



RIVET SPAN®

 **Material Handling USA**
800-326-4403

 **Borroughs**

Why Rivet-Span®?

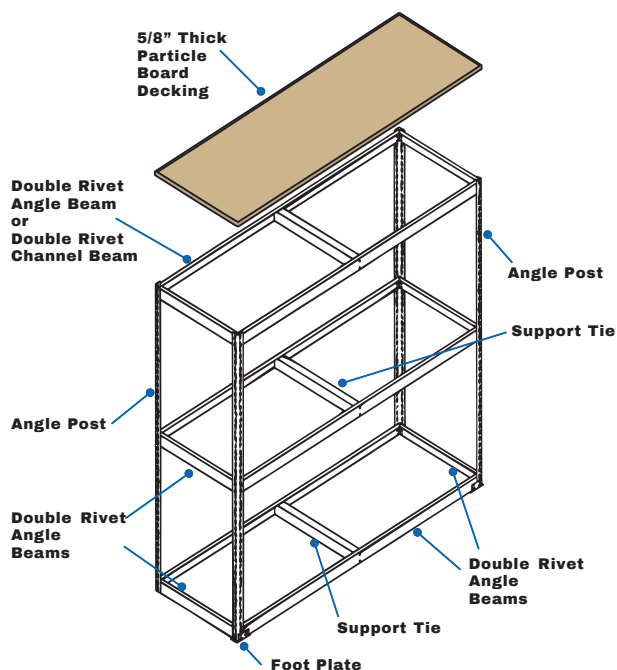


Rivet-Span is an economical and versatile hand-load storage product that is incredibly easy to assemble, yet strong. It starts with a simple, economical design. A unit consists of posts, horizontal beams and wood decking. A variety of beams are available to accommodate a wide range of loads, providing spans and depths wider and greater than conventional shelving. Beams have high strength shoulder rivets that engage double keyhole post slots to form a strong and rigid unit. All components are universal (no lefts or rights, fronts or backs). Without the hassle of nuts, bolts, clips or cross braces, Rivet-Span installation is quick and easy.

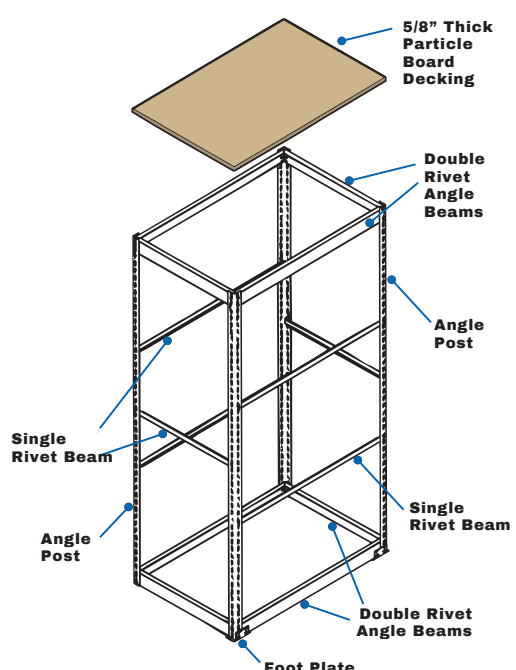
| ECONOMICAL | STRONG | SIMPLE ASSEMBLY | FLEXIBLE |
|---|--|--|---|
| <ul style="list-style-type: none"> • Low initial investment reduces shelving costs • Quick labor saving installation reduces set-up costs • Sizes to eliminate costly decking material cutting charges | <ul style="list-style-type: none"> • Steel frame construction extends shelving life • Rigid boltless connection between posts and beams • Secure double key hole and shoulder rivet connections | <ul style="list-style-type: none"> • All pieces universal <ul style="list-style-type: none"> - No lefts or rights - No fronts or backs - No tops or bottoms • Requires no cross or sway braces | <ul style="list-style-type: none"> • 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 |

