco Channel-Lock Safety Grating provides a non-corrosive and sure-footed ventilated work platform surface. Manufactured from 16 gauge high strength hot dip galvanized steel, the design allows it to interlock for added strength. (Ordering information on page 18)



Other functional and popular work platform decking includes bar grating, roof deck and wood, or poly-coated non-skid surfaces. Your Penco representative can assist you in selecting the work surface that works best in your mulit-level storage application.



## RivetRite Components

#### Angle Post - Standard Duty:

1-1/2" x 1-1/2". Used as upright post for standard RivetRite units. (Ordering information on page 18)

#### **Angle Post - Heavy Duty:**

1-7/8" x 1-7/8". When maximum capacity and stability are essential, the heavy duty angle post is the proper choice. Ideally suited for two level shelving, storage deck and high rise shelving applications. (Ordering information on page 18)

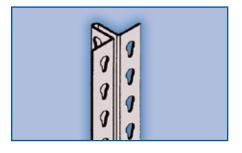


#### **Tee Post - Standard Duty:**

3" x 1-1/2". Included with standard duty add-on units to function as a common post between the starter unit and adjoining units. (Ordering information on page 18)

#### **Tee Post - Heavy Duty:**

3-3/4" x 1-7/8". Used in the same way as the standard tee, when increased load capacities are required. (Ordering information on page 18)

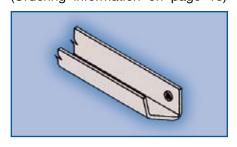


### Single Rivet Shelf Beam - Standard Duty:

Primarily used as an intermediate shelf support when maximum vertical space between levels is needed. Furnished as standard on High Density Shelving units. (Ordering information on page 18)

### Single Rivet Shelf Beam - Heavy Duty:

Manufactured to provide maximum capacity with very little loss of usable vertical space between shelves. (Ordering information on page 18)

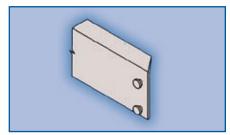


### Double Rivet Angle Beam - Standard Duty:

Used to establish unit stability and to provide shelf support on all four sides. (Ordering information on page 18)

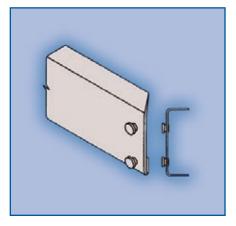
### Double Rivet Angle Beam - Heavy Duty:

Provides stability and increased load capacity in the longer lengths. (Ordering information on page 18)



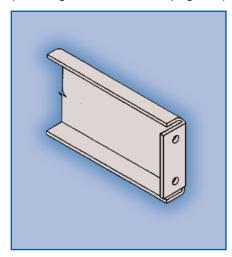
#### **Double Rivet Channel Beam:**

3" x 1". Channel is designed to provide maximum left to right stability and higher capacity than standard or heavy duty beams. Cannot be used at floor level. The top flange has holes for fastening decking. (Ordering information on page 18)



#### **Center Support:**

Used with double rivet beams to provide front-to-rear support for shelf deck and provides added stability to beams. (Ordering information on page 18)

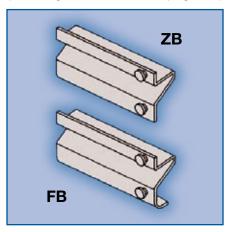




## **RivetRite**Components

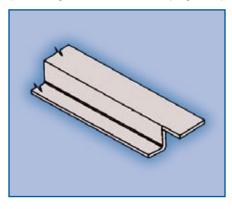
### Double Rivet Zee Step Beams:

Reduced profile increases vertical clearance by 1-1/4" between shelf levels when used in place of Double Rivet Angle Beams. Protects decking edges. When used as the bottom shelf on Single Rivet Units, clear space between the bottom and first shelf is increased by 1-1/4". (Ordering information on page 18)



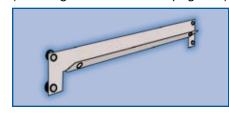
### Decking Support for Zee Step Beam:

