

**STORAGE
SOLUTIONS**





Design and manufacture products according to the exact specifications and expectations of our customers in order to build long-term partnerships that keep Cresswell financially sound and competitive in all its business sectors.

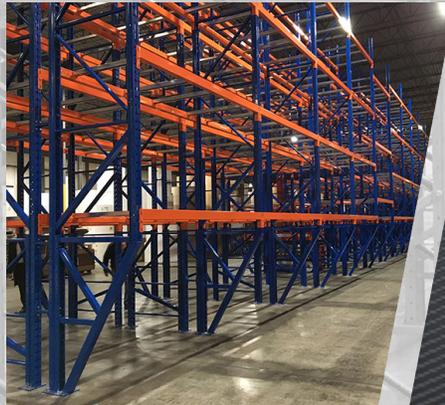
3

Ingenuity

Cresswell Industries surpasses itself through the ingenuity of its employees, the constant innovation of new products and its ability to adapt to changes.



6



Durability

Cresswell stands out for the quality and durability of its products, making it a trusted company since 1951.

Reliability

Its commitment to its customers, employees and the environment make it an honest, loyal and consistent company that ensures its steadiness in the steel processing industry.



8



RACKING SYSTEMS

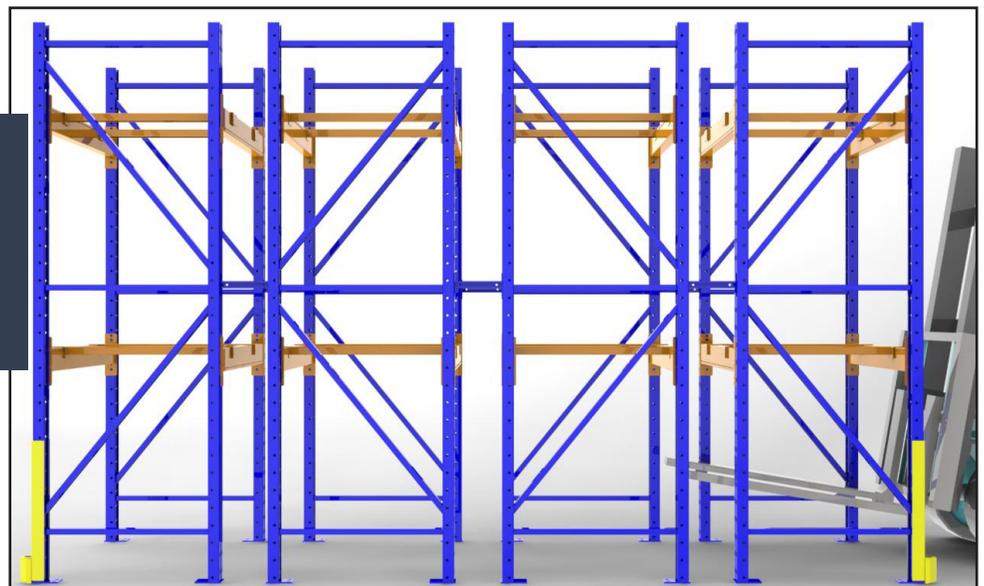
SINGLE SELECTIVE



The most common and least expensive system: it consists of placing the pallets in single row or back-to-back configuration.

DOUBLE DEEP

Requiring a double deep reach truck, this system allows to store pallets two rows deep instead of one, increasing the number of pallets accessible from the aisle.

