



# STEEL STORAGE EQUIPMENT

 **Material Handling USA**

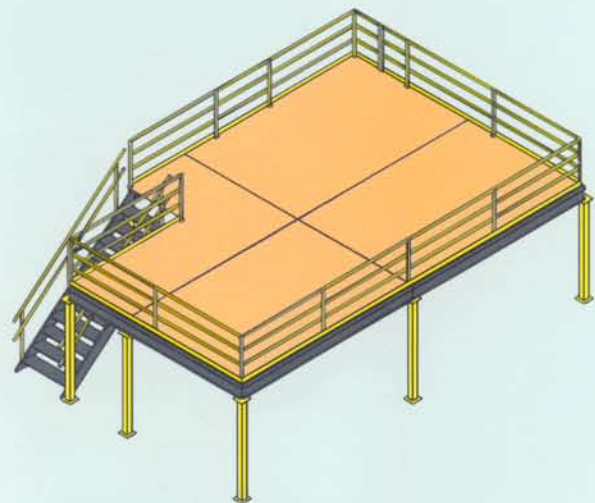
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Material Handling USA



Storage for the back room, the supply area, the warehouse or the records center requires products that are strong, versatile and flexible. Borroughs Steel Storage Equipment is easy-to-assemble, versatile and has a proven record of durability in thousands of installations worldwide.

But Borroughs is more than Steel Storage Equipment. Over the past 50 years, we've also earned a reputation for outstanding service and responsive on-time delivery that we continue to work hard to maintain. Plus, Borroughs people are experienced and knowledgeable in storage and planning and design. We have ideas and solutions to help your storage system to continue to contribute to the efficiency of your company as it grows and changes.

**You can count on the combination of Borroughs people and products to create the perfect storage solution for your needs.**

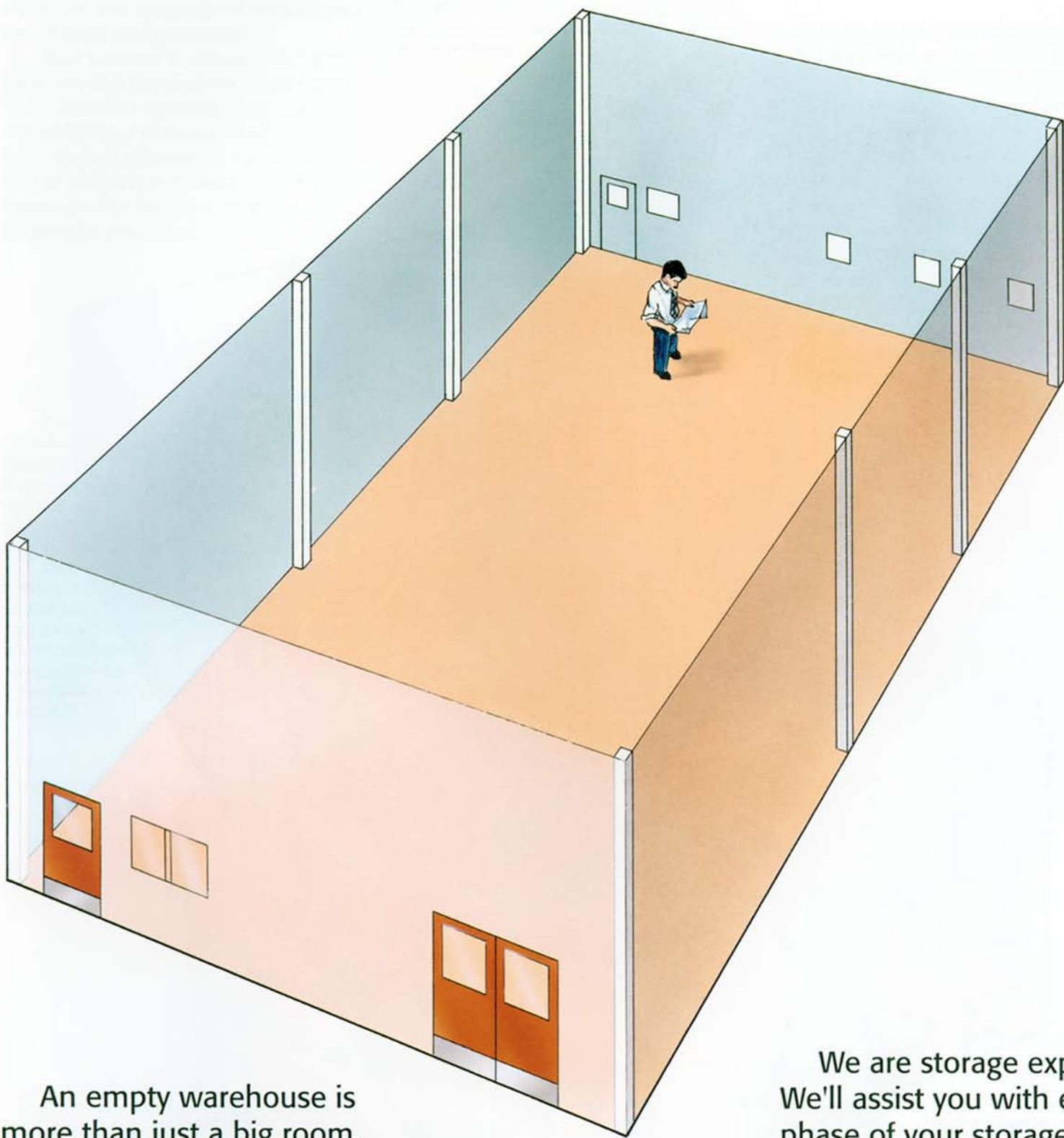
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# Storage Efficiency

is a clear reflection of planning and knowledge.



An empty warehouse is more than just a big room. It's a big responsibility. And a big opportunity to improve efficiency. So, what do you do when it's time to put together a storage system?

Call Borroughs. We understand your responsibilities and provide cost efficient solutions to solve your particular problems.

We are storage experts. We'll assist you with every phase of your storage project, from planning and layout through installation and start-up. And every part of your system will be catered to your operation's individual needs.

# The choice is yours

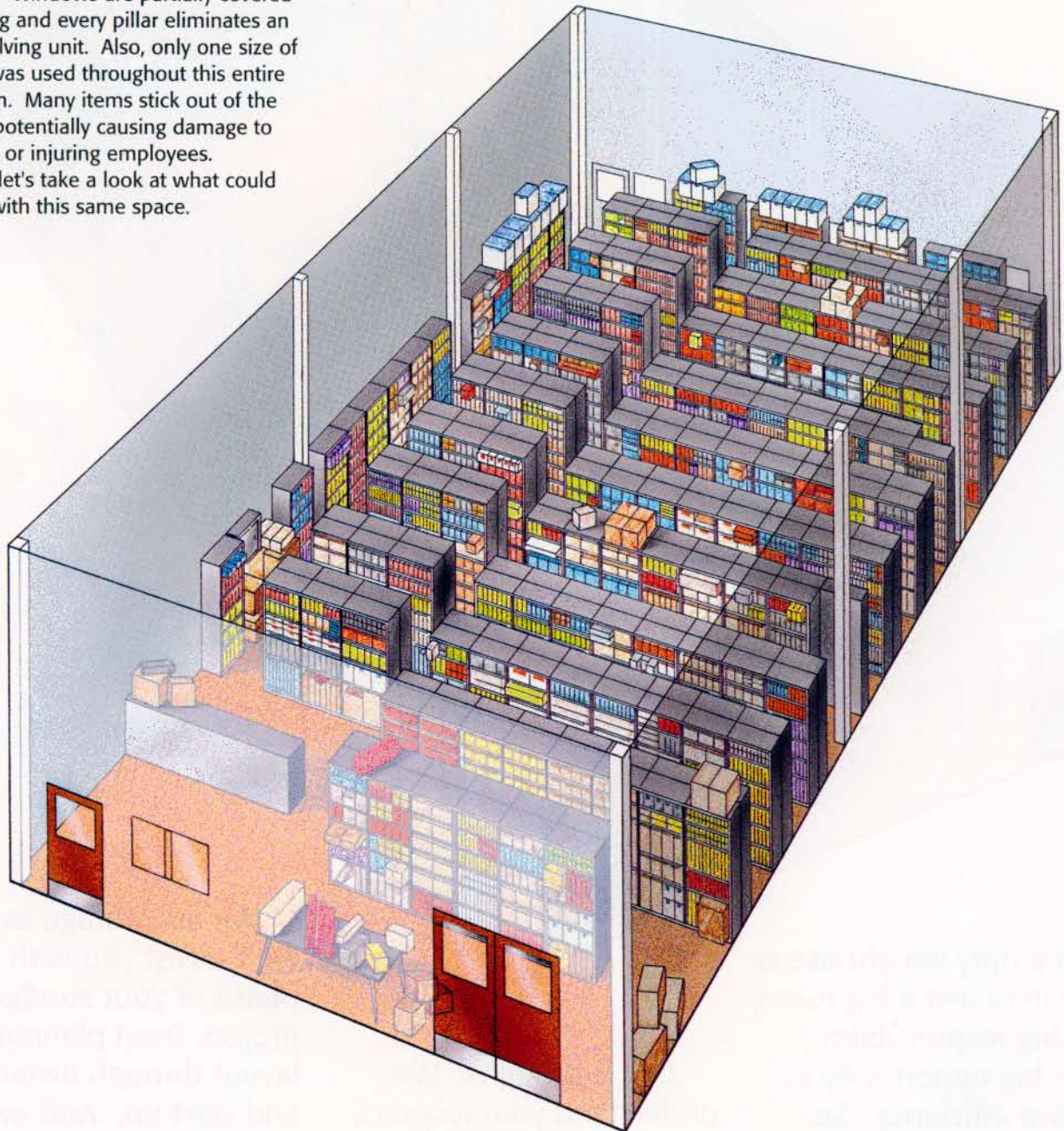
## Anyone can sell you shelving.

But shelving isn't the only thing you need. This room is full of shelving, but it's not the most efficient storage system for this firm.

The aisles are small and cramped to fit all the shelving units needed, plus the vertical space between the shelving and the high ceiling is wasted. This could be a costly, long term problem.

Little knowledge was applied in working around the existing features of the space. Windows are partially covered by shelving and every pillar eliminates an entire shelving unit. Also, only one size of shelving was used throughout this entire installation. Many items stick out of the shelving, potentially causing damage to the goods or injuring employees.

Now let's take a look at what could be done with this same space.



# Borroughs provides storage efficiency

Borroughs will give you a storage system that maximizes your space, eliminates misplaced inventory and stockouts, and is capable of meeting your needs today and tomorrow.

Your business is unique...Don't settle for a cookie cutter shelving system when you really need a storage system designed for your particular need. Remember – storage efficiency is a clear reflection of planning and knowledge...And Borroughs has the experience and knowledge your need.

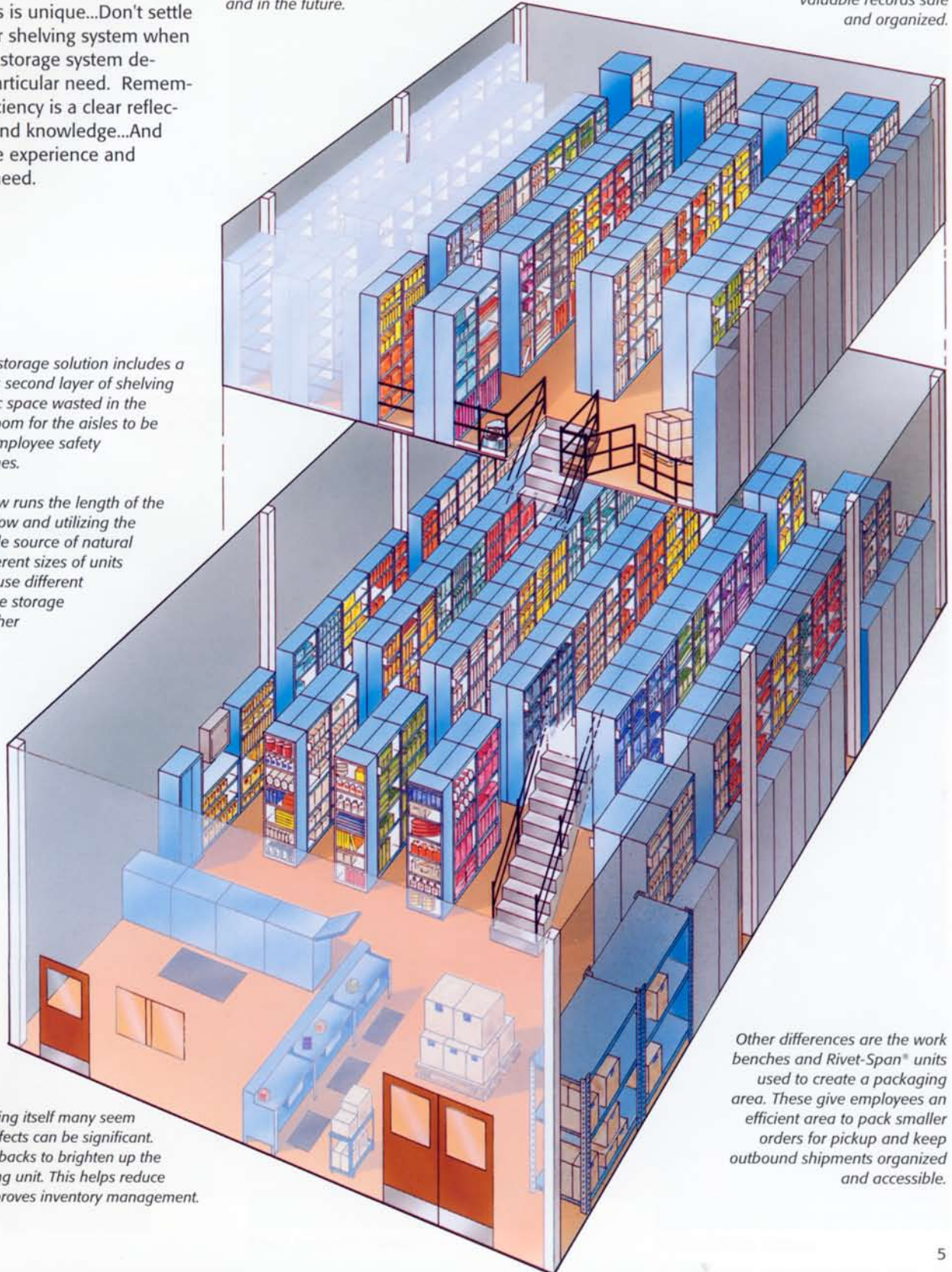
*This Borroughs storage solution includes a multi-tier system. This second layer of shelving utilizes valuable cubic space wasted in the first layout, making room for the aisles to be widened for added employee safety and faster picking times.*

*The shelving now runs the length of the building, improving flow and utilizing the windows as a valuable source of natural light. In addition, different sizes of units are used to better house different items and to maximize storage around pillars and other obstacles.*

*The color of the shelving itself many seem unimportant, but its effects can be significant. Borroughs uses white backs to brighten up the interior of each shelving unit. This helps reduce picking errors and improves inventory management.*

*This area of the upper level is planned for future expansion. Borroughs goes the extra step, planning future expansions for your business. Why? Because Borroughs is not just shelving – we're here to help with your storage needs now and in the future.*

*A record storage area keeps valuable records safe and organized.*



*Other differences are the work benches and Rivet-Span® units used to create a packaging area. These give employees an efficient area to pack smaller orders for pickup and keep outbound shipments organized and accessible.*

# Realization of Efficiency



Retail Display



Insurance Company Regional Supply and Records Center



Medical Records and X-Ray Shelving



Industrial Supply Distribution Center



Parts Distribution Center



Clothing Manufacturer Distribution Center



Laser Disk Manufacturer



Records Storage



Retail Backroom Storage



Medical X-Ray Storage





# Box Edge Plus® Shelving

## Borroughs Shelving - Value you can actually see!

Borroughs Box Edge Plus® Shelving is engineered and manufactured for value and quality. During our fifty plus years in the storage business, we have earned a reputation for strong, durable products that we work hard to maintain. We manufacture shelving systems that provide performance and satisfaction today and tomorrow.

### Beaded Post

Our beaded post reduces the front flange providing additional clear shelf space. Its wider shelf opening and more aesthetic appearance helps improve productivity. Plus, the design and construction of the Borroughs' beaded post makes it strong enough for use in multi-tier and high-rise systems.

### Angle Post

Borroughs angle post, long an industry standard, is designed for maximum strength and rigidity, while providing flexibility for changing requirements. Also, it is ideally suited for free-standing shelving units.

### BOX EDGE PLUS® Shelf

The Borroughs Box Edge Plus shelf is designed for additional value and aesthetics without additional investment. The front and rear edges of the shelf are formed into a closed, welded box shape and the corners are lapped and welded to give the shelf maximum strength and rigidity. Plus, the box edge provides additional strength to handle impact or point loads. The Box Edge Plus shelf also has a cleaner, more attractive, front edge and is fully compatible with all existing Borroughs shelf brackets and posts.

### Shelf Bracket

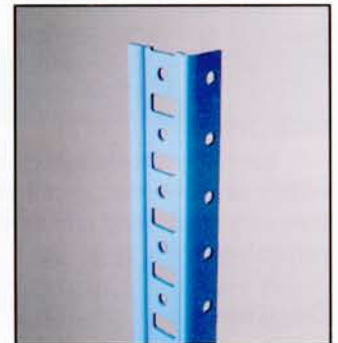
Borroughs shelf brackets provide wide load-bearing surfaces which let you install shelves quickly and easily...without the use of tools, nuts or bolts. Shelves can even be rearranged without disturbing adjoining units.

### Color Selection

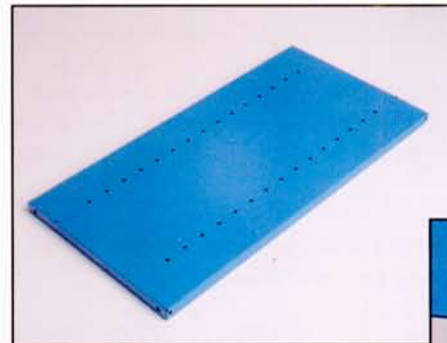
Borroughs shelving comes in a broad range of colors to match existing equipment; or develop an attractive color scheme to help increase productivity. But color can do more than beautify. For example, white backs on shelving units reflect existing light to brighten up the interior, helping to reduce costly picking errors.



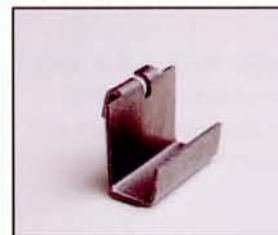
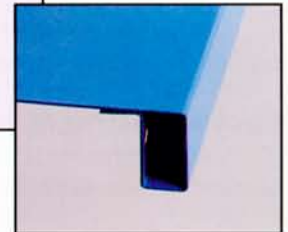
Beaded Post



Angle Post



Box Edge Plus® Shelf



Shelf Bracket



Color Selection

# Box Edge Plus® Shelving

## Features

### Heights

Borroughs has seventeen standard post heights ranging from 3'3" to 16'3" for optimal use of your vertical space. Even taller units are possible using our many standard post splicers.

### Widths

Borroughs steel shelving is available in four standard widths to meet your specific storage needs. Protect your inventory investment and save valuable storage cube with the correct width shelving.

### Depths

Borroughs steel shelving comes in seven standard depths from 12" to 36" for efficient storage of a variety of items.

Maximize your facility and stock picking efficiency with the optimum depth shelving.

### Accessories

With the addition of our broad range of accessories, your shelving can be designed to meet your exact needs. Everything from motors to micro-chips can be stored safely and efficiently.

### Fast Assembly

The unique design of the Borroughs' shelf bracket ensures fast, easy assembly – saving time and money.

### Easy Adjustment

Shelf adjustment is easy because the Borroughs' shelf bracket captures shelves rather than "binding" them.

### Durable Finish

All Borroughs shelving is phosphatized for superior paint adhesion and increased durability. Phosphatizing protects against corrosion and the spread of rust that can weaken and discolor shelving, leading to inventory damage.

**Borroughs is environmentally conscious.** Our finishing process not only exceeds current environmental standards, it meets new standards set for later.

Our paints contain no ingredients banned by the Environmental Protection Agency. Painted, finished surfaces on Borroughs' products are inert. This means, no chemical compounds that could harm people or stored items are emitted to the air during product use.