Primary Components

BULK STORAGE UNIT



SHELVING UNIT



Rivet-Span® Types

Bulk Storage Units are 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 can 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



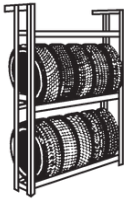
Specialty Units are limited only by the imagination of the individual. The most obvious use is archival records storage. However, specialty units are perfect for many hard-to-store items and can include the following:

- Counter high units
- Tire racks
- Workbenches
- Packing or receiving tables
- Garment hang rod units

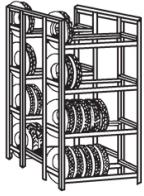
Beam Profiles



Tire Racks



Single Entry



Double Entry

TIRE RACKS

| Starter Unit | Adder Unit Catalog | Unit Width | Unit Depth | Unit Height | Beam Levels |
|--------------|--------------------|------------|------------|-------------|-------------|
| B60SETB37 | A60SETB37 | 60 | 12 | 7' | 3 |
| B60SETB40 | A60SETB40 | " | " | 10 | 4 |
| B60SETB52 | A60SETB52 | 60 | 12 | ' | 5 |
| B60DETB37 | A60DETB37 | " | " | 12 | 3 |
| B60DETB40 | A60DETB40 | 60 | 12 | ' 7' | 4 |
| B60DETB52 | A60DETB52 | " | " | 10 | 5 |

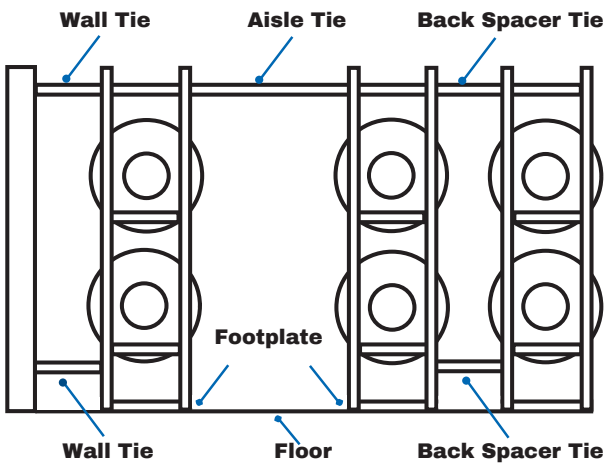
60 42 '
" " 12



The Rivet-Span Tire rack has a specially designed angled tire beam to "nest" the tires and wheels.

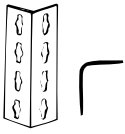


Automotive dealerships use hanging racks for items such as; floor mats, mufflers, shrouds, etc...



**Accessories in use with tire racks
(END VIEW)**

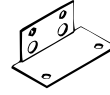
Components and Accessories



ANGLE POST

Standard duty upright post. Supplied with starter units. Use on freestanding units and row ends of units or runs of units. 1.57" x 1.57"; 14 gauge. Punched on 1-1/2" centers

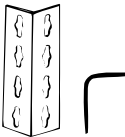
| Catalog No. | Size | Catalog No. | Size |
|-------------|------|-------------|-------|
| 10061-000 | 6'0" | 10061-003 | 9'0" |
| 10061-001 | 7'0" | 10061-004 | 10'0" |
| 10061-002 | 8'0" | 10061-006 | 12'0" |



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 No.
10103-000



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.

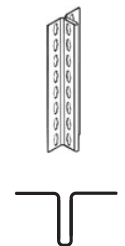
| Catalog No. | Size | Catalog No. | Size |
|-------------|-------|-------------|-------|
| 10060-000 | 6'0" | 10060-006 | 12'0" |
| 10060-001 | 7'0" | 10060-008 | " |
| 10060-002 | 8'0" | 10060-009 | 14'0" |
| 10060-003 | 9'0" | 10060-010 | " |
| 10060-004 | 10'0" | | 15'0" |
| | | | " |
| | | | 16'0" |
| | | | " |



TIE PLATE - ANGLE POST

Connects posts of adjacent angle post units to insure structural stability and alignment. 4" x 2.66"; 14 gauge.

