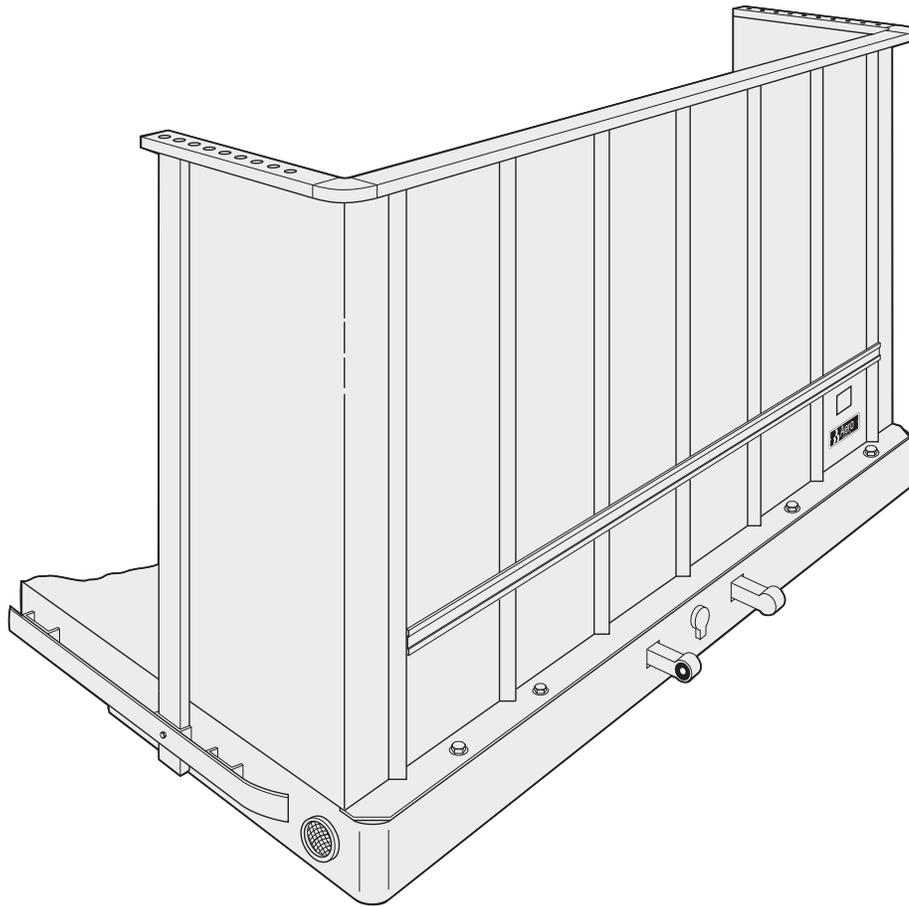




Serving the Truck & Trailer Industry
Since 1944

**Meets D.O.T.
Specifications**



D.O.T. Bulkhead

Installation Instructions

Attention Dealers: Please give this manual to the customer when product is delivered.

Call 800-535-9545 | www.aeroindustries.com

Indianapolis, IN | Omaha, NE | Streetsboro OH

D.O.T. Bulkhead

This manual explains how to install and maintain a D.O.T. Bulkhead.
Read this entire manual before installing and operating this product.
Read all safety messages before installing and operating.

Installation Directory

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Trailer Preparation

- 1) Make sure the trailer is certified for the structural integrate needed to implement the Aero D.O.T. Bulkhead.
- 1) Be sure that the bulkhead you are installing is the correct size and width to fit your flatbed application.
- 2) Make sure there is a flat, clean surface where the bulkhead bottom rail will meet the trailer top rail. Grind down any welds on the trailer top rail which will create an uneven surface.
- 3) A trailer stake Pocket MUST BE available for the leg of the bulkhead to rest in. For a 10" wrap bulkhead, the center of the pocket must be 10-1/2" from the front of the trailer. For a 22" wrap bulkhead, the center of the pocket must be 22-1/2" from the front of the trailer. Failure to locate a pocket around the leg of the bulkhead WILL void the D.O.T. rating.

Tools/Materials Required for Installation

Marker or Felt Pen	Torque Wrench
Tape Measure	Welder (If necessary to Install Stake Pockets)
24" Square	Drill Bits: 9/16"
Hammer	Sockets: 3/4"
Electric or Air Drill	Open End or Box Wrenches: 3/4"
Electric or Air Impact Wrench	Silicone Caulking

WARNING

READ & FOLLOW THIS WARNING TO AVOID DEATH OR SERIOUS INJURY

The Aero® D.O.T. Bulkhead is limited in its ability to protect persons or property inside the truck's cab in the event of any cargo becoming loose as a result of an accident or failed cargo securement device or system.