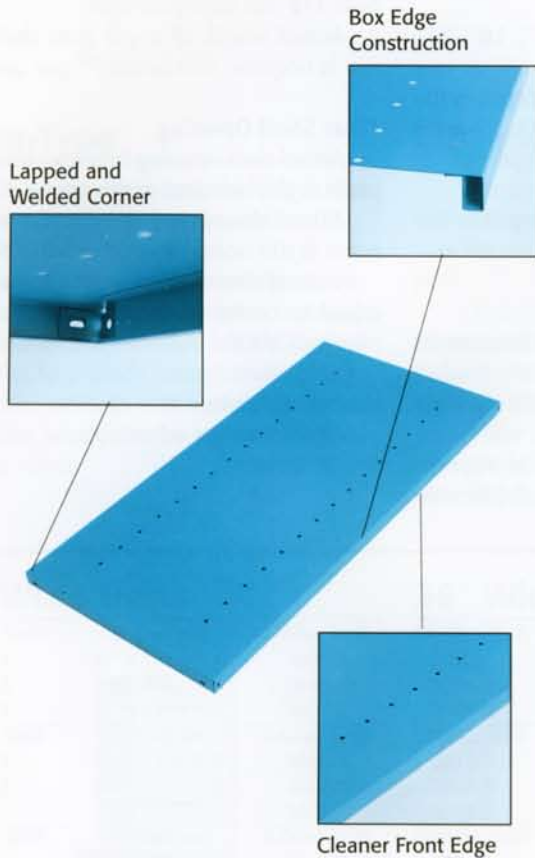
And, Borroughs recycles its own paint to further reduce waste and protect our environment.



# Box Edge Plus® Shelving

## Shelf Capacity

Put the Box Edge Plus® to work for you



	Box Edge Plus 1	Box Edge Plus 2	Box Edge Plus 3
<b>Size</b>	<b>Capacity</b>		
24" x 12"	550 lbs.		
36" x 12"	550 lbs.	725 lbs.	1000 lbs.
42" x 12"		550 lbs.	925 lbs.
48" x 12"	375 lbs.	450 lbs.	725 lbs.
36" x 15"	550 lbs.	725 lbs.	1000 lbs.
42" x 15"		550 lbs.	925 lbs.
48" x 15"		450 lbs.	725 lbs.
24" x 18"	550 lbs.		
36" x 18"	550 lbs.	725 lbs.	1100 lbs.
42" x 18"		550 lbs.	925 lbs.
48" x 18"	375 lbs.	450 lbs.	725 lbs.
24" x 24"	550 lbs.		
36" x 24"	550 lbs.	725 lbs.	1100 lbs.
42" x 24"		550 lbs.	925 lbs.
48" x 24"	375 lbs.	450 lbs.	725 lbs.
36" x 30"		550 lbs.	825 lbs.
42" x 30"	275 lbs.	550 lbs.	725 lbs.
48" x 30"		450 lbs.	700 lbs.
42" x 32"		600 lbs.	925 lbs.
36" x 36"		375 lbs.	550 lbs.
42" x 36"		425 lbs.	550 lbs.
48" x 36"		425 lbs.	650 lbs.

Rev. 6/1/05

## Capacity Testing Procedures

The capacities listed above are for uniformly loaded shelves. They were determined using testing procedures that conform to the standards of the Shelving Manufacturers Association. Shelves were tested for both capacity and acceptable deflection.

To simulate an evenly distributed load, hydraulic pressure was applied through a load cell onto eight shelves of each size and gauge we offer. The shelves were supported by our standard shelf brackets from our standard posts.

The pressure was applied to each shelf to the point of failure. The highest and the lowest failure load in each group of eight shelves was eliminated and a statistical analysis was done on the remaining size failure loads to determine an average.

This average was then divided by 1.65 to arrive at a capacity rating with a 1.65 safety factor. This number is then compared to the load at which the deflection of the shelf is equal to the span divided by 140. The lesser of these two numbers is used as the Borroughs' capacity.

# Box Edge Plus® Shelving

## Basic Types of Shelving



### Open-Type

Borrighs flexible, open-type shelving consists of posts, shelves and sway braces for added stability. It is ideal for general purpose storage and meets most storage requirements while providing maximum economy.



### Closed-Type

This Borrighs shelving type is enclosed on the back and sides to protect the contents, while providing a neat, finished appearance. Close-type shelving is perfect for storing loose parts.



### Closed Side, Open Back-Type

Economical closed-type shelving without backs provides side support for those items that require it. The closed sides also give row ends a more finished appearance. Closed-type shelving without backs is often combined with closed units in back-to-back installations or used alone along walls.

### Widths

Nominal unit width: 24", 36", 42" or 48".

Actual beaded post unit width is the nominal width plus  $1\frac{1}{16}"$ .

Actual angle post unit width is the nominal width  $\frac{1}{16}"$ .

### Depths

Nominal depth: 12", 15", 18", 24", 30", 32" or 36".

Actual beaded post unit depth is the nominal depth plus  $15\frac{3}{32}"$  with beaded post in front and angle post in back.

Actual angle post unit depth is the nominal depth  $\frac{1}{16}"$ .

### Heights

Nominal height: One foot increments from 3'3" to 16'3".

Actual height is the nominal height minus  $1\frac{1}{4}" \pm 1\frac{1}{16}"$ .

*Note:* Unit anchoring is recommended when the height to depth ratio exceeds 4.

## Basic Data

*Example:* 7'3" high x 18" deep unit has a height to depth ratio of 4.873 and should be anchored to a firm restraint such as a floor or wall.

### Length of Run

Actual length of beaded post shelving run is nominal unit width  $\frac{1}{16}"$  per unit plus  $1\frac{1}{2}"$  for each row end.

Actual length of angle post shelving run is nominal unit width  $\frac{1}{16}"$  per unit.

### Clear Shelf Opening

Actual clear opening between beaded posts is the nominal width minus 1".

Actual clear opening between angle posts is the nominal width minus 2".

Vertical clearance between shelves is equal to center-to-center shelf spacing minus  $1\frac{7}{32}"$ .

### Vertical Adjustment

All shelves are adjustable on  $1\frac{1}{2}"$  centers.



### Bin-Type

With Borrighs versatile bin-type shelving, you can have a storage system precisely designed to store parts and small bulk items. Shelf dividers and boxes separate items for easy access and identification, allowing for quicker retrieval.



### Ledge-Type

Ledge-type shelving combines a working space with a full-height shelving unit. Shelf dividers and boxes may be added as needed.



### Cabinet-Type

Fully enclosed cabinet-type shelving provides protection against dust and dirt and can be locked for added security, helping to prevent the loss of valuable inventory.



Back View

### Counter-Type

Service counters offer convenient storage space at the point of personal contact. Both open and closed counter-type units are available.

# Box Edge Plus® Shelving Shelving Units



## Open-Type

Borroughs open-type shelving is ideal for general-purpose storage, and maximum economy.

It has the strength and design to securely store bulky and cartoned materials. Cross braces are included for the back and sides to provide exceptional rigidity.

Adder units (a starter unit less one side cross brace) can be ordered for continuous rows.



## Closed-Type - Without Backs

Economical closed-type shelving without backs provides side-by-side closure for storing items requiring side support.

Closed-type shelving without backs is often used as the second row in a back-to-back installation. It is also used along walls or with another type back material.

Adder units have only one closed side providing economy in continuous row shelving installation.



## Closed-Type - With Backs

This rugged shelving protects the contents of each shelf on three sides, while providing a neat, finished appearance. Backs come painted #105 White to reflect light in the unit, reducing picking time and errors.

Closed-type shelving with backs is perfect for storing loose parts taken out of original shipping containers.

Adder units have only one closed side providing economy in continuous row shelving installation.

### 36" Wide Units

Starter Unit	5 Shelves	Adder Unit
1000-3	36" x 12" x 7'3"	1001-3
1004-3	36" x 18" x 7'3"	1005-3
1006-3	36" x 24" x 7'3"	1007-3
Starter Unit	6 Shelves	Adder Unit
1012-3	36" x 12" x 7'3"	1013-3
1016-3	36" x 18" x 7'3"	1017-3
1018-3	36" x 24" x 7'3"	1019-3
Starter Unit	7 Shelves	Adder Unit
1024-3	36" x 12" x 7'3"	1025-3
1028-3	36" x 18" x 7'3"	1029-3
1030-3	36" x 24" x 7'3"	1031-3
Starter Unit	8 Shelves	Adder Unit
1036-3	36" x 12" x 7'3"	1037-3
1040-3	36" x 18" x 7'3"	1041-3
1042-3	36" x 24" x 7'3"	1043-3

### 36" Wide Units

Starter Unit	5 Shelves	Adder Unit
2000-3	36" x 12" x 7'3"	2001-3
2004-3	36" x 18" x 7'3"	2005-3
2006-3	36" x 24" x 7'3"	2007-3
Starter Unit	6 Shelves	Adder Unit
2012-3	36" x 12" x 7'3"	2013-3
2016-3	36" x 18" x 7'3"	2017-3
2018-3	36" x 24" x 7'3"	2019-3
Starter Unit	7 Shelves	Adder Unit
2024-3	36" x 12" x 7'3"	2025-3
2028-3	36" x 18" x 7'3"	2029-3
2030-3	36" x 24" x 7'3"	2031-3
Starter Unit	8 Shelves	Adder Unit
2036-3	36" x 12" x 7'3"	2037-3
2040-3	36" x 18" x 7'3"	2041-3
2042-3	36" x 24" x 7'3"	2043-3

### 36" Wide Units

Starter Unit	5 Shelves	Adder Unit
3000-3	36" x 12" x 7'3"	3001-3
3004-3	36" x 18" x 7'3"	3005-3
3006-3	36" x 24" x 7'3"	3007-3
Starter Unit	6 Shelves	Adder Unit
3012-3	36" x 12" x 7'3"	3013-3
3016-3	36" x 18" x 7'3"	3017-3
3018-3	36" x 24" x 7'3"	3019-3
Starter Unit	7 Shelves	Adder Unit
3024-3	36" x 12" x 7'3"	3025-3
3028-3	36" x 18" x 7'3"	3029-3
3030-3	36" x 24" x 7'3"	3031-3
Starter Unit	8 Shelves	Adder Unit
3036-3	36" x 12" x 7'3"	3037-3
3040-3	36" x 18" x 7'3"	3041-3
3042-3	36" x 24" x 7'3"	3043-3

### 48" Wide Units

Starter Unit	5 Shelves	Adder Unit
1000-4	48" x 12" x 7'3"	1001-4
1004-4	48" x 18" x 7'3"	1005-4
1006-4	48" x 24" x 7'3"	1007-4
Starter Unit	6 Shelves	Adder Unit
1012-4	48" x 12" x 7'3"	1013-4
1016-4	48" x 18" x 7'3"	1017-4
1018-4	48" x 24" x 7'3"	1019-4
Starter Unit	7 Shelves	Adder Unit
1024-4	48" x 12" x 7'3"	1025-4
1028-4	48" x 18" x 7'3"	1029-4
1030-4	48" x 24" x 7'3"	1031-4
Starter Unit	8 Shelves	Adder Unit
1036-4	48" x 12" x 7'3"	1037-4
1040-4	48" x 18" x 7'3"	1041-4
1042-4	48" x 24" x 7'3"	1043-4

### 48" Wide Units

Starter Unit	5 Shelves	Adder Unit
2000-4	48" x 12" x 7'3"	2001-4
2004-4	48" x 18" x 7'3"	2005-4
2006-4	48" x 24" x 7'3"	2007-4
Starter Unit	6 Shelves	Adder Unit
2012-4	48" x 12" x 7'3"	2013-4
2016-4	48" x 18" x 7'3"	2017-4
2018-4	48" x 24" x 7'3"	2019-4
Starter Unit	7 Shelves	Adder Unit
2024-4	48" x 12" x 7'3"	2025-4
2028-4	48" x 18" x 7'3"	2029-4
2030-4	48" x 24" x 7'3"	2031-4
Starter Unit	8 Shelves	Adder Unit
2036-4	48" x 12" x 7'3"	2037-4
2040-4	48" x 18" x 7'3"	2041-4
2042-4	48" x 24" x 7'3"	2043-4

### 48" Wide Units

Starter Unit	5 Shelves	Adder Unit
3000-4	48" x 12" x 7'3"	3001-4
3004-4	48" x 18" x 7'3"	3005-4
3006-4	48" x 24" x 7'3"	3007-4
Starter Unit	6 Shelves	Adder Unit
3012-4	48" x 12" x 7'3"	3013-4
3016-4	48" x 18" x 7'3"	3017-4
3018-4	48" x 24" x 7'3"	3019-4
Starter Unit	7 Shelves	Adder Unit
3024-4	48" x 12" x 7'3"	3025-4
3028-4	48" x 18" x 7'3"	3029-4
3030-4	48" x 24" x 7'3"	3031-4
Starter Unit	8 Shelves	Adder Unit
3036-4	48" x 12" x 7'3"	3037-4
3040-4	48" x 18" x 7'3"	3041-4
3042-4	48" x 24" x 7'3"	3043-4

# Box Edge Plus® Shelving

## Shelving Units

### Bin-Type

Literally thousands of bin configurations can be designed from the Borroughs basic bin unit. Shown here are just a few of our most popular units.

With Borroughs versatile bin-type shelving, you can have a storage system precisely customized to store your parts and small bulk items.

Shelf dividers and boxes separate items for easy access and identification. Backs come painted #105 White to reflect light in the unit, reducing picking time and errors.



6 Bins 12" w x 15" h  
6 Bins 18" w x 18" h

Starter Unit	Size	Adder Unit
4012	36" x 12" x 7'3"	4013
4016	36" x 18" x 7'3"	4017
4018	36" x 24" x 7'3"	4019



21 Bins 12" w x 12" h

Starter Unit	Size	Adder Unit
4036	36" x 12" x 7'3"	4037
4040	36" x 18" x 7'3"	4041
4042	36" x 24" x 7'3"	4043



8 Bins 8" w x 9" h  
8 Bins 10" w x 9" h  
2 Bins 8" w x 12" h  
2 Bins 10" w x 12" h  
9 Bins 12" w x 12" h

Starter Unit	Size	Adder Unit
4048	36" x 12" x 7'3"	4049
4052	36" x 18" x 7'3"	4053
4054	36" x 24" x 7'3"	4055



12 Bins 12" w x 12" h, with 3" high bin fronts  
4 Bins 18" w x 18" h, with 6" high bin fronts

Starter Unit	Size	Adder Unit
4124	36" x 12" x 7'3"	4125
4128	36" x 18" x 7'3"	4129
4130	36" x 24" x 7'3"	4131



8 Bins 8" w x 9" h, with 1-1/2" high bin fronts  
2 Bins 8" w x 12" h, with 3" high bin fronts  
8 Bins 10" w x 9" h, with 1-1/2" high bin fronts  
2 Bins 10" w x 12" h, with 3" high bin fronts  
9 Bins 12" w x 12" h, with 3" high bin fronts

Starter Unit	Size	Adder Unit
4148	36" x 12" x 7'3"	4149
4152	36" x 18" x 7'3"	4153
4154	36" x 24" x 7'3"	4155



2 Bins 18" w x 9" h, with 1-1/2" high bin fronts  
24 Bins 6" w x 6" h, with 1-1/2" high bin fronts  
6 Bins 10" w x 9" h, with 1-1/2" high bin fronts  
6 Bins 8" w x 9" h, with 1-1/2" high bin fronts  
6 Bins 12" w x 12" h, with 3" high bin fronts

Starter Unit	Size	Adder Unit
4172	36" x 12" x 7'3"	4173
4176	36" x 18" x 7'3"	4177
4178	36" x 24" x 7'3"	4179



84 Bins 6" w x 6" h, with 1-1/2" high bin fronts

Starter Unit	Size	Adder Unit
4184	36" x 12" x 7'3"	4185
4188	36" x 18" x 7'3"	4189
4190	36" x 24" x 7'3"	4191



9 Bins 12" w x 12" h, with 3" high bin fronts  
1 Bin 36" w x 6" h  
18 Bins 6" w x 6" h, with 1-1/2" high bin fronts  
24 Shelf Boxes 5-9/16" w x 4-5/8" h  
2 Adjustable Dividers per Box

Starter Unit	Size	Adder Unit
4206	36" x 12" x 7'3"	4207
4208	36" x 18" x 7'3"	4209
4210	36" x 24" x 7'3"	4211



48 Shelf Boxes 5-9/16" h x 4-5/8" h  
8 Shelf Boxes 8-3/8" w x 4-5/8" h  
3 Shelf Boxes 11-3/16" w x 4-5/8" h  
2 Shelf Openings 36" w x 9" h  
Each shelf box has two adjustable dividers

Starter Unit	Size	Adder Unit
4212	36" x 12" x 7'3"	4213
4214	36" x 18" x 7'3"	4215
4216	36" x 24" x 7'3"	4217

# Box Edge Plus® Shelving

## Shelving Units

### Ledge-Type

Ledge-type shelving provides ledge working space and protection against dirt and dust. Backs are all painted #105 White. Shelf dividers and boxes may be added as needed.



Starter Unit	Size	Adder Unit
6024	36" x 12" x 7'3"	6025
6028	36" x 18" x 7'3"	6029
6030	36" x 24" x 7'3"	6031



Starter Unit	Size	Adder Unit
6036	36" x 12" x 7'3"	6037
6040	36" x 18" x 7'3"	6041
6042	36" x 24" x 7'3"	6043



Starter Unit	Size	Adder Unit
6536	36" x 12" x 7'3"	6537
6540	36" x 18" x 7'3"	6541
6542	36" x 24" x 7'3"	6543

### Cabinet-Type

Cabinet-type shelving provides protection against dust and dirt. Backs come standard in #105 White. Door can be locked for added security.



Starter Unit	Size	Adder Unit
5012	36" x 12" x 7'3"	5013
5016	36" x 18" x 7'3"	5017
5018	36" x 24" x 7'3"	5019



Starter Unit	Size	Adder Unit
5112	36" x 12" x 7'3"	5113
5116	36" x 18" x 7'3"	5117
5118	36" x 24" x 7'3"	5119

### Closed Vertical Storage

Vertical storage units come in open and closed units and provide efficient storage of long items. The backs on closed units are #105 White to reflect light in the unit.



Starter Unit	Size	Adder Unit
8100	36" x 12" x 7'3"	8101
8102	36" x 18" x 7'3"	8103
8104	36" x 24" x 7'3"	8105

### Closed Counter-Type

Service counters offer convenient storage space at the point of personal contact. Open and closed units can be ordered. Closed units come with #105 White backs to reflect light in the unit, increasing picking accuracy.



Starter Unit	Size	Adder Unit
7518	36" x 18" x 40"	7519
7524	36" x 24" x 40"	7525
7530	36" x 30" x 40"	7531



Starter Unit	Size	Adder Unit
7618	42" x 18" x 40"	7619
7624	42" x 24" x 40"	7625
7630	42" x 30" x 40"	7631

### Open Counter-Type



Starter Unit	Size	Adder Unit
7018	36" x 18" x 40"	7019
7024	36" x 24" x 40"	7025
7030	36" x 30" x 40"	7031



Starter Unit	Size	Adder Unit
7118	42" x 18" x 40"	7119
7124	42" x 24" x 40"	7125
7130	42" x 30" x 40"	7131

# Box Edge Plus® Shelving

## Components and Accessories

### Beaded Posts



This post is designed for use in the front position to provide additional clear shelf space and a wider shelf opening. Made of 14 gauge hot-rolled steel, 2-3/4" x 1", in eight standard heights, with a rear flange that is spot-welded on 6" centers for added strength, punched with rectangular holes on 1-1/2" centers for shelf positioning, and with round holes on 1-1/2" centers for the attachment of accessories and has an off-set formed into the side flange for added strength and for shelf bracket clearance.

Catalog #	Size	Catalog #	Size
14933-000	6'3"	14933-004	10'3"
14933-001	7'3"	14933-008	12'3"
14993-002	8'3"	14993-009	14'3"
14933-003	9'3"	14933-010	16'3"

### Angle Posts



Made of 13 gauge hot-rolled steel. 2-1/4" x 1" in 14 standard heights punched with rectangular holes on 1-1/2" centers for shelf positioning, with round holes on 1-1/2" centers for the attachment of accessories and has an off-set formed into the side flange for added strength and for shelf bracket clearance.