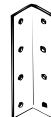
Catalog No.
RSS-0070-000



T POST

Common post between adjoining units to create economical starter and adder units. Supplied with adder units. Use as shared intermediate post between units on runs of units and also on row end of back-to-back units. 3.34" x 1.57"; 14 gauge. Punched on 1-1/2" centers.

| Catalog No. | Size | Catalog No. | 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 SLICER - ANGLE POST

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

Catalog No.
10065-000



Z TIE

Used with Z Beam to support decking material.

| Catalog No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 10110-003 | 24" | 10110-005 | 36" |
| 10110-004 | 30" | 10110-006 | 42" |
| 10110-012 | 32" | 10110-007 | 48" |



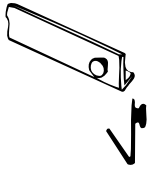
POST SLICER - T POST

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

Catalog No.
10145-000

Components and Accessories

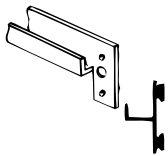
TIE PLATE - ANGLE POST



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

| Catalog No. | Size | Catalog No. | 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



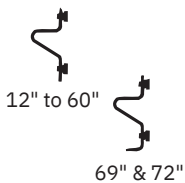
Heavier duty left-to-right support shelf decking. 1-1/4" high; 14 gauge.

| Catalog No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 16330-091 | 36" | 16331-011 | e |
| 16331-001 | 42" | | 48" |

DOUBLE RIVET Z BEAM

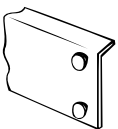


Reduced profile left-to-right and front-to-back support recesses decking to provide additional vertical storage space and protect decking edges. 2-1/4" high; 14 gauge.



| Catalog No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 10142-000 | 12" | 10142-005 | e |
| 10142-001 | 15" | 10142-006 | 36" |
| 10142-002 | 18" | 10142-007 | 42" |
| 10142-003 | 24" | 10142-008 | 48" |
| 10142-004 | 30" | 10144-009 | 60" |
| 10142-012 | 32" | 10144-010 | 69" |
| | | | 72" |

DOUBLE RIVET ANGLE BEAM



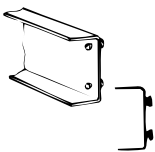
Standard left-to-right and front-to-back support for bulk storage decking and top and bottom level shelf decking. 2-5/8" x 7/8"; 14 gauge.



* Punched to accept Record Storage Support Angle.

| Catalog No. | Size | Catalog No. | 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" | | |

DOUBLE RIVET CHANNEL BEAM

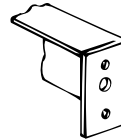


Higher capacity left-to-right support for bulk storage decking. 3" x 7/8"; 14 gauge. Channel beams cannot be located directly at floor level due to their longer face. For a beam level directly at floor level, use angle beams with support ties.

* Punched to accept Record Storage Support Angle.

| Catalog No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 10070-007 | 48" | 10070-010 | 72" |
| 10070-008 | 60" | 10070-013 | 84" |
| 10070-009 | 69" | 10070-011 | 96" |
| 10098-009* | 69" | | |

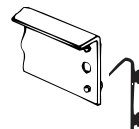
SUPPORT TIE



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 No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 10072-000 | 12" | 10072-004 | e |
| 10072-001 | 15" | 10072-012 | 30" |
| 10072-002 | 18" | 10072-005 | 32" |
| 10072-003 | 24" | 10072-006 | 36" |
| | | 10072-007 | 42" |
| | | | 48" |

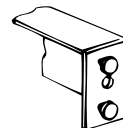
TIRE BEAM



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

| Catalog No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 10077-005 | 36" | 10077-008 | e |
| 10077-007 | 48" | | 60" |

