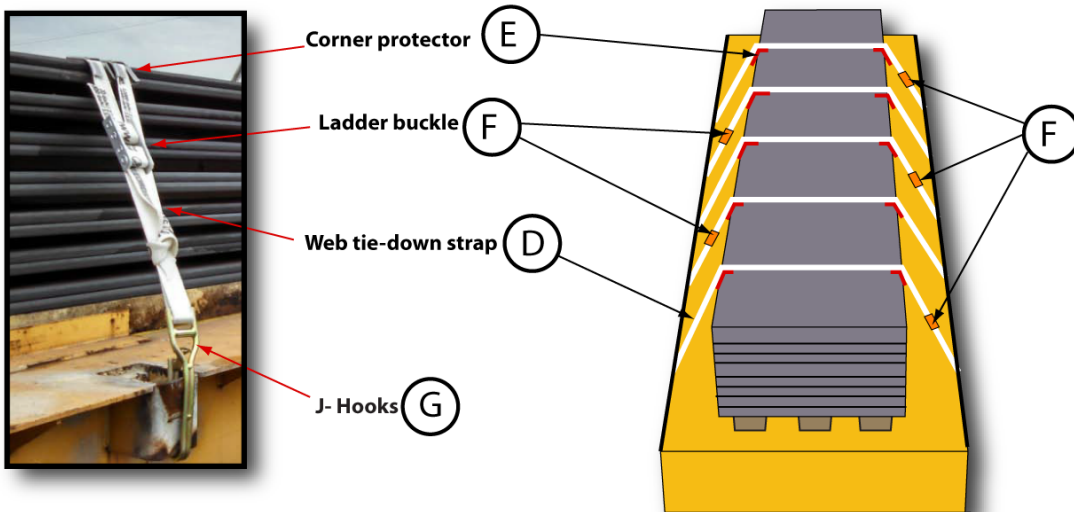
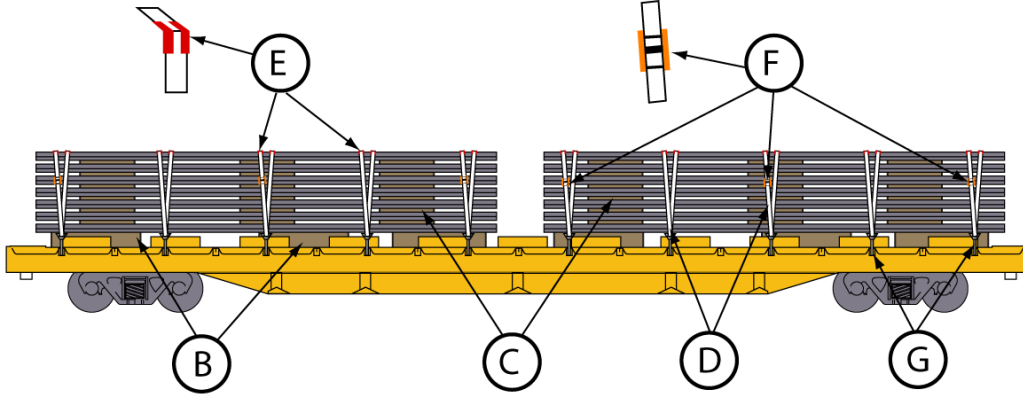