The Aero® D.O.T. bulkheads have been tested under 49 CFR 393.114 (c) (1) for heights under 6 feet or 393.114 (c) (2) for heights over 6 feet for static load testing. The Aero® D.O.T. Bulkheads have NOT been designed for the penetration resistance under 49 CFR 393.114 (d).

The rating of each D.O.T. Bulkhead depends on (a) the design and structure of the platform and (b) the attachment of the Bulkhead to the platform. Consult trailer manufacturer to determine if trailer is designed for D.O.T. Bulkhead.

Drivers and Owners are responsible for complying with the regulations issued by the United States Department of Transportation (D.O.T.) and the Federal Motor Carrier Safety Administration (FMCSA) to secure and monitor the cargo load, including proper use and application of tie downs, dunnage, dunnage bags, shoring bars, chocks, wedges, cradles, rails, and other prescribed securement devices. (See 49 CFR 392.9 and 393.100 through 393.136.) The Aero® D.O.T. Bulkhead provides only a portion of the requirements to secure the load under the law.

Use of the Aero® D.O.T. Bulkhead does not change or reduce the load securement requirements imposed by law. **Drivers and Owners are responsible for complying with the specific commodity cargo requirements of the FMCSA** at 49 CFR 393.116 through 393.136, including the securement of logs, dressed lumber, building products, metal coils, paper rolls, concrete pipe, intermodal containers, vehicles, heavy equipment and machinery, crushed vehicles, specified containers, and large boulders.

Bulkhead must be properly installed per the instruction manual. NOT properly installing the bulkhead could result in death or serious injury. Read all manuals and safety information on website before installing.

Bulkhead and vehicle platform must NOT have damaged or weakened components. A damaged or weakened bulkhead could result in death or serious injury. See manual on how to inspect and properly maintain bulkhead.

Modifications to the bulkhead may damage or weaken the bulkhead. A damaged or weakened bulkhead could result in death or serious injury. See manual for what modifications can be made to the bulkhead.

D.O.T. Bulkhead

Installation Instructions

Important Safety Information

General Safety Messages

- ⚠ WARNING:** Read this entire manual and all instructions before installation, operation, maintenance or repairs of this product. For the most current information, see also Aero's website for complete safety, installation instructions, and maintenance information.
- ⚠ WARNING:** Be sure that your working platform is secure. Use OSHA approved ladders or scaffolding to work above ground level.
- ⚠ WARNING:** Always wear safety glasses during installation and maintenance.

⚠ WARNING	
<p>Potential D.O.T. Bulkhead Hazards:</p> <ul style="list-style-type: none">• Cargo is improperly loaded and secured.• Cargo weight exceeds load limit of the bulkhead.• Bulkhead is improperly installed/modified/maintained.• Vehicle platform structure to which the bulkhead is mounted is improperly designed and/or maintained.	
OPERATIONAL USAGE - D.O.T. Bulkhead	
<p>The Aero® D.O.T. Bulkhead provides only a portion of the requirements to secure the load under the law.</p> <p>Drivers and Owners are responsible for complying with the FMCSA/D.O.T. regulations to secure and monitor the cargo load. NOT complying with the regulations to secure and monitor the cargo load could result in death or serious injury.</p> <p>The Aero® D.O.T. Bulkhead is limited in its ability to protect persons or property inside the truck's cab in the event of any cargo becoming loose as a result of an accident or failed cargo securement device or system.</p>	
See website for more detailed information: www.dotbulkheadoperation.com	
INSTALLATION/MAINTENANCE - D.O.T. Bulkhead	
<p>The rating of this DOT Bulkhead depends on (a) the design and structure of the platform and (b) the attachment method of the Bulkhead to the platform. Consult trailer manufacturer to determine if trailer is designed for this bulkhead.</p> <p>Bulkhead must be properly installed per the instruction manual. NOT properly installing the bulkhead could result in death or serious injury. Read all manuals and safety information on website before installing.</p> <p>Bulkhead and vehicle platform must NOT have damaged or weakened components. A damaged or weakened bulkhead could result in death or serious injury. See manual on how to inspect and properly maintain bulkhead.</p> <p>Modifications to bulkhead may damage or weaken the bulkhead. A damaged or weakened bulkhead could result in death or serious injury. See manual for what modifications can be made to the bulkhead.</p>	
Label Part# 0920-061001	
See website for more detailed information: www.dotbulkheadmaintenance.com	1-800-535-9545
	

Explanation of Signal Words

- ⚠ WARNING:** Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



D.O.T. Bulkhead

Installation Instructions

Aero Warranty

Aero Industries, Inc. Warrants all of its mechanisms and liner products to be free from defects in material and workmanship for a period of twelve (12) months from the date of invoice, and warrants all tarpaulins to be free from defects in material and workmanship for a period of six (6) Months from the date of invoice.

