CRESSWELL

RACKING CATALOGUE 2012

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Cresswell industries, pioneers in the transformation of steel.

Located in Quebec for more than 50 years, Cresswell Industries Inc. evolves constantly to become a world leader in the domain of steel transformation. Our diversified clientele, that we find exploiting the soil of the Nordic mines to the manufacturing of household appliances, demonstrates the diversification of the potential of the products offered by Cresswell Industries Inc.

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THE CRESSWELL ADVANTAGES

Through the Nova's steel group, Cresswell is using only premium steel class quality in a wide variety of gage in galvanized or painted steel. Mill's tests are always available upon customer request to assure quality.

All painted products at Cresswell are using electro-magnetic powder painting process, making them more rust resistant and provided long-life durability.

Cresswell is part of sustainable development politic, making day-to-day efforts for next generation.

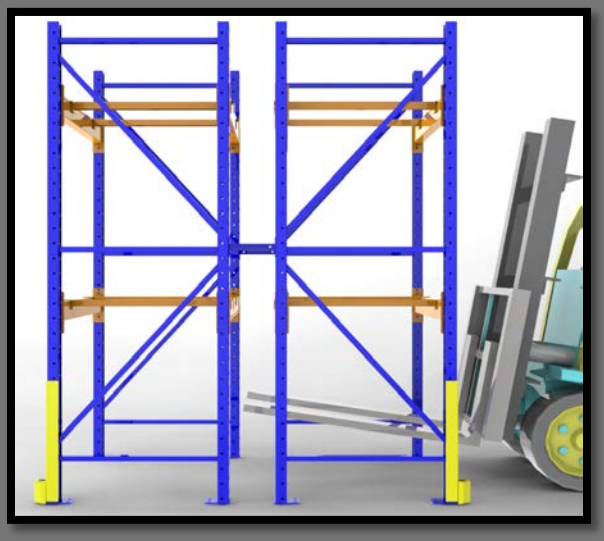
Cresswell is proud to be a registered member of the Canadian Welding Bureau and ISO 9001 quality standards. All racking products are made using that quality and in accordance with CSA racking standards.

All products manufactured by Cresswell are made in Canada.

RACKING SYSTEMS

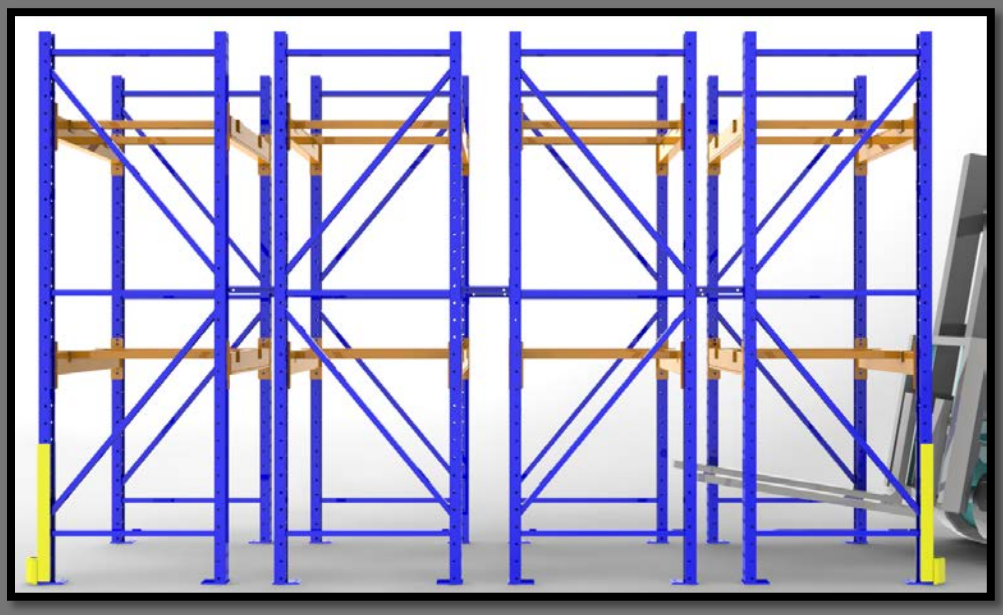
Single selective

The most common system and the less expensive, single selective consists of a single pallet deep in single row or in a back to back configuration.



