



## Cargo Control **Important Warning**

It is the owner and users obligation to familiarize himself with all local, state, and federal regulations. The responsibility and choice lies strictly in that decision. All tie-downs and assemblies are only as strong as their weakest components or attachments. FAILURE TO COMPLY WITH GUIDELINES MIGHT RESULT IN PERSONAL INJURY, CARGO DAMAGE OR DEATH. Consult with D.O.T., Federal Motor Carrier Safety Regulations, "O", Title 49, section 392.9, Part 393, subpart 1 – 202-512-1800.

**Selection:** D.O.T. (Department of Transportation) requires that the aggregate work load limit of the tie down assemblies used to secure an item must be at least 1/2 the weight of the object being secured.

**Example:** Object tied down is 24,000 lbs. 1/2 of weight is equal to 12,000 lbs. Using a 2" tie down with a WLL of 3,335 lbs.

**Formula:** 50% of the object weight Divided by WLL of the tie down equals the number of assemblies required to secure the load.

**Conclusion:** Per D.O.T. regulations, it will require a minimum of four, 2" wide ratchet tie downs to secure a 24,000 lbs load.

### **Additional Considerations:**

- Determine weight of the cargo to be secured.
- Select web tie down suitable for the type of load.
- Consideration must be given to the angle from the vertical attachment.
- Assembly shall be attached so as to provide control of the load.
- Assembly must be attached to components equal in strength as the tie down.
- Never use a tie down for overhead lifting or towing.
- A minimum of two (2) wraps of webbing shall be on the winch or ratchet buckle mandrel. Caution: additional wraps will reduce the working load limit.
- Tie downs should regularly be checked and adjusted during the transportation of cargo.

**Capacity Ratings** – All breaking strengths are based on the load an assembly will withstand before failing. Working Load Limits are rated at one-third (1/3) of the ultimate break strength of the assembly. All ratings are based on a straight tensile pull. Load directions other than straight can result in a significant reduction in strength.

**Inspection** – All assemblies should be inspected before each use. Straps worn, cut or damaged in any way should not be used. Clean and lubricate to ensure that tie-downs are in proper operating conditions. Observe ID tag warnings.



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