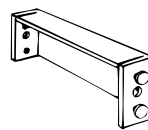
AISLE TIE



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 No. | Size | Catalog No. | Size |
|-------------|------|-------------|------|
| 10073-000 | 30" | 10073-002 | e |
| 10073-001 | 36" | 10073-003 | 42" |
| | | | 48" |

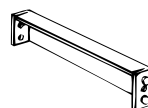
BACK SPACER TIE



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

| Catalog No. | Size |
|-------------|------|
| 10079-000 | e |
| | 18" |

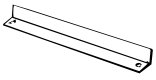
WALL TIE



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 No. | Size |
|-------------|------|
| 10075-000 | e |
| | 9" |

Components and Accessories



RECORD STORAGE SUPPORT ANGLE

1-17/32" high; 14 gauge.

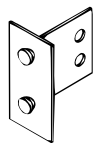
| Catalog No. | Size |
|-------------|------------|
| 10099-000 | e |
| 10099-001 | 15" 30" |



HANG ROD

NEW DESIGN now features a full 5/8" radius that is ideally suited for standard clothing hangers. One or more may be used per level. Support at each end by either double rivet angle or channel beams. Fabricated from 14 gauge Galvanized material.

| Catalog No. | Size | Catalog No. | Size |
|---------------|------|---------------|------|
| 10104-012-000 | 36" | 10104-014-000 | 60" |
| 10104-013-000 | 48" | | |



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 No. | Size |
|-------------|-------|
| 10113-000 | Right |
| 10113-001 | Left |



RIVET SPAN SOLID DECKING GALVANNEAL

Galvanneal decking is a solid decking option. 18 gauge.

| Catalog No. | Size | Catalog No. | Size |
|-------------|-----------|-------------|---------|
| R1-SDG4812 | 48" x 12" | R1-SDG7212 | 72" x |
| R1-SDG4818 | 48" x 18" | R1-SDG7218 | 12" 72" |
| R1-SDG4824 | 48" x 24" | R1-SDG7224 | x 18" |
| R1-SDG4830 | 48" x 30" | R1-SDG7230 | 72" x |
| R1-SDG4836 | 48" x 36" | R1-SDG7236 | 24" 72" |
| R1-SDG4842 | 48" x 42" | R1-SDG7242 | x 30" |
| R1-SDG4848 | 48" x 48" | R1-SDG7248 | 72" x |
| R1-SDG6012 | 60" x 12" | R1-SDG9612 | 36" 72" |
| R1-SDG6018 | 60" x 18" | R1-SDG9618 | x 42" |
| R1-SDG6024 | 60" x 24" | R1-SDG9624 | 72" x |
| R1-SDG6030 | 60" x 30" | R1-SDG9630 | 48" 96" |
| R1-SDG6036 | 60" x 36" | R1-SDG9636 | x 12" |
| R1-SDG6042 | 60" x 42" | R1-SDG9642 | 96" x |
| R1-SDG6048 | 60" x 48" | R1-SDG9648 | 18" 96" |
| | | | x 24" |
| | | | 96" x |
| | | | 30" 96" |
| | | | x 36" |
| | | | 96" x |
| | | | 42" 96" |

For Wire Decking Pricing, please contact your Regional Manager



Aisle



Full Mat

AISLE/FULL MAT DECKING SUPPORT

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 No. | Size | Catalog No. | Size |
|-------------|------|-------------|------------|
| 10111-005 | 36" | 10111-008 | e |
| 10111-006 | 42" | 10111-009 | 60" |
| 10111-007 | 48" | 10111-010 | 69" 72" |