Terms, Conditions, and Instructions

Aero Industries shall be the sole judge of determining if a product or component's failure is due to a defect in material or workmanship, and by extension, determining if a product will be covered under this Warranty Policy. Further, Aero Industries reserves the right to refuse to warrant any products that were not installed in strict accordance with Aero's written installation manuals or have been modified. Damage due to normal wear and usage, will also not be covered under this Warranty Policy. This warranty is effective only if the product is properly installed, maintained, and used for its intended purpose.

Prior to returning a product or component to Aero Industries for warranty consideration, you must contact Aero's Customer Service at 1-800-535-9545 (extension 1968) to get a Return Material Authorization (RMA) number. Items received without a RMA number clearly marked on the shipment will be refused.

In addition, Aero Industries must approve in writing any costs related to a warranty claim in advance of any work being performed by a party other than Aero Industries. As such, Aero Industries will not be responsible for any charges or costs incurred that were not previously approved in writing.

All warranties are limited to repairing or, at Aero's option, replacing any component that is deemed defective. Aero shall not be liable for labor to replace any part found defective. Aero shall not be liable, under any circumstances, for any consequential, incidental or indirect damages or expenses associated with the warranted product.

Customer: If you have any concerns or questions prior to the installation of this product, please call our Customer Service at 1-800-535-9545.

D.O.T. Bulkhead

Installation Instructions

Check for a Stake Pocket

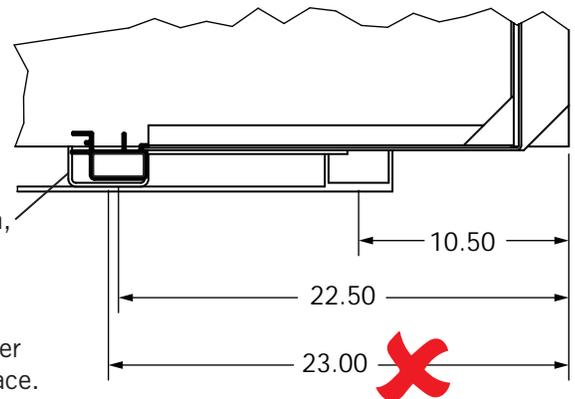
⚠ WARNING: The legs of the bulkhead must be installed into a stake pocket. Legs NOT properly installed into a stake pocket will cause the bulkhead to NOT comply with FMCSA 49 CFR 393.114 (c) (1) & (2) and could result in death or serious injury.

⚠ WARNING: There should be no holes at the pocket for the leg. Holes weaken the vehicle platform and will not comply with FMCSA 49 CFR 398.114 (c) (1) & (2) and could result in death or serious injury.

NOTE: Stake pockets may be purchased from Aero Industries, Inc. or trailer manufacturer.

- 1) Check to see if there is a stake pocket at the correct location for the leg. Standard Aero bulkheads are either 10-1/2" or 22-1/2" from the front of the trailer. The leg should be centered in the pocket. If a stake pocket is in the right location proceed with installation.