Used with Zee Step Beams for front to back decking support. (Ordering information on page 18)



### Double Rivet Low-Profile Beam:

Available in lengths up to 48", this beam has the smallest vertical profile of all double rivet beams. (Ordering information on page 18)



#### **Anchors:**

Used to secure posts to the floor (foot plates are used). Available in two lengths; the 2-1/4" length is sufficient for most usage, but areas of seismic activity higher than Zone 2A may require the 3-3/4" length. (Ordering information on page 18)



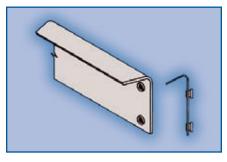
#### **Post Splice:**

1-3/8" x 1-3/8". Used to extend posts. Order one per angle post. Order two per tee post. Note: installs on the outside of the post. (Ordering information on page 18)



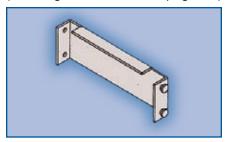
#### **Tire Rack Beams:**

2-3/4" high - For left to right shelf support of tires. 30 degree angle on supporting edge of tire rack beam. (Ordering information on page 18)



#### Wall Tie:

Usedtosecureunitstowallandprovide space between wall and attached units. Hardware is not included. (Ordering information on page 18)



#### **Double Row and Top Ties:**

Designed to space back-to-back units and to top-tie rows across aisles for additional stability. (Ordering information on page 18)



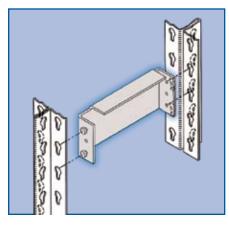
## RivetRite

## Components

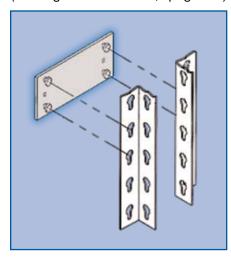
#### Flue Spacing Components:

To allow nominal 6" spacing between RivetRite units to satisfy NFPA (National Fire Protection Agency) safety recommendations.

The component pictured below is for use with RivetRite Angle Posts or to join tee post units back to back. (Catalog No. 46RT06, page 18)

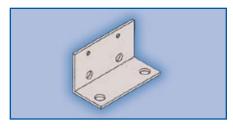


The component pictured below is for use with RivetRite Angle or Tee Posts positioned side by side. (Catalog No. 46AX153, page 18)



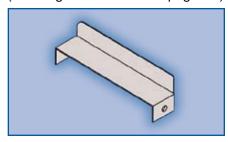
#### **Foot Plate:**

Includes Hardware. For use in anchoring angle and tee posts to the floor. NOTE: foot plate cannot be used if there is a double rivet channel beam at the lowest point. (Ordering information on page 18)



#### **Record Storage Box Support:**

Includes Hardware. Used in place of particle board to support boxes and maintain neat, organized storage. Supplied with nylon button fasteners. (Ordering information on page 18)



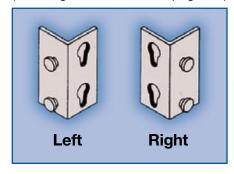
#### Hanger Bar:

1-1/4" x 1-1/4". For hanging items between double rivet beams. One or more may be used per level. (Ordering information on page 18)



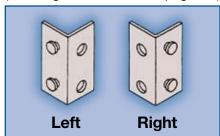
#### **Beam Cleat:**

An economical way to add on units. Not recommended for heavy loads. (Ordering information on page 18)



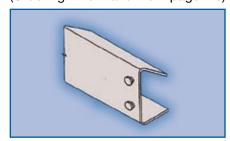
#### **Slotted Angle Cleats:**

For use where slotted angle pieces must be joined, such as special grating supports and top ties. (Ordering information on page 18)



#### **Down Aisle Grating Supports:**

3-1/2". Attaches to unit front between rows to provide support for grating on two level shelving installations. (Ordering information on page 18)

