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Item No. of Pcs. Description Vacant А Minimum 2 Bearing pieces: cars are equipped with permanent floor bearing pieces В wedged 90 degrees to the A-frame. per each bottom layer package. С Minimum 2 Separators: lumber, minimum 2 in. x 4 in., width must be greater than height. All separators in a layer must be of equal height and in one per package (Use piece. Locate each approximately 12 in. to 18 in. from each end of optional) package. Separators may be attached to top or bottom of packages with Item E package bands. D 2 per Package bands: $1 \frac{1}{4}$ in. $\times .029$ in. high-tension bands. Locate each band about one-fourth-package length inward from each end of package. package. E Minimum of Cables: 3/8 in. dia. minimum 8,800 lbs. breaking strength. Cable 14 per load assemblies must be equipped with edge protectors. Prior to tightening, there must be a minimum of $2 \frac{1}{2}$ wraps of cable around the winch drum. When practical, all cables must be used, and must be free of kinks and tangles. Tension to be applied with the use of an 18 in. bar or ³/₄ in. ratchet. Cables are to be secured to A-frame in slot nearest to top of package. F Encircling Bands: $1 \frac{1}{4}$ in. $\times .029$ in. high-tension bands. 2 per void fill Locate each band about one-fourth-panel length inward from each end of filler panel encircling the void fill. Tie-down band: 2" band is used to secure void fill to car in addition to G 1 per void fill cable tie-downs. 2 per void Vertical stabilizers: 1 tie cut to fit on each side of a post creating a void Η (see DETAIL" B") within a load. Vertical stabilizers should be nailed to filler panel on each side of load. J 1 per side Filler Panel: 5/8 in. plywood sheets reinforced with six 2x4's to cover full width and height of void. Both plywood and 2x4's must be nailed to ties.

RAC 15102 (continued) New 07-2003



RAC 15102 (continued) New 07-2003

Item	No. of Pcs.	Description			
		Alternate Item B-For cars not equipped with permanent bearing			
		pieces.			
Alt	Min. 2 per	Bearing pieces: lumber of one piece, preferably rough. Width must be 2			
В	each bottom	in. greater than height and the length equal to width of bottom package.			
	layer package	Locate approximately 18-24 in. from each end of package with			
	8 ft long or	remaining pieces equally spaced between.			
	less. Add 1				
	for each				
	additional 4				
	ft				

NOTES:

- 1. Packages must be loaded end to end and the longitudinal void, if any, must be in center of load and kept to a minimum.
- 2. Should the total longitudinal void space between bulkheads exceed 24 inches but less than 84 inches, a filler assembly must be used to fill the void. The void assembly consists of treated ties loaded laterally on the deck. Plywood is attached to ties adjacent to the void fill and nailed to the ties with 3-inch common nails, six 2" x 4" pieces of lumber to be used to strengthen the plywood and nailed to the plywood and ties with 4-inch common nails. Plywood and 2x4's are banded to load with two 1 ¼ in. bands encircling the load. One 2 in. band must be used to secure void fill to car in addition to cable tie-downs. (See DETAIL" A" and DETAIL" B")
- 3. Voids created by center post gussets should be filled as per DETAIL "C". On each side of the gussets, ties or appropriate lumber loaded longitudinally should fill the void up to the gussets level then ties in one piece should be loaded laterally on top to fill the void between piles up to height of load.
- 4. Partial layers are not permitted in this diagram. If there are insufficient packages to complete the top layer, the size of the packages must be rearranged so as to fill out the layer space between the bulkheads.
- 5. All ties in a package must be of the same dimension.
- 6. Packages must not exceed 36 in. in height and 48 in. in width.
- 7. Packages must be placed tight against A-frame to prevent loosening of cables.



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NOTES:

- 8. Height of load must not exceed height of A-frame.
- 9. All packages in a layer must be of equal height.
- 10. All layers on the same side of the center partition must be of equal width.
- 11. Unless permission has been received from the car owner in writing, the car surfaces are to be protected from creosote contamination. Polyethylene sheeting or other suitable material may be used as an option to protect steel surface from contact with creosote. Protective material must be applied in such a fashion as to avoid displacement. Excess protective material must be removed to avoid extending beyond the car side and presenting a hazard during transit.
- 12. Load weight distribution must be in accordance with AAR Genera Rule 3.5.2 indicating the percentage of deck length utilized versus correspondent permissible percentage of load limit for that length, see table below.

Allowable load limit on reduced deck length utilized						
Percent of deck length utilized	100	75	50	25		
Percent of load limit permitted	100	75	50	25		

See General Rules for further details