Catalog #	Size	Catalog #	Size
09534-099	3'3"	09534-093	9'3"
09534-098	4'3"	09534-092	10'3"
09534-097	5'3"	09534-091	11'3"
09534-096	6'3"	09534-090	12'3"
13112-099	7'0"	09534-089	13'3"
09534-095	7'3"	09534-088	14'3"
13112-096	8'0"	09534-087	15'3"
09534-094	8'3"	09534-086	16'3"

Additional sizes of beaded and angle posts available on request. Heights over 16'3" may be constructed by using post splicers.

### Beaded Posts - Closed Sides



Consists of a 24 gauge steel side spot-welded to one beaded post in front and one angle post in the rear.

The addition of an angle post bolted to the rear post will provide an intermediate closed side at minimum cost.

Catalog #	Size	Catalog #	Size	Catalog #	Size
14398-000	6'3" x 12"	14938-025	10'3" x 15"	14938-015	8'3" x 24"
14938-006	7'3" x 12"	14938-002	6'3" x 18"	14938-021	9'3" x 24"
14938-012	8'3" x 12"	14938-008	7'3" x 18"	14938-027	10'3" x 24"
14938-018	9'3" x 12"	14938-014	8'3" x 18"	14938-010	7'3" x 30"
14938-024	10'3" x 12"	14938-020	9'3" x 18"	14938-016	8'3" x 30"
14938-001	6'3" x 15"	14938-026	10'3" x 18"	14938-022	9'3" x 30"
14938-007	7'3" x 15"	14938-003	6'3" x 24"	14938-028	10'3" x 30"
14938-013	8'3" x 15"	14938-009	7'3" x 24"		

Additional sizes available on request.

### Angle Posts - Closed Sides



Consists of a 24 gauge steel side welded between two standard posts. Forms a partition to the floor to enclose the side of a unit. Also used to finish off the end of a row of open-type shelving. Provides front-to-back stability.

The addition of two angle posts will provide an intermediate closed side at minimum cost.

Catalog #	Size	Catalog #	Size
09608-098	3'3" x 12"	09608-037	14'3" x 18"
09608-091	4'3" x 12"	09608-035	15'3" x 18"
09608-077	6'3" x 12"	09608-088	4'3" x 24"
09608-070	7'3" x 12"	09608-081	5'3" x 24"
09608-063	8'3" x 12"	09608-074	6'3" x 24"
09608-056	9'3" x 12"	09608-067	7'3" x 24"
09608-049	10'3" x 12"	09608-060	8'3" x 24"
09608-039	13'3" x 12"	09608-053	9'3" x 24"
09608-097	3'3" x 15"	09608-046	10'3" x 24"
09608-076	6'3" x 15"	09608-042	11'3" x 24"
09608-069	7'3" x 15"	09608-040	12'3" x 24"
09608-062	8'3" x 15"	09608-038	13'3" x 24"
09608-055	9'3" x 15"	09608-036	14'3" x 24"
09608-096	3'3" x 18"	09608-034	15'3" x 24"
09680-089	4'3" x 18"	09608-094	3'3" x 30"
09608-082	5'3" x 18"	09608-066	7'3" x 30"
09608-075	6'3" x 18"	09608-059	8'3" x 30"
09608-068	7'3" x 18"	09608-045	10'3" x 30"
09608-061	8'3" x 18"	09608-093	3'3" x 36"
09608-054	9'3" x 18"	09608-072	6'3" x 36"
09608-047	10'3" x 18"	09608-065	7'3" x 36"
09608-043	11'3" x 18"	09608-058	8'3" x 36"
09608-041	12'3" x 18"	09608-044	10'3" x 36"

Additional sizes available on request.

### Post Covers



Type I

Type II

Type III

Give a smooth appearance by covering holes in posts and closed sides. Made of 20 gauge steel, do not interfere with shelf clips. Attached with concealed weld screws. Three types available:

**Type I** - cover both flanges of corner angle post.

**Type II** - covers front flanges of adjoining angle posts in intermediate positions.

**Type III** - covers holes on side flange of post.

Type I Catalog #	Type II Catalog #	Type III Catalog #	Size
13517-000	13518-000	13519-000	3'3"
13517-001	13518-001	13519-001	4'3"
13517-003	13518-003	13519-003	6'3"
13517-004	13518-004	13519-004	7'3"
-	13518-005	-	4'0"
13517-005	-	13519-005	R.H. 4'0"
13517-006	-	13519-006	L.H. 4'0"

Note: 4'0" heights are used above ledges and for heights exceeding 7'3". For example: 8'3" post would be covered by a 4'3" and a 4'0" post cover.



# Box Edge Plus® Shelving

## Components and Accessories

### Post Splicers



Used to combine two shorter length posts. Often used to add on to the vertical size of an existing installation or when heights greater than 16'3" (tallest one-piece post) are required.

#### Corner Post Splicer

13 gauge angle with slight return in one flange. Used to connect corner angle posts on the ends of rows.

#### Splicer Plate

13 gauge plate designed to span the front (1") flange of two adjacent angle posts.

#### Splicer Bar

3/16" hot-rolled steel bar bolts into the space between two angle posts or onto the rear flanges.

#### Beaded Post Splicer

The beaded post splicer consists of a 1/4" steel plate welded at right angles to a 14 gauge 1" front plate which is attached with self-threading screws. Also includes splicer bar. Note: This kit must be used in conjunction with face braces (not included) on the next lower shelf.

Catalog #	Description
09545-099	Corner Splicer
09365-000	Splicer Bar
09366-000	Splicer Plate
14934-000	Beaded Post Splicer

Splicer Plate & Bar



4 Splicer Bars



Beaded Post Splicer Kit



### Foot Plates

#### Foot Plate – Front

Made of 3-1/2" x 3-3/4" 12 gauge steel providing 13-1/8 square inches for post weight distribution and floor anchoring. Provides two 3/8" diameter holes for floor bolts, as well as a single hole for locating shim plates.

#### Foot Plate – Back-To-Back

Made of 3-3/4" x 6-1/4" 12 gauge steel providing 23-1/2 square inches for weight distribution. Also provides for floor anchoring with two 3/8" diameter holes for floor bolts as well as a single centering hole for locating shim plates.

Catalog #	Description
14952-000	Front
14953-000	Back-to-Back



### Shim Plates

#### Shim Plate – Front

Made of 3-1/2" x 3-3/4" 16 gauge steel. Easily matched to foot plate with centering dimple and provides matching holes for floor-anchoring installations. The shim plate's 1/16" thickness makes estimating the quantity needed easy.



#### Shim Plate – Back-To-Back

Made of 3-3/4" x 6-1/4" 16 gauge steel. Easily matched to back-to-back foot plate with centering dimple and provides matching holes for floor-anchored installations. The shim plate's 1/16" thickness makes estimating the quantity needed easy.



Catalog #	Description
14951-000	Front
14949-000	Back-to-Back

### Post Foot Plate

Used to distribute the weight of heavily loaded angle posts over a greater floor area. Helps protect wood and concrete floors.

Provides a seat for post ends. Can be used as shims to level units on uneven floors.

Catalog #
05114-828



### Post Foot Angle

Used to anchor angle posts to the floor.

Catalog #
08702-829



### Cross Braces

Made from 3/4" x 12 gauge band steel, cross braces add structural rigidity to open-type units. Available for sides and backs. All cross braces attach on 30" vertical centers and are bolted in center.



Catalog #	Length	Description
13826-000	24"	Back Brace
13828-000	36"	Back Brace
05017-815	42"	Back Brace
05165-815	48"	Back Brace
05019-815	12"	Side Brace
05583-815	15"	Side Brace
05020-815	18"	Side Brace
13829-000	24"	Side Brace
13830-000	30"	Side Brace
10445-000	32"	Side Brace
13831-000	36"	Side Brace

# Box Edge Plus® Shelving

## Components and Accessories

### Face Braces



Made of sturdy 11 gauge steel. Often used when units must be accessible from front and back, precluding the use of back cross braces. Furnished in pairs for both angle and beaded posts.

#### A. Beaded Face Brace

Catalog #  
10463-000

#### B. Angle Face Brace

Catalog #  
10462-000

### Shelving Backs

Made of 24 gauge cold-rolled steel. Center row of holes accommodates back clips. For heights over 8'3", use combinations of smaller sizes, overlapped in the middle.

Catalog #	Size	Catalog #	Size
09551-099	24" x 7'3"	09550-096	42" x 6'3"
09547-097	36" x 3'3"	09551-096	42" x 7'3"
09548-097	36" x 4'3"	14867-096	42" x 8'3"
09549-097	36" x 5'3"	09547-095	48" x 3'3"
09550-097	36" x 6'3"	09548-095	48" x 4'3"
09551-097	36" x 7'3"	09549-095	48" x 5'3"
14867-097	36" x 8'3"	09550-095	48" x 6'3"
09547-096	42" x 3'3"	09551-095	48" x 7'3"
09548-096	42" x 4'3"	14867-095	48" x 8'3"
09549-096	42" x 5'3"		

### Base Strips

Used to fill in the space between the bottom shelf and the floor. Made of 22 gauge cold-rolled steel. Prevents dirt and refuse from getting under the unit.

Angle



Beaded

#### Angle Post Base Strip

Catalog #	Length	Catalog #	Length
09554-099	24"	09554-096	42"
09554-097	36"	09554-095	48"

#### Beaded Post Base Strip

Catalog #	Length	Catalog #	Length
09614-097	36"	09614-095	48"
09614-096	42"		

### BOX EDGE PLUS® Shelves

Borroughs' Box Edge Plus shelf is designed for additional value and aesthetics without additional investment. The front and rear edges of the shelf are formed into a closed, welded box shape that, along with the lapped and welded corners, give the shelf maximum strength and rigidity. Plus, the box edge provides additional strength to handle impact or point loads. The Box Edge Plus shelf also has a cleaner, more attractive, front edge and is fully compatible with all existing Borroughs' shelf brackets and posts.

All shelves are punched on 2" centers for shelf dividers, except for 42" x 30" and 42" x 32" which have no divider holes. Four shelf supports brackets are provided for each shelf.

Box Edge Plus 1 Catalog #	Box Edge Plus 2 Catalog #	Box Edge Plus 3 Catalog #	Size
10437-000	-	-	24" x 12"
10437-001	10428-001	10419-001	36" x 12"
-	10428-002	10419-002	42" x 12"
10437-003	10428-003	10419-003	48" x 12"
10446-001	10429-001	10420-001	36" x 15"
-	10429-002	10420-002	42" x 15"
-	10429-003	10420-003	48" x 15"
10439-000	-	-	24" x 18"
10439-001	10430-001	10421-001	36" x 18"
-	10430-002	10421-002	42" x 18"
10439-003	10430-003	10421-003	48" x 18"
10441-000	-	-	24" x 24"
10441-001	10432-001	10423-001	36" x 24"
-	10432-002	10423-002	42" x 24"
10441-003	10432-003	10423-003	48" x 24"
-	10434-001	10425-001	36" x 30"
-	10434-002	10425-002	42" x 30"
-	10434-003	10425-003	48" x 30"
-	10435-002	10426-002	42" x 32"
-	10436-001	10427-001	36" x 36"
-	10436-002	10427-002	42" x 36"
-	10436-003	10427-003	48" x 36"

### Shelf Support Brackets

Unique non-binding, saddle-type brackets let you install and later adjust shelves quickly and easily, without disturbing other shelves. They provide twice the support area of most other shelf supports.

Catalog #  
09531-099



### Shelf Saddle Reinforcements

"Hat"-shaped cross section, made of 11 gauge steel. Extends from side to side under center portion of shelf. Held in place by side flanges of the shelf, this piece reinforces the shelf center by transferring the load to the edges of the shelf. Must be used with shelf side supports.

Catalog #	Size	Catalog #	Size
09610-097	36"	09610-095	48"
09610-096	42"		



# Box Edge Plus® Shelving

## Components and Accessories

### Shelf Side Supports



Made of 14 gauge steel with formed post attachments. Reinforce shelves from front to back. Must be used when shelf saddle is used in conjunction with shelf brackets. Shelf rests on top flange. May also be used as a base strip on ends of rows of open shelving.

Catalog #	Size	Catalog #	Size
09555-098	12"	09555-094	30"
09555-096	18"	09555-093	36"
09555-095	24"		

### Shelf Lock



Prevents shelf from lifting up due to prying action from below when shelf boxes are extended. Also locks shelves in place to allow transport of set-up units.

**Catalog #**  
08703-823

### Fixed Shelf Dividers



Made of 22 gauge steel, flanged at top, bottom and back for added strength. Provides a rigid partition between compartments. Front edge has a 3/8" bead for extra rigidity and to protect hands. Attaches with push studs.

Catalog #	H x D Size	Catalog #	H x D Size	Catalog #	H x D Size
05599-807	6" x 12"	05601-807	6" x 18"	05602-807	6" x 24"
05606-807	9" x 12"	05608-807	9" x 18"	05609-807	9" x 24"
05613-807	12" x 12"	05615-807	12" x 18"	05616-807	12" x 24"
05620-807	15" x 12"	05622-807	15" x 18"	05623-807	15" x 24"
05627-807	18" x 12"	14374-000	16 1/2" x 18"	05630-807	18" x 24"
05600-807	6" x 15"	05629-807	18" x 18"	05637-807	21" x 24"
05607-807	9" x 15"	05643-807	24" x 18"	05644-807	24" x 24"
05614-807	12" x 15"			05604-807	6" x 36"
05621-807	15" x 15"			05611-807	9" x 36"
05628-807	18" x 15"			05618-807	12" x 36"

### Sliding Shelf Dividers with formed in Label Holder



Made of 22 gauge steel, snaps into place over front and rear shelf flanges. Holds position firmly yet slides easily along the shelf to allow spacing changes to be made quickly.

Catalog #	H x D Size	Catalog #	H x D Size
14745-000	4 1/2" x 12"	14745-002	4 1/2" x 18"
14745-004	6" x 12"	14745-006	6" x 18"
14745-001	4 1/2" x 15"	14745-003	4 1/2" x 24"
14745-005	6" x 15"	14745-007	6" x 24"

### Angle Shelf Dividers



Made of 22 gauge steel flanged at bottom and punched for attachment to shelves. Attaches with push studs. Adjustable on 2" centers.

Catalog #	H x D Size	Catalog #	H x D Size
05490-842	1 1/2" x 12"	05492-842	1 1/2" x 18"
05493-842	3" x 12"	05495-842	3" x 18"

### Label Holders



For shelves and long parts frames. Comes with label holder fasteners. Holds standard 7/8" high labels.

Catalog #	Size	Catalog #	Size
09556-099	24"	09556-096	42"
09556-097	36"	09556-095	48"

### Magnetic Label Holder



4' magnetic label holder can be easily moved as inventory changes from one location to another. Holds standard 7/8" labels and can be easily cut to any length.

**Catalog #**  
10460-000

### Shelf Boxes



Made of 20 gauge cold-rolled steel. Sides are slotted at 1" intervals to receive partitions.

Face has hand pull and label holder. Protective backstop prevents accidental removal of box from shelf. All shelf boxes are 4-5/8" high. Partitions are not included with shelf boxes. A shelf lock should be used on shelves immediately above boxes.

Catalog #	W x D Size	Catalog #	W x D Size
05339-808	5 9/16" x 11"	05353-808	11 3/16" x 17"
05345-808	8 3/8" x 11"	05342-808	5 9/16" x 23"
05351-808	11 3/16" x 11"	05349-808	8 3/8" x 23"
05325-808	5 9/16" x 17"	05355-808	11 3/16" x 23"
05347-808	8 3/8" x 17"		

### Partitions for Shelf Box (dividers)



Made of 22 gauge steel, partitions accept 7/8" labels. All partitions are 4-5/8" high. Not included with shelf boxes.

Catalog #	Size	Catalog #	Size
05476-810	5"	05478-810	11"
05477-810	8"		

### Box Guides



Prevents shelf box from lodging behind front flange of post. Made of 18 gauge steel. Extends 5" back from front flange of post. Recommended when using shelf boxes and front angle posts.

**Catalog #**  
09559-099

# Box Edge Plus® Shelving

## Components and Accessories

### Angle Post Bin Fronts



Used on front of shelves to keep items within the bin and made of 18 gauge steel except angle posts 1-1/2" and 3" which are 22 gauge. All bin fronts have a 1/2" bead on top and bottom edges. Clips provided for 1-1/2" angle post bin front. Bolts provided for all others.

Catalog #	Size	Catalog #	Size
05698-819	36" x 1 1/2"	09557-096	42" x 3"
05701-819	42" x 1 1/2"	09557-095	48" x 3"
05704-819	48" x 1 1/2"	09558-097	36" x 6"
09557-099	24" x 3"	09558-096	42" x 6"
09557-097	36" x 3"	09558-095	48" x 6"

### Beaded Post Bin Fronts



Catalog #	Size
09615-097	36" x 1-1/2"
09616-097	36" x 3"

### Angle Post Bin Fronts Clips



Made of 14 gauge steel. Clips provided for 1-1/2" bin front; optional with 3" and 6" sizes.

Catalog #	Size
05707-835	1-1/2"
05708-836	3" and 6"

### Counter Backs



Made of 18 gauge, cold-rolled steel with a 5/8" return flange, positioned inward at the bottom, providing additional stiffness.

Catalog #	Size
09571-097	36" x 3'3"
09571-096	42" x 3'3"

### Counter Tops

Made of 16 gauge steel. Counter top has a 1" overhang on both front and rear faces. Converts a 3'3" section of shelving into a durable, heavy-duty counter. Tops 36" x 24" or larger have a saddle reinforcement welded in for added strength.

Catalog #	Size	Catalog #	Size	Catalog #	Size
09570-099	36" x 18"	09569-099	36" x 24"	09569-097	36" x 30"
09570-098	42" x 18"	09569-097	36" x 30"	09569-096	42" x 30"



### Ledge Tops



One piece, 16 gauge cold-rolled steel construction allows easy bolting to the top of ledge-type units. Ledge top front has a 5/8" lip for enhanced strength and appearance. Sides attach to provide a finished appearance on a single unit or a flush joint with adjacent units.

Catalog #	Size	Catalog #	Size
09565-092	36" x 12"	09565-082	36" x 18"
09565-091	42" x 12"	09565-081	42" x 18"
09565-090	48" x 12"	09565-080	48" x 18"

### Shelf Divider Supports



Made of 18 gauge steel. For use under ledge and counter tops to support dividers at the top. Angle formed and punched on 2" centers.

NOTE: Divider should be 2" shorter than height of opening when divider supports are used. Furnished in pairs, front and rear.

Catalog #	Size
05595-827	36" wide

### Long Parts Frames



Frames

Made of 18 gauge steel. Offer ideal vertical storage of long parts and materials such as molding, pipes and bar stock. Adjust up and down within shelving on 1-1/2" centers. Fit open or closed shelving, 36" wide.



Spacer Rods

Spacer rods are designed so as not to dislodge during removal of material. Adjust horizontally on 1-1/2" centers. Label holders can be attached to either the top or the front face of the frame.

Frames		Rods	
Catalog #	W x D	Catalog #	Length
09576-099	36" x 12"	06238-860	12"
09576-098	36" x 18"	06239-860	18"
09576-097	36" x 24"	06240-860	24"

### Boltless Hang Bars



Boltless hang bar kit includes rod and two special supports that fasten to posts of shelving unit. 48" rods can be field cut for 42" width.

Catalog #	Size	Catalog #	Size
10140-000	24" x 18"	10140-002	48" x 18"
10140-004	24" x 24"	1410-0006	48" x 24"
10140-001	36" x 18"		
10140-005	36" x 24"		

### Hardware

Unless otherwise stated, all necessary hardware is included in the catalog number and will be shipped as part of the total hardware requirement. Borroughs uses only Grade 5 bolts for all bolted, structural connections.

# Box Edge Plus® Shelving Components and Accessories

## Doors for Angle Post Shelving

Borroughs angle post shelving units can be completely enclosed at any time by simply adding doors.

Swing-type framed doors, shown on the left, can be installed on a single unit, or on a battery of units.

Two-bay sliding doors, shown at right, are designed to span two 36" wide adjoining closed units.

Doors will not fit Beaded Posts or Beaded Closed Sides.

### Framed Doors

Swing-type, with locking handles, Borroughs framed doors are made of 20 gauge cold-rolled steel. Consist of a fully contained welded steel frame, which bolts to the face of the unit simply and easily.

Framed doors are available to fit shelving up to 7'3" tall. Two or more standard-sized doors are used for heights of 7'3". A special 4'0" high door is made for use above ledges.