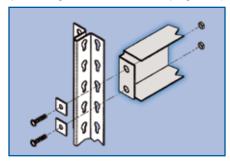




## **RivetRite**Components

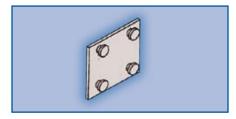
### Shelving & Main Aisle Support:

To support decking across shelving or main aisle. Spacing between supports not to exceed 48". Includes Hardware to bolt to posts formerly called Cross Aisle Support. (Ordering information on page 18)



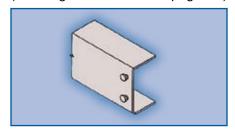
#### Tie Plate:

Used to join Angle Post units side by side to insure proper row alignment. (Ordering information on page 18)



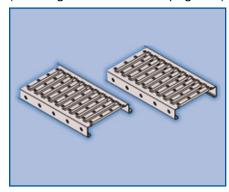
#### **Deck-Over Grating Supports:**

3-1/2". Provides sturdy and secure support for grating when decking over entire installation. (Ordering information on page 18)



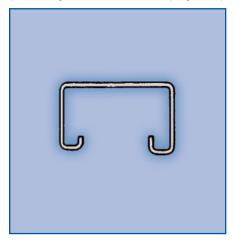
#### **Grating Planks:**

For use with Down Aisle Grating Supports. Penco Channel-Lock grating provides for sure-footed movement on aisles and upper level storage areas. Interlocking grating has male and female flanges that interlock with adjacent planks providing a continuous locked surface. Non-locking grating planks butt against one another. Grating is secured to Down Aisle supports with self tapping screws. (Ordering information on page 18)



#### **Grating Fillers:**

3" Wide Galvanized Grating Fillers. (Ordering information on page 18)



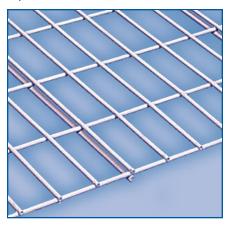
#### Particle Board Decking:

Penco 1-M-1 interior grade particle board is available pre-cut to fit, or purchase from your local building materials supplier. Other types and thicknesses of deck may be desired based on load or use. NOTE: Check 5/8" Particle Board capacity for the unit you require. Shelf deck capacity may not carry the rating of the steel framing. (Ordering information on page 11) If you are cutting your own board, use nominal size and cut to +0" -1/8".



#### Wire Decking:

Won't trap dirt - makes overhead sprinklers more effective. Easy installation. Contact your Penco representative for more information.



