



BLUFF MANUFACTURING
The Complete Dock Line

**Economical Dock and Warehouse Equipment
Designed to Help Move Products Quickly and Safely**

STEEL YARDRAMP (SYS)

- All-steel welded construction
- Capacities from 16,000 to 60,000 pounds
- Wide range of capacities and sizes offered
- Solid rubber tires standard, pneumatic tires optional
- Steel serrated grating
- Double-action hydraulic pump

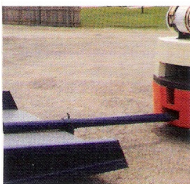
The yardramp is simply moved into position at trailers, railcars, or docks. The operator utilizes a self-contained, double-acting hydraulic pump to adjust the unit to the proper position. In minutes you are ready to load or unload freight. Solid 18" rubber tires provide easy positioning and towing. Open serrated steel grating provides excellent traction while preventing build-up of snow, water, and other debris. Beveled approach provides a smooth transition. For truck or railcar to ground applications choose a 36' unit including a level-off. Choose a 30' straight design for quick loading from dock to ground.

For easier handling of freight off docks, trailers and railcars.



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.

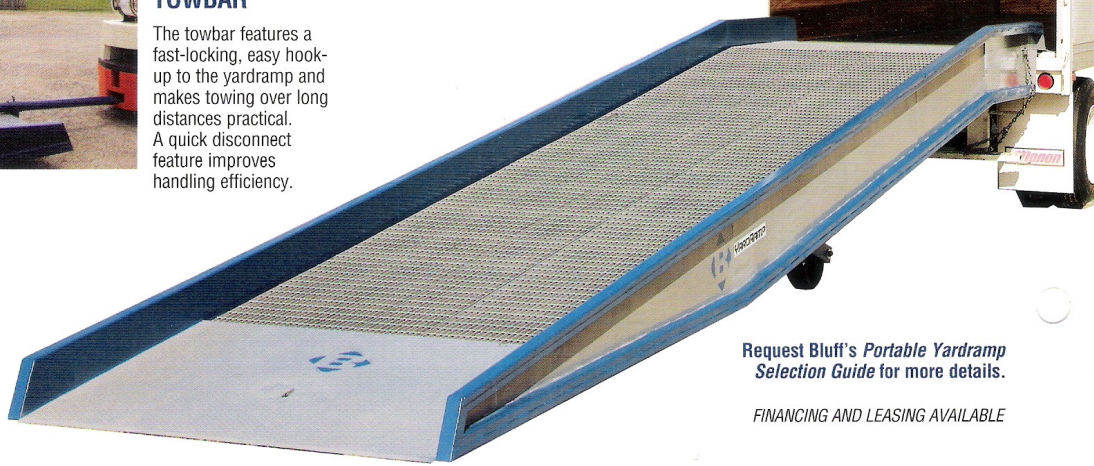


TOWBAR

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.



Yardramps provide access to trailers where a dock is not available. Also useful for dock-to-ground applications.



Request Bluff's *Portable Yardramp Selection Guide* for more details.

FINANCING AND LEASING AVAILABLE

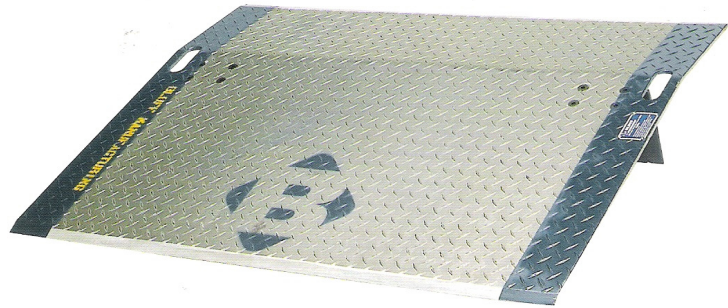
ALUMINUM

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.

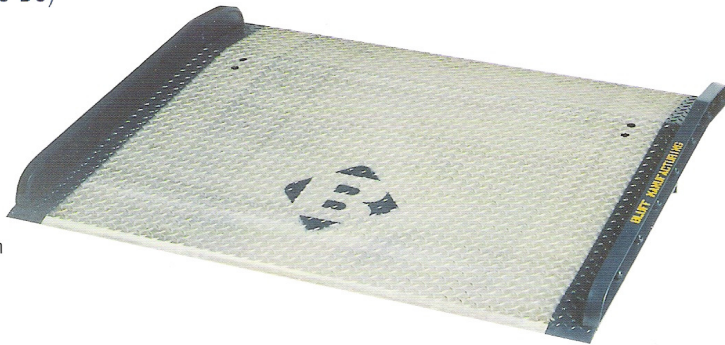
Aluminum products are ideal for low to medium volume dock loading application.



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/self-storing handles

LIFTING CHAINS

- Allows forklift use in placement

LOOP HANDLES

- Optional hand hold welded to legs



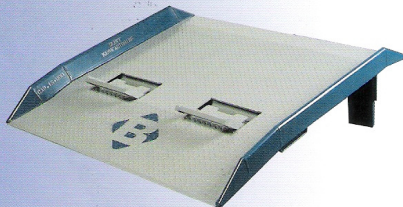


BLUFF

MANUFACTURING, INC.

