

Floor Stacked 55-Gallon Drums (4 - 4 Pattern) - Braced with Bull Boards 20' Equipment

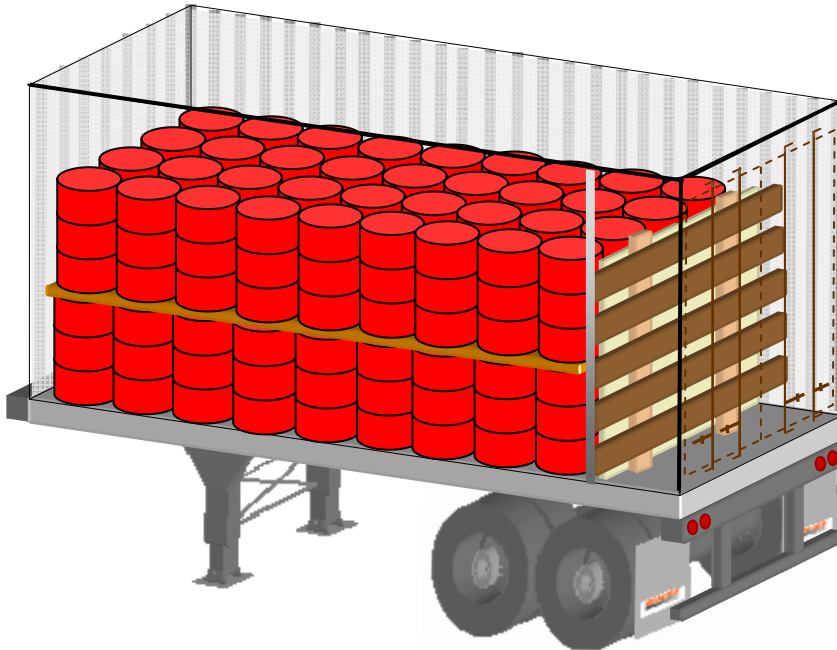
The following loading and securement method is for drums loaded two layers high in a 4 - 4 pattern (72 drums). The layer separators should consist of plywood (½") or equivalent strength material. The drums are restrained with bull boards that are inserted into the slotted door posts or corrugated sidewalls at the rear of the load.

The rear of the load is secured with 2"x4" or 2"x6" bull boards in order to restrict longitudinal movement of lading. The bull boards may be inserted into the slotted door posts or corrugated sidewalls of the container equipment. The bull boards are nailed to vertical 2"x4" stabilizers in order to prevent displacement. Plywood buffer protection (½") is required between the lading and the bull boards.

Bull Boards: The size and number of bull boards utilized will be determined by the net lading weight that is being restrained. Based upon the "load restraining capacity" of 2"x4" and 2"x6" bull boards summarized on the loading diagram, a 40,000 lb. load would require securement with five 2"x6" bull boards.

55-Gallon Drums (4-4 Pattern) Secured with Bull Boards 20' Container Equipment

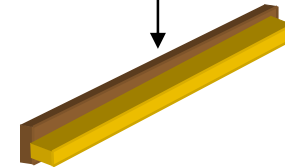
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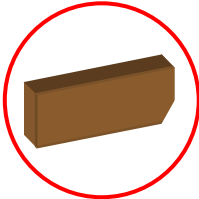
REAR

LOAD RESTRAINING CAPACITY	
RESTRAINT DEVICE	CAPACITY
2" X 4" BULL BOARD	5,600 LBS
2" X 6" BULL BOARD	8,000 LBS
2" X 4" "T" BRACE	7,000 LBS

"T" BRACE METHOD OF REINFORCING BULL BOARD. SHOWN BACKWARDS FOR CLARITY.



MITER CORNERS TO SIMPLIFY DROPPING BULL BOARDS INTO SLOTTED DOOR POSTS



- BLOCKING/BRACING OF INTERMODAL SHIPMENT**
- 1.) 72 Drums Loaded in 4-4 Pattern from Nose to Rear of Equipment.
 - 2.) Plywood Layer Separator (Minimum ½") Required. Plywood Buffer Material (Minimum ½") placed between Drums and Bull Boards.
 - 3.) Diagram Illustration of Bull Boards Inserted into Corrugated Sidewalls of Equipment. Bull Boards may also be Inserted into Slotted Door Posts. Bull Boards secured to Vertical 2"x4" Stabilizers to Prevent Displacement.