## RivetRite Components Sizes and Dimensions

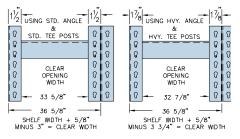
	RivetRite® Components										
Item Desc.	Size	Standard Cat. No.	Hvy Duty Cat. No.	Item Desc.	Size	Standard Cat. No.	Item Desc.	Size	Standard Cat. No.		
	36"	46AS03C	-		60"	46CB60C	Record Storage	15"	46BS15		
	48"	46AS04C	-	Double	69"	46CB69C	Box Support	30"	46BS30		
	60"	46AS05C	-	Rivet Channel	72"	46CB72C		36"	46BH36C		
	72"	46AS06C	-	Beams	84"	46CB84C	Hanger	42"	46BH42C		
	84"	46AS07C	-		96"	46CB96C	Bar	48"	46BH48C		
Angle	96"	46AS08C	46AH08C		12"	46CS12		60"	46BH60C		
Posts	108"	46AS09C	46AH09C		15"	46CS15	Beam	Left	46BC00C		
	120"	46AS10C	46AH10C		18"	46CS18	Cleat	Right	46BC01C		
	144"	46AS12C	46AH12C	Center Support	24"	46CS24	Slotted	Left	46SA00C		
	168"	-	46AH14C	with	30"	46CS30	Angle Cleat	Right	46SA01C		
	192"	-	46AH16C	Hardware	32"	46CS32		36"	46DA36C		
	216"	-	46AH18C		36"	46CS36	Down Aisle	48"	46DA48C		
	36"	46TS03C	-		42"	46CS42	Grating	60"	46DA60C		
	48"	46TS04C	-		48"	46CS48	Supports	69"	46DA69C		
	60"	46TS05C	-		12"	46ZB12C		72"	46DA72C		
	72"	46TS06C	-	1	15"	46ZB15C		30-1/4" x 3-1/2"	46AX30H		
	84"	46TS07C	46TH07C		18"	46ZB18C	Shelving & Main Aisle	36-1/4" x 3-1/2"	46AX36H		
Tee	96"	46TS08C	46TH08C		24"	46ZB24C	Support	42-1/4" x 3-1/2"	46AX42H		
Posts	108"	46TS09C	46TH09C	Double	30"	46ZB30C		48-1/4" x 3-1/2"	46AX48H		
	120"	46TS10C	46TH10C	Rivet	32"	46ZB32C	Tie Plate	-	46TP00C		
	144"	46TS12C	46TH12C	Zee Step Beams	36"	46ZB36C	Deck-Over	36"	46GS36C		
	168"	-	46TH14C		42"	46ZB42C		48"	46GS48C		
	192"	-	46TH16C		48"	46ZB48C	Grating	60"	46GS60C		
	216"	-	46TH18C	l	60"	46ZB60C	Supports	69"	46GS69C		
Anchors	3/8" x 2-1/4"	9280	-		69"	46ZB69C		72"	46GS72C		
Alciois	3/8" x 3-3/4"	9281	-		72"	46ZB72C		30"	8GL030C		
Post Splice	1-3/8" x 1-3/8"	46PS0H	-		24"	46ZS24C		36"	8GL036C		
	12"	46SS12C	-	Decking	30"	46ZS30C	1	42"	8GL042C		
	15"	46SS15C	-	Support for	32"	46ZS32C	Grating Planks Non-Interlocking	48"	8GL048C		
Single	18"	46SS18C	-	Zee Step Beams	36"	46ZS36C		72"	8GL072		
Rivet	24"	46SS24C	-	Deallis	42"	46ZS42C		108"	8GL108		
Shelf Beams	30"	46SS30C	-		48"	46ZS48C		144"	8GL144		
Deariis	36"	46SS36C	46HS36C*		12"	46D012C		30"	8AL030C		
	42"	46SS42C	46HS42C		15"	46D015C		36"	8AL036C		
	48"	46SS48C	46HS48C**	l	18"	46D018C	Crating Blanks	42"	8AL042C		
	12"	46SB12C	-	Low-	24"	46D024C	Grating Planks Interlocking	48"	8AL048C		
	15"	46SB15C	-	Profile	30"	46D030C		72"	8AL072		
	18"	46SB18C	-	Beams	32"	46D032C		108"	8AL0108		
	24"	46SB24C	-	l	36"	46D036C		144"	8AL144		
	30"	46SB30C	-	l	42"	46D042C		30"	8FK030C		
	32"	46SB32C	-		48"	46D048C		36"	8FK036C		
Double	36"	46SB36C	-	Tire Rack	48"	46TB48C	3" Wide	42"	8FK042C		
Rivet	42"	46AB42C***	-	Beams Wall Tie Flue Spacing	60"	46TB60C	Grating Fillers	48"	8FK048C		
Angle Beams	42"	46SB42C	-		9-1/4"	46WT09C	l	72"	8FK072		
	48"	-	46HB48C		6"	46RT06	l	108"	8FK108		
	60"	-	46HB60C	Components	6"	46AX153		144"	8FK144		
	69"	-	46AB69C***	Double	9-1/4"	46RT09C	Self-Tap Screws	-	08822		
	69"	-	46HB69C	Row and	15-1/4"	46RT15C	Wire	-	Contact your		
	72"	-	46HB72C	Top Ties	18-1/4"	46RT18C	Decking		Penco Rep		
	84"	-	46HB84C	_	36-1/4"	46RT36C	* Heavy Duty 36" s	upport beam capaci	ty is 600 lb. per pair. ity is 500 lb. per pair.		
	96"	-	46HB96C	Foot Plate	-	46FP0H	*** Punched for Bo		ry is soo is. per pair.		