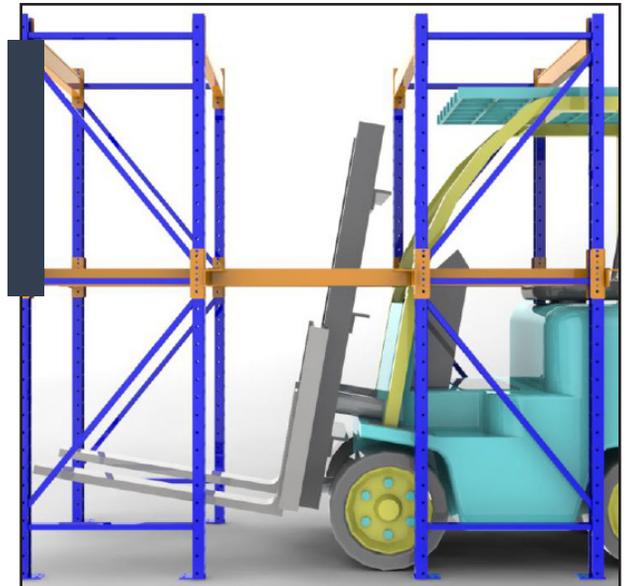


RACKING SYSTEMS

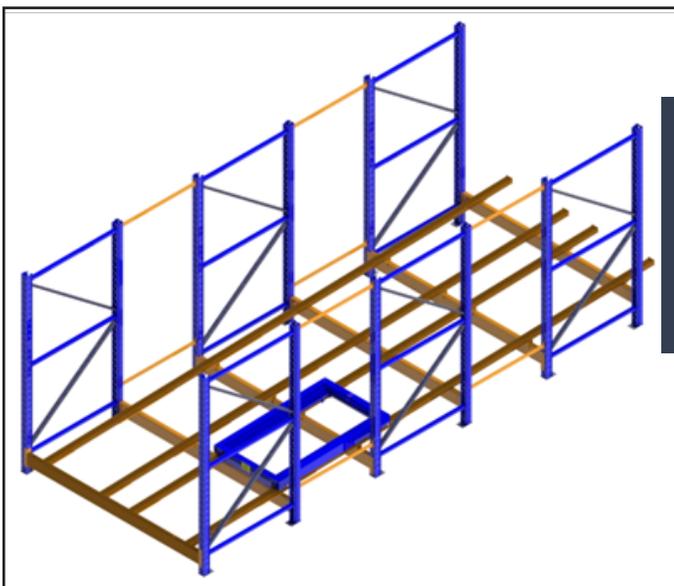
DRIVE-IN/THRU

The drive-in/thru static system consists of supporting the pallets by the corners (without beams) using rails allowing the forklift to go inside the structure. The major advantage is to be able to store a large number of pallets in a small space.

Drive-in systems are FILO (first in, last out), while drive-thru are FIFO (first in, first out).



PUSH BACK



Push back systems have carts mounted on wheels on which the pallet is deposited. Once the first pallet is in place, the forklift uses the second pallet to push the first one.

Push back systems are considered FILO (first in, last out). This system has greater storage density than drive-in systems (individual lines).

SYSTEMS ADVANTAGES

Learn more about the advantages and disadvantages of pallet racking systems and identify the right one to answer your needs. (A) Excellent, (D) Low.

	Initial cost	Space	Access delay	Compatible with damaged pallets	Different pallet sizes	First in, first out	Product visibility	Forklift cost
Single deep	A	D	A	A	A	B	A	A
Double deep	A	C	B	A	A	C	C	C
Push back	C	B	B	C	C	D	C	B
Drive-in/thru	C	B	D	D	D	D/A	C	A
Pallet flow	D	A	A	C	B	A	B	A

Initial cost: System cost including installation. Do not include the building cost.

Space: Ranging from less than 50% for single selective where more space is required for aisles up to 90% utilization in the accumulation system.

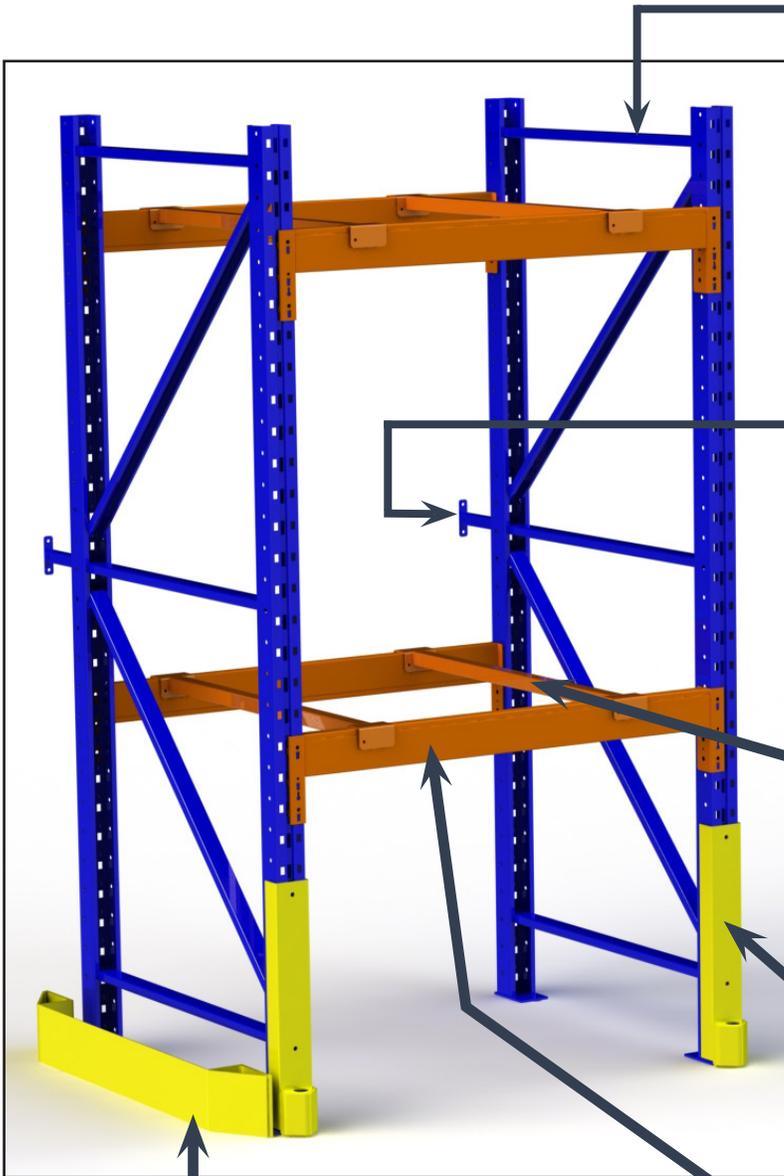
Access delay: Average time to access pallets.

Damaged pallet support: System capacity to support damaged or pallets with overhang stock.

Different pallet sizes: System capacity to receive many pallets dimensions.

First in, first out: high turnover rate of items, specially for perishable goods.

RACKING COMPONENTS



FRAME: Vertical component that supports the whole system. 3" increments allows for positioning the beams at the desired location.

ROW SPACER: Component connecting the frames and ensuring distance between them. The spacers also increase the stability of the elevations.

