

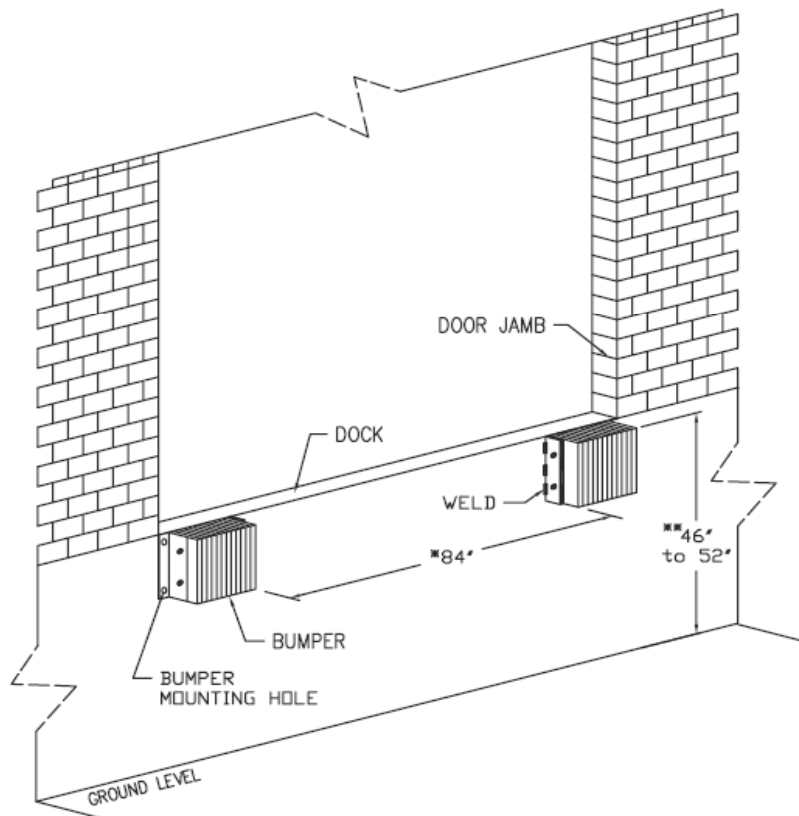


LOADING DOCK BUMPERS INSTALLATION INSTRUCTIONS

WARNING: Post safety warnings and barricade work area, at dock and ground level, to prevent unauthorized use of the dock position while service work is being performed.

Loading dock bumpers are installed directly on the dock wall or welded to bumper mounting brackets before being installed on the dock wall.

The most common method for installing bumpers and brackets is using wedge anchors. The alternative method, if sufficient embedded steel is available, is to weld the bumpers/brackets or to use a combination of both methods (e.g. weld one side, anchor the other). Most bumpers will be installed using one of the following mounting methods:

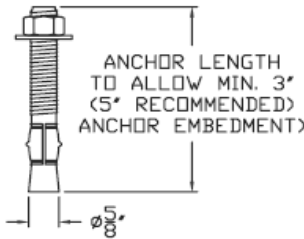


DWG. 1 BUMPER LOCATION CONCEPT VIEW (P1 STYLE BUMPERS SHOWN)

NOTE:

* 84" is the most common inside dimension for centered mounting of dock bumpers where no dock leveler exists. If a dock leveler exists, it is common to weld the inside edge of the dock bumper to the curb angle of the dock leveler pit, if the curb angle exists and is in good enough condition to support this type of anchoring. The best mounting style in this case is a "P1" style bumper.

** If the actual dock height is less than 46", an above dock riser bracket may be required to provide proper dock protection.



For concrete and brick walls use 5/8" diameter wedge anchor. Minimum embedment length is 3", but 5" is recommended.

"Red Head" brand wedge anchors (DWG. 2), or equivalent, are recommended.

To finish expanding anchor, tighten nut 3 to 5 turns (7 to 14 Lb. tension.)

DWG. 2 RED HEAD BRAND
ACCEPTED AND RECOMMENDED
ANCHOR TYPE

Anchoring type Fastening Method:

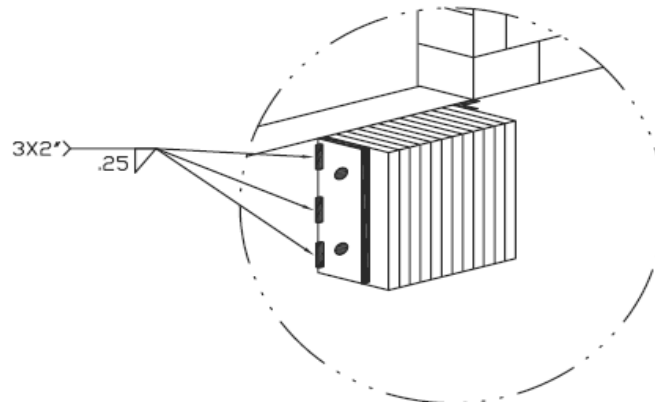
1. Identify the exact bumper position on the loading dock referencing DWG. 1 - BUMPER LOCATION CONCEPT VIEW.
2. Mark location of mounting holes on the wall. Make sure that any hole is distanced a min. 3" away from the concrete or brick wall edge.
3. Using a drill bit whose diameter equals the anchor diameter, drill hole depths exceeding the minimum embedment. Clean hole.
4. Position bumper at its location and make sure that bumper sits flat on the wall surface, apply appropriate wedge anchors through each mounting holes. Tighten anchor nuts according to specification above.

Bumper Welding Fastening Method:

1. Identify the exact bumper position on the loading dock referencing DWG. 1 - BUMPER LOCATION CONCEPT VIEW.

NOTE: Welding bumper to the dock door jamb and some types of dock leveler curb angles is not recommended. Some older designs do not have enough structural integrity to support against shocks transmitted from trailer impact. However, many later dock leveler models are formed using sound structural methods and may be able to support this type of installation. Verify with dock leveler contractor for accurate information.

2. Position bumper at its location; make sure that bumper sits flat on the wall surface and installed location of bumper will not interfere with leveler operations. Tack weld bumper to the dock steel structure first. Finish welding by applying 0.25" wide and 2" long weld at 3 places on each welded side (see DWG. 3).



DWG. 3 BUMPER WELDING FASTENING METHOD
(P1 STYLE BUMPER SHOWN)