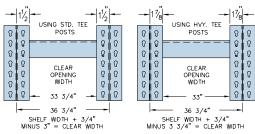


## **Technical** Information

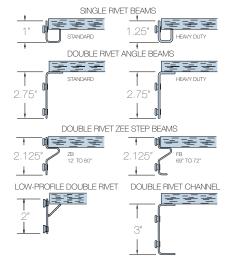
#### **Unit Clear Width**

#### EXAMPLES BELOW ARE BASED ON 36" WIDE SHELF USING STD. ANGLE USING HVY, ANGLE ใ S ତ ହ ଓ ଓ Ø CLEAR OPENING WIDTH V ខ O ប V Ø Ø ប ប ß S 33 1/2 32 3/4 36 1/2 36 1/2 SHELF WIDTH + 1/2" MINUS 3" = CLEAR WIDTH SHELF WIDTH + 1/2" MINUS 3 3/4" = CLEAR WIDTH

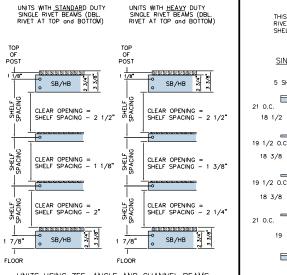




#### Beam Profiles



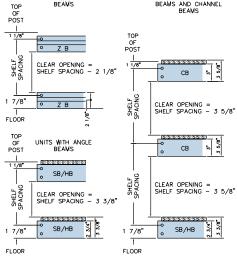
#### Vertical Clear Opening Using 5/8" Shelf Deck Material



UNITS WITH ANGLE BEAMS AND CHANNEL BEAMS

UNITS USING ZEE, ANGLE AND CHANNEL BEAMS

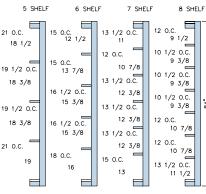
UNITS USING SINGLE RIVET SHELF BEAMS



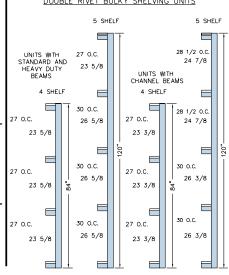
VERTICAL SHELF CLEARANCE

THIS CHART DEPICTS SHELF CLEARANCES FOR TYPICAL RIVET RITE SHELVING UNITS WITH 1 1/2" VERTICAL SHELF ADJUSTMENT.

#### SINGLE RIVET HIGH DENSITY SHELVING UNITS

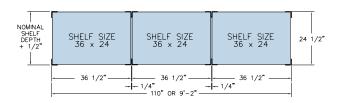


DOUBLE RIVET BULKY SHELVING UNITS



#### **Unit Growth Chart**

WHEN DESIGNING A SHELVING LAYOUT, UNIT GROWTH MUST BE CONSIDERED. TO DETERMINE THE OVERALL DIMENSION OF A CONTINUOUS ROW OF SHELVING EMPLOYING TEE POSTS OR ANGLE POST WITH TIE PLATES.



## 21 Designer Colors

021	028	073	723	012	701	952
Gray Ash	Gray	Champagne	Light Putty	Tawny Tan	Spray Green	Turquoise Teal
924	812	715	826	806	822	783
Peacock	Hunter Green	Lake Blue	Slate Blue	Marine Blue	Regal Blue	Iris
710 Sagebrush Yellow	720 Mandarin Orange	722 Patriot Red	767 Cardinal Red	736 Burgundy	848 January White	949 Jet Black

NOTE: Colors shown are as close to actual finishes as the printing process allows. Do not make your final color selection based on the color shade shown on this page. Penco Color Charts are available for a more accurate color match. Exposure to high humidity, chlorine salts, abrasive cleaners, germicidal cleaners and acids can damage the finish and will void the guarantee. For outdoor applications or other harsh environmental conditions, contact your Penco Representative.