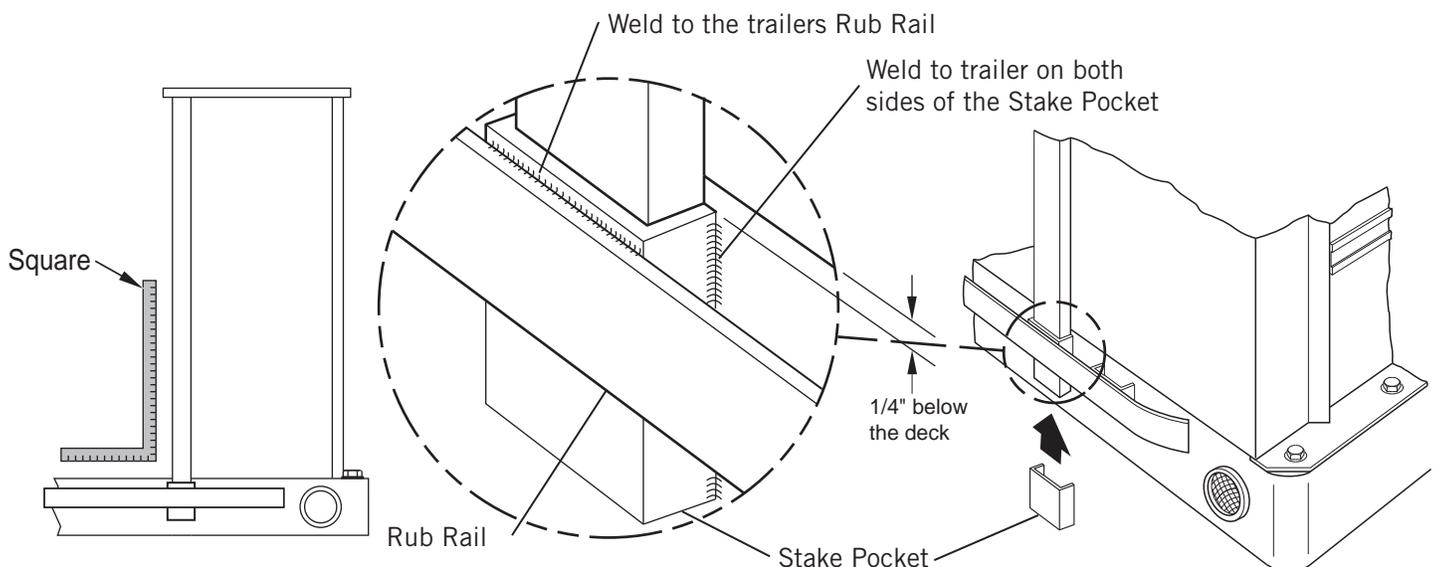
Stake Pocket is in the wrong location, remove pocket and weld new one.



- 2) Make sure the stake pocket is the same material as the trailer. Place a stake pocket around the bulkhead stake inside the trailer rub rail and drive it into position 1/4" below the decks top surface. Square the stake pocket with the decks top surface.

⚠ WARNING: It is the customer's responsibility to make sure that the stake pocket is properly welded for the type of materials and the proper filler material is used. The filler material (welding rod) must be for corrosion resistance and strength. Always use good welding practices. NOT being properly welded may weaken the effectiveness of the stake pocket and allow the bulkhead to fail.

- 3) Make sure that the bulkhead stake is square (90°) to the deck top surface, weld the stake pocket to the side-rail and the rub rail. Prime and paint the stake pocket and welds if steel.



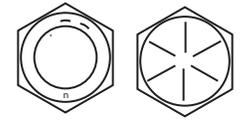
D.O.T. Bulkhead

Installation Instructions

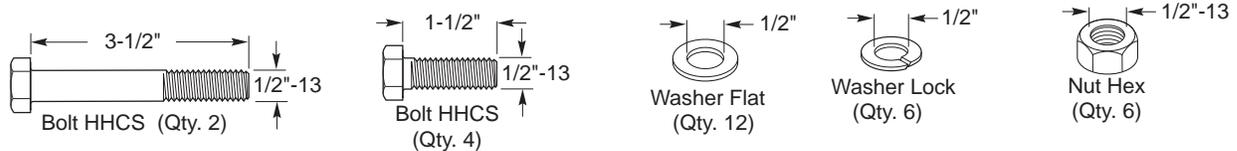
Installing the Bulkhead

NOTE: Check your hardware package against the drawings shown to ensure the right size and quantity. All hardware must be Grade 8 and Zinc coated.