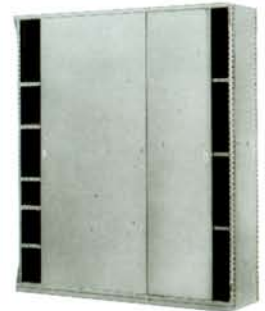
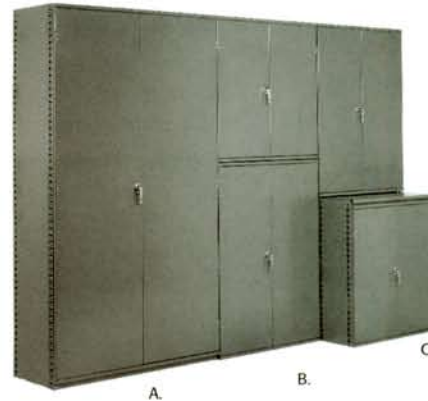
Adds 1-1/16" to depth of unit.

### Two-Bay Sliding Doors

Borroughs two-bay sliding doors, made of 20 gauge steel, are ideal when space is limited and/or traffic is heavy. Each pair is designed to span two 36" wide units of adjoining closed sections. Doors come with header and base, including track.

Doors lock in the middle with one built-in grooved key lock. Doors roll easily on steel ball-bearing rollers.

Adds 2-9/32" to depth of unit.



Catalog #	Size
09626-099	72" x 3'3"
09627-099	72" x 7'3"

Catalog #	Size	Catalog #	Size
13402-001	36" x 3'3"	13402-002	42" x 3'3"
13404-001	36" x 4'0"	13402-014	42" x 6'3"
13402-005	36" x 4'3"	13402-018	42" x 7'3"
13402-013	36" x 6'3"	13402-003	48" x 3'3"
13402-017	36" x 7'3"	13402-015	48" x 6'3"
		13402-019	48" x 7'3"

- A. 1 pr. 48" x 7'3" doors.
- B. 1 pr. 36" x 3'3" doors and 1 pr. 36" x 4'3" doors.
- C. 1 pr. 36" x 4'0" doors and 1 pr. 36" x 3'3" doors.

## Citation Shelving

### Medium Load Shelving Units

Economical and strong, these durable units are ideal for handling your light to medium storage loads. Each comes with five shelves, is 6' high, 36" wide and 12" or 18" deep. Assembly is fast and simple. Three intermediate shelves are easily adjustable with Borroughs standard shelf brackets. Most standard Borroughs' industrial shelving accessories can be used on Citation units.



Catalog #	Style	Dimensions			Shelves Per Unit
		H	W	D	
14423-000	Open	6'	36"	12"	5
14424-000	Open	6"	36"	18"	5

## Commercial Grade Angle Posts

For every day light-to-medium load applications, use Borroughs Commercial Grade Angle Posts and save. These 16 gauge posts have the same design as our industrial angle posts, but are made from lighter steel.

Catalog #	Size
14398-000	6'0"
14398-001	7'0"

Commercial Posts not suited for multi-level or heavy-duty applications.

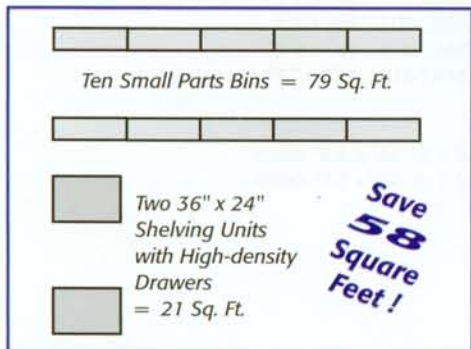
# Box Edge Plus® Shelving

## High-density Drawer Systems

Borroughs' Box Edge Plus® shelving, with high-density drawers, save space!!! Provide better organization!!! Allow faster small parts picking!!! Borroughs makes smart use of your valuable floor space and improves operating efficiency at the same time!

### Space Effective

High-density drawers are heavy-duty shelves with fronts, sides and backs for parts protection and efficient compartmentalization stacked, squeezing out excess space. Smooth operating and durable roll-out suspensions are added for quick and easy access. These are secured to mounting brackets to marry the drawer and suspension assembly to Borroughs Box Edge Plus® shelving units. The result – High-density storage that uses vertical space modular drawer cabinets ignore and floor space small parts bins waste.



Two Box Edge Plus® shelving units with high-density drawers can store the contents of ten units of small parts bins.

### Flexible

Versatile upright mounting brackets put drawers where you need them...in the right configuration. No cabinet housings to limit configurations or add expense. In many cases, your existing Borroughs' shelving can be retro-fit to accept drawers...And, with 400 pounds capacity per drawer and interior partitions and dividers to provide an almost endless variety of drawer subdivisions, drawers don't waste space. They arrange and rearrange to use the space you have exactly the way you need it.

### Efficient

Storage systems must help people be more productive, not slow them down. Borroughs delivers! Small parts can be located quickly and easily for storage and retrieval. Parts are protected from dust and environment and are easy to see with the 100% suspension extension. Angled label holders on drawers and interior compartments make part numbers easy to read, too.



High-density drawers put more parts closer to where they're needed too. Retrieval times, technician downtime and customer wait times are significantly reduced with shorter travel distances and improved organization.

### Drawer Size

Drawers are available in the four most popular Borroughs' Box Edge Plus® shelving sizes: 36" wide x 18" deep, 36" wide x 24" deep, 48" wide x 18" deep and 48" wide x 24" deep. Each of these four sizes also has four different height choices, ranging from 3" high to 9" high.



For simplicity, any Borroughs' drawer and drawer interior can be ordered as a complete, outfitted assembly using only one part number. Nearly 400 variations – pre-configured with partitions and dividers – are available. Also, components can be ordered separately to "configure your own" to accommodate virtually any storage need!



# Box Edge Plus® Shelving

## Easy-Trak™ Movable and Compacting Systems



### Maximize Your Storage Space

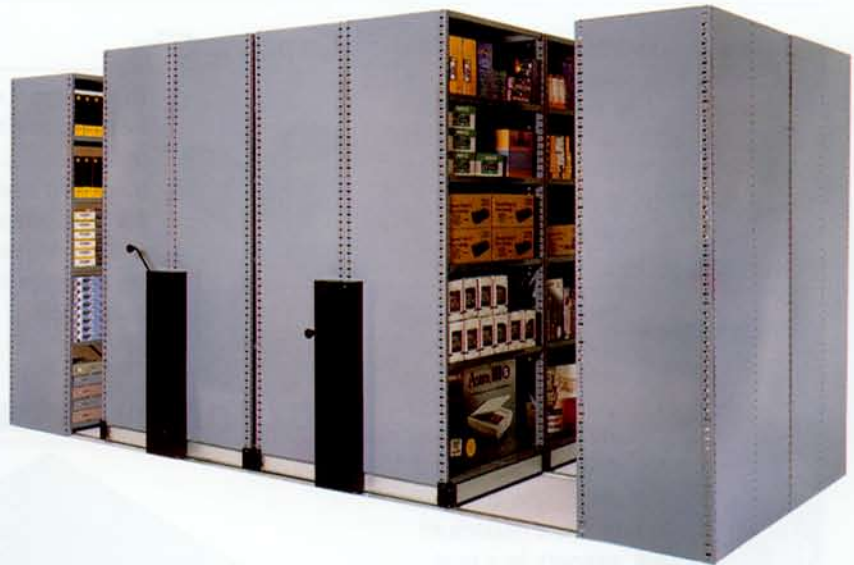
**Borroughs' Easy-Trak Lateral Movable Systems save floor space and increase storage capacity.**

Easy-Trak's unique value-engineered design achieves new economies . . . And, using today's new high-strength materials, ensures the quality and reliability you need.

Strong, unibody aluminum carriages provide a carrying capacity of 3,500 pounds - roll easily on SAE tested, double bearing, case hardened steel wheels - on matching hardened steel running surfaces in levelable, extruded aluminum - resulting in exceptional performance today, and tomorrow.

All Easy-Trak two-row (+ Systems) come standard with a built-in floor level, anti-tip mechanism for safety . . . And Easy-Trak installs quickly and easily on carpet, tile, wood or concrete floors . . . And its adjustable track can be leveled at any time, even long after installation and loading.

Easy-Trak's Responsive Drive System, or RDS, allows carriages up to 15' long! RDS drives the carriage wheels directly via a continuous drive shaft. This eliminates carriage lag problems associated with longer carriages and assures smooth and responsive movement of the entire carriage. Plus, RDS carriages use larger, extra-strength channels, angles and dual bearing 3-1/2" wheels to carry RDS' larger and heavier loads.



#### 1. Versatility

Can be used with many Borroughs' storage units to increase capacity and make smart use of space.

#### 2. Carriage

Durable, unibody, anodized aluminum.

#### 3. Axle

Shaft connects to front/middle/end wheels for positive movement of the entire carriage, eliminating "lag".

#### 4. Heavy-Duty Track

Anodized aluminum with hardened steel running surfaces and underlayment provides extra strength for point loads of 1,500 lbs.

#### 8. Track

ADA low-profile track requires no drive track or costly platforms.

**7. Load Capacity**  
Up to 1,000 lbs. per linear foot.

#### 6. Wheels

Hardened steel, 3-1/2" diameter, dual bearings; rated at 2,500 lbs. per wheel.

#### 5. Drive

Manually operated 16:1 ratio gear box and continuous driveshaft assures responsive, uniform movement.

**Borroughs' Responsive Drive Systems convert aisles into valuable storage space!**

With Easy-Trak's mechanical-assist, carriages and their heavy loads move easily, allowing quick access to any item. Plus, the handle has a built-in carriage parking lock mechanism for safety.

All Borroughs' mobile systems install quickly, too. Unlike many mobile installations, which are permanent and expensive, Easy-Trak requires no special tools, no complicated alignments, costly platforms or expensive grouting.

# Box Edge Plus® Shelving

## High-Rise Systems



Expand your business – not your building – by installing a Borroughs' Box Edge Plus® Shelving High-Rise System.

Borroughs' Box Edge Plus® Shelving units together with modern storage and retrieval systems will enable you to maximize your use of cubic space, while increasing storage efficiency and worker productivity.

### Flexible and Cost-Effective

Compatibility with Borroughs extensive line of standard Box Edge Plus® shelving and accessories make this High-Rise System the most flexible cost-effective system available today.

### Box-Tee Post



The heart of the High-Rise System is the unique "Box-Tee" design of the high-rise post. This post was developed by Borroughs engineers to allow maximum strength in a post compatible with the extensive line of accessories available from Borroughs. The result

of this design effort is a post available in lengths up to 16'3" - an industry exclusive. Box-Tee type posts, 14 gauge steel. 2" x 2-3/4" in seven standard heights from 7'3" to 16'3".

Catalog #	Size
14917-000	7'3"
14917-001	8'3"
14917-002	9'3"
14917-003	10'3"
14917-004	12'3"
14917-005	15'3"
14917-006	16'3"

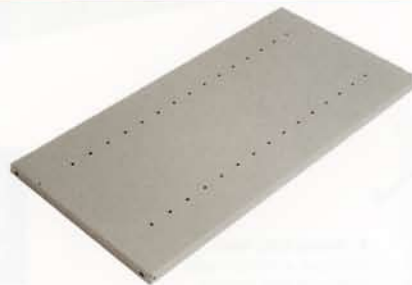
### Captive Clip



This optional clip provides for additional shelf security, yet allows quick and easy installation and adjustment of shelves without disturbing adjacent shelves or using tools.

Catalog #  
14940-000

### BOX EDGE PLUS® Shelf



Borroughs' Box Edge Plus shelf is designed for additional value and aesthetics without additional investment. The front and rear edges of the shelf are formed into a closed, welded box shape that gives the shelf maximum strength and rigidity. Plus, the box edge provides additional strength to handle impact or point loads. The Box Edge Plus shelf also has a cleaner, more attractive, front edge and is fully compatible with all existing Borroughs shelf brackets and posts.

### Side Panels

Borroughs side panels consist of 24 gauge cold-rolled steel which, when bolted to the high-rise posts, forms a partition from the top of the unit to the floor, enclosing the side of a unit. Also, used to finish off the end of a row of open-type shelving. Provides front-to-back stability. Heights to 8'3" are available in one-piece construction.

Catalog #	Size
14918-000	4'3" x 12"
14918-001	4'3" x 15"
14918-002	4'3" x 18"
14918-003	4'3" x 24"
14918-004	4'3" x 30"
14918-005	4'3" x 32"
14919-000	5'3" x 12"
14919-001	5'3" x 15"
14919-002	5'3" x 18"
14919-003	5'3" x 24"
14919-004	5'3" x 30"
14919-005	5'3" x 32"
14920-000	7'3" x 12"
14920-001	7'3" x 15"
14920-002	7'3" x 18"
14920-003	7'3" x 24"
14920-004	7'3" x 30"
14920-005	7'3" x 32"
14921-000	8'3" x 12"
14921-001	8'3" x 15"
14921-002	8'3" x 18"
14921-003	8'3" x 24"
14921-004	8'3" x 30"
14921-005	8'3" x 32"

### Back Panels

Made of 24 gauge cold-rolled steel. For heights over 8'3", use combinations of smaller sizes, overlapped in the middle.

Catalog #	Size
14922-000	4'3" x 24"
14922-001	4'3" x 36"
14922-002	4'3" x 42"
14922-003	4'3" x 48"
14923-000	5'3" x 24"
14923-001	5'3" x 36"
14923-002	5'3" x 42"
14923-003	5'3" x 48"
14924-000	7'3" x 24"
14924-001	7'3" x 36"
14924-002	7'3" x 42"
14924-003	7'3" x 48"
14925-000	8'3" x 24"
14925-001	8'3" x 36"
14925-002	8'3" x 42"
14925-003	8'3" x 48"



### Back Braces

Made of hot-rolled 3/4" 12 gauge band steel. All Borroughs back braces attach to posts on 30" centers and are bolted in the center. These braces attach to high-rise posts with back attachment brackets.

Catalog #	Size
14926-000	24"
14926-001	36"
14926-002	42"
14926-003	48"

### Side Braces

Made of 3/4" 12 gauge band steel, the side braces add structural integrity to open-type units. All side braces attach directly to high-rise posts on 30" vertical centers.

Catalog #	Size
05019-815	12"
05583-815	15"
05020-815	18"
13829-000	24"
13830-000	30"
13831-000	36"

### Back Attachment Kit

Consists of four 12 gauge attachment brackets and hardware. Provides for the secure attachment of backs or back braces to the high-rise posts.

Catalog #	
14926-000	Four brackets per kit. One kit needed per pair of braces.

### High-Rise Post Splicer Kit

Provides front-to-back as well as lateral support. Posts are joined with eight self-drilling screws and four bolts with the upper post resting on a 1/4" steel support plate. This system produces a splice internal to the high-rise post resulting in a neat, finished appearance.

Catalog #	
14928-000	

### Cross-Aisle Ties (Catwalk Beams)

One piece beam with fabricated ends. Requires no brackets and attaches on 1-1/2" centers.

Catalog #	Size
10134-000	30"
10134-001	36"
10134-002	42"
10134-003	48"

### Cross-Aisle Tie Brackets (Mezzanine Brackets)

11 gauge hot-rolled steel incorporates high-strength bolts to provide a secure anchor for cross-aisle ties or mezzanine beams. Attaches on 1-1/2" centers for maximum flexibility.

Catalog #	
14941-000	

### Cross-Aisle Ties (Mezzanine Beams)

Made of 12 gauge hot-rolled steel and made available in three standard lengths (36", 42", 48"). Provides secure cross-aisle support when used in conjunction with the cross-aisle tie brackets.

Catalog #	Size
14064-000	36"
14064-001	42"
14064-002	48"



Volumes of densely-packed records place tremendous amounts of weight on shelving. In tests supervised by an independent engineering firm, tough Borroughs Steel Shelving was proven superior. A Borroughs Shelving System was loaded with 177,000 lbs. of concrete blocks without suffering structural failure. Test results available on request.

## Multi-Tier

**Borroughs two and three level shelving systems are designed to maximize the use of floor space by taking advantage of unused overhead space (cube) available in existing facilities. Borroughs Multi-Tier shelving systems are a cost-effective alternative to new construction.**



When your inventory outgrows your available storage space, your first reaction is plan for new building construction. A far more economical solution is to build upward, utilizing the cubic space available in your existing facility.

A Borroughs Multi-Tier shelving system will do just

that and at a fraction of the cost of new building construction.

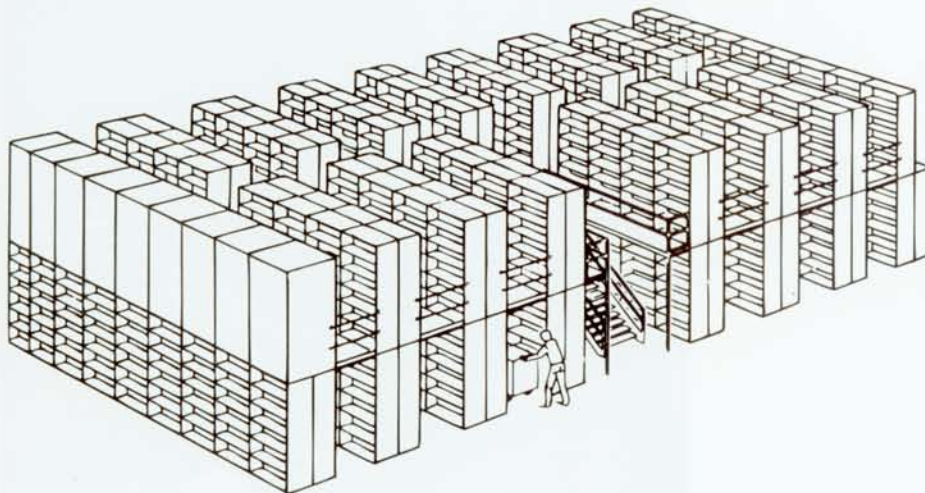
Borroughs systems are proven solid, strong and versatile. They can double or even triple your usable cubic storage space without substantially increasing your overhead.

Borroughs' people are experts in shelving, multi-level systems and space efficiency.

Let us help you design a Multi-Tier shelving system that meets your unique needs. One that delivers the maximum amount of storage space and efficiency for every dollar you invest.

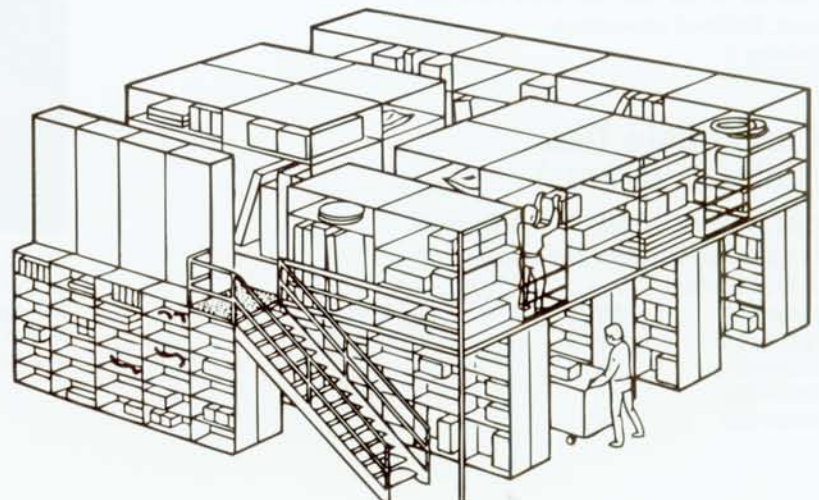
## Catwalk Shelving System

Utilize aisles attached to the shelving itself and a second level of shelving, either vertically continuous from or stacked as an extension of the lower level shelving. This requires post-to-post match-ups between levels but, makes catwalks less expensive to construct.



## Full-Mat Shelving System

Consists of a "second floor" of grating built over the entire lower level...and no post-to-post match-ups are required. The second level of shelving or office is built on top of the grating. This allows second level storage units of differing sizes and types and provides relatively unlimited shelving placement.