#### **Standard Colors**

To assure rust resistance and paint adhesion, all RivetRite shelving receives a state of the art pre-paint conditioning that includes a thorough cleansing by a hot spray washing process, then a coating with a special phosphate film for resistance to corrosion and improved paint bond strength.

RivetRite is available in 21 colors shown above. Mixed colors of vertical and horizontal are available through special request.

Penco's 1 mil thick paint finish is perfect for most applications. The paint surface is tough and durable and offers a beautiful drip-free surface, excellent edge coverage and environmentally friendly application.







## **QuickShip**Program

Double Rivet Bulky Storage Units (With 4 Shelves - 84" High)							
		WITHOUT WITH Center Support Center Sup					
Unit Shelf Width Depth		Starter Cat. No.	Add-On Cat. No.	Starter Cat. No.	Add-On Cat. No.		
	18"	46001HP	46006HP	46W01HP	46W06HP		
48"	24"	46002HP	46007HP	46W02HP	46W07HP		
Wide	30"	46003HP	46008HP	46W03HP	46W08HP		
Units	36"	46004HP	46009HP	46W04HP	46W09HP		
	48"	46005HP	46010HP	46W05HP	46W10HP		
	18"	46011HP	46016HP	46W11HP	46W16HP		
60"	24"	46012HP	46017HP	46W12HP	46W17HP		
Wide	30"	46013HP	46018HP	46W13HP	46W18HP		
Units	36"	46014HP	46019HP	46W14HP	46W19HP		
	48"	46015HP	46020HP	46W15HP	46W20HP		
	18"	46021HP	46026HP	46W21HP	46W26HP		
72"	24"	46022HP	46027HP	46W22HP	46W27HP		
Wide	30"	46023HP	46028HP	46W23HP	46W28HP		
Units	36"	46024HP	46029HP	46W24HP	46W29HP		
	48"	46025HP	46030HP	46W25HP	46W30HP		
	18"	-	-	46W31HP	46W36HP		
96"	24"	-	-	46W32HP	46W37HP		
Wide	30"	-	-	46W33HP	46W38HP		
Units	36"	-	-	46W34HP	46W39HP		
	48"	-	-	46W35HP	46W40HP		

Double Rivet Bulky Storage Units (With 5 Shelves - 120" High)							
		WITH Center	IOUT Support	WITH Center Support			
Unit Width	Shelf Depth	Starter Cat. No.	Add-On Cat. No.	Starter Cat. No.	Add-On Cat. No.		
72"	30"	46041HP	46044HP	46W41HP	46W44HP		
Wide	36"	46042HP	46045HP	46W42HP	46W45HP		
Units	48"	46043HP	46046HP	46W43HP	46W46HP		
96"	30"	-	-	46W47HP	46W50HP		
Wide	36"	-	-	46W48HP	46W51HP		
Units	48"	-	-	46W49HP	46W52HP		

Archive Shelving Units (For Use with Decking - 84" High)					
Unit Width	Shelf Depth	5 Shelf Cat. No.			
42" Starter Units	15"	46601AP			
42" Starter Units	30"	46602AP			
42" Add-On Units	15"	46613AP			
42" Add-On Units	30"	46614AP			
69" Starter Units	15"	46603AP			
69" Starter Units	30"	46604AP			
69" Add-On Units	15"	46615AP			
09 Add-On Units	30"	46616AP			

NOTE: Shelf Deck material is not included with the units. Order Particle Board separately. Nominal Size in Inches: Width, Depth, Height. Contact your Penco Representative for more information.



- 72 hours or less rapid turnout time
- Reduced freight costs and shorter shipping times due to strategically located warehouses across North America
- Penco's most popular items in stock, including Clipper and RivetRite shelving, Vanguard and Plastic Lockers
- Think Quick, Think Penco QuickShip!