DOCK AND WAREHOUSE EQUIPMENT

Fully welded steel dockboard provides a safe ramp for heavy-duty application. Selecting the proper Bluff product for your application will improve product life, safety, and loading efficiency. Review the product selection guide on the back page prior to ordering to ensure your product selection is correct.



STEEL DOCKBOARD (TFL)

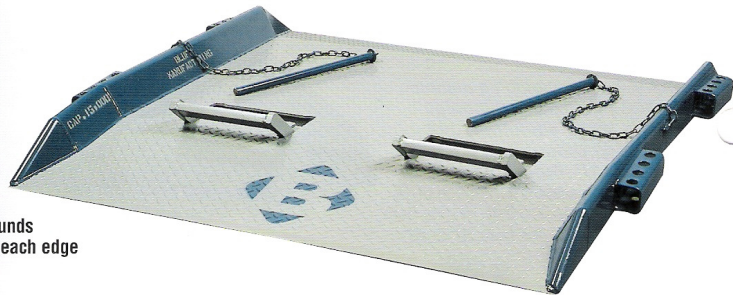
Same basic design as the "T" dockboard, but uses locking legs in lieu of steel pins.



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.



STEEL DOCKBOARD (T)

- All-welded steel construction
- Capacities from 15,000 to 40,000 pounds
- Two four-hole pin pockets placed on each edge
- 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 84".

STEEL DOCKBOARD (SC)

- Steel plate all welded curbs
- Lifting chains included
- Capacities of 10,000 and 13,000 pounds

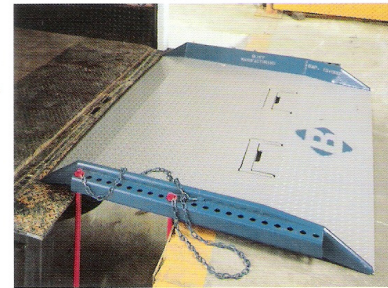
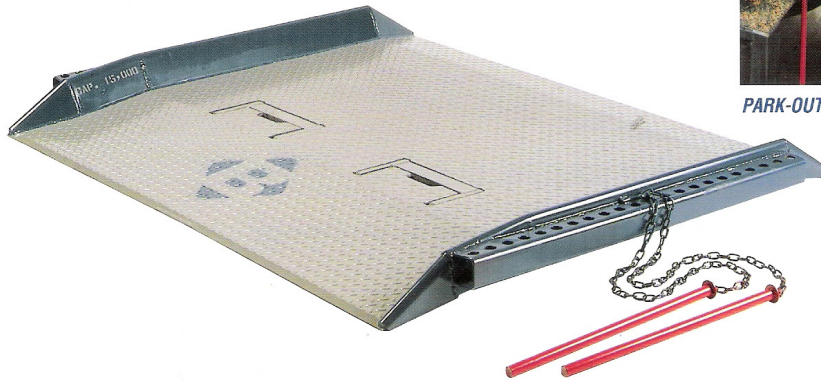
This economical steel dockboard with all welded curbs, lifting legs and lifting chains is designed for use with 3,000 pound (10,000 unit) and 4,000 pound (13,000 unit) capacity forklifts. Available in widths of 60" and 72".



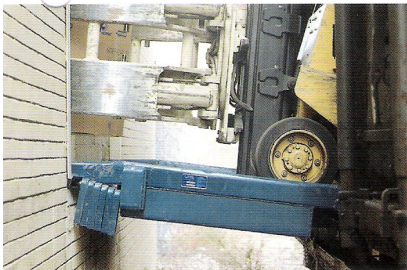
RED PIN STEEL DOCKBOARD (C)

- 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 84". Lengths from 48" to 96".



PARK-OUT APPLICATION

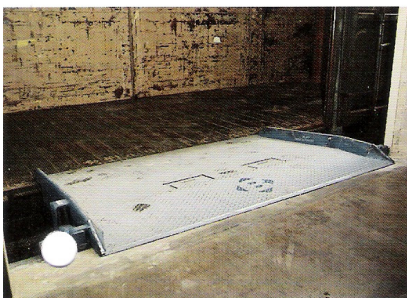


LOCKING RING DESIGN

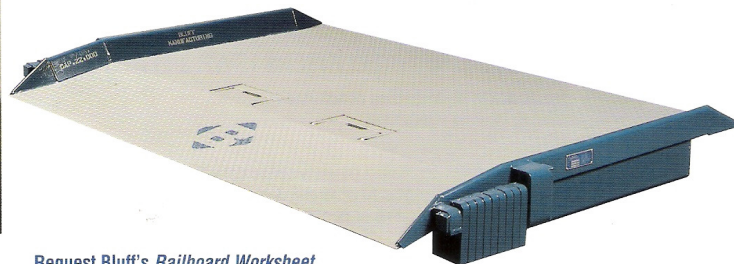
RAILBOARD (R)

- All-welded steel construction
- Capacities from 15,000 to 80,000 pounds
- Rectangular or flared design
- Box understructure for strength and safety
- Heavy-duty drop ring 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.