# Multi-Tier Box Edge Plus® Shelving Catwalk Systems

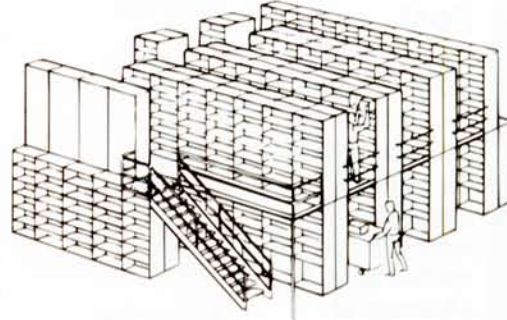
The packaged Multi-Tier systems shown here can each be ordered from Borroughs with one catalog number. These Multi-Tier systems are completely pre-designed and engineered. And are shipped ready for assembly.

We are Multi-Tier experts and can modify any package system to exactly fit your requirements.

## Type I Model No. MEZ-1

Overall dimensions are 27'4" x 27'0" x 16'6" high. Stairway width is 3'0" with aisle widths of 3'1". Can be easily modified to fit exact storage requirements.

Area: 738 sq. ft.

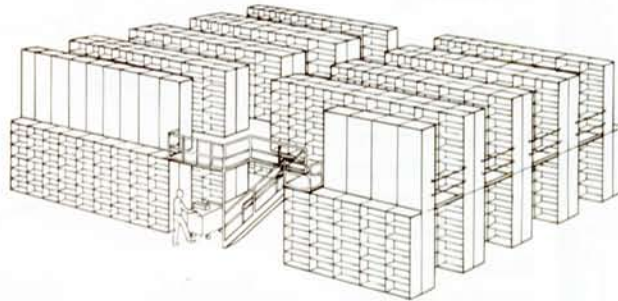


Lower Level Shelving	Upper Level Shelving	No. Units		Height		Aisle Width		Size of Installation	Storage Space C.F. (aisle space not inc.)
		L.L.	U.L.	L.L.	U.L.	L.L.	U.L.		
36" x 18"	36" x 18"	82	59	8'3"	8'3"	3'1"	3'1"	27'4" x 27'0"	5,076

## Type II Model No. MEZ-2

Overall dimensions are 62'0" x 27'4" x 16'6" high. Stairway width is 3'0" with aisle widths of 3'1". Can be easily modified to fit exact storage requirements.

Area: 1,695 sq. ft.

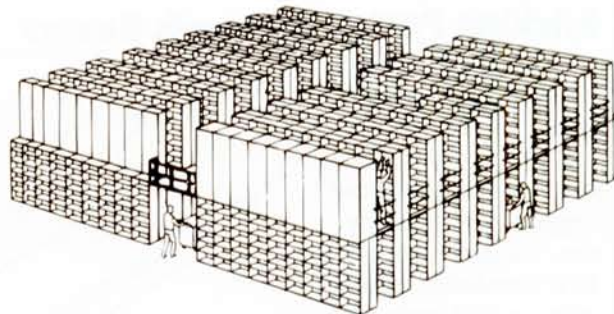


Lower Level Shelving	Upper Level Shelving	No. Units		Height		Aisle Width		Size of Installation	Storage Space C.F. (aisle space not inc.)
		L.L.	U.L.	L.L.	U.L.	L.L.	U.L.		
36" x 18"	36" x 18"	172	139	8'3"	8'3"	3'1"	3'1"	62'0" x 27'4"	11,088

## Type III Model No. MEZ-3

Overall dimensions are 62'0" x 51'8" x 16'6" high. Stairway width is 3'0" with aisle widths of 3'1". Includes swing gate and pallet set-up area. Can be easily modified to fit exact storage requirements.

Area: 3,204 sq. ft.



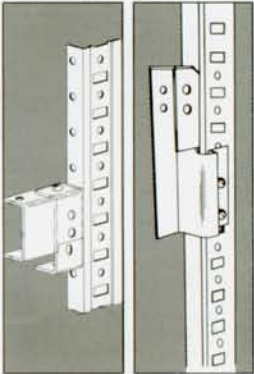
Lower Level Shelving	Upper Level Shelving	No. Units		Height		Aisle Width		Size of Installation	Storage Space C.F. (aisle space not inc.)
		L.L.	U.L.	L.L.	U.L.	L.L.	U.L.		
36" x 18"	36" x 18"	316	269	8'3"	8'3"	3'1"	3'1"	62'0" x 51'8"	21,708
-	36" x 36"	-	9	-	8'3"	3'1"	3'1"		

# Multi-Tier

## Box Edge Plus® Shelving Catwalk Systems

### Construction Methods

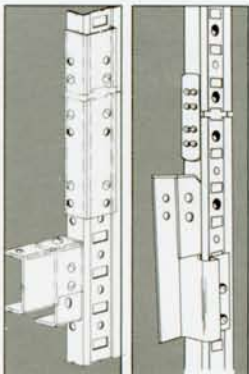
Borroughs offers a variety of multi-level construction options. Below are some common methods that can be used for new and/or existing Borroughs' installations.



#### One-Piece Post

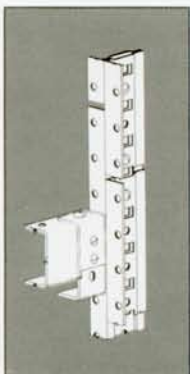
Borroughs offers one piece posts as high as 16'3" for double-deck shelving installations, the one piece post method offers the advantage of fewer required

parts, ease of installation (no post splicing required) and unrestricted aisle height placement.



#### Splicing Posts

This method can be used to add height to existing installations or for new installations over 16'3". Because of the required bolting of the splicers, this method involves extra labor and component expenses.

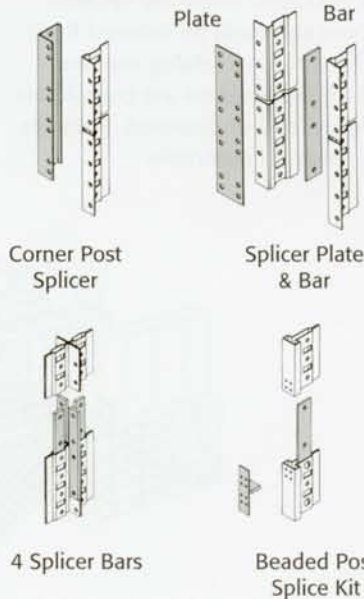


#### Bricking Posts

Generally restricted to new installations this method utilizes four angle posts of two different heights to achieve a rigid T-Post configuration. For example: a 15'6" installation would utilize an 8'3" angle post on the bottom and a 7'3" post on the top -

bolted to a 7'3" post on the bottom and an 8'3" post on the top.

### Post Splicers

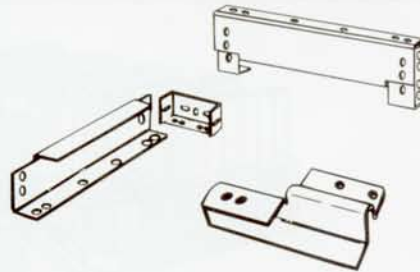


Angle post corner splicers are used at the four outside corners of each row of angle post shelving. They wrap around the front and side flanges of the posts, giving support in two directions.

Splicer bars and splicer plates are used for splicing intermediate angle posts. The splicer bar is used between two posts or back-to-back posts and the splicer plate is used on the face of the two posts. The beaded post splice kit includes a beaded post splicer plate and splicer bar.

Catalog #	Description
09545-099	Corner Post Splicer
09366-000	Splicer Plate
09365-000	Splicer Bar
14934-000	Beaded Post Splice Kit

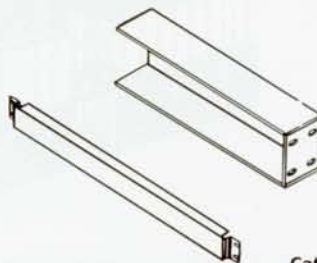
### Mezzanine Brackets and Beams



Brackets can be used either as a left or right hand support...and angle bracket will fit side flange on Borroughs posts. These brackets are designed to hold the Borroughs beams...but will also accommodate slotted angle. Heavy 12 gauge channel beams have top flange holes for attaching steel grating or other types of decking.

Catalog #	Description	Safe concentrated load each	Safe uniform load each
14064-000	36" Beam	1125 lbs.	2250 lbs.
14064-001	42" Beam	955 lbs.	1910 lbs.
14064-002	48" Beam	800 lbs.	1600 lbs.
14065-000	Bracket, Angle	-	-
14941-000	Bracket, Beaded	-	-

### Catwalk Beams



12 gauge channel beams require no brackets, attach directly to post. Designed to give maximum load bearing capabilities. Beams are available for angle and beaded posts, in four lengths. Supports decking at same height as mezzanine bracket and beam shown above.

Catwalk Beams - Angle Post		Catwalk Beams - Beaded Post	
Catalog #	Size	Catalog #	Size
10135-000	30"	10134-000	30"
10135-001	36"	10134-001	36"
10135-002	42"	10134-002	42"
10135-003	48"	10134-003	48"

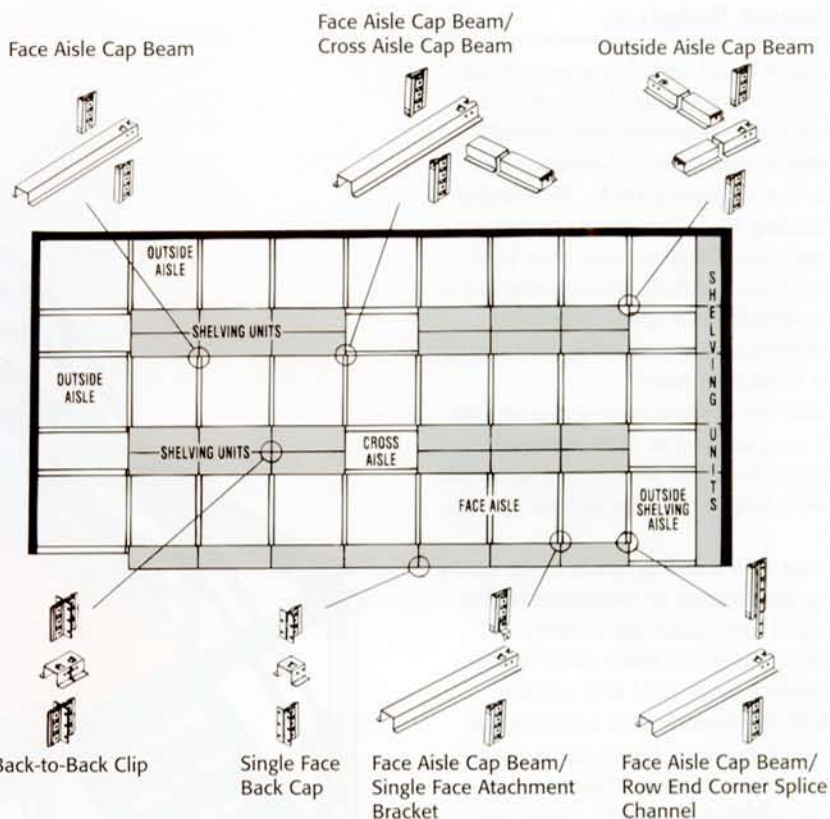
## Borrighs Cap System

The Borrighs Cap System is a hybrid of a catwalk and a full mat, specifically designed to lower material and labor costs. This is accomplished by the use of caps that fit over the top of the posts eliminating post splices.

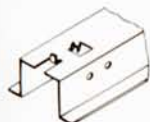
To simplify things even more, face aisle beams are actually extensions of the cap itself. This further eliminates beams and brackets and replaces them with a labor saving cap beam.

Another advantage of the Borrighs Cap System is its ability to simplify the addition of a second level walkway and shelving to existing installation. Extra labor and splicer component expenses are eliminated. All that is necessary to add a second level of beaded post shelving is our simple cap system.

**NOTE:** The Cap Mezzanine System is NOT recommended for use in Seismic Zones 3 and 4.



### Face Aisle Cap Beam

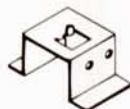


Used when an aisle is between two rows of shelving.

Catalog #	Size*
10409-000	36"
10409-002	42"
10409-003	48"

\*When using face aisle cap beams with angle posts, add 1" to aisle widths.

### Single Face Back Cap



Used on the back of a single face row of shelving to provide the cap needed for two rear angle posts to nest properly.

**Catalog #**  
10418-000

### Row End Corner Splice Channel



Used at the four outside corners of each row in conjunction with face aisle beams to provide added stability for second level units.

**Catalog #**  
10415-000

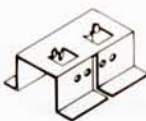
### Cross Aisle Cap Beam



Used for cross aisles that run between units.

Catalog #	Size
10408-002	36"
10408-000	42"
10408-001	48"

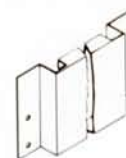
### Back-to-Back Cap



Used on back-to-back units to provide the cap needed for four rear angle posts to nest properly.

**Catalog #**  
10417-000

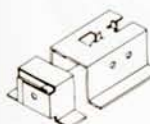
### Row End Kit Plate



Kick plates run along the end of an aisle next to the decking material to help prevent personnel and small items from falling off of upper levels.

Catalog #	Size
10407-000	36"
10407-001	42"
10407-002	48"

### Outside Aisle Cap Beam



Used between the face of a shelving unit and an outside structure such as a wall or between the side of a shelving unit and an outside structure.

Catalog #	Size
10457-000	36"
10457-001	42"
10457-002	48"

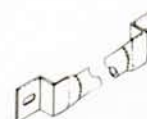
### Single Face Attachment Bracket



Used in conjunction with face aisle cap beams on single face rows to provide added stability for second level units of a single face row of shelving.

**Catalog #**  
10455-000

### Row End Hand Rail



Used at aisle ends to keep personnel and equipment from falling off of the upper levels.

Catalog #	Size
10413-000	36"
10413-001	42"
10413-002	48"

# Multi-Tier Free-Standing Systems

## The Smart Solution

Today's rapid and changing competitive environment demands smart business solutions. Solutions that provide economical alternatives. Solutions that help reduce operating costs. Borroughs' free-standing Multi-Tier are a proven smart solution. They expand your business, not your building, maximizing use of your expensive floor space to provide needed production, assembly, office or storage areas for growth.

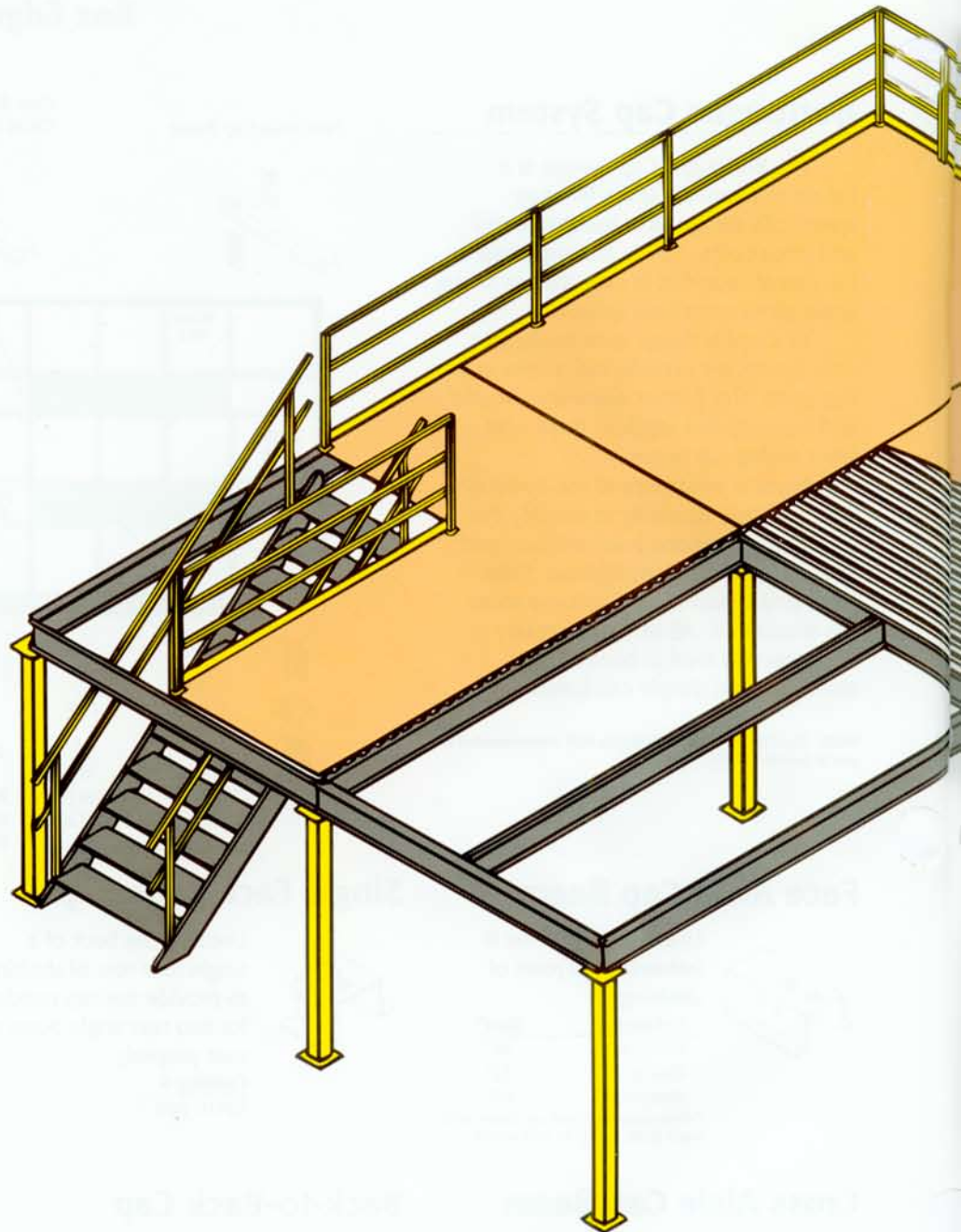
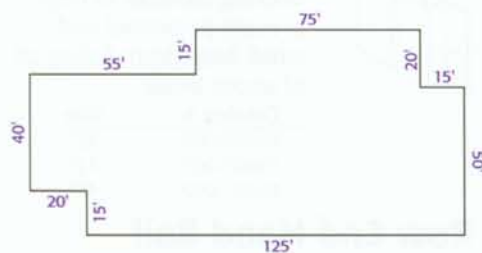
Multi-Tier's free-standing mezzanine system uses wasted or often ignored vertical space...And, can double or even triple the usable square footage of your existing facility.

Using your existing space saves costly building expansions or expensive facility moves and their associated down time...Plus, Multi-Tier saves even further, using existing heat, light and cooling.

Multi-Tier provides tax benefits, too. Under most tax laws, Multi-Tier is equipment, not real property. This minimizes or avoids additional property taxes and allows the depreciation advantages granted equipment over buildings.

## Your Business is Unique

That's why each Borroughs' Multi-Tier is individually designed to fit your operation's unique needs, functions and space. Our goal is to offer your business the best possible solution.



## Safety Engineered

The safety of your people and the protection of your property are very important to us. All Borroughs' Multi-Tier free-standing systems are PE stamped to assure system design integrity and structural safety.





# Rivet-Span®

Rivet-Span starts with a simple, economical design. A unit consists of posts, horizontal beams and wood decking. Using sturdy rack-like beam-to-post connections, beams have high strength shoulder rivets that engage double keyhole post slots. The assembled heavy-duty, 14 gauge steel frame forms an extremely strong and rigid storage unit.

A variety of beams adds versatility. Rivet-Span has six types and 15 sizes, in spans and depths wider and greater than conventional shelving, to accommodate a wide range of loads and optimize your storage.

All components are universal – no lefts or rights, no fronts or backs. Units are universal and can be accessed from any or all four sides.

Without the hassle of nuts, bolts, clips or cross braces, installation is quick and easy. Most units can be assembled in minutes using only a rubber mallet.

This results in a storage product that is incredibly economical, versatile and easy to assemble...And, Borroughs' finish process means your Rivet-Span will continue to look great, even after years of heavy use.



## Economical

- Low initial investment reduces shelving costs.
- Quick labor saving installation reduces set-up costs.
- Sizes to eliminate costly decking material cutting charges.

## Strong

- Steel frame construction extends shelving life.
- Rigid boltless connection between posts and beams.
- Secure double key hole and shoulder rivet connections.

## Flexible

- Allows access from any or all four sides.
- Variety of beams to accommodate a wide range of loads.
- Spans up to 8' to optimize storage.

## Simple Assembly

- All pieces universal
  - No lefts or rights
  - No fronts or backs
  - No tops or bottoms
- Requires no cross or sway braces.