### Single Rivet High Density Units (With Double Rivet Beams at Top/Bottom - 84" High)

(With Bodbie Hivet Beams at 10p/Bottom - 04 High)							
Unit Width	Shelf Depth	5 Shelf Cat. No.	6 Shelf Cat. No.	7 Shelf Cat. No.	8 Shelf Cat. No.		
	12"	461315P	461316P	461317P	461318P		
36" Starter	18"	461325P	461326P	461327P	461328P		
Units	24"	461335P	461336P	461337P	461338P		
•	36"	461345P	461346P	461347P	461348P		
	12"	462355P	462356P	462357P	462358P		
36" Add-On	18"	462365P	462366P	462367P	462368P		
Units	24"	462375P	462376P	462377P	462378P		
<b>3</b> 11110	36"	462385P	462386P	462387P	462388P		
	12"	461415P	461416P	461417P	461418P		
48" Starter	18"	461425P	461426P	461427P	461428P		
Units	24"	461435P	461436P	461437P	461438P		
	36"	461445P	461446P	461447P	461448P		
	12"	462455P	462456P	462457P	462458P		
48" Add-On	18"	462465P	462466P	462467P	462468P		
Units	24"	462475P	462476P	462477P	462478P		
	36"	462485P	462486P	462487P	462488P		

### Particle Board Decking for QuickShip Units (5/8" Thick - Other Sizes Available)

(575 Tillett Stillet Sizes Titalians)							
Size	Cat. No.	Size	Cat. No.	Size	Cat. No.	Size	Cat. No.
36" x 12"	94603	42" x 15"	94614	48" x 30"	94627	60" x 30"	94637
36" x 18"	94605	42" x 30"	94617	48" x 36"	94628	60" x 36"	94638
36" x 24"	94606	48" x 12"	94623	48" x 48"	94629	60" x 48"	94639
36" x 30"	94607	48" x 18"	94625	60" x 18"	94635	69" x 15"	94644
36" x 36"	94608	48" x 24"	94626	60" x 24"	94636	69" x 30"	94647

## **Penco**Storage Products



#### **Industrial Shelving**

Penco Products manufactures a wide variety of shelving products.

Clipper® and Erectomatic® Hi-**Performance®** shelving feature adjustable strong box beam shelves and post systems capable of supporting high-rise and multi-level installations. Wide Span shelving specializes in storing goods that are wide, high and bulky with extreme ease of assembly. **RivetRite®** boltless shelving's simple design offers an economical solution to most storage problems, from the small back room to the multi-level archive storage system.



#### Pa

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#### **Pallet Rack**

Penco pallet rack is a carefully engineered system designed to

provide highly efficient storage of palletized items. High strength steel and efficient design achieve a superior strength-to-weight ratio that makes Penco Rack one of the best values for your storage dollar. A wide range of sizes, capacities and accessories enables Penco pallet rack to handle virtually any job you can give it.





#### **Shop Furniture**

Penco's products in the Shop Furniture line can make your work

environment more comfortable and efficient. Various configurations of work benches, carts and stools can be combined to help organize any work area for maximum productivity.





#### **Storage Cabinets**

Penco's E-Z Bilt Cabinets are an ideal solution to storage

needs in offices, plants, schools and institutions. The contemporary design and attractive powder coat baked enamel finish is compatible with any decor. Design features include a recessed handle with built-in lock and two keys. Available in several models and sizes.





#### Lockers

Penco Vanguard™ Lockers have been a standard in the

industry for decades. They have spawned many other locker models suitable for school corridors, athletic teams, employees, health clubs and hospitals. These include Guardian™, Invincible™, Stadium®, All-Welded, Angle Iron, ProTough® and the SmartLockers® electronic locker system. Penco steel lockers are beautifully finished in powder coat enamel in 21 decorator colors.

Penco also has plastic lockers. They are an exclusive Penco design manufactured from high density polyethylene (HDPE) which is rust proof and resistant to most common chemicals and cleaners. They are available in 7 standard colors. Many sizes of Penco lockers are available on a QuickShip basis from our strategically located warehouses.