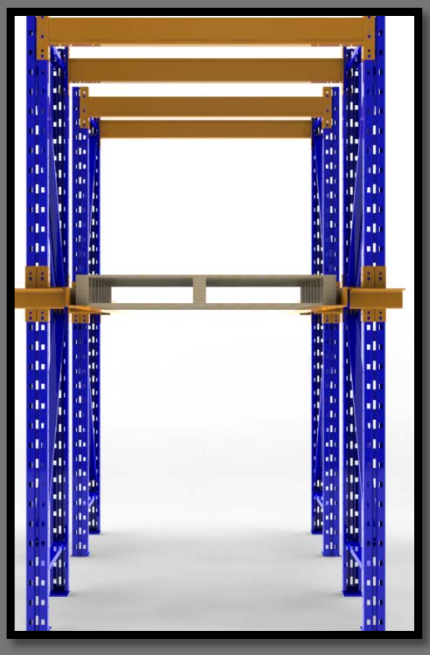
Double deep

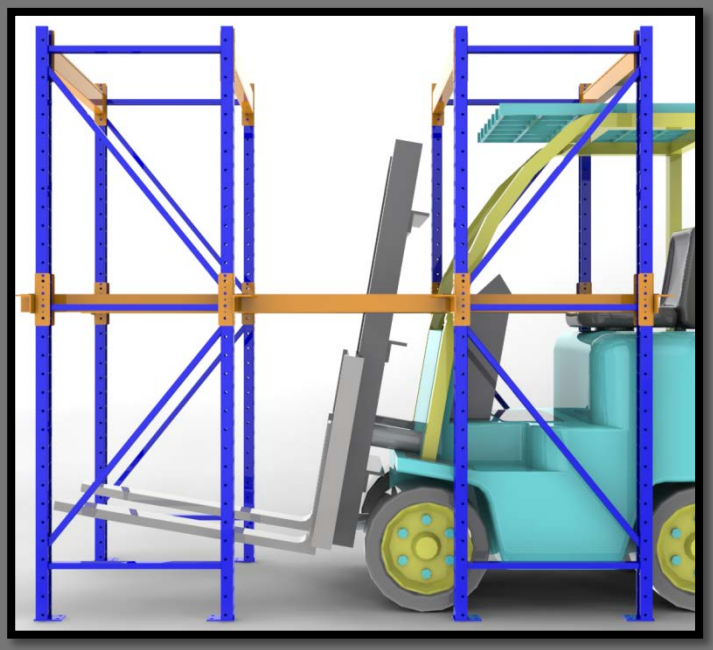
Using a reach truck, double deep system is similar to single selective. The difference is that you can reach the second pallet through the first rack. The selectivity is less than a single selective.



Drive-in/thru

Drive-in systems support the pallets only on the rails (no beams), and allows the forklift to drive-in between the frames. The major advantage of drive-in system is they can store a large number of pallets in a small space. Drive-in is considered as FILO (First in, last out) system. Drive-thru system can be accessed by either ends and considered as FIFO (First in, First out) system.





Pushback

Pushback systems have carriers on rollers at pallet position. The forklift puts the first pallet in place then uses the second pallet to push the first pallet back on the rails. Pushback system can store a large number of pallets in a small space and are considered as FILO (First in, last out) system.

Pallet flow

Pallet flow systems use rollers and brakes to move pallets from one side (loading) of a rack to another (unloading). Pallet flow is considered as FIFO (First in, first out) system, perfect for perishables.

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RACKING COMPONENTS

FRAME: Vertical component that support all the system. Connectors can be adjusted every 3'' vertically.

ROW SPACER: Component that connects frames together and ensures distance between them. Row spacer is also increasing the stability of the frames.

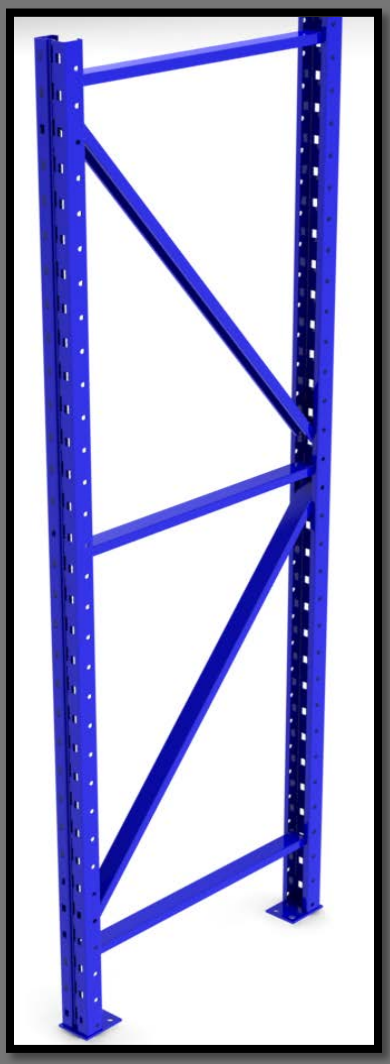
SAFETY BAR: Component supported by the beam to prevent the load from falling in case of misplaced loads.

BEAM: Horizontal component that supports the pallets.

POST PROTECTOR: Component that protects the frame against collisions.

END OF ROW PROTECTOR: Component that protects the frame against side collisions of the forklift. Particularly used at the end of row or in tunnels.

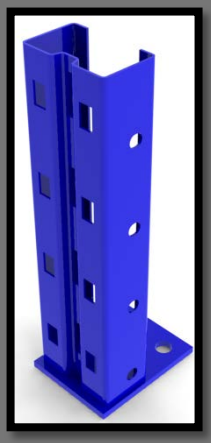
WELDED FRAMES

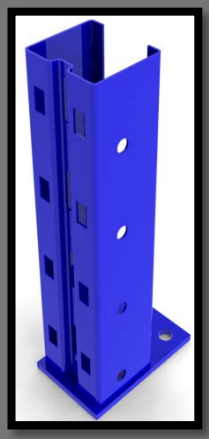


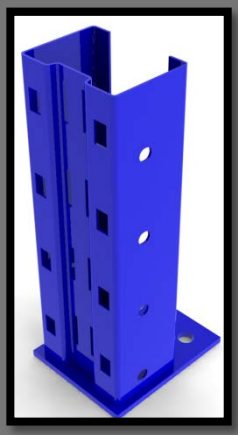
The welded frame is the most common in North America. Bracings are welded in place, so frames are not normally repaired but replaced if damaged. 3 kinds of post are proposed: 3.25x2'', 3.25x3'' and 4x3''. Each of them is available in a variety of steel thickness (gage) depending on the requirements.