## Bulk Storage Units

Rivet-Span is ideally suited to virtually any type of hand-loaded material. It is designed for greater cube capacity than shelving and lower price than rack. Rivet-Span can be used to make bulk storage racks for storing a broad range of hand-loaded heavy materials, bulky parts or hard-to-store items.

- ◆ Designed for spans of 48" to 96" wide.
- ◆ Choice of beam capacity to meet your storage requirements.
- ◆ Uses double rivet angle, channel or Z beams.
- ◆ Beam levels adjust on 1-1/2" centers.
- ◆ T Post adder units further reduce material investment and installation time.



## Shelf Units

Rivet-Span can also be used as quick, low-cost steel wood shelving. Single rivet and double rivet low profile beams provide maximum space between shelf levels. Plus, Rivet-Span is ideal for double entry shelving units. It can be accessed from all four sides because no cross braces or face braces are required for stability.

- ◆ Designed for units up to 48" wide.
- ◆ Uses single rivet or double rivet low profile beams on intermediate levels.
- ◆ Uses full "perimeter" double rivet angle beams at the top and bottom levels for rigidity.
- ◆ Shelf levels adjust on 1-1/2" centers.
- ◆ T Posts provide additional savings on runs of shelving.



## Specialty Units

Special uses of Rivet-Span are limited only by the imagination of the individual. Some of the obvious uses are as archival records storage units or tire racks or three foot high units and rows as work benches and packing or receiving tables. Additionally, retail establishments can use Rivet-Span for back room garment hang rod units. Rivet-Span is perfect for many hard-to-store items.

# Rivet-Span®

## Bulk Storage Units



Simple, economical storage that is strong for today's wide variety of hand-loaded bulky, heavy, or hard-to-store items. Rivet-Span offers a complete range of sizes with spans and depths wider and greater than conventional shelving.

### 48" Wide



### 7'0" High 4 Beam Levels

Starter Unit	Adder Unit	Unit Depth	Capacity Per Beam Level***	Beam Type	Extra Beam Level
B4818DR47	A4818DR47	18"	730 lbs.	Angle	BL4818DR
B4824DR47	A4824DR47	24"	730 lbs.	Angle	BL4824DR
B4830DR47	A4830DR47	30"	730 lbs.	Angle	BL4830DR
B4836DR47	A4836DR47	36"	730 lbs.	Angle	BL4836DR
B4848DR47	A4848DR47	48"	730 lbs.	Angle	BL4848DR

### 60" Wide



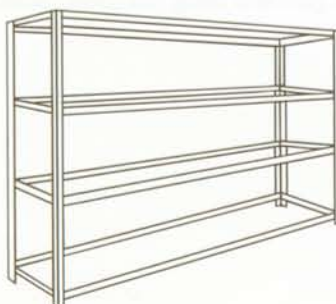
B6018DR47	A6018DR47	18"	680 lbs.	Angle	BL6018DR
B6018DH47	A6018DH47		1300 lbs.	*Angle	BL6018DH*
B6018CH47	A6018CH47		*2250 lbs.	*Channel**	BL6018CH*
B6024DR47	A6024DR47	24"	680 lbs.	Angle	BL6024DR
B6024DH47	A6024DH47		*1300 lbs.	*Angle	BL6024DH*
B6024CH47	A6024CH47		*2250 lbs.	*Channel**	BL6024CH*
B6030DR47	A6030DR47	30"	680 lbs.	Angle	BL6030DR
B6030DH47	A6030DH47		*1300 lbs.	*Angle	BL6030DH*
B6030CH47	A6030CH47		*2250 lbs.	*Channel**	BL6030CH*
B6036DR47	A6036DR47	36"	680 lbs.	Angle	BL6036DR
B6036DH47	A6036DH47		*1300 lbs.	*Angle	BL6036DH*
B6036CH47	A6036CH47		*2250 lbs.	*Channel**	BL6036CH*
B6048DR47	A6038DR47	48"	680 lbs.	Angle	BL6048DR
B6048DH47	A6038DH47		*1300 lbs.	*Angle	BL6048DH*
B6048CH47	A6048CH47		*2250 lbs.	*Channel**	BL6048CH*

### 72" Wide



B7218DR47	A7218DR47	18"	450 lbs.	Angle	BL7218DR
B7218DH47	A7218DH47		*1050 lbs.	*Angle	BL7218DH*
B7218CH47	A7218CH47		*1700 lbs.	*Channel**	BL7218CH*
B7224DR47	A7224DR47	24"	450 lbs.	Angle	BL7224DR
B7224DH47	A7224DH47		*1050 lbs.	*Angle	BL7224DH*
B7224CH47	A7224CH47		*1700 lbs.	*Channel**	BL7224CH*
B7230DR47	A7230DR47	30"	450 lbs.	Angle	BL7230DR
B7230DH47	A7230DH47		*1050 lbs.	*Angle	BL7230DH*
B7230CH47	A7230CH47		*1700 lbs.	*Channel**	BL7230CH*
B7236DR47	A7236DR47	36"	450 lbs.	Angle	BL7236DR
B7236DH47	A7236DH47		*1050 lbs.	*Angle	BL7236DH*
B7236CH47	A7236CH47		*1700 lbs.	*Channel**	BL7236CH*
B7248DR47	A7248DR47	48"	450 lbs.	Angle	BL7248DR
B7248DH47	A7248DH47		*1050 lbs.	*Angle	BL7248DH*
B7248CH47	A7248CH47		*1700 lbs.	*Channel**	BL7248CH*

### 96" Wide



B9618DH47	A9618DH47	18"	*650 lbs.	*Angle	BL9618DH*
B9618CH47	A9618CH47		*1300 lbs.	*Channel**	BL9618CH*
B9624DH47	A9624DH47	24"	*650 lbs.	*Angle	BL9624DH*
B9624CH47	A9624CH47		*1300 lbs.	*Channel**	BL9624CH*
B9630DH47	A9630DH47	30"	*650 lbs.	*Angle	BL9630DH*
B9630CH47	A9630CH47		*1300 lbs.	*Channel**	BL9630CH*
B9636DH47	A9636DH47	36"	*650 lbs.	*Angle	BL9636DH*
B9636CH47	A9636CH47		*1300 lbs.	*Channel**	BL9636CH*
B9648DH47	A9648DH47	48"	*650 lbs.	*Angle	BL9648DH*
B9648CH47	A9648CH47		*1300 lbs.	*Channel**	BL9648CH*

Starter unit has (4) angle posts; Adder unit has (2) T posts.

\*Includes (1) support tie, except 96" which has (2) support ties.

\*\*Units with channel beams have angle beams with support ties located directly at the floor level.

\*\*\*Capacities are for steel beams only with evenly distributed loads and do not reflect the capacity of the decking material. All units include metal frame only. Decking material must be ordered separately.



Quick low-cost shelving with low profile steel supports. Rivet-Span's single rivet and double rivet low profile beams provide optimum vertical shelf openings without the hassle of nuts, bolts, clips or cross braces.

### Single Rivet Shelf Units\*

#### 7'0" High 6 Beam Levels

		Starter Unit	Adder Unit	Unit Depth	Capacity Per Beam Level***	Extra Shelf Level
<b>36" Wide</b>		B3612SR67	A3612SR67	12"	350 lbs.	BL3612SR
		B3618SR67	A3618SR67	18"	350 lbs.	BL3618SR
		B3624SR67	A3624SR67	24"	350 lbs.	BL3624SR
		B3636SR67	A3636SR67	36"	350 lbs.	BL3636SR
<b>42" Wide</b>		B4212SR67	A4212SR67	12"	260 lbs.	BL4212SR
		B4218SR67	A4218SR57	18"	260 lbs.	BL4218SR
		B4224SR67	A4224SR67	24"	260 lbs.	BL4224SR
		B4236SR67	A4236SR67	36"	260 lbs.	BL4236SR
<b>48" Wide</b>		B4812SR67	A4812SR67	12"	240 lbs.	BL4812SR
		B4818SR67	A4818SR67	18"	240 lbs.	BL4818SR
		B4824SR67	A4824SR67	24"	240 lbs.	BL4824SR
		B4836SR67	A4836SR67	36"	240 lbs.	BL4836SR

### Double Rivet Low Profile Shelf Units\*

#### 7'0" High 7 Beam Levels

		Starter Unit Catalog #	Adder Unit Catalog #	Unit Depth	Capacity Per Beam Level***	Extra Shelf Levels
<b>36" Wide</b>		B3612LP77	A3612LP77	12"	450 lbs.	BL3612LP
		B3618LP77	A3618LP77	18"	450 lbs.	BL3618LP
		B3624LP77	A3624LP77	24"	450 lbs.	BL3624LP
		B3636LP77	A3636LP77	36"	450 lbs.	BL3636LP
<b>42" Wide</b>		B4212LP77	A4212LP77	12"	430 lbs.	BL4212LP
		B4218LP77	A4218LP77	18"	430 lbs.	BL4218LP
		B4224LP77	A4224LP77	24"	430 lbs.	BL4224LP
		B4236LP77	A4236LP77	36"	430 lbs.	BL4236LP
<b>48" Wide</b>		B4812LP77	A4812LP77	12"	400 lbs.	BL4812LP
		B4818LP77	A4818SR67	18"	400 lbs.	BL4818LP
		B4824LP77	A4824LP77	24"	400 lbs.	BL4824LP
		B4836LP77	A4836LP77	36"	400 lbs.	BL4836LP

Starter Unit has (4) angle posts; Adder Unit has (2) T posts.

\*All units include double rivet angle beams, left-to-right and front-to-back, at the top and bottom beam levels.

\*\*\*Capacities are for steel beams only with evenly distributed loads and do not reflect the capacity of the decking material.

All units include metal framing only. Decking material must be ordered separately.

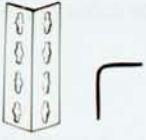
Shelf units 24" deep or less include only (2) intermediate front-to-back single rivet beams. Units 30" or deeper include front-to-back single rivet beams at every intermediate beam level.

\*\*Extra shelf levels 24" deep or less include left-to-right beams only. Extra shelf levels 30" or deeper also include front-to-back single rivet beams.

# Rivet-Span®

## Components and Accessories

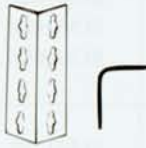
### Angle Post



Standard duty upright post. 1.57" x 1.57", 14 gauge, punched on 1-1/2" centers.

Catalog #	Size	Catalog #	Size
10061-000	6'0"	10061-003	9'0"
10061-001	7'0"	10061-004	10'0"
10061-002	8'0"	10061-006	12'0"

### Heavy-Duty Angle Post



Designed for maximum load capacity and stability. 1-7/8" x 1-7/8", 14 gauge, punched on 1-1/2" centers.

Catalog #	Size	Catalog #	Size
10060-000	6'0"	10060-006	12'0"
10060-001	7'0"	10060-008	14'0"
10060-002	8'0"	10060-009	15'0"
10060-003	9'0"	10060-010	16'0"
10060-004	10'0"		

### Tie Plate - Angle Post



Connects posts of adjacent angle post units to insure structural stability and alignment. 14 gauge.

Catalog #
10066-000

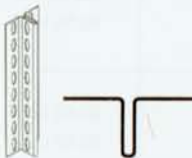
### Post Splicer - Angle Post



Used to extend the height of angle posts or heavy-duty angle posts. 13 gauge.

Catalog #
10065-000

### T Post



Common post between adjoining units to create economical starter and adder units. 3.34" x 1.57", 14 gauge, punched on 1-1/2" centers.

Catalog #	Size	Catalog #	Size
10132-000	6'0"	10132-003	9'0"
10132-001	7'0"	10132-004	10'0"
10132-002	8'0"	10132-006	12'0"

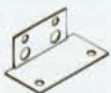
### Post Splicer - T Post



Used to extend the height of T Posts. 14 gauge.

Catalog #
10145-000

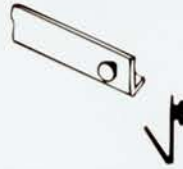
### Foot Plate



Used for weight distribution and securing posts to the floor. Designed for single (row end) and double (intermediate) posts. Use with either standard or heavy-duty angle, or T posts. 4" x 2", 14 gauge.

Catalog #
10060-000

### Single Rivet Beam



Left-to-right and front-to-back support for shelf decking. 1" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10063-000	12"	10063-004	30"
10063-001	15"	10063-005	36"
10063-002	18"	10063-006	42"
10063-003	24"	10063-007	48"

### Double Rivet Low Profile Beam



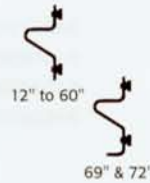
Heavier duty left-to-right support shelf decking. 1-1/4" high, 14 gauge.

Catalog #	Size	Catalog #	Size
16330-091	36"	16331-011	48"
16331-001	42"		

### Double Rivet Z Beam



Reduced profile left-to-right and front-to-back support recesses decking to provide additional vertical storage space and protect decking edges. 2-1/4" high, 14 gauge.



Catalog #	Size	Catalog #	Size
10142-000	12"	10142-005	36"
10142-001	15"	10142-006	42"
10142-002	18"	10142-007	48"
10142-003	24"	10142-008	60"
10142-004	30"	10144-009	69"
10142-012	32"	10144-010	72"

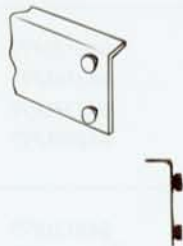
### Z Tie



Used with Z Beam to support decking material.

Catalog #	Size	Catalog #	Size
10110-003	24"	10110-005	36"
10110-004	30"	10110-006	42"
10110-012	32"	10110-007	48"

### Double Rivet Angle Beam

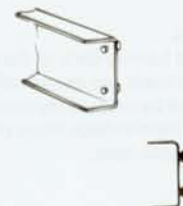


Standard left-to-right and front-to-back support for bulk storage decking and top and bottom level shelf decking. 2-5/8" x 7/8", 14 gauge.

Catalog #	Size	Catalog #	Size
10068-000	12"	10068-007	48"
10068-001	15"	10068-008	60"
10068-002	18"	10068-009	69"
10068-003	24"	10097-009*	69"
10068-004	30"	10068-010	72"
10068-012	32"	10068-013	84"
10068-005	36"	10068-011	96"
10068-006	42"		

\*Punched to accept Record Storage Support Angle.

### Double Rivet Channel Beam



Higher capacity left-to-right support for bulk storage decking. 3" x 7/8", 14 gauge. Channel beams cannot be located directly at floor level due to their longer face. For a beam level directly at floor level, use angle beams with support ties.

Catalog #	Size	Catalog #	Size
10070-007	48"	10070-010	72"
10070-008	60"	10070-013	84"
10070-009	69"	10070-011	96"
10098-009*	69"		

\*Punched to accept Record Storage Support Angle.

### Support Tie



Adds support to decking material and increases capacity of double rivet angle and channel beams by limiting rotation. 2-1/2" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10072-000	12"	10072-004	30"
10072-001	15"	10072-012	32"
10072-002	18"	10072-005	36"
10072-003	24"	10072-006	42"
		10072-007	48"

### Tire Beam



Left-to-right support for tires and wheels. 2-23/32" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10077-005	36"	10077-008	60"
10077-007	48"		

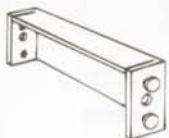
### Aisle Tie



Top ties units together across aisles to maintain a constant aisle and stabilize units exceeding a height-to-depth ratio of 4. Not designed to support upper level walkways. 2-1/2" high, 14 gauge.

Catalog #	Size	Catalog #	Size
10073-000	30"	10073-002	42"
10073-001	36"	10073-003	48"

### Back Spacer Tie



Spaces back-to-back shelving units where space is required between units such as tire storage. 2-1/2" high, 14 gauge.

Catalog #	Size
10079-000	18"

### Wall Tie



Ties rack to wall for stability where space is required between unit and wall such as wheel storage. 2-1/2" high, 14 gauge.

Catalog #	Size
10075-000	9"

### Record Storage Support Angle



Catalog #	Size
10099-000	15"
10099-001	30"

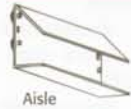
### Hang Rod



Used for hanging items within a unit. One or more may be used per level. Accepts standard clothing hangers. Support at each end by either double rivet angle or channel beams. 1-1/4" x 1-1/4", 14 gauge.

Catalog #	Size	Catalog #	Size
10104-005	36"	10104-008	60"
10104-007	48"		

### Mat Decking Support



Aisle

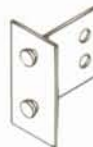


Full Mat

Supports steel decking in catwalk systems in aisle position. Turned over, supports decking for deck over or full mat multi-level systems. 3-1/2" high, 12 gauge.

Catalog #	Size	Catalog #	Size
10111-005	36"	10111-008	60"
10111-006	42"	10111-009	69"
10111-007	48"	10111-010	72"

### Slotted Angle Cleat



Used where slotted angle pieces must be joined to Rivet-Span, such as top tie or special grating supports. Use one left and right, facing each other, when creating cross aisle supports. 14 gauge.

Catalog #	Size
10113-000	Right
10113-001	Left

### Particle Board Decking



Optional bulk storage and shelf decking material. 5/8" thick.

Catalog #	Size	Catalog #	Size	Catalog #	Size
10095-000	36" x 12"	10095-012	48" x 18"	10095-024	69" x 30"
10095-001	36" x 15"	10095-013	48" x 24"	10095-025	72" x 18"
10095-002	36" x 18"	10095-014	48" x 30"	10095-026	72" x 24"
10095-003	36" x 24"	10095-015	48" x 36"	10095-027	72" x 30"
10095-004	36" x 30"	10095-016	48" x 38"	10095-028	72" x 36"
10095-005	42" x 12"	10095-017	60" x 18"	10095-029	72" x 48"
10095-006	42" x 15"	10095-018	60" x 24"	10095-030	96" x 18"
10095-007	42" x 18"	10095-019	60" x 30"	10095-031	96" x 24"
10095-008	42" x 24"	10095-020	60" x 36"	10095-032	96" x 30"
10095-009	42" x 30"	10095-021	60" x 48"	10095-033	96" x 36"
10095-010	48" x 12"	10095-022	69" x 15"	10095-034	96" x 48"
10095-011	48" x 15"	10095-023	69" x 24"		

Particle board decking, 5/8" (.625) thick, is available pre-cut from Borroughs. Or it can be obtained direct from your local Borroughs Distributor. Other types and thicknesses of decking material, such as plywood, structure wood, oriented strand board or wire decking may be desired based upon load or use. These also can be obtained locally.



## Specification Data

Rivet shelving units are made up of posts, side-to-side beams, and front-to-back beams. There are certain **minimum requirements** for beam use to ensure structural stability and safety. For example: all units must have a full "perimeter" of double rivet beams, meaning (2) side-to-side and (2) front-to-back, at both top and bottom of unit for stability. There are other requirements, see below.

**Preconfigured Units** - Include all required beams. Installation instructions (included with shipment) show how to position beams correctly.

**Non-preconfigured Units** - Follow these guidelines when specifying individual components:

- ◆ All units require a full perimeter of double rivet beams at top and bottom of unit.
- ◆ Single Rivet Beam (SRB) and Double Rivet Low Profile Beam (DRLPB) units 24" deep or less:
  - ◆ do not require SRB's front-to-back at each intermediate level in the unit.
  - ◆ 6'-8' high must have one intermediate level front-to-back SRB's located approximately in the middle of the unit.
  - ◆ 9'-10' high must have two intermediate levels front-to-back SRB's located to divide the height into 3 equal parts.
  - ◆ 11'-16' high must have three intermediate levels; a full perimeter of DRB's in the middle plus intermediate levels of front-to-back SRB's in the upper and lower halves of unit.
- ◆ Single Rivet Beam (SRB) and Double Rivet Low Profile Beam (DRLPB) units 30" deep or greater:
  - ◆ All units must have single rivet beams front-to-back at every intermediate beam level and units 11'-16' must have SRB's front-to-back at every intermediate level AND have a full perimeter level of Double Rivet Beams (DRB) located approximately in the middle of the unit.
- ◆ Double Rivet Angle Beams (DRAB), Double Rivet Channel Beams (DRCB) and Double Rivet Z Beams (DRZB) must have front-to-back and left-to-right beams at each beam level to provide decking support and ensure stability
- ◆ Tie Plates are not used on units with T Posts. Tie Plates are recommended to tie adjacent angle post units together and to ensure structural stability. Tie plates should be used at the top and bottom of adjacent angle posts with additional tie plates spaced no more than 48" apart.