## Metal Fabrication Group Corporate Information







### Industrial Manufacturing Company (IMC)

The parent company of Penco and its affiliates in the Metal Fabrication Group is Industrial Manufacturing Company (IMC). IMC and its international arm, IMCI, are a proud family of companies that produce a wide variety of innovative products for industry. With more than 3,500 employees and 30 worldwide manufacturing, sales and distribution facilities, it produces aircraft and aerospace ducting systems, gears, lubrication systems, bleachers, steel and plastic lockers, storage systems, steel mezzanines, high-performance strainers, car and truck components, industrial hoses and industrial expansion joints.

Although each IMC and IMCI company operates independently, common to all of them is a profound respect for the integrity of established industrial principles and a practical openness to applications of new technology. With individual histories spanning decades – and in two cases more than a century – the IMC and IMCI companies are time-tested leaders in their national and global markets.

Each IMC and IMCI subsidiary strives to tailor its products and services to the wishes of its customers, and each company's success has been built on the development of enduring customer relationships. They take pride in providing not only products of consistently high quality, but also in flexible and responsive service and in realistically competitive prices.

#### All Star Bleachers, Inc.

For more than 50 years, All Star has been a leading designer and manufacturer of bleachers and grandstands for indoor

and outdoor seating applications. All Star takes pride in providing products of consistently high quality, responsive service and realistically competitive prices. Products range from a simple team bench to a grandstand that meets the VIP seating requirements of a NASCAR race. Visit www.allstarbleachers.com

### Schmidt Structural Products, Inc.

For over 40 years, Schmidt Structural Products, Inc. (formerly W.A. Schmidt) has designed, manufactured and installed structural steel mezzanines to vertically expand floor space quickly and economically. A mezzanine can double or even triple existing space at up to 80% less than the cost of a building addition. Visit www.schmidtstructural.com

#### **Quality Metal Products**

Quality Metal Products (QMP) designs and manufactures storage equipment and outdoor shelters for use in the workplace. Its metal fabricated products include lockers, storage cabinets, modular drawers, work benches, bicycle racks and shelters. Market sectors served by QMP include educational, health, and government facilities, as well as offices, manufacturing companies, retail outlets, sports arenas and community parks.

Established in 1958, QMP is located in the West Midlands, the historical heartland of manufacturing in the UK. Their manufacturing facility occupies over 107,000 square feet and includes state-of-the-art metal fabrication equipment including CNC blanking and CNC forming in addition to powder coating and robotic welding.

Visit www.qmp.uk.com













Stack it, Store it, Secure it.

Established in 1869, Penco Products, Inc. is based in Skippack, PA with manufacturing facilities in North Carolina and Utah. Penco is a leader in the design and fabrication of a wide spectrum of storage products ranging from industrial shelving, pallet rack and work benches to lockers for every need.

Penco's products are available through a nationwide network of distributors, serviced by a team of District Sales Managers. Penco's mission is to provide customers with value in the form of the finest storage products available. Whether you need to Stack it, Store it or Secure it, you can put the load on Penco.



### Corporate Headquarters

2024 Cressman Road Skippack, PA 19474 800.562.1000

### Manufacturing Facilities

Eastern United States

North Carolina Plant 1301 Penco Drive Hamilton, NC 27840

Western United States

Utah Plant 4080 West Farm Road Salt Lake City, UT 84088









#### QuickShip Distribution Centers

Northeast

Pennsylvania QuickShip 3820 Hempland Road Mountville, PA 17554

Southeast

North Carolina QuickShip 1301 Penco Drive Hamilton, NC 27840

South

Tennessee QuickShip 5355 Distriplex Farms Drive Memphis, TN 38141

Texas

Texas QuickShip 6615 Roxburgh, Suite 200 Houston, TX 77041

West

Utah QuickShip 4080 West Farm Road Salt Lake City, UT 84088

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