PLATE OR SLAB, HORIZONTAL, STEEL, 10 FT. LONG OR OVER-  
FLATCARS, 89 FT OR LESS, WITH CUSHION DEVICES

RAC 12014B

Revised 07-2024 AAR Ref: AAR Fig. 14-B



SKETCH 1



J-HOOK  
PHOTO 1



LADDER BUCKLE  
PHOTO 2



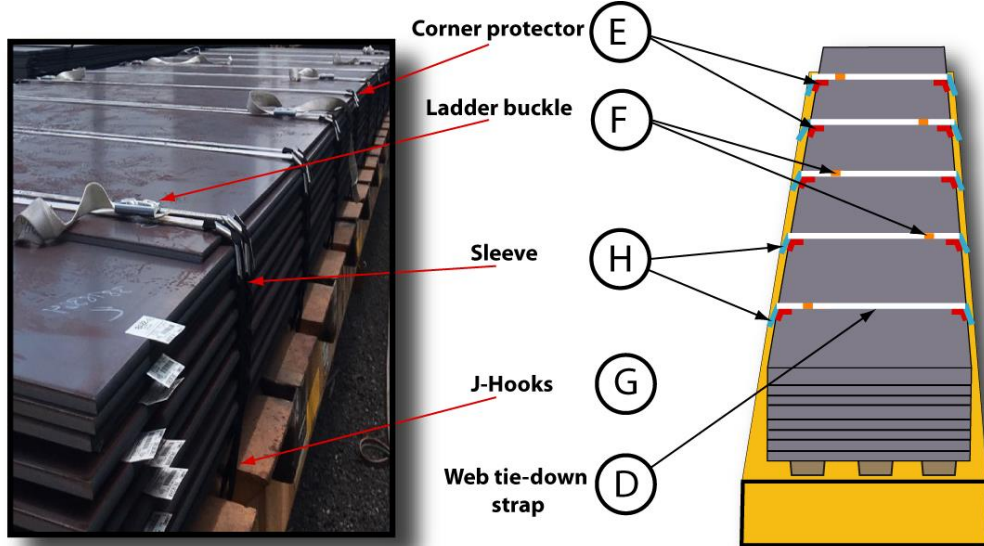
CORNER PROTECTOR  
PHOTO 3



16 in. STEEL POCKET  
PROTECTOR  
PHOTO 4

PLATE OR SLAB, HORIZONTAL, STEEL, 10 FT. LONG OR OVER-  
FLATCARS, 89 FT OR LESS, WITH CUSHION DEVICES

RAC 12014B (Continued)  
Revised 07-2024 AAR Ref: AAR Fig. 14-B



SKETCH 2



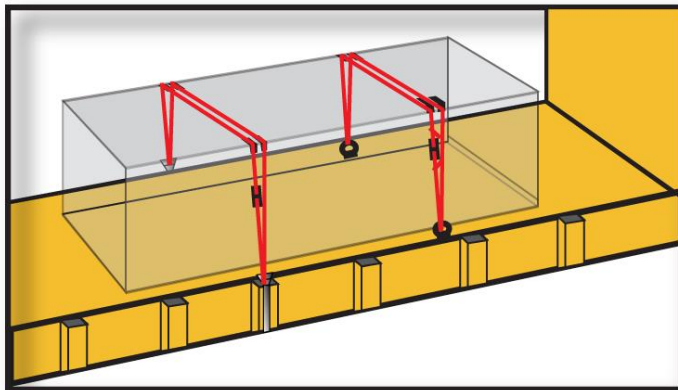
SLEEVE



SLEEVE APPLICATION  
PHOTO 5



SLEEVE APPLICATION  
NOT REQUIRED  
PHOTO 6



ITEM D - DOUBLE TIE-DOWN METHOD APPLICATION  
SKETCH 3

**PLATE OR SLAB, HORIZONTAL, STEEL, 10 FT. LONG OR OVER-  
FLATCARS, 89 FT OR LESS, WITH CUSHION DEVICES**

RAC 12014B (Continued)  
Revised 07-2024 AAR Ref: AAR Fig. 14-B

<b>Item</b>	<b>No. of Pcs.</b>	<b>Description</b>
A		Load shall be centrally located on car at origin but must not be closer than 2 ft from either end of the car or from any hand brakes and safety appliances that extend above the side sill (conventional flatcars only).
B	2 per 10 ft. of length. Add 1 for each additional 6 ft. or less.	Crosswise bearing pieces: hardwood, minimum 2 in. × 3 in., height not to exceed width, in one piece, length equivalent to width of the load but not to exceed width of car deck. Locate end pieces approximately 3 ft in from ends of pile(s) and in line with stake pockets when possible. For cars equipped with permanent steel bearing pieces, height must prevent load from resting on steel, width of bearing pieces may not be less than height. (Use optional on cars not equipped with steel floor and/or permanent steel bearing pieces.) If the height of bearing pieces needs to be increased, see <b>Note 4</b> .
B	As required. Minimum of 2.	Lengthwise bearing pieces: hardwood, minimum 2 in. × 3 in. × 8 ft, height not to exceed width. May consist of more than one piece. Space ends no more than 3 ft apart. Locate not less than 6 in. nor more than 12 in. from edge of bottom plate and within 3 ft from each end of pile(s). (Use optional.)
C	As required	Separators: lumber, 2 in. × 3 in., height not to exceed width. Locate pieces longitudinally no more than 3 ft apart and no more than 12 in. from ends and sides of piles with others equally spaced between but not less than 3 ft apart. When separators are placed crosswise, their surface area must be equivalent to the lengthwise pieces, and their length must be equivalent to the width of the load.
D	4 per pile 10 ft. to less than 20 ft. 5 per pile 20 ft. Add 1 for each additional 4 ft. or less up to 40 ft. 11 per pile over 40 ft. up to 85 ft.	Tie-down straps: AAR-approved Type 1A polyester Grade 8 strapping ( <b>double tie-down method-SKETCH 3</b> ) secured to stake pockets with J-hooks ( <b>Item G</b> ) or to lading strap anchors and joined with ladder buckles ( <b>Item F</b> ). Place end straps no less than 12 in. and no more than 36 in. from the end of each with others equally spaced between. For plate 90 in. wide or less, add one additional strap per pile.