PARTICLE BOARD DECKING

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

| Catalog No. | Size | Catalog No. | Size | Catalog No. | Size |
|-------------|-----------|-------------|-----------|-------------|---------|
| 10095-000 | 36" x 12" | 10095-012 | 48" x 18" | 10095-024 | 69" x |
| 10095-001 | 36" x 15" | 10095-013 | 48" x 24" | 10095-035 | 30" 69" |
| 10095-002 | 36" x 18" | 10095-014 | 48" x 30" | 10095-025 | x 48" |
| 10095-003 | 36" x 24" | 10095-015 | 48" x 36" | 10095-026 | 72" x |
| 10095-004 | 36" x 30" | 10095-016 | 48" x 48" | 10095-027 | 18" 72" |
| 10095-005 | 42" x 12" | 10095-017 | 60" x 18" | 10095-028 | x 24" |
| 10095-006 | 42" x 15" | 10095-018 | 60" x 24" | 10095-029 | 72" x |
| 10095-007 | 42" x 18" | 10095-019 | 60" x 30" | 10095-041 | 30" 72" |
| 10095-008 | 42" x 24" | 10095-020 | 60" x 36" | 10095-030 | x 36" |
| 10095-009 | 42" x 30" | 10095-021 | 60" x 48" | 10095-031 | 72" x |
| 10095-010 | 48" x 12" | 10095-022 | 69" x 15" | 10095-032 | 48" 84" |
| 10095-011 | 48" x 15" | 10095-023 | 69" x 24" | 10095-033 | x 36" |
| | | | | 10095-034 | 96" x |
| | | | | | 18" 96" |

Particle board decking, 5/8" (.625) thick, is available pre-cut from Borroughs. It can also be obtained from your local building material supplier. 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.

When supplying your own decking material, cut the decking to the nominal unit size (1.25) (1.25). If single rivet beams or double rivet low profile beams are being used in the front-to-back position, cut the decking material 3/16" (.188) under the nominal unit depth for easier assembly.

Similarly, if either of these types of beams are being used in the front-to-back position to the decking, also cut the decking material 3/16" (.188) under the nominal unit width.

INTERMIX BEAM FAMILIES ON THE SAME BEAM LEVEL

These beam families can be intermixed without decking

- problems: • Single Rivet Beams
- Double Rivet Low Profile Beams

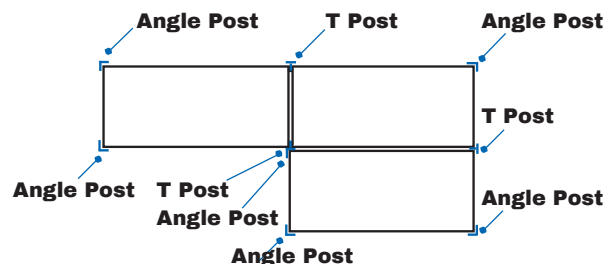
The above groupings cannot be intermixed and support decking.

- Double Rivet Angle Beams
- Double Rivet Channel Beams

These beam families can be intermixed without decking

problems:

UNITS/POSTS OVERHEAD VIEW



Specification Data

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

BEAM CAPACITIES

Maximum Uniformly Distributed Loads/Pounds Per Beam Pair

| Beam Length | Single Rivet Low Profile 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 | - | - |
| 42" | 260 | 430 | 1,350 | - | - |
| 48" | 240 | 400 | 1,300 | 1,700 | - |
| 60" | 800 | 950 | 680 | 1,300 | - |
| 69" | 600 | 900 | 460 | 1,100 | 2,250 |
| 72" | 600 | 900 | 450 | 1,050 | 1,900 |
| 96" | - | - | 240 | 650 | 1,700 |
| | | | | | 1,300 |

- One support tie except 96" which has two support ties.
- 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.

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

CALCULATED POST CAPACITIES

Pounds Allowable Load Per Post

| Maximum Beam Spacing 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 where seismic forces are not a factor.