SAFETY BAR: Component supported by the beams that prevents the load from falling if it is misplaced.

POST PROTECTOR:

Component that protects the front of the frame from collision with the forklift.

END OF ROW PROTECTOR:

Component that protects the frame from side collisions. Especially used at the end of row or in tunnels.

BEAM: Horizontal component that supports the load directly.

TYPE OF FRAMES

WELDED



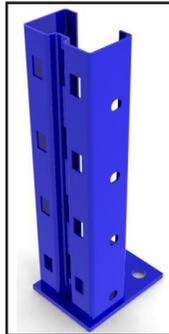
Bracings are welded in place and the frames are not usually repaired, but replaced in case of damage.

Three types of posts are available: 3.25 x 2", 3.25 x 3.25" and 4 x 3". Each is available in a variety of steel thickness (gage) depending on the capacity required.

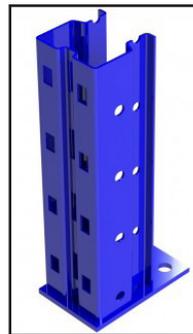
MORE CAPACITY



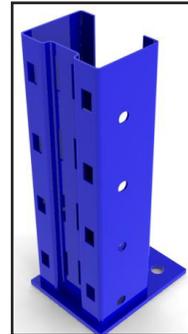
3.25 x 2
14-13 ga



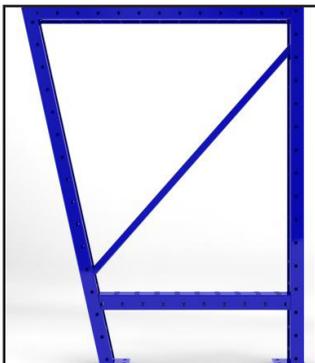
3.25 x 3.25
14-13-12 ga



4 x 3
13-12 ga

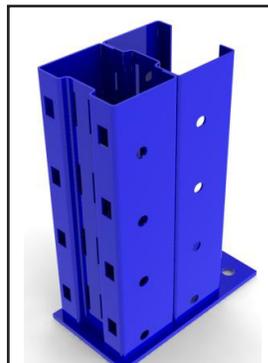


OPTIONS



CANTLEG

By welding the front post as shown, more space is available in the aisle for the forklift. A model with recessed front leg is also available.

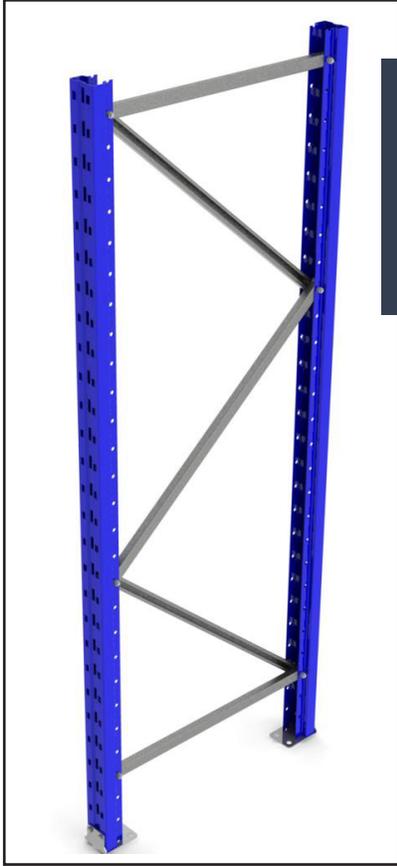


DOUBLE POST

When a second post is welded to the main post, it improves its resistance to collision and also increases the capacity of the frame.

TYPE OF FRAMES

BOLTED

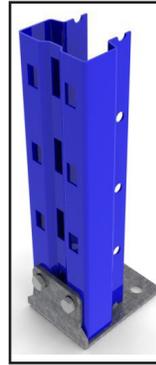


Bolted systems are the most versatile racking option. It can be shipped assembled or knocked down. It allows different material finishes for posts and bracings. Damaged components can be replaced on site quickly and at low cost.

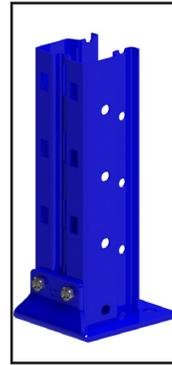
Post sizes 3.25 x 2.69" and 3.25 x 3.25" are presently available. Each of them comes in a variety of steel gage depending on weight capacity requirements.

MORE CAPACITY →

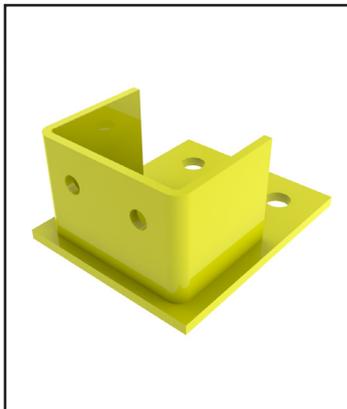
3.25 x 2.69
14 ga



3.25 x 3.25
14-13-12 ga



OPTIONS



BASE PLATE AND PROTECTION

A variety of baseplates and protection accessories are available for bolted or welded systems.

