

SERVICE YOU CAN STAND ON

YARDRAMPS

DOCKBOARDS

RAILBOARDS

DOCKPLATES

EDGE-OF-DOCKLEVELERS

WHEELRISERS

STEEL PLATFORMS

CRASH GUARD™ SAFETY PRODUCTS



BLUFF

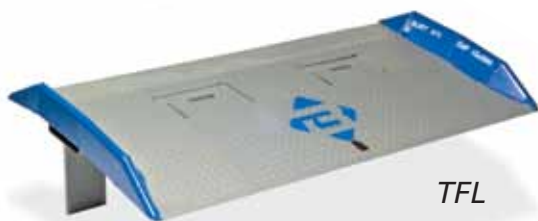
MANUFACTURING, INC.



SC



T



TFL



TNB

Fully welded steel dockboards provide a safe ramp for powered vehicle application. Selecting the proper Bluff product for your application will improve product life, safety, and loading efficiency. Review the product selection guide on page 5 prior to ordering to ensure your product selection is correct.

STEEL DOCKBOARD (SC)

- Steel plate with welded steel curbs
- Lifting chains included
- Capacity 10,000 and 13,000 pounds

This steel dockboard with welded steel curbs and locking legs is designed for 3,000 and 4,000 pound capacity forklift use in light use applications. Lifting chains are included. Width of 60" and 72". Lengths from 36" to 72".

STEEL DOCKBOARD (T)

- All-welded steel construction
- Capacities from 15,000 to 40,000 pounds
- Two four-hole pin pockets placed on each edge for flexible positioning
- Fold-down lifting loops
- Double-bend design

This heavy-duty steel dockboard is held in position using two 1" stress-proof steel pins. When properly placed in the side pocket location holes, these pins hold the dockboard firmly in place guarding against slippage. Simply select the proper pin hole location for use with conventional, refrigerated, or container trailers, or for below dock conditions. Widths from 60" to 96".

STEEL DOCKBOARD (TFL)

Same basic design as the "T" dockboard, but uses locking legs in lieu of steel pins.

STEEL DOCKBOARD (TNB)

Single-bend design utilizes the lifting chain and full width locking legs.

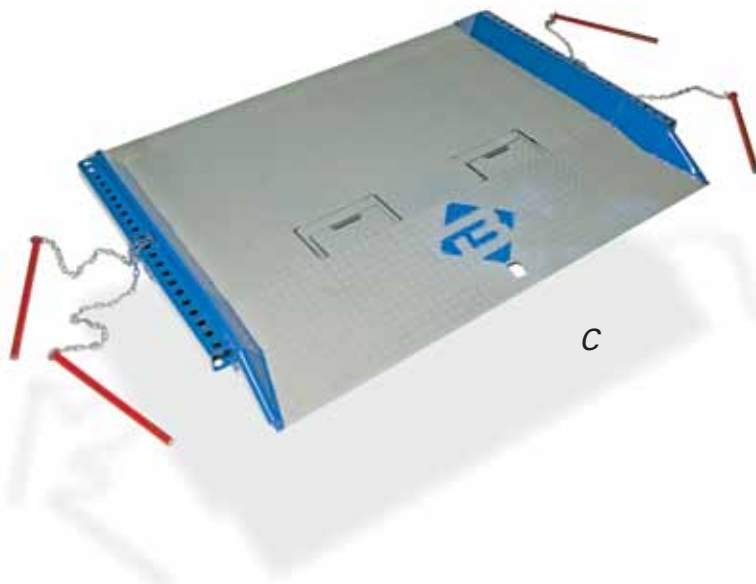
TFL and TNB designs are not recommended for below dock loading.

Manufactured and tested in compliance with ANSI Standard MH30.2

RED PIN STEEL DOCKBOARD (C)

- For difficult trailer-to-dock positions
- Dual-pin locking system
- All-welded steel construction
- Capacities from 15,000 to 40,000 pounds

The red pin dockboard utilizes full length side pockets along with two locking pins for each side. These pins provide safe loading conditions for container and park-out applications. Widths from 60" to 96". Lengths from 48" to 120".