GREATER CAPACITY

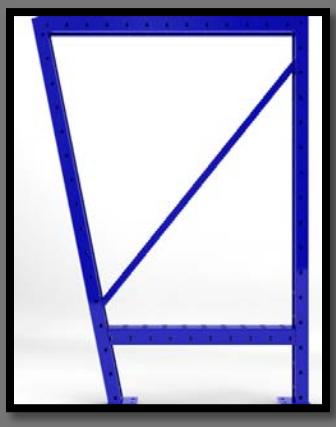
3.25x2	3.25x3	4x3
14-13ga	13-12ga	13-12ga





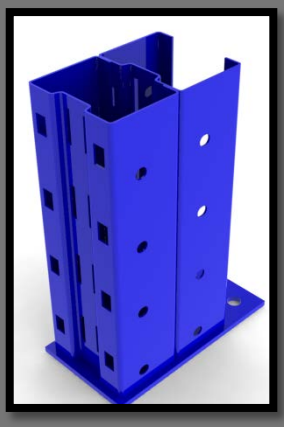


OPTIONS



CANT LEG

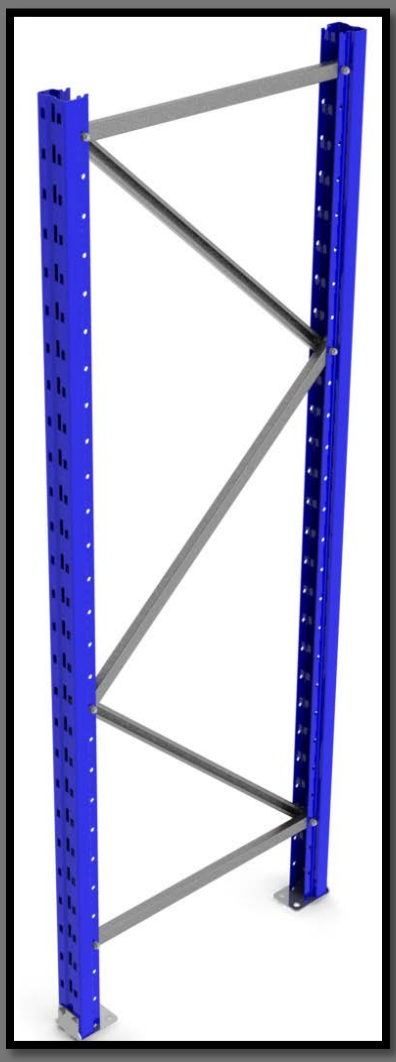
By making the front post as a cant leg style (like shown), more space is directly available in the aisle for the forklift. Recessed leg is also available (not shown).



DOUBLE POSTING

When a double post is welded to the front column, it can help to protect against damages and increase capacity of the frame when welded on front and back post.

BOLTED FRAMES

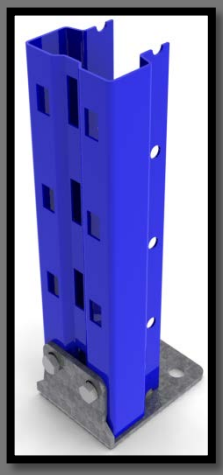


This is the most flexible frame option. It can be shipped assembled or knock down. It allows different material finishes for posts and bracings. Damaged components can be field-replaced. 2 kinds of post are proposed: 3.25x2.69'' and 3.25x3.25''. Each of them is available in a variety of steel thickness (gage) depending on weight capacity needs.

GREATER CAPACITY

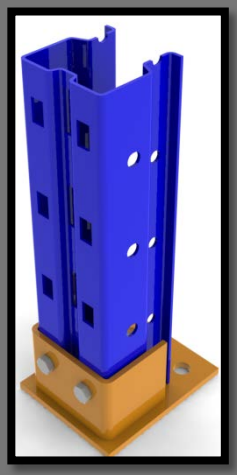
3.25x2.69

14-13ga



3.25x3.25

14-13-12ga



OPTIONS

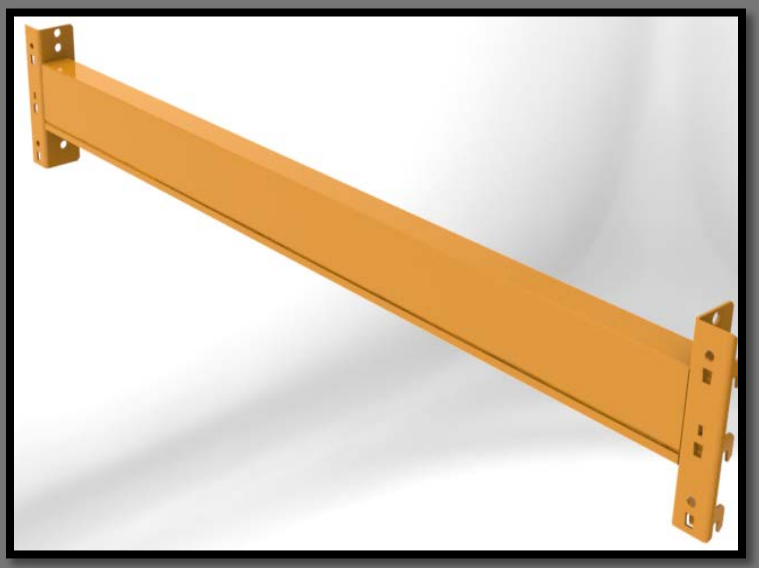
LATERAL BASE PLATE

Lateral base plate can be welded to post instead of regular base plate (for both bolted and welded frame). These base plates provide lateral stability to frame specially for alone bay.