PRE-GALVANIZED FINISH

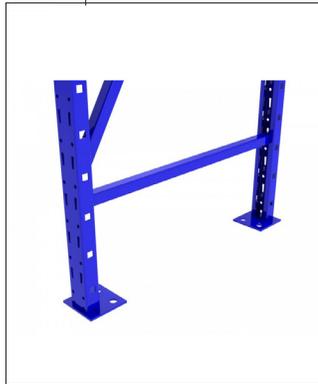
Posts and / or bracings may be pre-galvanized steel instead of painted on bolted frames only. Pre-galvanized finish is not available with double posting and welded base plates

TYPE OF FRAMES



The light-duty racking frame made by Cresswell is the ideal solution for tire storage, light duty picking module or for vertical farming.

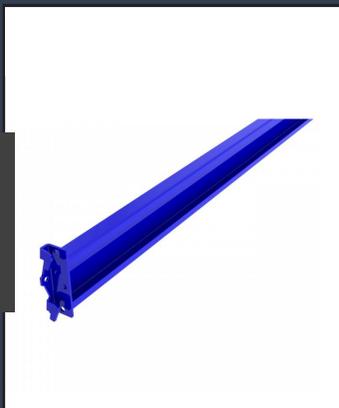
Beams are quickly connected and can be installed without tools. Different beams and supports are available for various application.



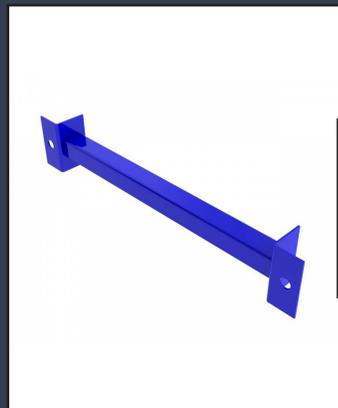
LIGHT-DUTY

ACCESSORIES

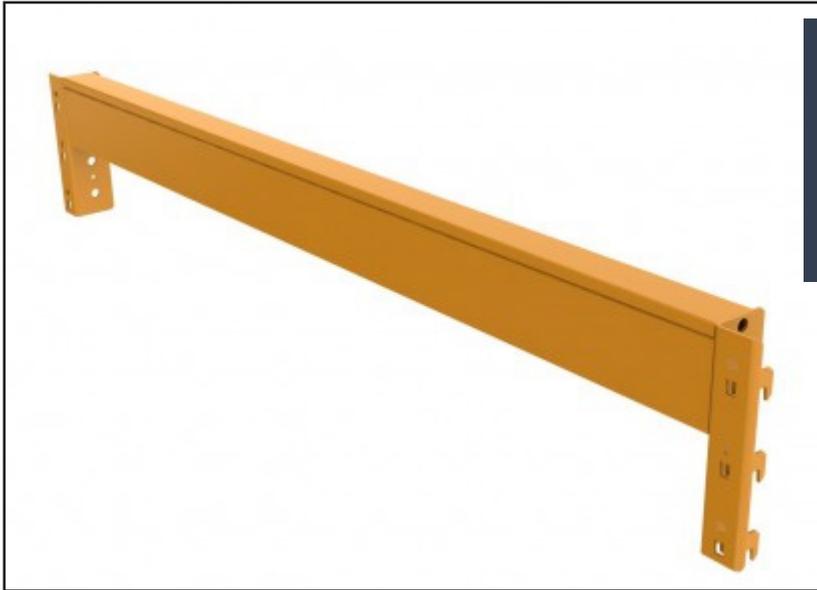
Light-duty channel beam



Row spacer for light-duty system



BOX BEAMS



Box beams can be combined with wire mesh decks, cup or universal safety bars and fork entry bars. These beams are available in different sizes depending on the required capacity (see chart). Cresswell box beams are made of 2 'C' channels making them more resistant to collisions and corrosion.

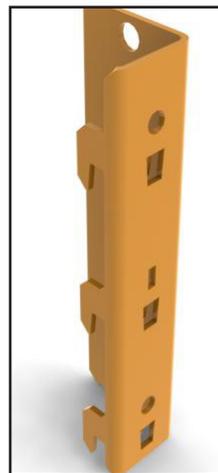


DIMENSIONS

- 1.5" wide X 2.0" high
- 1.5" wide X 2.5" high
- 1.5" wide X 3.0" high
- 1.5" wide X 3.5" high
- 1.5" wide X 4.0" high
- 2.0" wide X 4.0" high
- 1.5" wide X 5.0" high
- 2.0" wide X 5.0" high
- 2.0" wide X 6.0" high
- 2.0" wide X 7.0" high

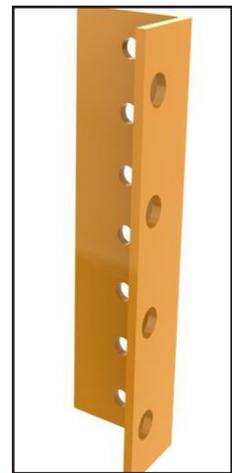
MORE CAPACITY

Standard
(Redirack
compatible)



5.5 and 8.5"

Structural



CONNECTORS

STEP BEAMS



Step beam are used with Cresswell's clip-on safety bars, drop-in panels, boards and wire mesh decks. Beams are available in different sizes depending on load capacity required (see capacity chart).