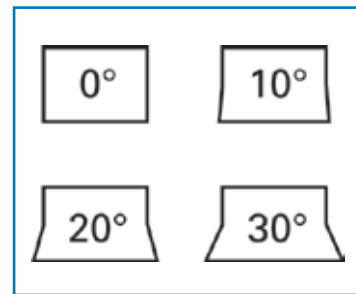
RAILBOARD (R)

- All-welded steel construction
- Capacities from 15,000 to 90,000 pounds
- Rectangular or flared design
- Box understructure for strength and safety
- Heavy-duty locking rings for safe, secure positioning
- Lifting loops fold flat into recessed pockets

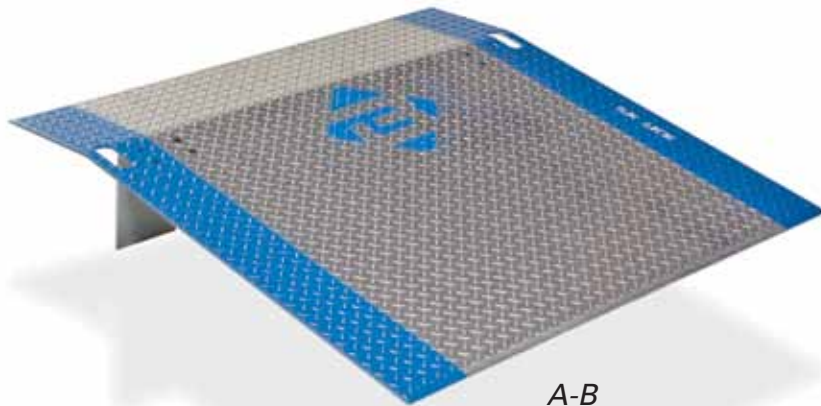
Railboards are designed for use on all types of railway boxcars, including refrigerated and special cars for the lumber and the paper industries. First position the railboard next to the railcar. The locking ring will automatically secure the railboard against the dock. Box understructure bumpers fit around the car latches to protect door latch. All railboards are designed and built to match the specific dock conditions. The Bluff design is finalized by using information provided on a Bluff railboard worksheet. This information allows the manufacture of a railboard that has the proper width, length, bends, capacity, and understructure.



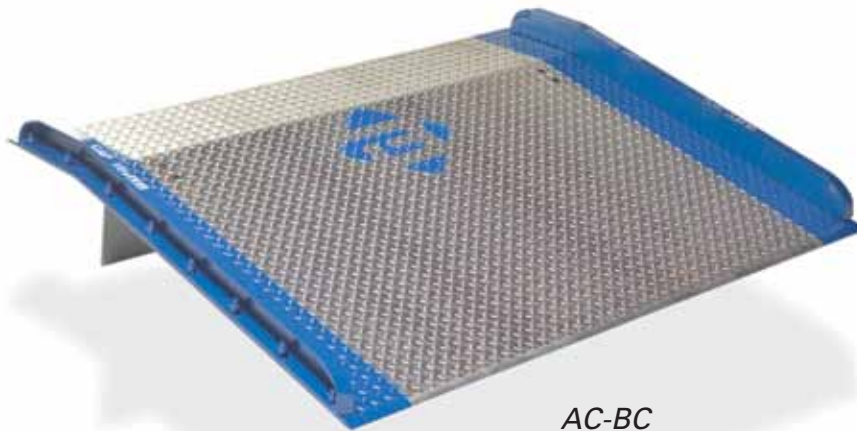
LOCKING RING DESIGN



FLARE OPTIONS



A-B



AC-BC



EZ-ROLL

Aluminum products are ideal for low to medium volume dock loading application.

ALUMINUM DOCKPLATE (A-B)

- Recommended for nonpowered loading applications
- Available in two capacity ranges
- Low-cost solution to light activity applications
- Bolt-on steel legs for securing position between the dock and the trailer

Lip bend is 11°. Standard lip length for conventional trailers is 11", option of 14" for refrigerated applications. Aluminum dockplates are designed to work well with pallet trucks or other nonpowered loading equipment. Machine beveled deck edges allow for smooth transition. Wide range of sizes available.

ALUMINUM DOCKBOARD (AC-BC)

- Capacities from 10,000 to 15,000 pounds
- Full-length structural steel bolt-on curbs

Steel curbs are bolted to the aluminum diamond pattern plate for increased strength, and to help prevent runoff. Locking legs provide secure positioning. Lip bend is 11°. Standard lip length for conventional trailers is 11", option of 14" for refrigerated applications. Widths from 60" to 72", and lengths from 36" to 96".)