GALVANIZED FINISH

Posts and bracings are available in either pre-galvanized or painting finish. Pre-galvanized finish is not available with double posting and welded base plate.

BOX BEAMS



Box beam can handle mainly wire mesh deck, cup style safety bars and fork entry bars. Beams are available in many different sizes to handle specific loads, see capacity chart. **Cresswell's box beam is made of 2 inserted channels making them more resistant against collisions, rust and giving more capacity than the competition.**

Available Dimensions

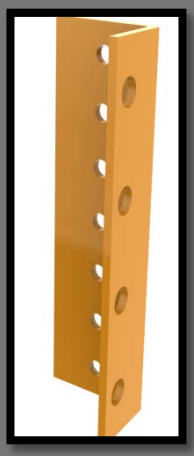
1.5'' wide X 2.0'' high
1.5'' wide X2.5'' high
1.5'' wide X3.0'' high
1.5'' wide X3.5'' high
1.5'' wide X4.0'' high
2.0'' wide X4.0'' high
1.5'' wide X5.0'' high
2.0'' wide X5.0'' high
2.0'' wide X6.0'' high
2.0'' wide X7.0'' high

GREATER CAPACITY

Available Connectors

Standard (Redirack compatible)

Structural



STEP BEAMS

Step beam can handle mainly Cresswell's clip-on safety bars, drop-in panels, board and mesh decks. Beams are available in many different sizes to handle specific loads, see capacity chart. **Cresswell's step beam is made of 2 inserted channels making them more resistant against collisions, rust and giving more capacity than the competition for the same height.**

2 step high:

1 1/16'' or 1 5/8''

Available Dimensions

1.5'' wide X3.0'' high*

1.5'' wide X3.5'' high

1.5'' wide X4.0'' high

2.0'' wide X4.0'' high

1.5'' wide X5.0'' high

2.0'' wide X5.0'' high

2.0'' wide X6.0'' high

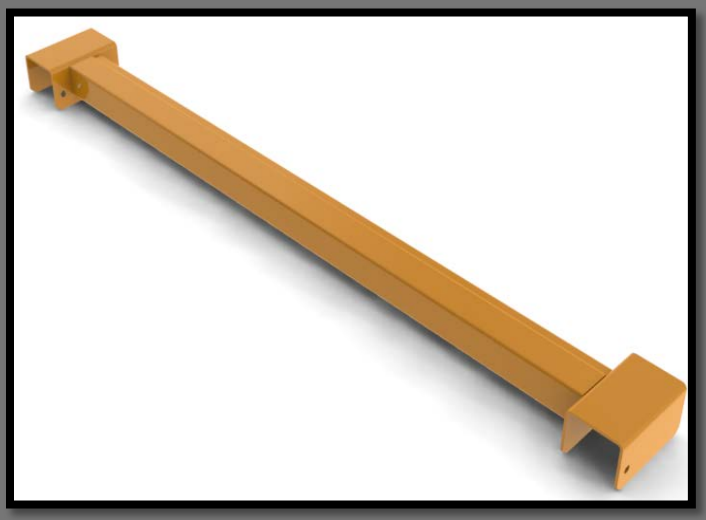
GREATER CAPACITY

*Only available in 1 1/16''step

DROP-IN PANEL

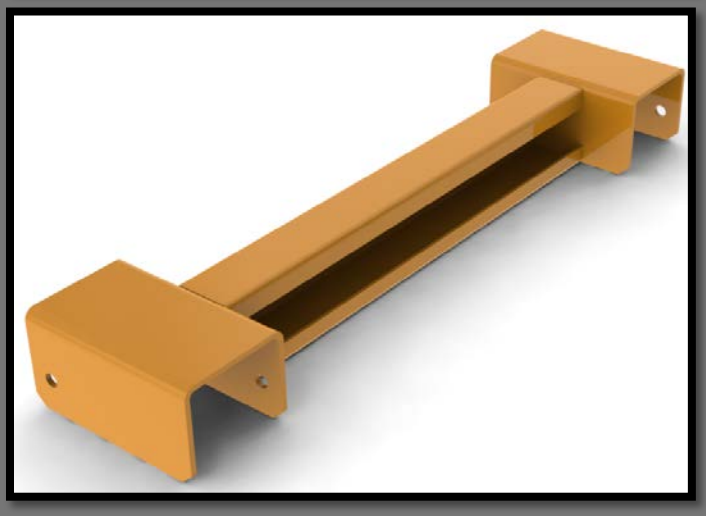
1.0'' high x 6'' wide panel perfectly fit with 1 1/16''

SAFETY BARS



Cup style safety bars made for box beams. Available with 1.5'' and 2.0'' cups to fit appropriate beam. Safety bars could be fixed with teck screws on both sides thru the holes on cups.

Clip-on safety bars are available in 1 1/16'' high or 1 5/8'' high to fit with Cresswell's step beam. 1 1/16'' high safety bars could be combined with ½'' deck and 1 5/8'' step beam making a flat platform. A lock is preventing the safety bars to pop out.