DIMENSIONS

- 2.5" wide X 3" high
- 2.5" wide X 3 5/8" high
- 2.5" wide X 4.0" high
- 2.5" wide X 4.5" high
- 2.5" wide X 5.0" high

MORE CAPACITY

Spring clip



Fitted to the beam by Cresswell

Safety pin



Fitted to the beam by the installer on site

CLIPS

SAFETY BARS



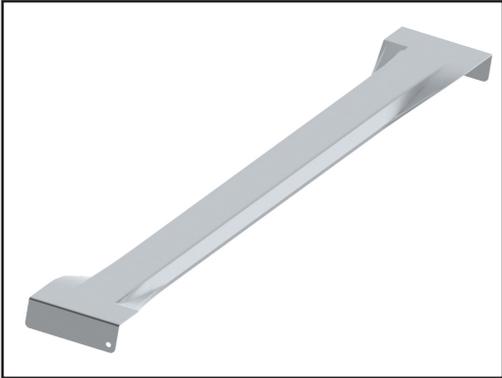
CUP

Cup style safety bars are used with box beams. They are available with 1.5" and 2" wide cups to fit the relevant beam profile. Safety bars must be fixed in place with teck screws using the holes provided on both side of the cups.



CLIP-ON

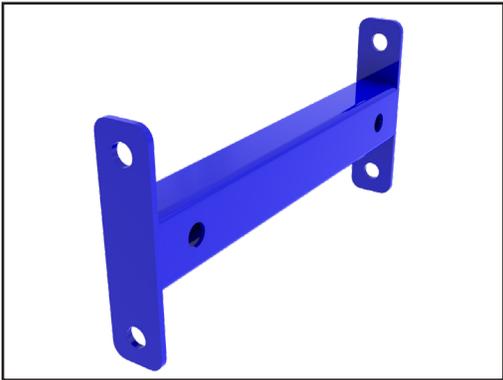
Clip-on safety bars fit onto Cresswell's step beams. 1 1/16" high safety bars could be combined with 1/2" deck and 1 5/8" step beams for making a flat platform. A lock prevents the safety bars from dislodging.



UNIVERSAL

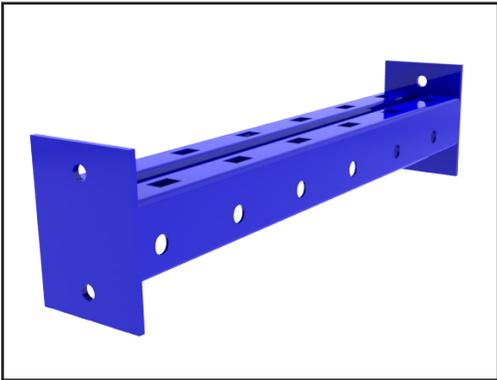
The pre-galvanized universal safety bar is the most versatile and can be adapted to box as well as step beams. They are to be fixed into place with teck screws.

ROW SPACERS



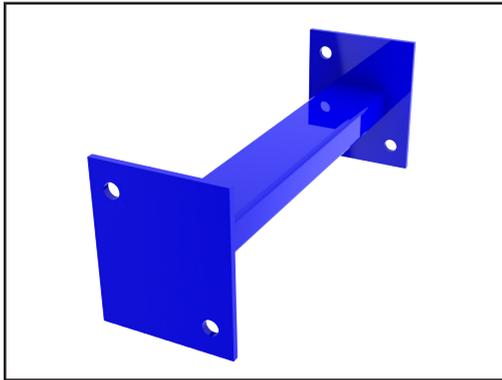
FOR 3.25" WIDE POST

These are the most common row spacers. They can be used with any "redirack" compatible 3.25" wide post.



MADE OF POST

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



FOR 4" WIDE POST

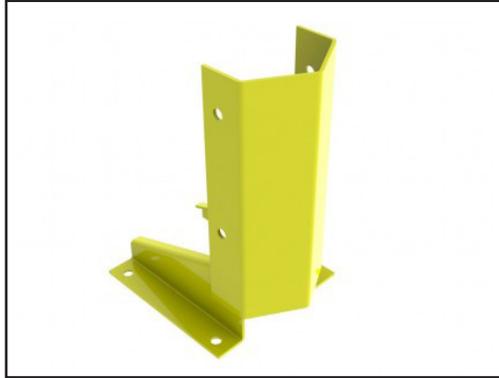
These row spacers are more sturdy, and are intended mainly for 4" post applications.

PROTECTION



'U' PROTECTOR WITH 'BULLNOSE'

These 'U' protectors are bolted to the frames. A front diverter can be anchored to the floor. A plastic cap covers the access hole of the anchor. The 'U' protector, as a standard, is available at a height of 12 and 24".



STAND-ALONE PROTECTOR

This 16" tall protector is not fixed to the frame. It can therefore be suitable for welded, bolted or 4" frames. Two rails can be attached to the side of 2 protectors to create an end-of-aisle protection.



END OF ROW PROTECTOR

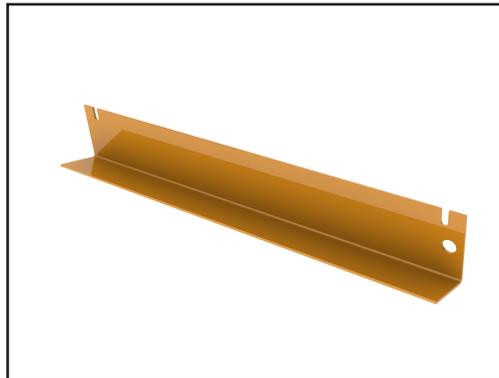
End of row protectors protect the frames from side collisions. They are made of a 3/8" x 4" x 6" structural angle with reinforced entrances.