OPTIONS FOR PLATES AND BOLT-ON CURB BOARDS

EZ-ROLL

- One person positioning without the use of a forklift
- Telescoping/out of way while board in use

LIFTING CHAINS

- Positioning of board by forklift

Manufactured and tested in compliance with ANSI Standard MH30.2

Selections should consider the extremes rather than averages. All trucks need to be loaded or unloaded, not just the average ones.

CAPACITY

PLATES

- Weight of equipment and heaviest load

BOARDS

- See chart

CAPACITY SELECTION CHART		
4-Wheel Forklift	3-Wheel Forklift	Board Capacity
2,000 – 3,000	2,000	10,000
3,000 – 4,000	2,500	13,000
5,000	3,000 – 3,500	15,000
5,000 – 6,000	4,000 – 5,000	20,000

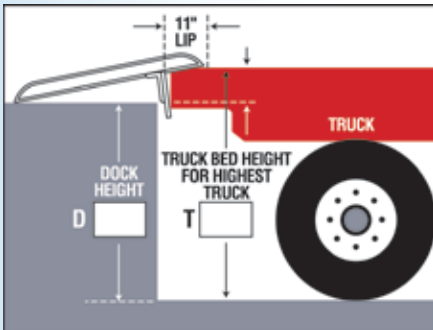
- Capacity rated for single-shift operation at a 3 mile per hour maximum rate of travel.
- Stackers and other narrow aisle loaders should not be used on a dockboard.
- Paper roll clamp and multi-shift loading add 5,000 pounds to the board capacity.

LENGTH

To determine the proper length of a dockboard/plate, three items are required:

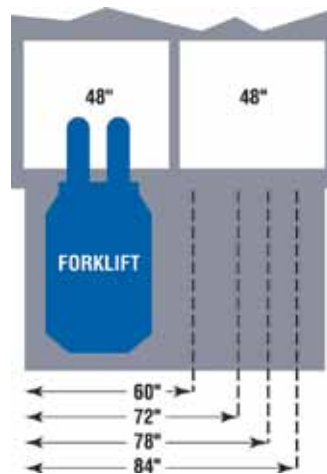
- Dock height (D)
- Height of highest truck (T)
- Gradability of loading equipment used

MAXIMUM TRAILER HEIGHT SERVED	
Freight Line Trailers	46" - 56"
Flatbed Trailers	50" - 60"+
Bob Tail Trucks	46" - 48"
Containers	56" - 62"
Reefer Trailers	50" - 60"



WIDTH

Bluff recommends a minimum product width of 12" to 18" wider than the overall width of the vehicle or pallet used. For improved end loading efficiency, you may consider increasing board width, as shown in diagram.



All railboard applications are factory quoted upon receipt of a fully completed railboard worksheet.



The yardramp is easily moved into position at trailers, railcars, or docks.

STEEL YARDRAMP (SYS)

- All-steel welded construction
- Capacities from 16,000 to 60,000 pounds
- Wide range of capacities and sizes offered
- Curbs 8" tall for more safety and capacity
- Double-acting hydraulic pump to adjust the unit to the proper position
- Solid 18" rubber tires provide excellent traction without worry of puncture
- Pneumatic tires optional
- Beveled approach provides a smooth transition
- 36' unit includes a level-off for unloading end pallets
- 30' straight design for quick loading from dock to ground
- Unit without undercarriage for permanent locations
- Lip purchase into trailer is 16"

CAPACITY

The capacity you select must be greater than the combined weight of your heaviest forklift and the heaviest weight of anticipated loads it will carry.

WIDTH

Yardramps are available in 70" and 84" widths, with the 84" model accommodating more applications. The width should be at least 15" wider than the widest equipment to be used on the ramp. Usable width is 6" less than overall width.

For ground to trailer applications, 84" wide ramp with a level-off works best. Ground to dock usage generally only require a 70" wide straight ramp. For railcar use, select the ramp width wide enough to prevent the forklift from hitting the ramp curbs as it turns into the railcar. Consult your forklift manual for radius turning capabilities. Measure railcar door openings to make sure the yardramp will fit.

TYPE AND LENGTH

Straight – 30' Length

This type is used primarily for ground to dock applications, where no level-off is required.