Vertical style safety bars can be use for heavy duty loads or when the load is partially supported by the safety bars. (Variable pallet dimensions)

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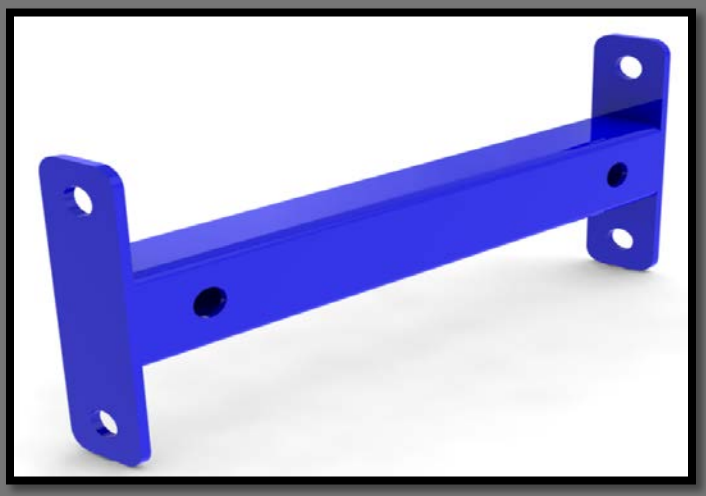
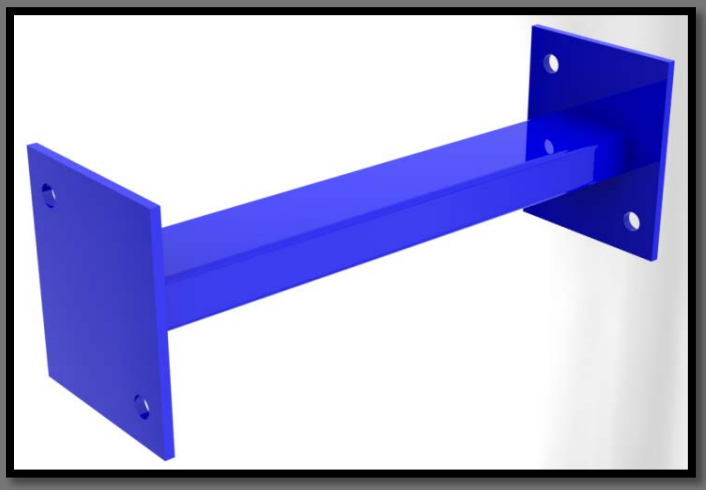
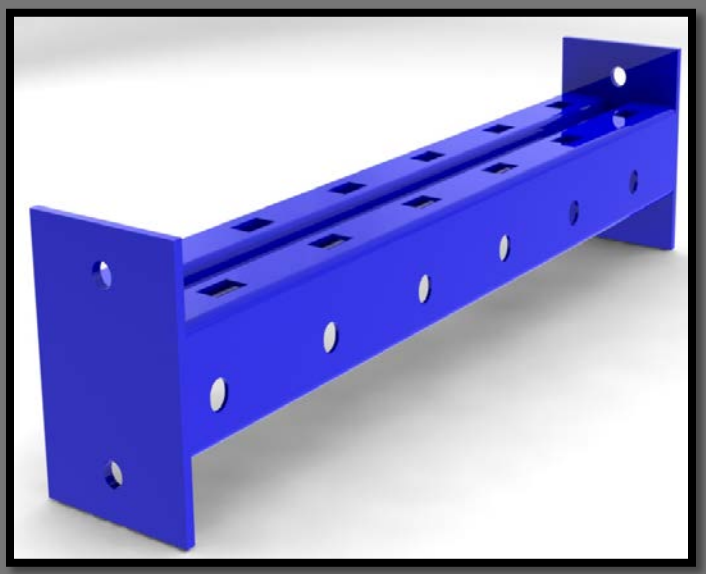
ROW SPACERS



Most common row spacer, it can be use with any Redirack compatible 3.25'' wide post. Must be fixed with (4) 3/8''-16 grade 5 bolts.

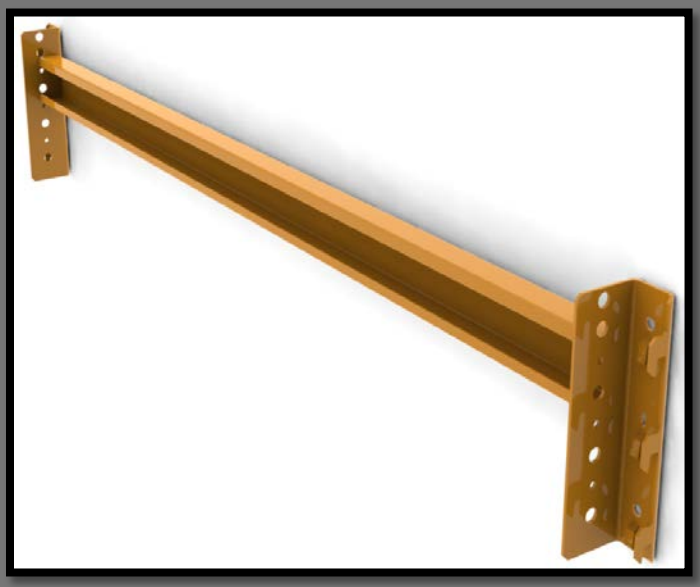


More heavy duty, this row spacer is made particularly for 4.0'' face post application. Also fixed with (4) 3/8''-16 grade 5 bolts.