ACCESSORIES



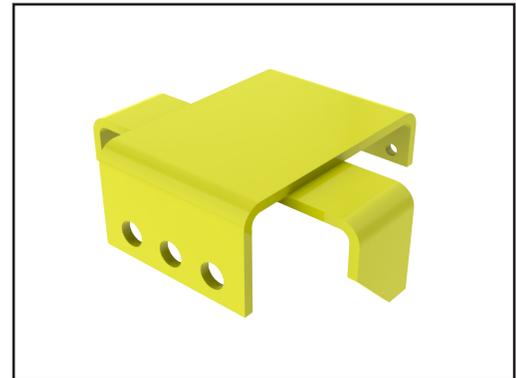
BACK STOPPER BEAM

Back stopper beam prevent pallets from falling off the back of the racking bay. Offsets of up to 6" from the frame are available.



BEAM TIE

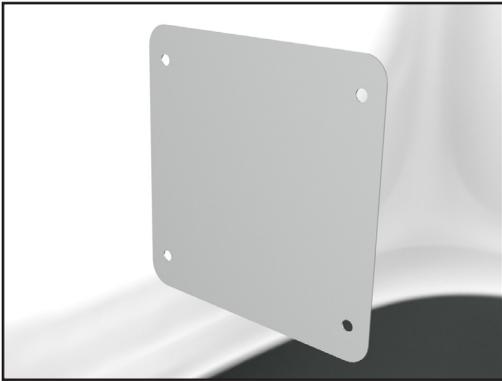
These beams are made of a single channel. They are lightweight and easy to install, making them ideal for tire rack application.



VERTICAL PALLET STOPPERS

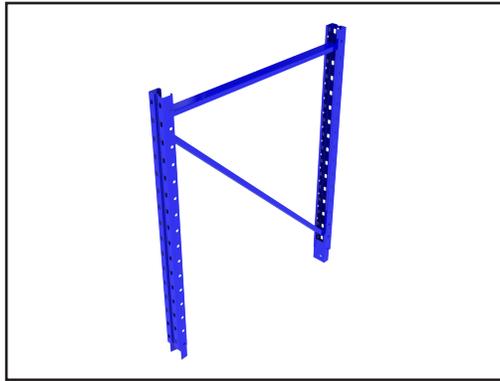
Vertical pallet stoppers consist of a single post standing offset at the back of the pallet with supports attached at each level. Offsets of up to 6" can be used.

ACCESSORIES



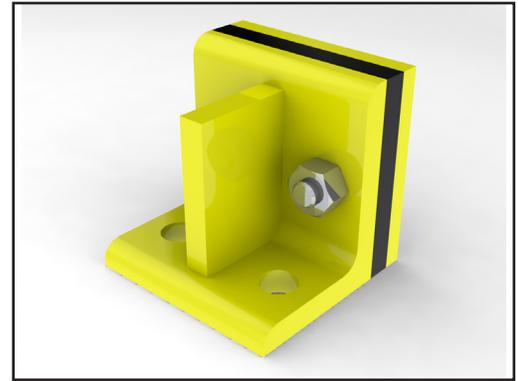
CAPACITY PLATE

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



FRAME EXTENSION

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



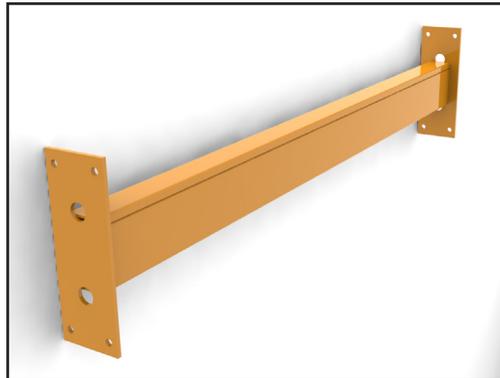
STRADDLE STOPPER

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



FORK ENTRY BARS

Fork entry bars are usually used when loads are not stacked on pallets. They allow fork lifts to slide underneath the load in the racking.



CROSS AISLE TIE BEAMS

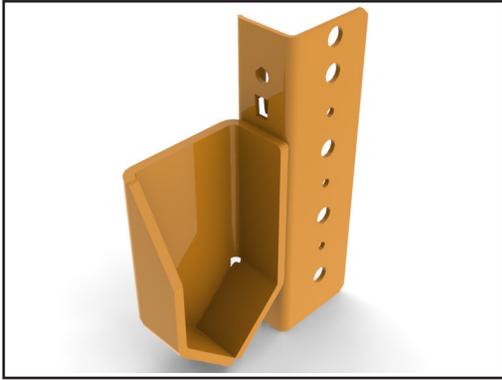
Cross aisle tie beams connect 2 face-to-face frames. They are used to stabilize single rows of racking or to protect hanging warehouse equipments from collisions.



BARREL SUPPORTS

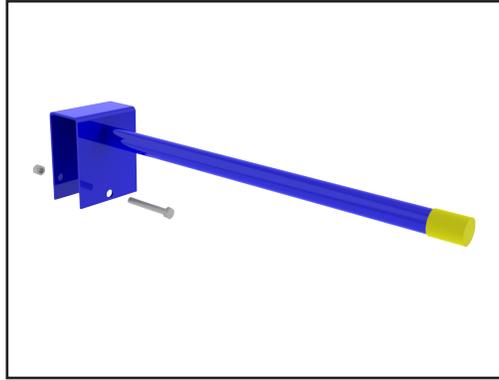
Barrel supports can handle barrel diameters of up to 24". Lengths vary depending on frame depth.