## Calculated Post Capacities

Pounds Allowable Load Per Post

Maximum Beam Spacing In Inches	Angle Post	Heavy-Duty Angle Post
48"	1,170	1,750
42"	1,315	1,960
36"	1,460	2,180
30"	1,605	2,390
24"	1,750	2,610
18"	1,896	2,830
12"	2,040	3,050

- ◆ Maximum beam spacing is determined as the distance between left-to-right beams or front-to-back beams, whichever is greater.
- ◆ Capacities are for vertical loads only where seismic forces are not a factor.

## Basic Data

### Widths

Nominal unit width = 24", 30", 32", 36", 42", 48", 60", 69", 72", 84" or 96"  
Actual single unit width = nominal width + 1/2"

### Depths

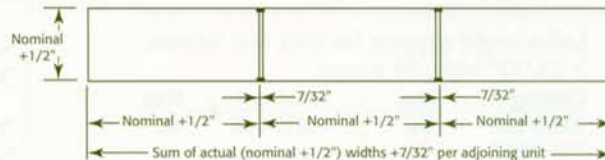
Nominal unit depth = 12", 15", 18", 24", 30", 32", 36", 42" or 48"  
Actual single unit depth = nominal depth + 1/2"  
Actual back-to-back units depth = combined actual single unit depths + 7/32"

### Heights

Nominal unit height = 6', 7', 8', 10', 12', 14', 15' or 16'  
Actual unit height = nominal height ± 1/32"

### Length of Run

Actual length of run = sum of actual unit widths + 7/32" per adjoining unit



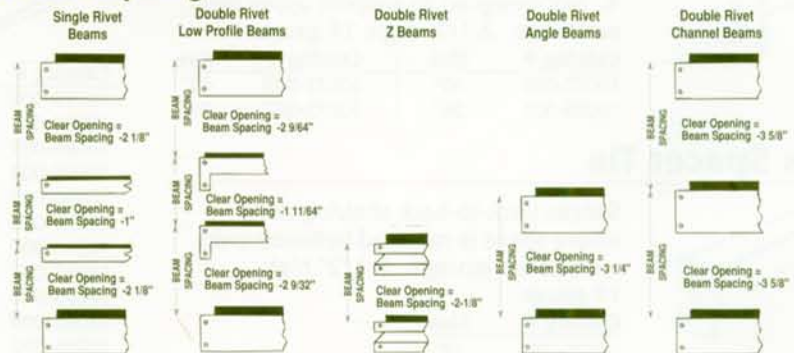
### Horizontal Clear Openings

Actual clear opening between angle posts = nominal width - 2-5/8"  
Actual clear opening between heavy-duty angle posts = nominal width - 3-1/4"

### Vertical Adjustment

All beams are adjustable on 1-1/2" centers

### Vertical Clear Openings



Vertical clearance calculated using 5/8" thick decking material.

## Beam Capacities

Maximum Uniformly Distributed Loads Pounds Per Beam Pair \*\*

Beam Length	Single Rivet Beam	Double Rivet Low Profile Beam	Double Rivet Z Beam	Double Rivet Z Beam w/Z Tie*	Double Rivet Angle Beam	Double Rivet Angle Beam w/Support Tie*	Double Rivet Channel Beam w/Support Tie*
36"	350	450	1,400	-	1,400	-	-
42"	260	430	1,350	-	1,000	-	-
48"	240	400	1,300	1,600	730	1,700	-
60"	-	-	800	950	680	1,300	2,250
69"	-	-	600	900	460	1,100	1,900
72"	-	-	600	900	450	1,050	1,700
96"	-	-	-	-	240	650	1,300

\*(1) support tie except 96" which has (2).

\*\*The longest pair of beams at a given level determines the capacity for the entire level. Capacities are for steel beams only and do not reflect the capacity of the decking material.

### Important:

Wall, floor or top tie anchoring is recommended for units when the height to depth ratio exceeds 4.

Example: A 7' high x 18" deep unit has a height to depth ratio of 4.67 and should be attached to a firm restraint, such as a floor, wall or tied overhead across the aisle to an opposite upright assembly.

# Record Holders

Contrary to popular belief, paper isn't disappearing from today's business – it's growing. Office workers, copiers, computers and FAX machines are producing over one million paper documents every minute in the United States alone.

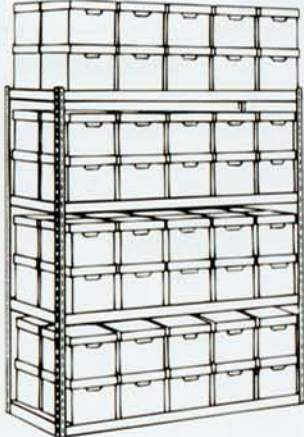
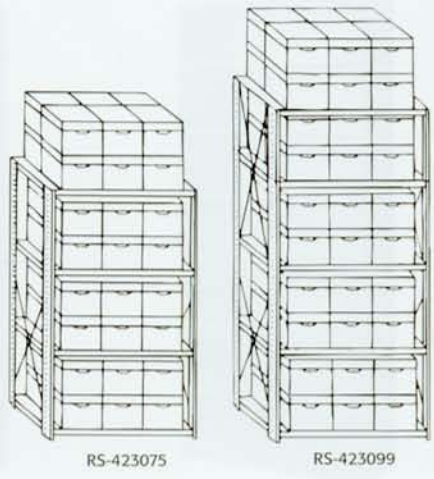
Borroughs can help you economically retain and protect your organizations growing records - and still retrieve needed information easily and quickly.

## BOX EDGE PLUS® Archival Record Storage Units

Starter Unit	Adder Unit	4 Shelf Levels	Box Capacity
RS-422475	RA-422475	42" x 24" x 6'3"	24 1.5 cu.ft.
RS-423075	RA-423075	42" x 30" x 6'3"	48 1 cu. ft.
RS-423275	RA-423275	42" x 32" x 6'3"	48 1 cu. ft.

Starter Unit	Adder Unit	5 Shelf Levels	Box Capacity
RS-422499	RA-422499	42" x 24" x 8'3"	30 1.5 cu.ft.
RS-423099	RA-423099	42" x 30" x 8'3"	60 1 cu. ft.
RS-423299	RA-423299	42" x 32" x 8'3"	60 1 cu. ft.



B6930DH47

## Rivet-Span® Archival Record Storage Units\*

Starter Unit	Adder Unit	3 Beam Levels	Box Capacity
B6915DR36	A6915DR36	69" x 15" x 6'0"	30 1 cu. ft.
B6924DR36	A6924DR36	69" x 24" x 6'0"	30 1.5 cu. ft.
B6930DH36	A6930DH36	69" x 30" x 6'0"	60 1 cu. ft.
B6948CH36	A6948CH36	69" x 48" x 6'0"	60 1.5 cu. ft.

Starter Unit	Adder Unit	4 Beam Levels	Box Capacity
B6915DR47	A6915DR37	69" x 15" x 7'0"	40 1 cu. ft.
B6924DR47	A6924DR47	69" x 24" x 7'0"	40 1.5 cu. ft.
B6930DH47	A6930DH47	69" x 30" x 7'0"	80 1 cu. ft.
B6948CH47	A6948CH47	69" x 48" x 7'0"	80 1.5 cu. ft.

Starter Unit	Adder Unit	5 Beam Levels	Box Capacity
B6915DR59	A6915DR59	69" x 15" x 9'0"	50 1 cu. ft.
B6924DR59	A6924DR59	69" x 24" x 9'0"	50 1.5 cu. ft.
B6930DH59	A6930DH59	69" x 30" x 9'0"	100 1 cu. ft.
B6948CH59	A6948CH59	69" x 48" x 9'0"	100 1.5 cu. ft.

\*Decking not included.

## BOX EDGE PLUS® X-Ray Storage Units

Starter Unit	Adder Unit	5 Bin Levels
XS-361887	XA-361887	36" x 18" x 7'3"

Starter Unit	Adder Unit	6 Bin Levels
XS-3618100	XA-3618100	36" x 18" x 8'4-1/2"



# Flexi-Bins®



FB101



FB102



FB103



FB104

## Flexi-Bins®

Versatile Borroughs' Flexi-Bins are ideal for open shelf filing, literature and binders, tools and hardware, electronic components, and small parts. These rugged, attractive storage units help protect and organize valuable inventory.

Borroughs' Flexi-Bin shelves and dividers are easily adjusted without the use of tools. Shelves may be raised or lowered when fully loaded, dividers or inventory remain in place, reducing expenses during inventory reorganization. Units are standard with #105 White backs.

## Flexi-Bin® Units 12"d x 38"w x 84"h

Catalog #	Adjustable Openings	Shelves	Sliding Dividers	
			3" h	6" h
FB101	7	6	-	-
FB102	9	8	-	-
FB103	11	10	-	-
FB104	21	6	-	14
FB105	41	8	32	-
FB106	51	10	40	-

Bin Frames	Size
PBF-12-84	12"d x 38"w x 84"h
PBF-12-96	12"d x 38"w x 96"h







FB105



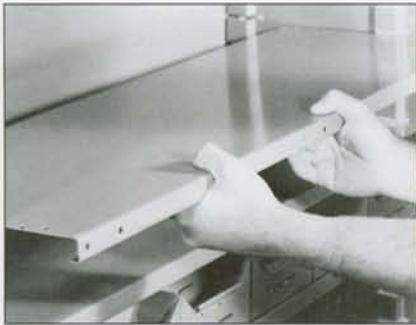
FB106



PBF-12-84



PBF-12-96



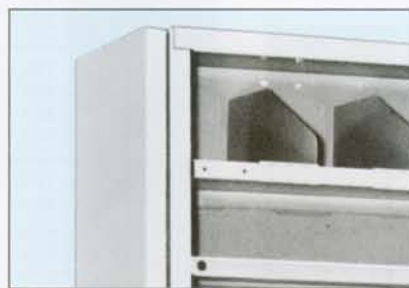
Simply add or remove slide-in shelves to match your storage needs. Shelves adjust on 1-1/2" centers and lock in place automatically.



Parts drawers may be added at any time. Each drawer can be subdivided to hold up to ten different parts. Drawers have a protective backstop to prevent removal. Each shelf will hold up to six drawers.



Sliding dividers create shelf compartments perfectly sized for your parts. No nuts, bolts, or tools are needed. *Borroughs Flexi-Bin Dividers* are sloped front and permit easy access to parts. The patented formed-in label holder is a permanent part of the divider; therefore, the label holder and label travel with the divider and parts when rearranged.



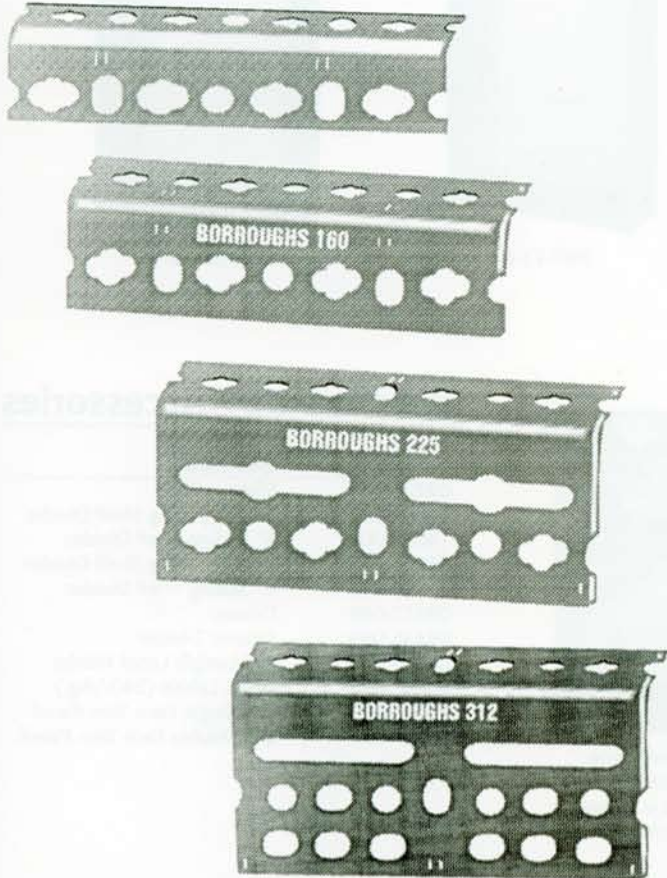
Trim panels provide a finished appearance at the end of a row of small parts bins. Single and double face trim panels are available for use with single or back-to-back rows of small parts bins.

## Components / Accessories

Catalog #	Description
02720-099	Slide-in Shelf
14066-000	1-1/2" Sliding Shelf Divider
14066-001	3" Sliding Shelf Divider
14066-002	4-1/2" Sliding Shelf Divider
14066-003	6" Sliding Shelf Divider
04432-099	Drawer
04436-099	Drawer Divider
07190-099	Full Length Label Holder
08897-099	Blank Labels (240/pkg.)
13100-000	84" Single Face Trim Panel
13101-000	84" Double Face Trim Panel

# Slotted Angle

Borroughs Slotted Angle has the versatility of wood with steel's strength and durability...And, it's available in five standard colors. Use it to build an endless variety of storage solutions. It is the ideal product for non-standard size or special item racks, carts, work tables, support framing, guard rails, etc. Solve your special storage problems easily, quickly and economically with Borroughs Slotted Angle.



# Slotted Angle

Made of strong 12 and 14 gauge hot-rolled steel with perforated hole and slot patterns to allow multiple design configurations. Pieces bolt together easily using an ordinary wrench. Stamped guard marks every 3" permit quick and simple measuring and cutting. Can be cut with slotted angle cutter, power saw, hacksaw or abrasive cutting tool.

Available in four capacity styles. Refer to capacity charts below to match angle type and configuration to your requirement. Sold only in bundles of ten pieces. Each bundle includes (75) 5/16" x 5/8" bolts with serrated shoulder nuts and (30) washers.

Catalog #	Type	Gauge	Size	Length
SA125-10	Light Duty	14	1.25" x 1.25"	10'
SA160-10	Light Duty	14	1.57" x 1.57"	10'
SA225-10	Medium Duty	14	2.38" x 1.62"	10'
SA225-12	Medium Duty	14	2.38" x 1.62"	12'
SA312-10	Heavy Duty	12	3.12" x 1.61"	10'
SA312-12	Heavy Duty	12	3.12" x 1.61"	12'

# Additional Hardware



Package of (75) 5/16" x 5/8" bolts with serrated shoulder nuts and (30) washers.

**Catalog #**  
00527-000

## Column Sections

Unsupported Length in Feet	Type	Length of Beams in Feet								
		3'	4'	5'	6'	7'	8'	9'	10'	
	125	810	590	420	290	-	-	-	-	
	160	1460	1170	970	770	-	-	-	-	
	225	1890	1420	1130	940	700	-	-	-	
	312	3490	2890	1990	1300	1060	-	-	-	
	125	1780	1240	880	600	-	-	-	-	
	160	3860	3510	3200	2700	-	-	-	-	
	225	4770	4500	4190	2840	2350	1900	1500	1050	
	312	7160	5450	5000	4550	3700	2590	2190	1740	
	125	1780	1240	880	600	-	-	-	-	
	160	3860	3510	3200	2700	-	-	-	-	
	225	4770	4500	4190	2840	2350	1900	1500	1050	
	312	7160	5450	5000	4550	3700	2590	2190	1740	

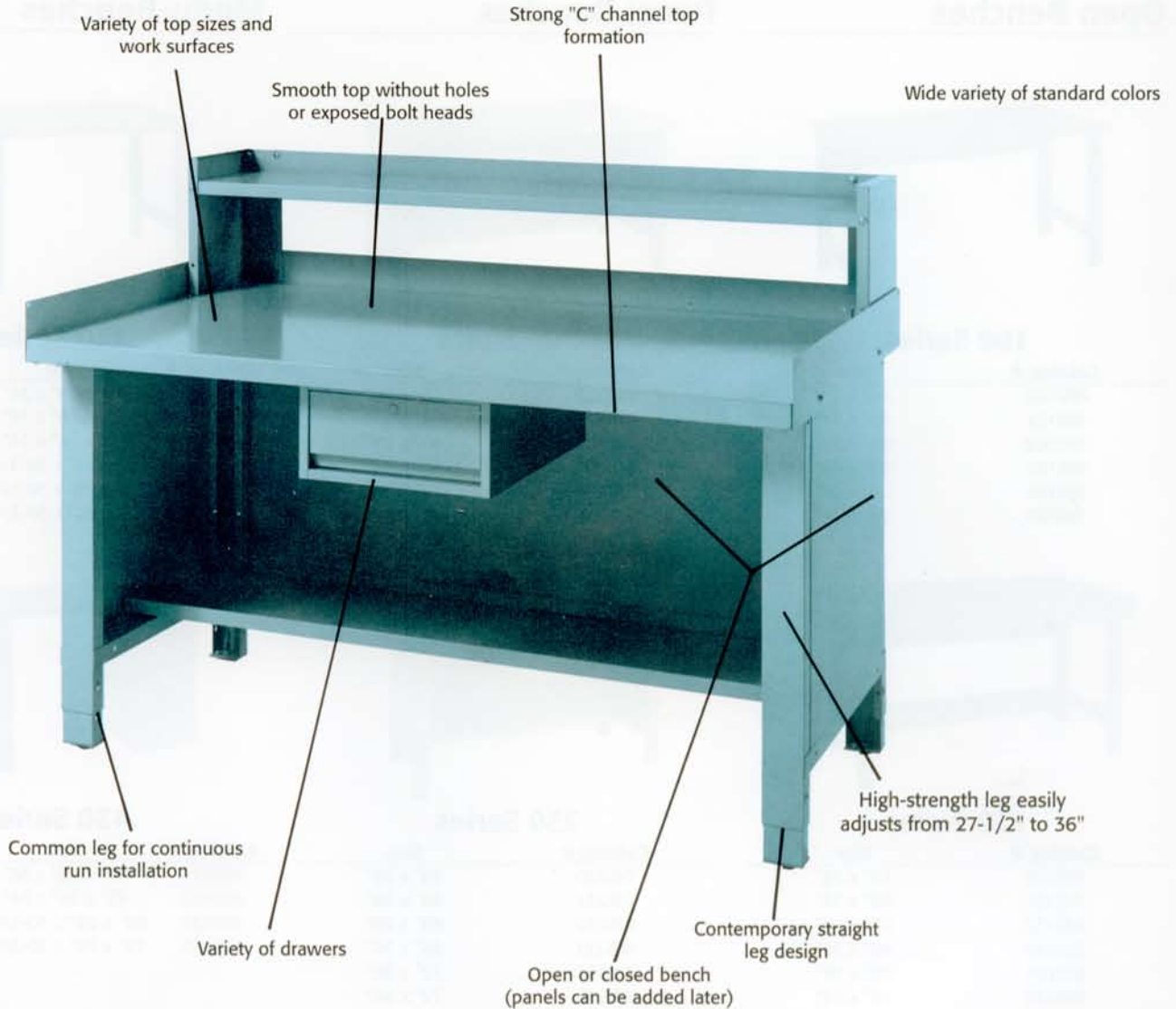
Load in pounds.  
NOTE: Upright loadings are allowable axial loads for the unsupported heights listed. If loads are eccentric, they should be reduced.

## Beam Sections

Length of Beams in Feet	Type	Length of Beams in Feet								
		3'	4'	5'	6'	7'	8'	9'	10'	
	125	510	290	-	-	-	-	-	-	
	160	820	540	370	260	-	-	-	-	
	225	1590	1120	830	640	510	410	-	-	
	312	2790	1950	1350	1050	840	660	480	-	
	125	1080	830	585	420	-	-	-	-	
	160	1390	1080	855	690	560	430	-	-	
	225	3090	2230	1690	1380	1130	910	730	580	
	312	6100	4470	3400	2730	2200	1750	1300	1090	
	125	1300	960	650	440	270	-	-	-	
	160	1680	1260	960	730	580	480	-	-	
	225	3740	2930	2300	1810	1460	1170	960	800	
	312	7860	5940	4690	3885	4330	2740	2210	1870	
	125	750	660	530	400	-	-	-	-	
	160	970	870	780	660	570	450	-	-	
	225	2170	1800	1540	1330	1160	970	860	690	
	312	4190	3580	3190	2810	2490	2190	1990	1830	
	125	-	-	-	-	-	-	-	-	
	160	-	-	-	-	-	-	-	-	
	225	6370	4680	3570	3010	2630	2340	2110	1910	
	312	12750	9650	7610	6610	5800	5100	4590	4070	

Load in pounds.  
NOTE: Combination sections are bolted together on 6" centers. All figures refer to a pair of beams carrying evenly distributed loads. For concentrated loads, these figures should be halved. The loads shown above are those which give a safety factor of 1.5 while limiting deflection.