NOTE: Use hardware pack #0611-960132



Grade 8 Markings

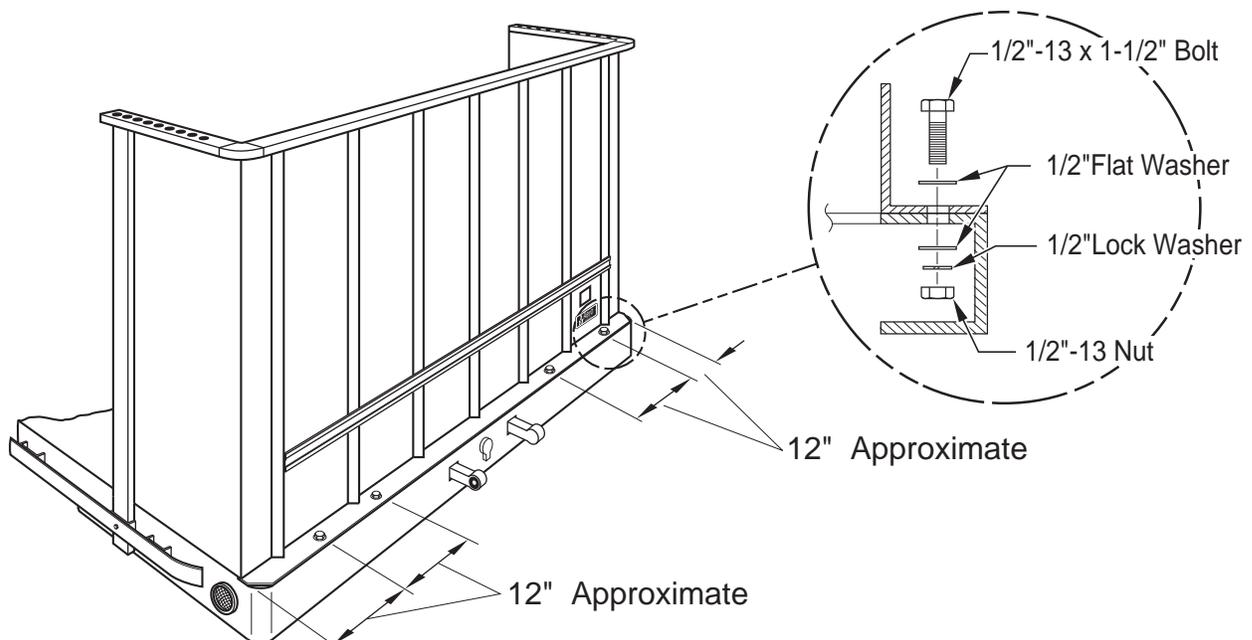


⚠ WARNING: The bulkhead must be mounted with the correct number and spacing of bolts per instructions to comply with FMCSA 49 CFR 398.114 (c) (1) & (2). Not using the correct number and spacing of bolts could result in death or serious injury.

⚠ IMPORTANT: Before drilling holes to mount the bulkhead across the front of the vehicle platform, be sure that there are no electrical or air lines underneath that will be damaged and that there is sufficient clearance on each side of the fifth wheel plate.

- 1) Four bolts are required across the front of the trailer. Drill four 9/16" holes (2 on each side) through the bottom plate of the bulkhead and the top wall of the trailer front rail with one bolt approximately 12" from each side of the trailer and one bolt approximately 12" from the first bolt. Bolt the bulkhead to the trailer using the 1-1/2" bolts, flat washers, lock washers, and hex nuts.

NOTE: Do not tighten nuts completely at this time.