ACCESSORIES



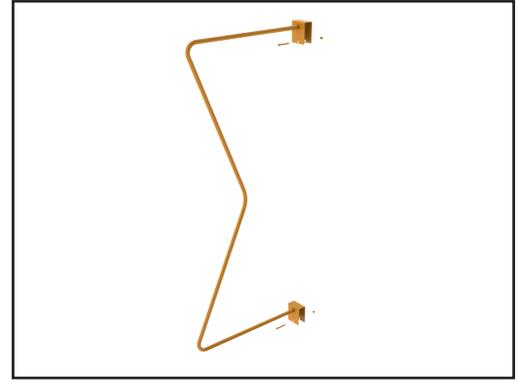
REEL HOLDER

Reel holder can accommodate rods of up to 3" in diameter and up to 5000 lb.



VERTICAL DIVIDERS

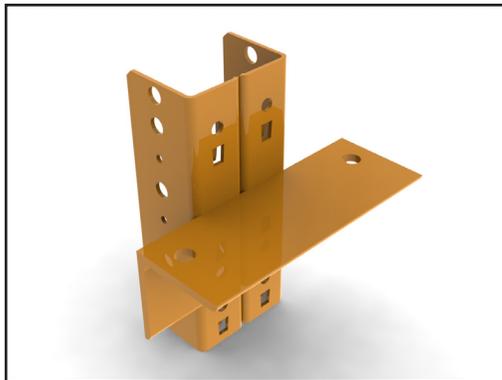
Vertical dividers are used to store upright components such as pipes or mouldings. 1.5" or 2" adaptors are used to connect them to box beams.



M-SHAPED DIVIDERS

M-shaped dividers are usually used for storing panels. They are 72" high x 36" deep and connect to box beams with cups.

DRIVE-IN COMPONENTS



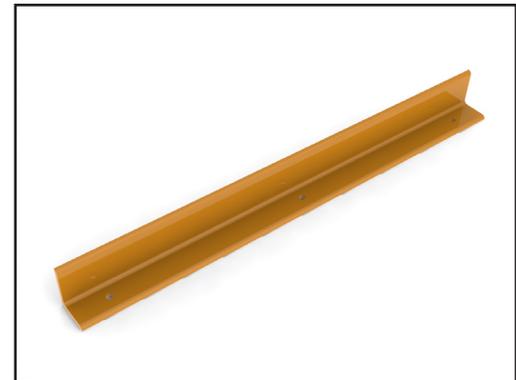
DRIVE-IN STUB ARMS

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



TOWER BEAM

Tower beams have the same function as stub arms but can only be used at the end of drive-in tunnel. It's providing more stability to the drive-in system.



DRIVE-IN GROUND STOPPER

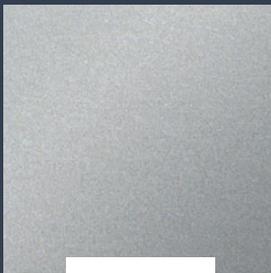
Drive-in ground stopper can be placed at the end of tunnel to protect the back frame or wall against collisions with the pallets.

MATERIALS & COLORS AVAILABLE

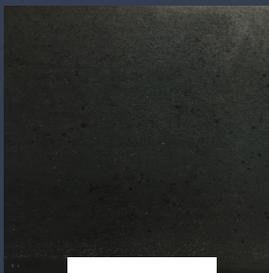
MATERIALS



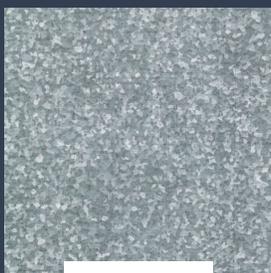
PAINTED



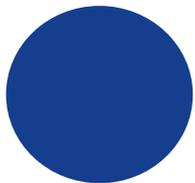
PRE-GALVANIZED



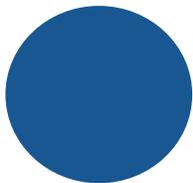
UNPAINTED



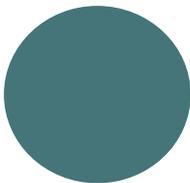
HOT DIP GALVANIZED



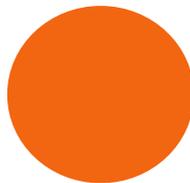
MERCURY BLUE



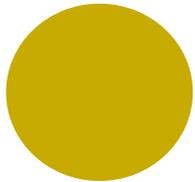
MEDIUM BLUE



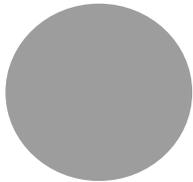
LIGHT BLUE



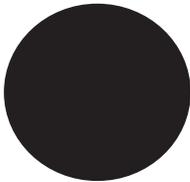
ORANGE



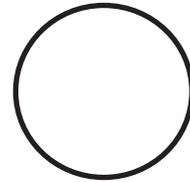
SAFETY YELLOW



LIGHT GREY



BLACK*



WHITE*

Special colors available upon request.
*For these colors, additional fees apply.

