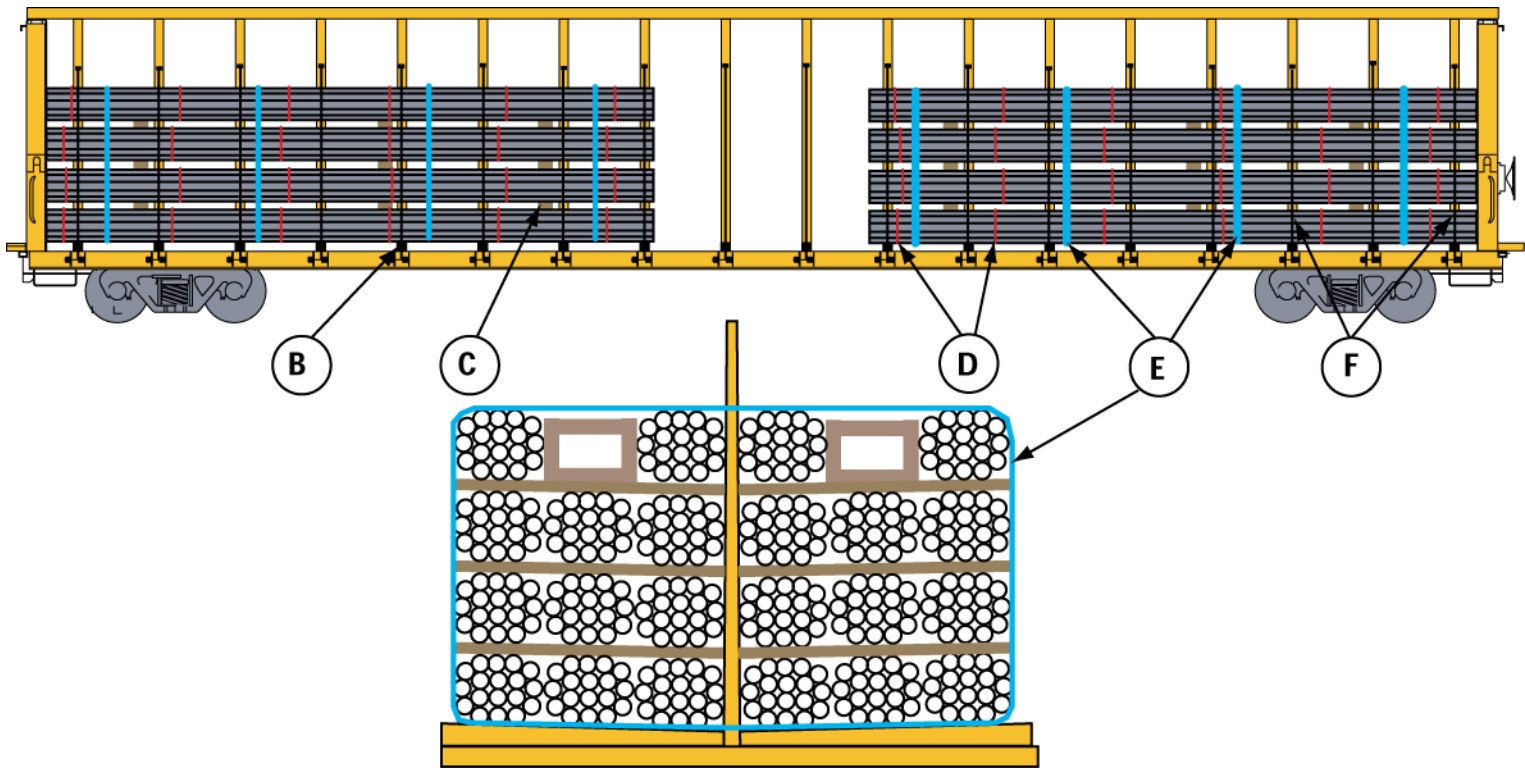


STEEL PIPES, 3 1/2 IN. TO 10 IN. O.D., 10 FT LONG OR OVER  
FLATCARS WITH CENTER A-FRAME, PERMANENT END BULKHEADS AND  
CABLE TIE-DOWN ASSEMBLIES

RAC 12006  
Revised 07-2021



SKETCH 1

Item	No. of Pcs.	Description
A		Vacant
B		Cars are equipped with steel bearing pieces wedged at 90° to A-Frame
C	3 per pile 20 ft. Add one for each additional 10 ft. or less	Separators: Hardwood minimum 2 in. X 4 in preferably rough and 2 inches wider than height. Maybe substitute with Douglas Fir minimum 4 in X 6 in rough. Use as substitute for Bearing pieces on riserless cars.



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**RAC 12006 (Continued)**  
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<b>Item</b>	<b>No. of Pcs.</b>	<b>Description</b>
D	1 every 4 feet of pipes	Packages ties: High tension steel bands, AAR approved 3/4 x .020
E	2 per pile 20 ft. Add one for each additional 10 ft. or less.	Encircling bands: Type 1A Grade 7 non-metallic bands. Locate one band 24 in. from each end of the pile 20 ft long or less (add one additional band for each additional 10 ft or less), encircling piles on both sides of center partition.
F	All cables	<p>Cables: 3/8 in. diameter, 8,800-lbs minimum breaking strength. Prior to tightening, there must be a minimum of 2 1/2 wraps around the drum of the winch. All cables must be used, and they must be free of kinks and tangles. Tension is to be applied with an 18 in. bar or an equivalent to torque at 200 ft/lb. Cables are to be secured to A-frame in slot nearest to top of package.</p> <p>Or</p> <p>Web tie-down: webbing 4 in. wide; 20,000-lbs minimum breaking strength. Prior to tightening, there must be a minimum of 2 wraps around the drum of the winch. All web tie-downs must be used, and they must be free of cuts and tangles. Tension is to be applied with an 18 in. bar or an equivalent to torque at 350-525 ft/lb. web straps are to be secured to A-frame in slot nearest to top of package.</p>

**NOTES:**

1. Pipe packages must be contained inside the bulkhead width.
2. All packages must be tight against center partition or against each other. No space allowed between packages.
3. When the top row cannot be full due to weight limits, void space must be filled with a hardwood spacer. There must always be one bundle against the center partition and one at the outside of the row to provide a square load. (See sketch 1)



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4. Load must be evenly balanced on the car.
5. Longitudinal void if any must be kept to a minimum and placed in as close to the center of car as possible.
6. Couplings, sleeves, or thread protectors must be staggered to avoid contact and maintain even load.

See General Rules for further details.