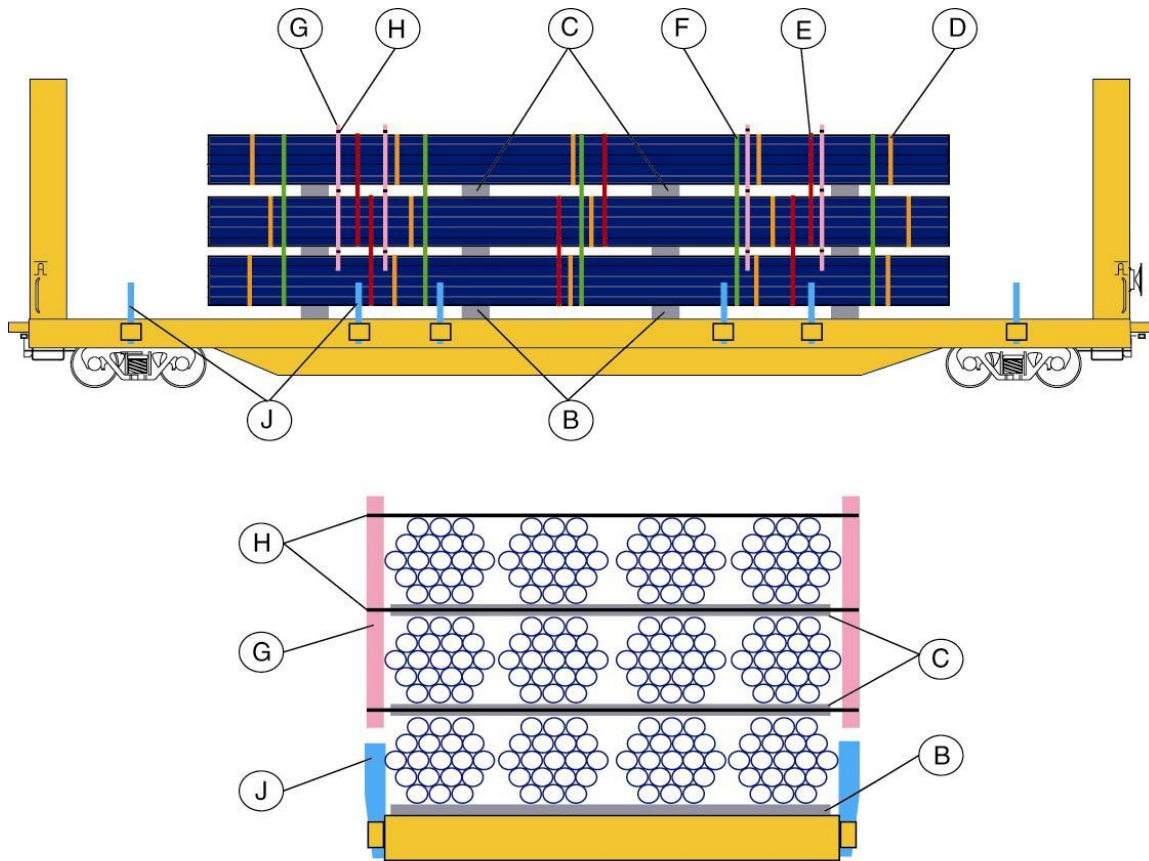


PIPES, WROUGHT IRON AND STEEL, VARNISH COATED OR UNCOATED  
2-3/8 IN. TO 12-3/4 IN. OUTSIDE DIAMETER, INCLUSIVE, 30 FT. MINIMUM TO  
38 FT. IN LENGTH, FLAT CARS OVER 48 FT. TO 52 FT. INCLUSIVE IN  
LENGTH EQUIPPED WITH PERMANENT END BULKHEADS

RAC 12135

New 07-1998 (Ref: AAR Fig. 2135)



END VIEW

Item	No. of Pcs.	Description
A	Location of load	Load must be located centrally on car at origin.
B	4 per pile	Floor Bearing Pieces: Hardwood, 4 in. x 4 in., length 4 in. less than car deck, in one piece and preferably rough. Locate end pieces approximately 5 ft. in from end of pile with others equally spaced between. For cars equipped with permanent steel bearing pieces, the size of wood bearing pieces must be increased to prevent load from resting on steel. Width of bearing pieces must not be less than height. Securement of bearing pieces not required.