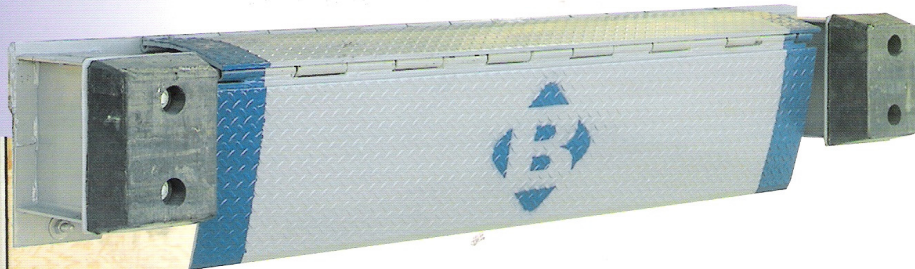


FLARED OPTION



Request Bluff's *Railboard Worksheet* for more details.

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.



EDGE OF DOCKLEVELER (EP)

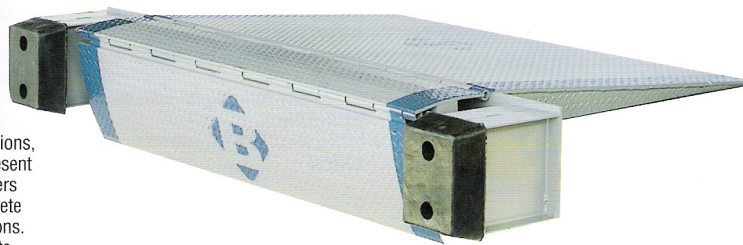
- Capacities from 20,000 to 25,000 pounds
- Automatically returns to stored position when truck leaves
- Self-storing handle
- Bumper and bumper blocks are included

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 72" and 78" are available.

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.



STEEL AND ALUMINUM WHEELRISERS (SWR and AWR)

- Eliminate unsafe, below dock loading conditions
- Reduce 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.



CRASH GUARD

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

- 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 enamel over gray primer coat

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.



DOOR TRACK PROTECTORS

- 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 enamel over gray primer coat
- Columns are 3/16" thick steel
- Base plate is 5/8" thick steel with three 11/16" holes (fasteners not included)

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



POST PROTECTOR

- 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
- Base plates have four 9/16" mounting holes (fasteners not included)
- Safety yellow enamel over gray primer coat
- Boxed for shipping protection

Before your rack and stored items crash on the floor, protect them with the best rack protection your money can buy.

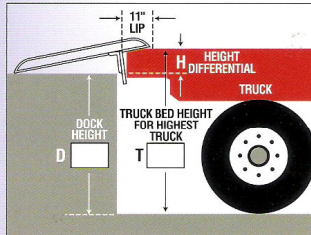


Choosing the correct **SIZE** and **CAPACITY** of equipment helps improve your dock operation. The following guidelines will help you determine what equipment best suits your individual needs.

LENGTH

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

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



HEIGHT DIFFERENTIAL

Highest Truck Height T

We recommend using 55" for the T unless your customer says otherwise, since 55" is the maximum height of most trailers. On refrigerated or container trailers use 59".

T = Inches

Dock Height D

(You must measure this.)

- D = Inches

Height Differential (Maximum) H

H is equal to T minus D.

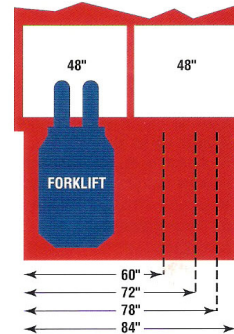
H = Inches

LENGTH CHART

Height	DOCKPLATE LENGTH		DOCKBOARD LENGTH	
	Pallet Jack	Propane Forklift	Propane Forklift	Electric Forklift
3	36"			
5	48"			36"
7	60"	36"		48"
9		60"		84"
11		72"		96"
13		84"		
15		96"		

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.

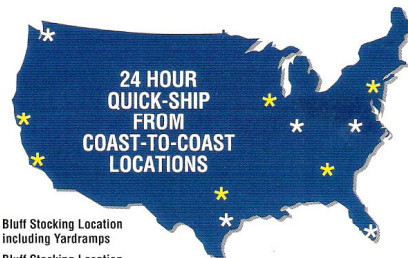


CAPACITY SELECTION CHART

3-Wheel Forklift	4-Wheel Forklift	Board Capacity
2,000 - 2,500		10,000
	2,000 - 3,000	10,000
3,000 - 3,500		15,000
4,000 - 5,000		20,000
	3,000 - 5,000	15,000
	5,000 - 6,000	20,000
Lifting Capacities		

CAPACITY

- 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.
- Capacity rated for single-shift operation at a 3 mile per hour maximum rate of travel.
- For all railboard applications, we require a fully completed railboard worksheet.



★ Bluff Stocking Location including Yardramps
 ☆ Bluff Stocking Location

YOUR BLUFF DEALER

NAVELES INDUSTRIAL SALES

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