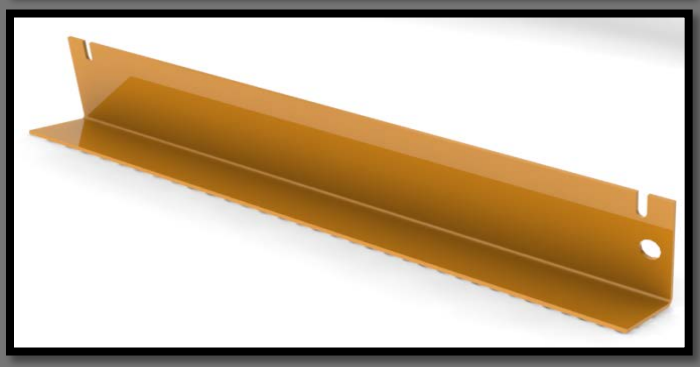
Row spacers made of post material are generally used to serve as rub rail. They can also be use to reinforce the racking against collisions.

ACCESSORIES



CB15X25X14XAAA-RA

This beam made of a single channel is lightweight and easy to install making it perfect for tire rack application.



CT-AA-BBXCC-RA (LA)

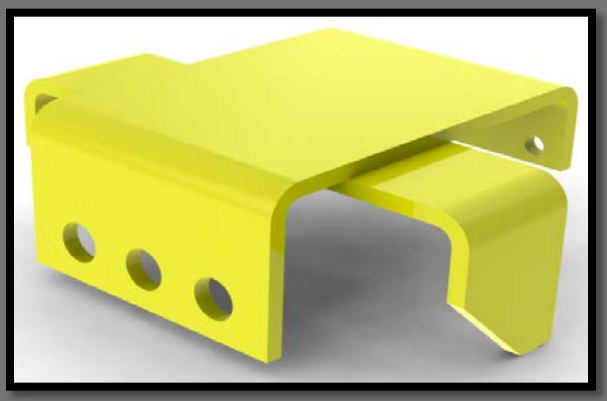
This retaining angle for channel beam is giving more stability to the pair of beam particularly with longer beam. It can be fixed without tools.

CP-A

Capacity plate can be fixed on the side of any frames. A water-resistant sticker is showing the maximum capacity of the bay.

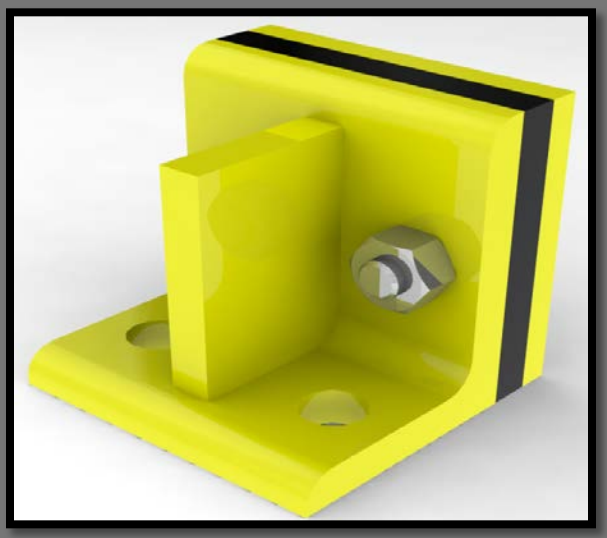
EXT-WF (BF)-B-AAXBBB

Frame extensions are attached to the top of existing frame giving extra height for adding 1 beam level.



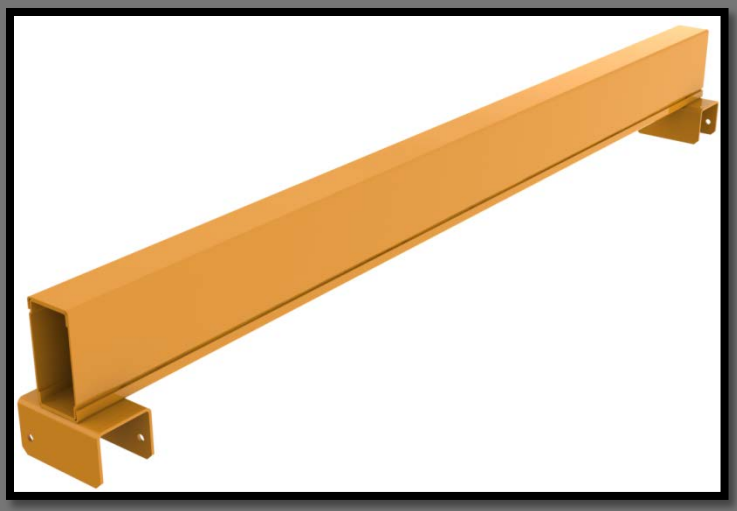
VPS-RXX-BB

Vertical pallet stopper are made of a single post standing offset at the back of the pallet with supports (like shown) fixed at each levels. Up to 6'' offset can be use. Support is fixed with (2) teck screws on the beam and (2) 3/8''-16 grade 5 bolts on the post.