## Shop Equipment Borrourghs Bench



### Work Benches

Borrourghs offers a wide variety of pre-configured work benches, including portable and semi-portable models. But, if none of our pre-configured models suits your exact needs, it's simple to design your own bench. Just choose the top, legs and other accessories you need.

We have a wide choice of work bench tops: steel, pressed-wood on steel, laminate tops, static dissipative tops, edge-grain hard maple, and multi-duty wood. No bolt heads or bolt holes are visible on the top surface of any Borrourghs' Work Bench.

Next, choose our standard leg, wall mount leg or any combination of modu-bench drawers and cabinets. Risers, shelves, drawers and other accessories are then added to enhance the function of your bench.

All Borrourghs bench components are constructed of heavy-duty steel for years of reliable service. Your bench can be made portable with the Borrourghs' Semi-Portable and Portable Bench Kits. These kits and our other accessories can be part of the original bench or added later as needs change.

### Add-on Units

Benches over six feet long can be built by starting with a single bench and adding one or more additional benches with only one leg assembly each. (A single center leg is shared by two benches.)

### Adjustable Bench Leg

Borrourghs' Standard Bench Leg is fully adjustable so the work surface can be set at the most comfortable height. The legs are adjustable on 1" centers and provide a height range of 27-1/2" to 36", plus, optional leveling screws to further expand the range of adjustment available.

The straight box channel style and heavy-duty construction of the leg deliver the strength of a one-piece leg and maximum versatility.

# Shop Equipment

## Benches

### Open Benches



#### 100 Series

Catalog #	Size
WB100	48" x 28"
WB101	48" x 34"
WB102	60" x 28"
WB103	60" x 34"
WB104	72" x 28"
WB105	72" x 34"

### Panel Benches



#### 200 Series

Catalog #	Size
WB200	48" x 28"
WB201	48" x 34"
WB202	60" x 28"
WB203	60" x 34"
WB204	72" x 28"
WB205	72" x 34"

### Modu-Benches



#### 420 Series

Catalog #	Size	Notes
MB420	48" x 28" x 34"	with base
MB421	60" x 28" x 34"	with base
MB422	72" x 28" x 34"	with base
MB426	48" x 28" x 30-3/4"	without base
MB427	60" x 28" x 30-3/4"	without base
MB428	72" x 28" x 30-3/4"	without base



#### 130 Series

Catalog #	Size
WB130	48" x 28"
WB131	48" x 34"
WB132	60" x 28"
WB133	60" x 34"
WB134	72" x 28"
WB135	72" x 34"



#### 230 Series

Catalog #	Size
WB230	48" x 28"
WB231	48" x 34"
WB232	60" x 28"
WB233	60" x 34"
WB234	72" x 28"
WB235	72" x 34"



#### 430 Series

Catalog #	Size	Notes
MB431	60" x 28" x 34"	with base
MB432	72" x 28" x 34"	with base
MB434	60" x 28" x 30-3/4"	without base
MB435	72" x 28" x 30-3/4"	without base



#### 160 Series

Catalog #	Size
WB160	48" x 28"
WB161	48" x 34"
WB162	60" x 28"
WB163	60" x 34"
WB164	72" x 28"
WB165	72" x 34"



#### 250 Series

Catalog #	Size
WB250	48" x 28"
WB251	48" x 34"
WB252	60" x 28"
WB253	60" x 34"
WB254	72" x 28"
WB255	72" x 34"



#### 440 Series

Catalog #	Size	Notes
MB441	60" x 28" x 34"	with base
MB442	72" x 28" x 34"	with base
MB444	60" x 28" x 30-3/4"	without base
MB445	72" x 28" x 30-3/4"	without base

NOTE: All work benches shown on this page include a steel top. To order any one of the benches with an optional top, just add the proper suffix to the catalog number, deduct the price of the steel top and add the price of the desired top.

PW: Pressed Wood on Steel Top  
 MT: Edge-Grain Hard Maple Top  
 MD: Multi-Duty Wood Top  
 RL: Radiused Edged Laminate Top  
 LM: Laminate Top  
 SD: Static Dissipative Top

## Electronics Bench

This bench combines the convenience of a riser with the electric outlets\* needed for so many tasks. Ideal for electronics applications, especially those requiring bulky instruments, the riser also creates excellent storage area and electrical supply for power tools.

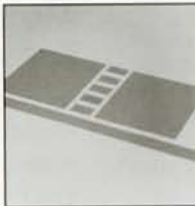
Catalog #	Size
WB190	48" x 28"
WB191	48" x 34"
WB192	60" x 28"
WB193	60" x 34"
WB194	72" x 28"
WB195	72" x 34"

\*Electrical outlets and wiring not included.

## Electronics Riser Cover Kit

Kit contains steel panels to cover inside of riser preventing accidents caused by exposed wires. Also included are panels to cover unused outlet openings.

Catalog #	Size
11014-000	48"
11014-001	60"
11014-002	72"



## Wall Mount Bench

Borroughs' wall mount bench fastens directly to the wall and needs no contact with the floor. This makes clean-up as easy as running a broom under the bench. No legs get in the way or create hard to reach places where dirt and refuse collect.

Catalog #	Size
WMB300	48" x 28"
WMB302	60" x 28"
WMB304	72" x 28"
WMB305	72" x 34"



## Wall Mount Leg

Our new wall mount leg is also available as an accessory for existing or custom benches. Legs come in pairs only and require steel attachment channels for use with wood or laminate tops.

Catalog #	Size
11000-000	28" to 34" deep



# Shop Equipment

## Components and Accessories

### Work Bench Tops

Your choice of work bench tops is essential for maximum safety and performance. Our range of top materials has been selected specifically to provide the flexibility you need.



### Work Bench Leg



The Borroughs work bench leg allows for height adjustment from 27-1/2" to 36" on 1" centers (first adjustment 1-1/2"). Work surfaces can be set at most comfortable height to reduce fatigue and improve productivity. In the future, benches can be reconfigured as personnel turn over or the needs of your business change. One size fits all standard Borroughs Bench Tops.

Catalog #	Size
14228-000	27-1/2" to 36" h x 28" and 34" d

### Steel Tops

Perfect for most types of heavy-duty work. Won't absorb oil or dirt. Will not shrink, split or splinter. Easy to clean and refinish. Tops 12 gauge steel with channel formations front and rear for maximum rigidity.

Catalog #	Size
14881-000	48" x 28" x 1-3/4"
14881-001	48" x 34" x 1-3/4"
14881-002	60" x 28" x 1-3/4"
14881-003	60" x 34" x 1-3/4"
14881-004	72" x 28" x 1-3/4"
14881-005	72" x 34" x 1-3/4"

### Pressed Wood on Steel Tops

Facing of 1/8" treated hardboard in natural finish bonded to a standard steel top.

Catalog #	Size
14883-000	48" x 28" x 1-7/8"
14883-001	48" x 34" x 1-7/8"
14883-002	60" x 28" x 1-7/8"
14883-003	60" x 34" x 1-7/8"
14883-004	72" x 28" x 1-7/8"
14883-005	72" x 34" x 1-7/8"

### Laminate Tops

High pressure laminate in a grey linen-look finish over medium density industrial-grade particle board.

Catalog #	Size
11020-000	48" x 28" x 1-5/8"
11020-001	48" x 34" x 1-5/8"
11020-002	60" x 28" x 1-5/8"
11020-003	60" x 34" x 1-5/8"
11020-004	72" x 28" x 1-5/8"
11020-005	72" x 34" x 1-5/8"

### Radius Edge Laminate Tops

Almond-colored high pressure laminate over medium density industrial-grade particle board. Radius front edge provides improved aesthetics and employee comfort.

Catalog #	Size
11018-000	48" x 28" x 1-3/4"
11018-001	48" x 34" x 1-3/4"
11018-002	60" x 28" x 1-3/4"
11018-003	60" x 34" x 1-3/4"
11018-004	72" x 28" x 1-3/4"
11018-005	72" x 34" x 1-3/4"

### Static Dissipative Tops

Perfect for delicate electronic work or any application where static is a problem. Top is composed of special static dissipative almond-colored high pressure laminate, with a rounded front edge, over medium density industrial-grade particle board.

Catalog #	Size
11019-000	48" x 28" x 1-3/4"
11019-001	48" x 34" x 1-3/4"
11010-002	60" x 28" x 1-3/4"
11019-003	60" x 34" x 1-3/4"
11019-004	72" x 28" x 1-3/4"
11019-005	72" x 34" x 1-3/4"

### Ground Strap

Catalog #
11021-000

### Multi-Duty Wood Tops

For maximum resiliency. Provides a non-conductive, warp-and splinter-proof top that protects delicate and finished parts. Composition wood core is faced on both sides with 3/16" tempered hardboard and edged with hard maple and has a hot-lacquer finish.

Catalog #	Size
00428-062	48" x 28" x 1-3/4"
00434-062	48" x 34" x 1-3/4"
00528-062	60" x 28" x 1-3/4"
00534-062	60" x 34" x 1-3/4"
00628-062	72" x 28" x 1-3/4"
00634-062	72" x 34" x 1-3/4"

### Solid Maple Tops

Ideal for electrical, woodworking, tool-making and instrument work. Sanded satin smooth and has a lacquer finish.

Catalog #	Size
00428-061	48" x 28" x 1-3/4"
00434-061	48" x 34" x 1-3/4"
00528-061	60" x 28" x 1-3/4"
00534-061	60" x 34" x 1-3/4"
00628-061	72" x 28" x 1-3/4"
00634-061	72" x 34" x 1-3/4"

# Shop Equipment Components and Accessories

## Leveling Screw (pair)



Allows for easy height adjustment and leveling of the unit on irregular and uneven surfaces. Each leg adjusts independently without having to tip the unit. Available in pairs only.

**Catalog #**  
14825-000

## Stringer



Made of 18 gauge steel. Eliminates sway and adds rigidity to work bench. Attaches to the back two legs. May also be used as a shelf backstop. Stringer is 5" high with 3/4" flanges. One required for each bench.

Catalog #	Size
14827-000	48"
14827-001	60"
14827-002	72"

## Bottom Shelf



Made of heavy-gauge steel, 15" deep, with a formed lip in front and a 1" flange in back. Attaches to cross rails of work bench legs.

Catalog #	Size
14826-000	48" x 15"
14826-001	60" x 15"
14826-002	72" x 15"

## Foot Rest



Used when a bottom shelf is not needed on open work benches, adding extra rigidity. Bolted to cross rails of leg assemblies. Box channel, 16 gauge steel.

Catalog #	Size
14879-000	48"
14879-001	60"
14879-002	72"

## Enclosure Panels



Enclosed bench for protection of stored materials, plus serves as a modesty panel.

Back Panels		End Panel	
Catalog #	Size	Catalog #	Size
14853-000	48" x 21"	14852-000	28" x 34"
14853-001	60" x 21"		
14853-002	72" x 21"		

## Back Guard and End Guard



Back guards prevent material from falling off bench at rear. Project 3" above bench top and are punched for bolting to top and end guards.

End guards prevent material from falling off ends of single or joined benches. Punched for bolting to top.

Back Guards		End Guards	
Catalog #	Size	Catalog #	Size
14824-000	48"	14822-000	28"
14824-001	60"	14822-001	34"
14824-002	72"		

## Ledge or Top Shelf



Keeps tool boxes, testing equipment, etc., off working surface. Pierced for bolting to back guard or top. Can be tiered to provide shelf-on-shelf arrangement.

Catalog #	Size
14851-000	48" x 10"
14851-001	60" x 10"
14851-002	72" x 10"

## Electronic Riser



Electronic riser provides a power source\* without the use of cumbersome extensions cords as well as a handy shelf for tools or bulky instruments. Dimensions: 18"h x 14"d (interior height is 15-1/2").

Electrical knock-outs are 1-3/8"h and are spaced as follows: 48" unit: 15" center-to-center • 60" unit: 21" center-to-center • 72" unit: 27" center-to-center.

Riser Catalog #	Size	Cover Kit Catalog #
11013-000	48"	11014-000
11013-001	60"	11014-001
11013-002	72"	11014-002

\*Electrical outlets and wiring not included.

## Semi-Portable Kit



Kit includes two wheels with leg cleat and two handles for opposite end of bench. Leg, with wheel assembly, is adjusted to a shorter position than handle end. The handles telescope.

Catalog #	Size
14854-000	28" and 34"d

## Portable Kit



Consists of foot supports and four easy-rolling 4" diameter casters (two are braking). Stems are easily bolted to foot plates with special threaded stems, and can be attached to a Borroughs Bench at any time to provide complete mobility.

Catalog #	Size
14845-000	4" diameter

# Shop Equipment

## Components and Accessories

### Tier Drawers



Made of 20 gauge steel. Used with work benches, modu-benches or as free-standing units. Welded heavy-gauge steel construction and enclosed for the protection of contents. Can be mounted individually beneath the bench, side-by-side, or hanging in tiers.

Borroughs' Drawers are designed to be tiered and have "dimples" for stacking. A base for stacked units is also available. Drawers slide easily on steel rollers and guides.

Catalog #	Size
14865-000	15-1/4" x 20" x 7-1/4"
14865-001	21-1/4" x 20" x 7-1/4"

### Tier Drawer Tray



Holds small tools, parts and instruments conveniently away from main contents of drawer. Rests on flanges on the tier drawer.

Catalog #	Size
14880-000	15-1/4"
14880-001	21-1/4"

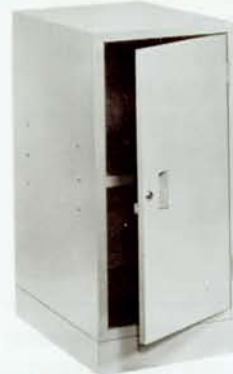
### Modu-Drawer Unit



Made of 20 gauge steel. Provides four large drawers. Each drawer can be used with an optional grooved key lock or padlock hasps. Rollers and guides assure years of smooth operation.

Catalog #	Size
MDU15	15-1/4" x 20" x 29"
MDUB15	15-1/4" x 20" x 32-1/4"
MDU21	21-1/4" x 20" x 29"
MDUB21	21-1/4" x 20" x 32-1/4"

### Modu-Bench Cabinet



Made of 22 gauge steel. Can be positioned with either end up for left-or-right-hand opening. Recessed handle. Door has knock-out for optional grooved key lock sets. One shelf included, adjustable in three positions.

Catalog #	Size
00290-056	15-1/4" x 20" x 29"

### Tier Support



Attach to underside of steel tops for support of tier drawers and hanging drawer pedestals. Bolts in front and rear, and allows positioning of drawer anywhere along underside of top. Available in pairs only.

Catalog #	Size
14823-000	28"
14823-001	34"

### Tier Drawer/Modu-Cabinet Base

Made of 20 gauge steel. Two sizes available. Flanged at top and bottom, with dimples matching the drawers for easy stacking. Adds 3-1/4" to bench height. Use 15-1/4" width base for Modu-Bench Cabinets.

Catalog #	Size
14887-000	15-1/4" x 20" x 3-1/4"
14887-001	21-1/4" x 20" x 3-1/4"



### Grooved Key Lock



For added tier drawer-unit security. Install simply and easily at any time. Each lock keyed differently. Master keys are available.

Catalog #
00000-037

### Padlock Hasps

Padlock hasps enable you to use a padlock to secure your Modu-Bench drawer or cabinet unit.

Catalog #
00298-000



## Shop Equipment

### Shop Desks / Utility Carts

#### Sloping-Top Shop Desk



Open-Type  
Sloping-Top  
Shop Desk

Sloping-top shop desk includes a compartmentalized ledge, and a large enclosed storage area under the hinged writing surface. A handy cabinet kit allows you to convert the open-type shop desk into a cabinet desk at any time. Desks can be made fully portable by adding casters.

Catalog #	Width	Depth	Height at Front Edge
Open-Type Sloping-Top Shop Desk 14804-000	33"	30"	40"
Cabinet Kit Only 00330-055	33"	30"	-
Shop Desk Casters (set of four 2" wheels) 00330-048	-	-	-



Shop Desk  
with Cabinet Kit

#### Industrial Grade Utility Cart



Four 5" rubber-tired casters on this rugged cart make the going easy, even in carpeted areas. Each of the two shelves is 3-1/2" deep, with hemmed edges for a smooth finish. The top shelf can be inverted when a flat surface is desired.

Convenient push-bar type handle gives full control for steering cart. Swiveled casters at handle end, fixed casters at the other end.

Catalog #	Width	Depth	Height
00160-043	16"	30"	32"
00240-043	24"	36"	32"

#### Extra Shelves (for utility carts)



Shown with  
extra shelf

Extra shelves are available for additional storage. These shelves can be inverted when a flat surface is desired.

Catalog #	Width	Depth	Height
06707-000	16"	30"	3-1/2"
06721-000	24"	36"	3-1/2"

#### Commercial Grade Utility Cart



Shown with top  
shelf inverted

Borrighs Service Carts are strong, durable, lightweight, and are a highly versatile addition to any work area.

Shelves are 3-1/2" deep. The top shelf can be inverted to provide a flush surface. 5" casters provide for smooth, easy movement on any surface.

Catalog #	Width	Depth	Height
SC-1630	16"	30"	32"
SC-2430	24"	30"	32"

# Shop Equipment

## Workplace Uses



Mobile Work Station



Electronics Workstation



Workstation in Distribution Center



Appliance Repair Facility



Upholstery Roll Rack



Repair Stations

Color can have a far reaching impact on your storage system. Not only can it be used to make your operation more attractive, it can make it more efficient as well. Workers have higher morale in an attractive atmosphere and thus are more productive.

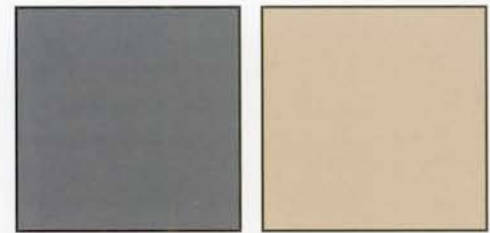
Borroughs has one of the broadest color selections available, and a painting and finishing facility of unsurpassed quality. Each component of our shelving is prepared for painting using a six-stage phosphatized treatment prior to application of polyester paint, then oven-cured at 350° for a more durable finish. All of this combines to give you the best possible finish on your storage products.

Also, Borroughs shelving comes standard with white backs. White backs reflect existing light, illuminating stored items to reduce picking errors and improve inventory control.

## Colors

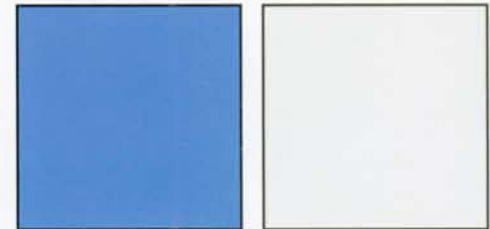
Product	#065 Gray	#022 Sierra	#240 Blue	#105 White	#161 Mist Gray
Steel Shelving	Std.	Std.	Std.	Std.	Std.
HD Drawers	Std.	Std.	Std.	Std.	Std.
Flexi-Bins®	Std.	Std.	Std.	Std.	Std.
Rivet-Span®	Std.	Std.	Std.	Std.	Std.
Slotted Angle	Std.	Std.	Std.	Std.	Std.
Shop Equipment	Std.	Std.	Std.	N/A	N/A
Citation®	Std.	Std.	N/A	N/A	N/A

NOTE: HD Drawer Partitions are #161 Mist Gray; Dividers are Galvanized Steel.  
Flexi-Bin Back Panels, Shelf Box Partitions and Bin Drawer Dividers are #105 White.



#065 Gray

#022 Sierra



#240 Blue

#105 White

These colors are reproduced as closely as possible to actual shades. However, for true colors, please send for metal color chips.



#161 Mist Gray



White steel shelving units provide attractive, modern, small item storage for the back room of this architecture supply retailer. The white color of the units also reflects available room light reducing the need for high wattage lighting.

## Phosphatized to Last



All Borroughs Shelving Components are phosphatized for better paint adhesion and lasting durability.



Without phosphatizing, a nick or scratch in the finish will quickly result in rust "creepage".



A phosphatized component will only rust where metal is exposed. The rust will not spread to the surrounding area.