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2-3/8 IN. TO 12-3/4 IN. OUTSIDE DIAMETER, INCLUSIVE, 30 FT. MINIMUM TO  
38 FT. IN LENGTH, FLAT CARS OVER 48 FT. TO 52 FT. INCLUSIVE IN LENGTH  
EQUIPPED WITH PERMANENT END BULKHEADS**

**RAC 12135 (continued)**  
New 07-1998 (Ref: AAR Fig. 2135)

<b>Item</b>	<b>No. of Pcs.</b>	<b>Description</b>
C	4 per pile	Separators; Hardwood, 2 in. x 3 in. for use with single layers of pipe, 4 in. x 4 in. hardwood must be used for packaged pipe. Dimensions of separators may be increased but width must not be less than height. Length of separators to equal width of load and must not extend beyond inside face of stake pocket. Must be in one piece and preferably rough. Locate between each layer of pipe or packages, and when possible, in line with Items "B" at origin.
D	5 per package	Package Bands: 1-1/4 in. x .031 in. high tension bands to encircle each package. Bands to be equally spaced on package and must be spaced as far away from bearing pieces and separators, as possible. Required when material is packaged.
E	3 sets per pile	Interlacing Bands: 2 in. x .044 in. high tension bands. Locate lower band of set under bottom layer, encircling pipe to approximately 3 ft. of load above. Locate next band of set to encircle top layer in group below and encircling approximately the next 3 ft. of load above. Repeat until entire load is unitized. Locate each set as far as possible from Item "B" bearing pieces and Item "C" separators, as possible.
F	5 per pile.	Encircling bands; 2 in. x .044 in. high tension bands to encircle entire pile. Locate one at each end of pile and others equally spaced, keeping as far as possible from Item "B" bearing pieces as possible.
G	4 pairs per pile	Binders; Hardwood, 4 in. x 4 in., length to extend below bottom of second tier, but not closer than two (2) inches above Item "J" Stub stakes.. Height must be sufficient to allow application of Item "H", but not more than 24 inches above top of load.



**PIPES, WROUGHT IRON AND STEEL, VARNISH COATED OR UNCOATED  
2-3/8 IN. TO 12-3/4 IN. OUTSIDE DIAMETER, INCLUSIVE, 30 FT. MINIMUM TO  
38 FT. IN LENGTH, FLAT CARS OVER 48 FT. TO 52 FT. INCLUSIVE IN LENGTH  
EQUIPPED WITH PERMANENT END BULKHEADS**

**RAC 12135 (concluded)**  
New 07-1998 (Ref: AAR Fig. 2135)

<b>Item</b>	<b>No. of Pcs.</b>	<b>Description</b>
H	As required	Binder Ties: 1-1/4 in. x .031 in. high tension bands. For packaged pipes, secure between each pair of Items "G" between each layer. For unpackaged pipe, locate lower binder tie between second and third layer, but in no case higher than 26 inches above bearing pieces. Repeat application for every 36 inches or less of load height, with final band located not more than 6 inches above top layer.
J	6 pairs	Stub Stakes: Hardwood, 4 in. x 5 in., height to be 3/4 of bottom tier height for bundled pipe, and 3/4 of the height of the bottom two tiers for unbundled pipe. Locate a minimum of one (1) pair on each end of lading. Locate two (2) additional pair between end pairs so that a minimum of four (4) pairs are in contact with the lading at all times. Two (2) additional pairs are required (one pair at each end) to be located in void space between bulkhead and end of lading.

**Notes:**

1. Height of load must not exceed 10 ft. above car floor.
2. Crosswise voids must be filled with blocking or shims which must be secured to prevent displacement.
3. When binders are cut after initial application, sufficient material must be removed from binder remaining in stake pocket to avoid fouling binders during transit.
4. Couplings, sleeves, or thread protectors must be staggered to avoid contact and maintain even load.
5. Inspect stake pockets for cracks in welds and or deformity prior to attaching securement.

See General Rules for further details.