CRESSWELL BENEFITS

Entirely made in Canada

A COMPLETE TEAM TO ASSIST YOU

WELDED - BOLTED

Innovation
Excellency

20 % more steel
Beams and bracings
in 14 GA steel

50 000 PSI
STEEL

42'' - 48''
BRACINGS
PATTERN

CWB
Certified

Ingenuity
Durability
Reliability

ELECTRO-MAGNETIC POLYESTER
POWDER PAINT

ISO 9001

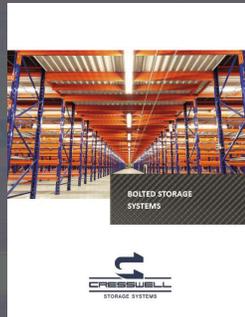
Superior Quality
Resistant
Durable &

ON TIME DELIVERY

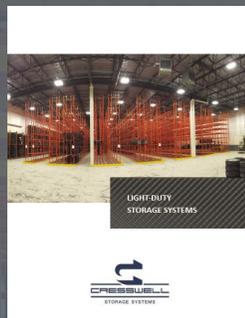
Find out more about Cresswell



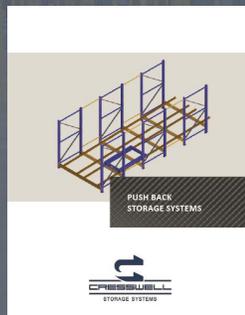
Pre-galvanized
storage
systems



Bolted storage
systems



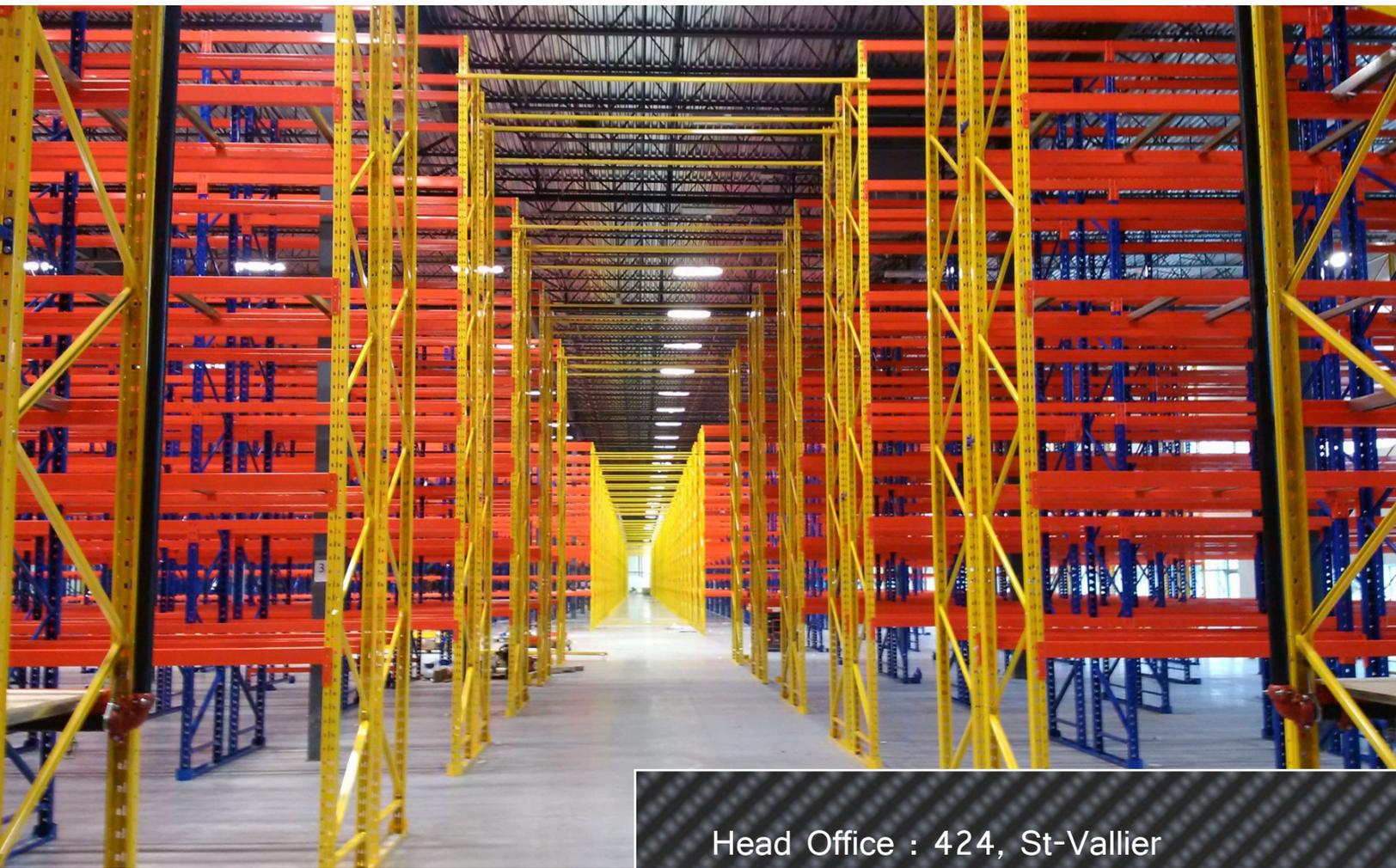
Light-duty
storage
systems



Push back
storage
systems



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