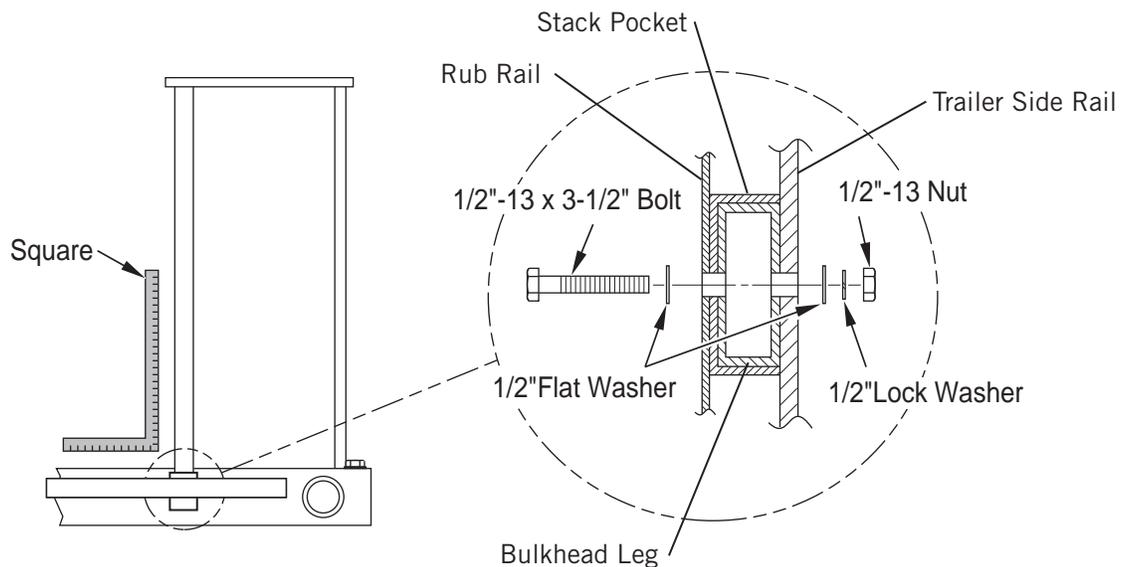


D.O.T. Bulkhead

Installation Instructions

- 5) Drill a 9/16" diameter hole through the rub rail, stake pocket, stake, and flatbed side-rail on each side of the trailer. Secure and tighten with 3-1/2" bolts, flat washers, lock washers, and nuts.
- 6) Tighten the four 1-1/2" bolts on the front of the bulkhead to 125 foot-pounds with a torque wrench.
- 7) Run a bead of clear silicone between the flatbed top rail and the bottom of the bulkhead to achieve a water tight seal. (Silicone not furnished)

⚠ WARNING: Torque all bolts to 125 foot-pounds using a torque wrench. Bolts NOT properly torqued will cause the bulkhead to NOT comply with FMCSA 49 CFR 393.114 (c) (1) and could result in death or serious injury.



How to Maintain Wraparound Bulkhead

▲ WARNING: Bulkhead must be properly installed per this instruction manual. NOT properly installing the bulkhead could result in death or serious injury. Read all manuals and safety information on website before installing.

▲ WARNING: Bulkhead and vehicle platform must NOT have damaged or weakened components. A damaged or weakened bulkhead could result in death or serious injury.

1) Be sure that all fasteners are tight and torqued to 125 foot-pounds.

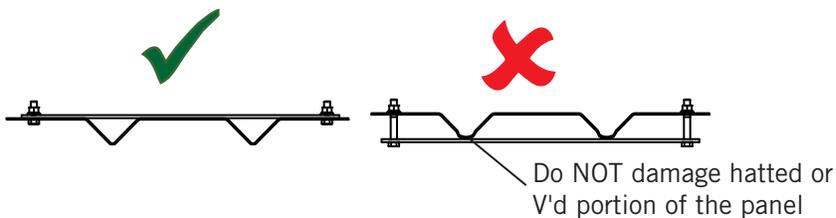
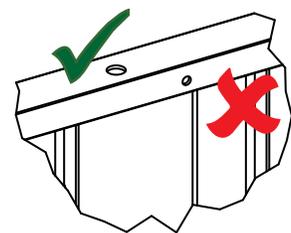
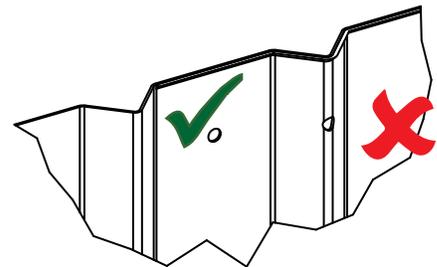
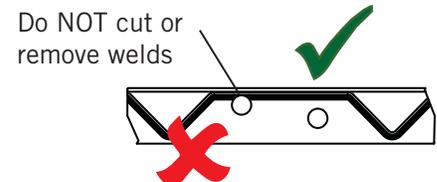
2) Inspect for load shift damage and weld cracks. Reweld and grind using proper welding practices.

▲ IMPORTANT: *Contact Aero Industries if you have any questions about repairing a damaged bulkhead.*

Modifications to Wraparound Bulkhead

▲ WARNING: Modifications to the bulkhead may damage or weaken the bulkhead. A damaged or weakened bulkhead could result in death or serious injury. Modifications to the bulkhead should NOT be done unless absolutely necessary.

- 1) Do NOT weld anything to the bulkhead.
- 2) Do NOT cut or remove any welds.
- 3) Drilled holes are NOT allowed in the following areas:
 - The vertical face of the top rail.
 - The hatted or V'd portion of the panel
- 4) Drilled holes are allowed in the following areas:
 - The flat portion of the panel between the hatted or V'd portion of the panel
 - On side panels
 - Holes for a bow are allowed on the horizontal face as long as they don't interfere with welds or the panel.
- 5) Items bolted to the panel should be on the inside to avoid damaging the hatted or V'd portion of the panel.



D.O.T. Bulkhead

D.O.T. Bulkhead



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