Level-off – 36' Length

A six-foot level-off at the end of the ramp aids maneuverability of forklifts. This allows forklifts to handle pallets next to the door openings. The 36' ramp is most popular where end-loading is required. Level-offs allow forks to tilt under end loaded pallets. Level-off type is noted by the letter "L" following the model number.

OPTIONS AND ACCESSORIES

- Ramp clamp or tow bar, one is standard
- Pneumatic tires are available for use on uneven surfaces

LEASING AVAILABLE

MAXIMUM & MINIMUM SLOPES, LIP HEIGHTS, LIP LENGTHS				
LENGTH & CONFIGURATION	30' STRAIGHT	30' LEVEL-OFF	36' STRAIGHT	36' LEVEL-OFF
Wheel Diameter	18"	18"	18"	18"
Maximum Usable Lip Height	78"	67"	70"	70"
Percent of Grade	23%	23%	19.3%	19.3%
Degrees of Incline	13.0°	13.0°	10.9°	10.9°
Minimum Usable Lip Height	40"	34"	42"	32"
Percent of Grade	11.6%	11.8%	10.1%	9.2%
Degrees of Incline	6.2°	6.2°	5.3°	5.3°

GIRDERS

- Heavy-duty formed steel side girders provide main load-bearing capability
- Steel side girders welded to steel Z cross members form a superior frame

Multiple Z cross members are welded to the side girders, then self-cleaning steel grating is welded to the Z members to form a one-piece unitized yardramp.



GIRDERS

GRATING

- Serrated for traction
- Self-cleaning

Serrated grating provides excellent traction and the open design prevents build-up of water, snow, oil, grease, and miscellaneous debris. The lower end approach plate provides maximum support and smooth transition onto the ramp grating surface.

Note: Grating not supportive of forklift turning maneuvers.



GRATING

RAMPCLAMP

The rampclamp assists operator in moving the yardramp over short distances. Forklift tine inserts into the swiveling lift loop and is secured by locking device.



RAMPCLAMP

TOWBAR

The towbar features a fast-locking, easy hook-up to the yardramp and makes towing over long distances practical. A quick disconnect feature improves handling efficiency.



TOWBAR

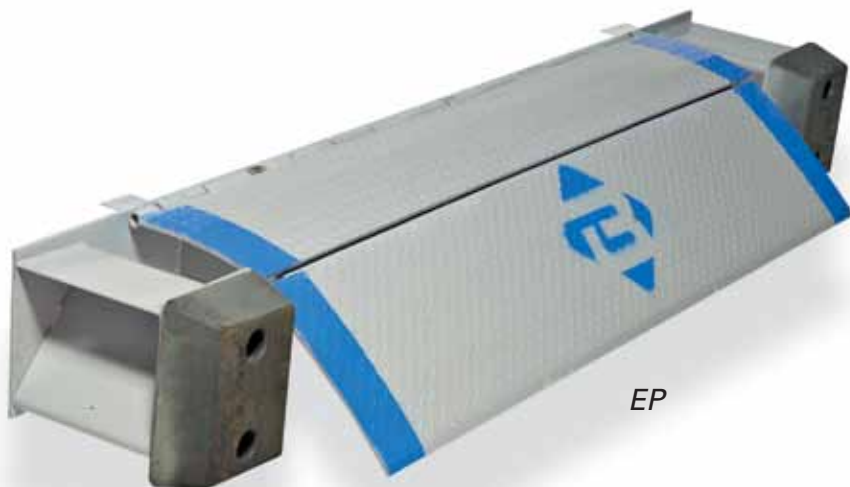
HYDRAULIC PUMP

- Double-acting
- Two hydraulic cylinders

The hydraulic system allows for smooth and quick raising of the front lip to the proper dock or trailer height. Simply open the release valve to safely lower the unit into position. The pump is mounted internally to protect it from accidental damage.