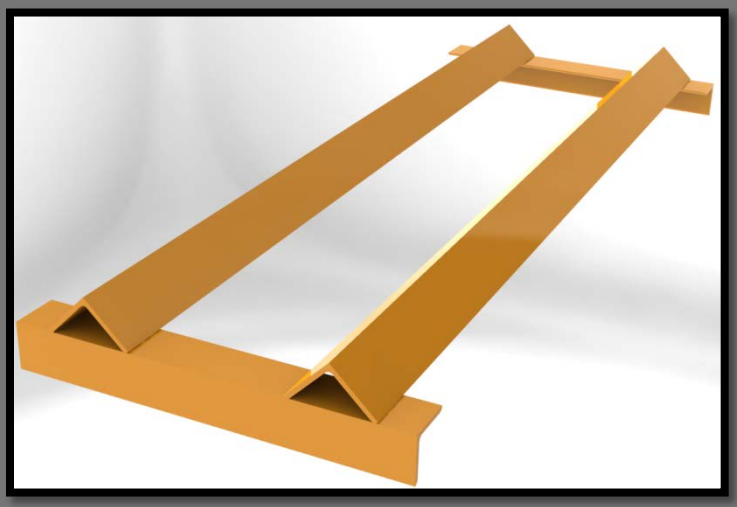
SS-A

Straddle stopper is usually installed to stop the straddle in a 2 deep configuration (double deep) preventing the lift to hit the front beam.



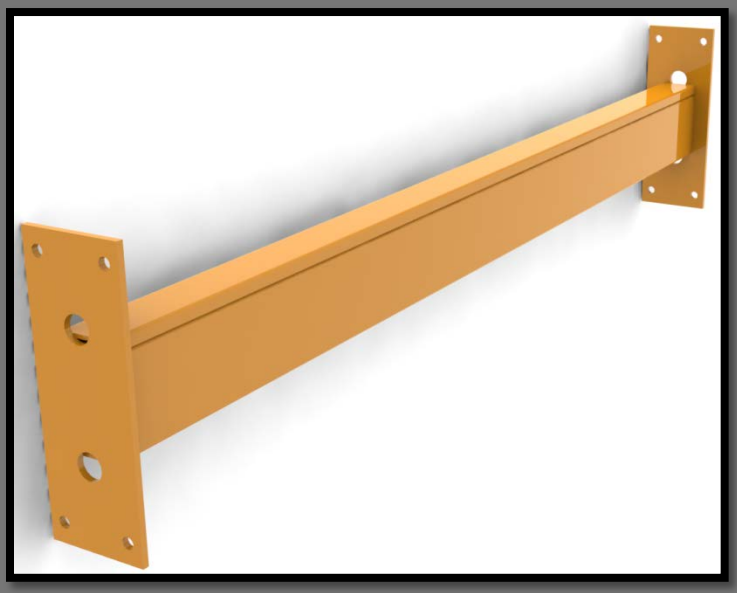
FEB-A-AAXBBXCCC

Fork entry bar is generally use when loads are not stack on a pallet. It allows the forks sliding underneath the load in the racking.



BRS-AA.AAA

Barrel support can handle up to 24'' diameter barrel. Length will vary upon frame depth.

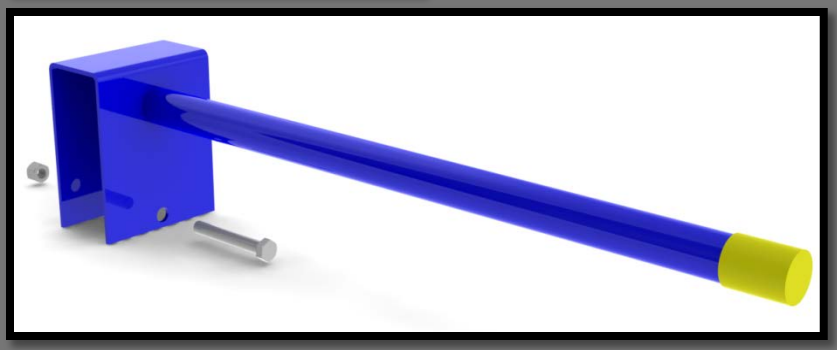


CAT-AAXBBX14XCCC-A(B)

Cross aisle tie beam is connecting 2 face-to-face frames. Cross aisle tie beam is use to stabilize single row of racking.

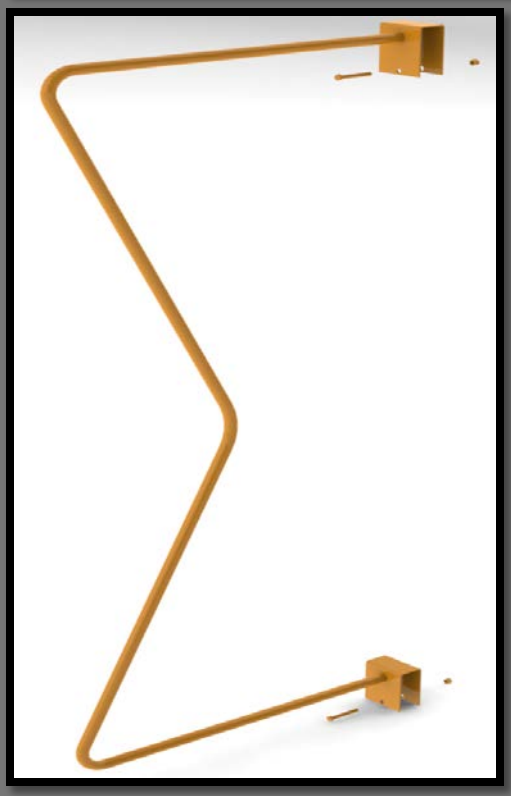
RH-L (R)

Reel holder can receive up to 3.0'' rod for making reel dispenser. High sides design is preventing the rod to take out.



VD-A (B)-AA

Vertical divider enables to stored upright components as pipes. An adaptor can attach them to a 1.5'' or 2.0'' wide beam. If necessary, vertical divider can be moved by loosen the nut.