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

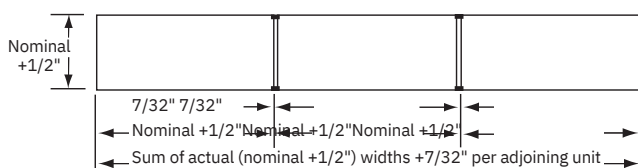
Nominal unit depth = 12", 15", 18", 24", 30", 32", 36", 42" or 48"
Actual single unit depth = nominal depth +1/2"
Actual back-to-back units depth = combined actual single unit depths +7/32"

HEIGHTS

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

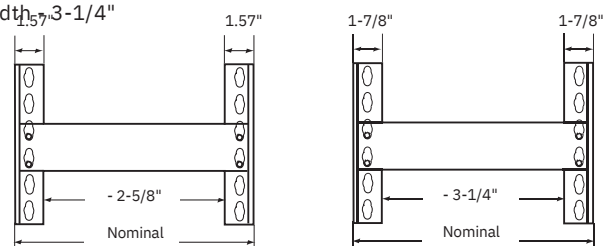
LENGTH OF RUN

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



HORIZONTAL CLEAR OPENINGS

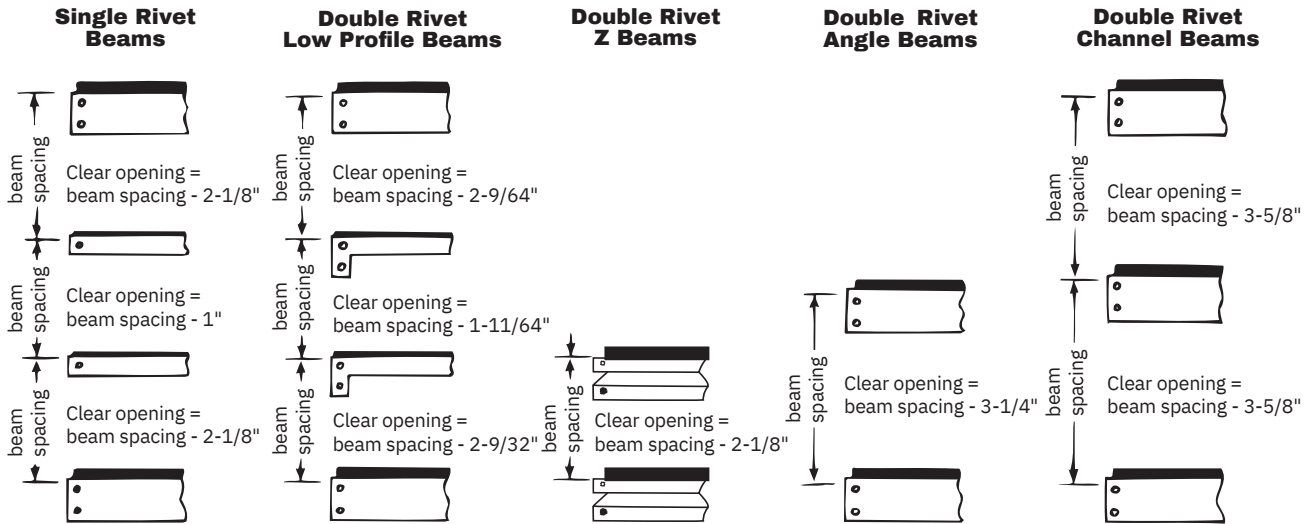
Actual clear opening between angle posts = nominal width - 2-5/8"
Actual clear opening between heavy-duty angle posts = nominal width - 3-1/4"



Specification Data

VERTICAL ADJUSTMENT AND CLEAR OPENINGS

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



Vertical clearance calculated using 5/8" thick decking material

Borroughs Standard Powder Coat Colors

Borroughs powder coat finishes are high quality, durable and inert. Borroughs offers 7 standard colors. We also offer custom color matching, using Borroughs computerized technology. The colors depicted on this publication have been reproduced using a printing process and are only provided as a guide. The actual painted product may vary. All colors are not available on all products.

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