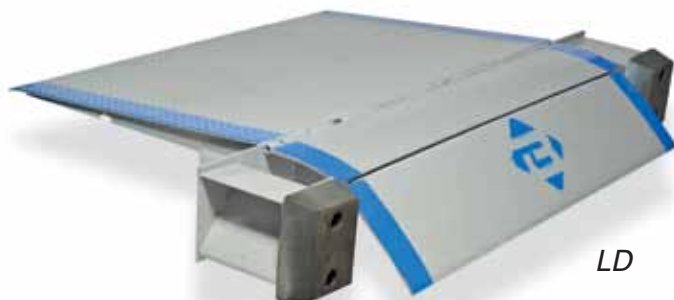
HYDRAULIC PUMP



EP

EDGE-OF-DOCKLEVELER (EP)

- Capacities from 20,000 to 25,000 pounds
- Widths of 66", 72" & 78"
- Automatically returns to stored position when truck leaves
- Self-storing handle
- Refrigerated lip optional
- Bumper and bumper blocks are included
- Steel faced bumpers available



LD

LO-DOCKLEVELER (LD)

- Raises edge-of-docklevelers to proper working height
- Completely assembled; no site welding required

Now without expensive dock alterations, you can raise the height of your present dock as much as 11". Lo-docklevelers can easily be installed on any concrete dock without welding or modifications. Refrigerated lip is optional. Complete technical information and installation instructions are available upon request.

Bluff's edge-of-dockleveler is designed to have a working range of 5" above and 5" below dock. Because of gradability problems docklevelers are not recommended for use with pallet jacks or stackers.



FAST AND EASY OPERATION

Fast and easy to operate, Bluff's edge of dockleveler is positioned by lifting a self-storing handle and pulling the handle to the dock floor. The latch assembly activates the lip forward to the floor of the trailer as the handle is lifted. When released, the handle automatically returns to a stored position. The optimum dock height for conventional trailers is 51", while the proper dock height for refrigerated equipment is 55". Refrigerated lip is optional. Widths of 66", 72" and 78" are available.

STEEL AND ALUMINUM WHEELRISERS (SWR and AWR)

- Eliminates unsafe, below dock loading conditions
- Reduces damage to loading equipment
- Heights up to 12"

Wheelrisers allow trailers to be positioned properly above dock for more efficient loading. Widths of 18" and 24". Lengths to accommodate both single, dual, or tandem axle trailers. Wheelrisers can be portable or permanently positioned. Custom sizes are available.



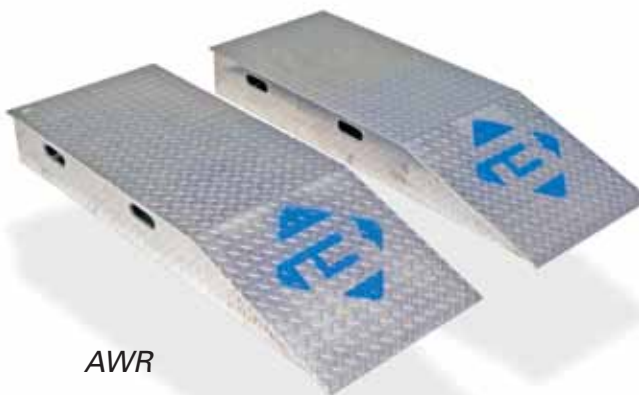
SWR

STEEL (SWR)

- Tabs for anchoring

ALUMINUM (AWR)

- Have hand holds for easy moving.



AWR

STEEL PLATFORMS (SP)

Place a Bluff steel platform in front of any railcar for 90 degree loading/unloading. Place it in the open and service as many as three trailer positions at the same time. Steel platform affords 90 degree turnability for safe forklift maneuvering. Steel platforms are a fast, economical way to expand your dock area and increase freight handling capabilities without the expense of site or concrete work. Steel platforms can easily be relocated to other areas of your yard where a free-standing loading dock may be needed. This means more trucks or railcars can be serviced while freeing up other critical dock doors. Optional adjustable, telescoping legs of 44" to 55" allow elevations to meet most dock height requirements. For remote areas steel platform along with a Bluff yardramp can serve as a satellite unloading area.



SP



SR



LIFT OUT RAIL OPTION

Improve plant safety and efficiency with Crash Guard™ by reducing the costs associated with employee injury, machinery down time, insurance claims, and building repairs due to accidental collisions.