PLATE OR SLAB, HORIZONTAL, STEEL, 10 FT. LONG OR OVER-  
FLATCARS, 89 FT OR LESS, WITH CUSHION DEVICES

RAC 12014B (Continued)  
Revised 07-2024 AAR Ref: AAR Fig. 14-B

Item	No. of Pcs.	Description
E	As required. Minimum 4 per strap.	Corner protectors: minimum of 15 gauge. Must be designed for non-metallic strapping and have sides folded over to prevent strap from sliding (see drawing <b>Item E</b> and <b>Photo 3</b> for example).
F	1 per tie-down strap.	Ladder buckles: ( <b>Photo 2</b> ) AAR-approved buckle as per General Rules Table 19.3. Buckles must be placed alternately side to side (i.e., first strap buckle placed on right side of load, second strap buckle placed on left side of load, etc.; see <b>SKETCH 1</b> ). When a protective sleeve, <b>Item H</b> is applied, ladder buckles must be positioned on the top of plates.
G	2 per tie-down strap, if applicable.	J-Hook: ( <b>Photo 1</b> ) AAR approved Hook as per table 19.3. Only to be used in stake pockets.
ALT G	1 per stake pocket; 2 per tie-down strap	J16 in. steel pocket protectors: ( <b>Photo 4</b> ) Apply through stake pocket protecting strap from contact with stake pocket. Reference <b>Photo 4</b> for manufacturer's recommended application.
H	As needed. When edge of any steel plate contacts strapping, or has clearance less than 1 in. between plate and a strap.	Cordura Sleeve: Protective Cordura sleeve must be applied over strapping as a continuous section. Sleeve must begin a minimum of 2 in. before top corner protector through corner protector, down to deck anchor and back up through the 2nd top corner protector extending a minimum of 2 in. (See <b>Photo 5</b> ). ( <b>Photo 6</b> ) Strap maintains 1 in. or greater clearance between plate, sleeve not required.

PLATE OR SLAB, HORIZONTAL, STEEL, 10 FT. LONG OR OVER-  
FLATCARS, 89 FT OR LESS, WITH CUSHION DEVICES

RAC 12014B (Concluded)  
Revised 07-2024 AAR Ref: AAR Fig. 14-B

**NOTES AND ADDITIONAL REQUIREMENTS:**

1. Width of plate or slab must be no wider than attachment locations for securement straps.
2. Load shall be centered longitudinally and laterally on car at origin unless loaded in single end overhang arrangement.
3. On cars equipped with permanent steel bearing pieces, wood bearing pieces must be higher than the steel.
4. When necessary to elevate load for clearance purposes, a minimum of two crosswise and lengthwise bearing pieces per pile may be stacked in alternating layers and secured adequately at intersecting points of bearing pieces. Crosswise pieces must be located approximately 18 in. from ends of longitudinal pieces. Load may also be raised in accordance with Section 1, General Rule 11.3.
5. Anchor points on the car must be inspected to ensure their integrity.
6. Height of load including separators must not exceed 42 in. above top of bearing pieces.
7. Minimum 15-gauge corner protection, as depicted in **Photo 3**, must be used when strapping is in contact with any edge of plate.
8. Corner protectors designed for steel banding are not acceptable.

Reference the General Rules in Section 1 of the Open Top Loading Rules Manual for additional details.