MD-A

'M' shape dividers are normally used to store panels. Dividers are 72'' high x 36'' deep and fixed on box beam with (2) cups tightened in place with 3/8''-16 grade 5 bolts and nuts.

PROTECTION

PP-WAB-X

Post protector made of a bolted wrap with a front bull nose where a 5/8'' x 4.5'' anchor (included) is fixed to the ground. A plastic cap (included) is covering the access hole to the anchor. 3/8''-16 grade 5 bolts are retaining the wrap around the post. Wrap is offer in 12, 24 and 36'' high.

PP-ANG-A(B)

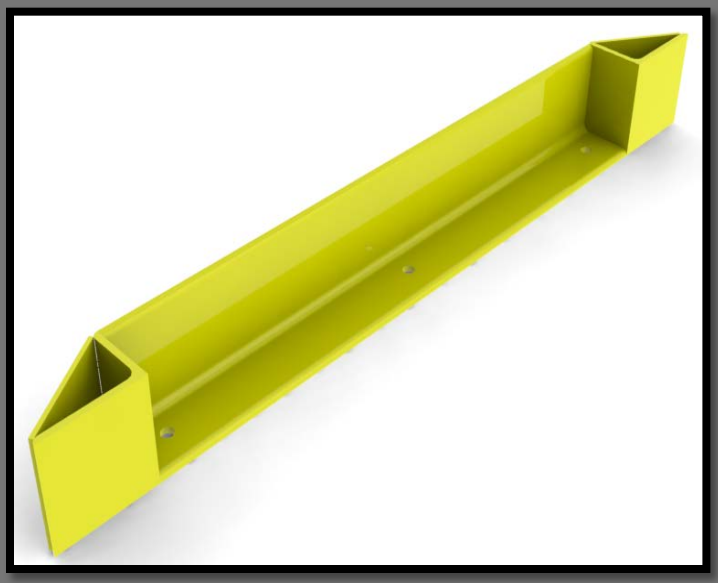
A structural angle is welded to the front post protecting it against collisions. This protector is only available on new frame and in 12, 24 and 36'' high. Steel cap is covering the top to prevent debris to accumulate.

PP-BUL-A(B)

This post protector is made the same way as the bolted, except it's welded to the post. This protector is only available on new frame and 6'' high wrap. 5/8'' anchor and plastic cap is also included.

PP-BBL-A

This post protector is made for rack configuration where there's a bottom beam level. A flat pattern allows the protector to be attached directly on the beam connectors thru front slotted holes. 5/8'' anchor and plastic cap is also included.



ERP-A-02-R-AAA

End of row protector is protecting the frame against side collisions. It's made of a 3/8''x4''x6'' structural angle with reinforced bevelled ends. 5/8'' anchors (included) are fixed to a maximum of 24'' distance

Railing protection

Railing protectors are perfect for building protection zones around racking or machinery. Strong structural 4''x 4'' posts are available 42'' high with 2 rails or 16'' high with 1 rail fixed with (4) ½ anchors (included).

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LIGHT DUTY RACKING

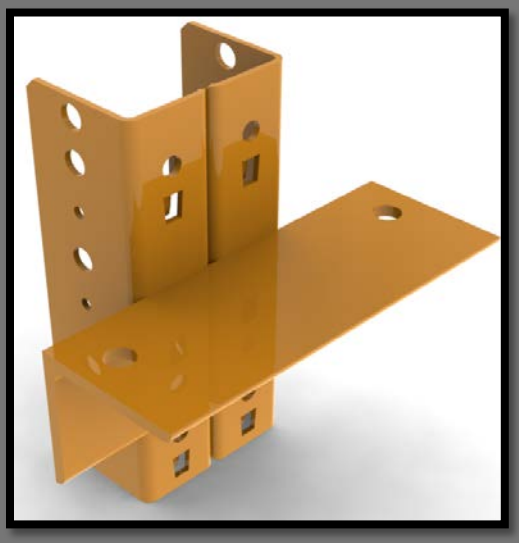
Light duty racking is ideal for tire rack application and picking modules. Beams are easy to connect and can be mounted quickly without tools. Different beams and boards are available depending on the application.

CHANNEL BEAM: Perfect for light load application like tires.

LATERAL SUPPORT: This component is supporting lengthwise drop-in panels.

STEP CHANNEL BEAM: Combines with drop-in panel, it's making a flat platform for picking levels.

DRIVE-IN COMPONENTS



DBSA-R-A-BBBB

Drive-in stub arms are fixed to the frames and are supporting the rail. Depending on the desired clearance between rail, stub arm length can be adjusted.

TWBAAXBBX14XCCC-R-DDDD

Tower beam having the same function as stub arm but can only be use at the end of drive-in tunnel. It's providing more stability to the drive-in system.

DGS-A-AA

Drive-in ground stopper can be placed at the end of tunnel to protect the back frame or wall against collisions with the pallets. Made of 3/8''x3''x4'' structural angle, drive-in ground stopper is fixed with ½'' anchors (included).

Rub rails are helping the forklift to be guided when travelling into the drive-in/thru systems. Also it is protecting the frames. Rub rails are made of strong structural channel steel and are fixed on the side of the frames. An independent front protector fixed with anchors is protecting the front post.

COLORS

Mercury Blue | Medium Blue | Light Blue | Orange

Safety Yellow* | Grey* | Black*

*Charge may apply

Other colors available upon request.