SAFETY RAIL (SR)

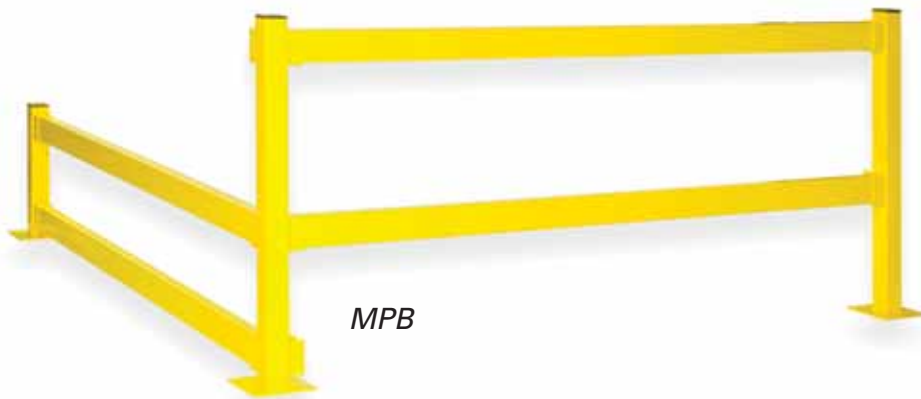
- Formed 10 gauge steel rails made in lengths up to 12'
- Rails can withstand impacts of 10,000 pounds traveling at 4 miles per hour
- Structural steel posts have open sides for easy assembly
- Base plates are 10" square x 5/8" thick steel
- Fasteners are included
- Rounded top rails will prevent injuries and provide added personnel protection
- Safety yellow powder coat finish

Crash Guard installs in minutes with ordinary hand tools and concrete drill. Safety rail systems protect personnel, machinery, building structures, in-plant offices, aisle ways, electrical panels, tool cribs, conveyors, finished products, receiving docks, cooling equipment, and parking areas.

MODULAR PROTECTIVE BARRIER (MPB)

- Light-weight guard rails for easy lifting
- Simple to install, add-on or to custom size guardrail lengths in the field
- The "lift out" design allows temporary access to specific areas quickly and safely
- 42" double guardrail meets OSHA guidelines for fall protection
- Safety yellow powder coat finish

Bluff's Modular Protective Barrier System offers an inexpensive and simple answer to solving very difficult safety barrier protection problems in your plant. Protect personnel, machinery, in-plant offices, electrical panels, tool cribs, conveyors, finished products, receiving docks, cooling equipment and many other areas in your plant by utilizing Bluff's economical Modular Protective Barrier guardrail system.



MPB



INSTALLS IN MINUTES

DOOR TRACK PROTECTORS (DG)

- Chamfered edge reduces risk of hand injury when lowering door
- Wrap-around track design allows free door operation
- Projects 7" from wall
- Anchors to both wall and floor
- Safety yellow powder coat finish
- Columns are 3/16" thick steel
- Base plate is 3/8" thick steel with three 5/8" holes (fasteners not included)

Protects overhead door tracks from damage, reducing overall maintenance costs.



DG

POST PROTECTOR (PO)

- Various thickness protections available in 1/4", 3/8", and 1/2"
- Height protection available in 12", 18" and 24"
- Standard models fit around rack posts up to 4" wide
- Safety yellow powder coat finish

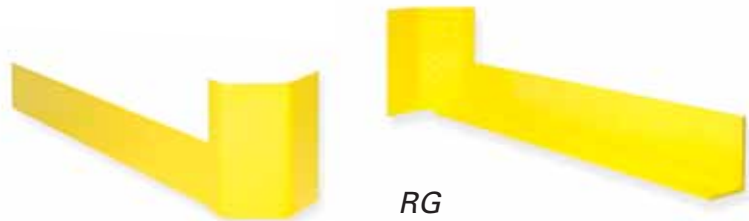


PO

RACK GUARD (RG)

- Heavy duty design
- Wrap-around feature protects rack from both front and aisle damage
- Bolted to floor for extra stability
- Safety yellow powder coat finish

A simple and inexpensive way to absorb fork truck impact that can damage pallet rack uprights and valuable product.



RG

BOLLARD (SRB)

- 6" I. D. sch 40 pipe
- 42" high
- 10" x 10" x 5/8" base
- Plastic Cap
- 3/4" mount holes
- 5/8" anchors provided
- Safety yellow powder coat finish

Protect personnel and machinery with Crash Guard bollards. Simply bolt into position – no concrete work required.



SRB

SERVICE YOU CAN STAND ON

- **Quality dock & warehouse equipment manufacturer**
- **Responsive sales support team**
- **Quick ship items stocked in regional warehouses**
- **Short lead times on manufactured items**
- **Shipping times as promised**
- **Marketed through material handling dealers**

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