

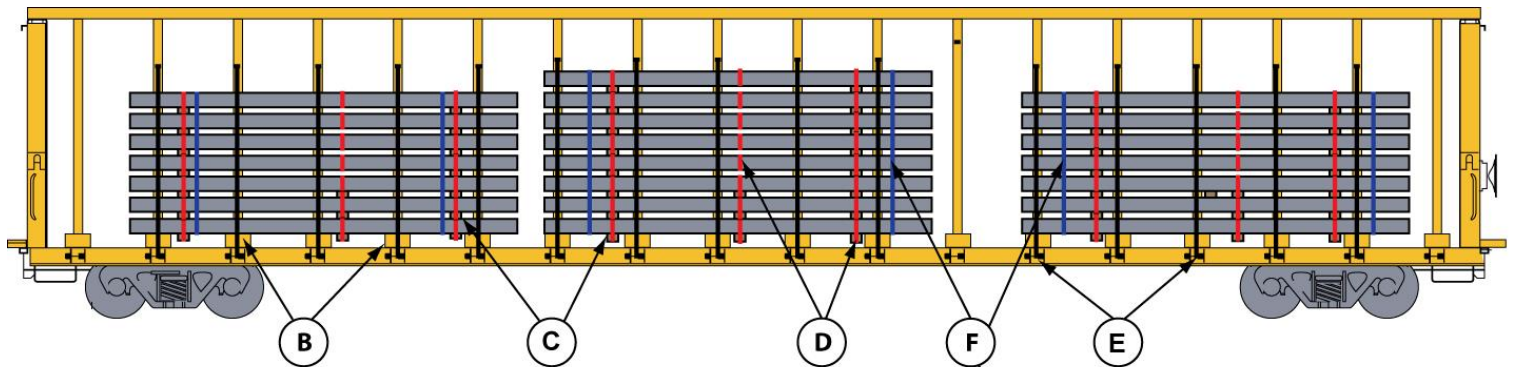


Railway Association
of Canada

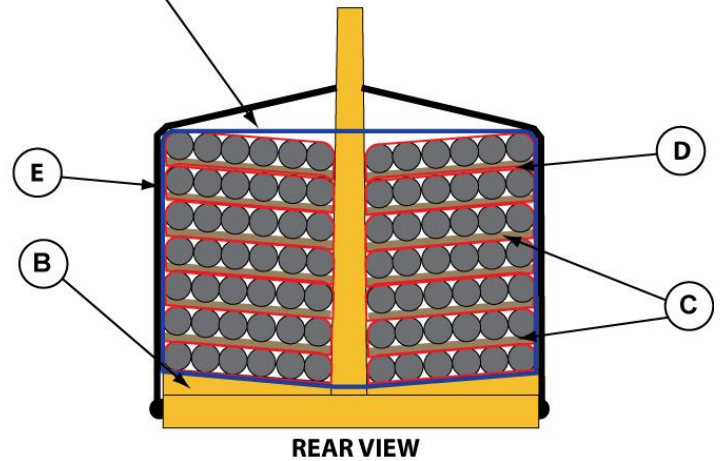
LOGS, ALUMINUM, 6 IN. TO 18 IN. O.D., 16 FT LONG AND OVER—CENTER A-
FRAME FLATCARS, WITH CABLE TIE-DOWNS

RAC 12043R

Revised 07-2021



BRIDGING METHOD



REAR VIEW



LOGS, ALUMINUM, 6 IN. TO 18 IN. O.D., 16 FT LONG AND OVER—CENTER A-FRAME FLATCARS, WITH CABLE TIE-DOWNS

RAC 12043R (Continued)

Revised 07-2021

Item	No. of Pcs.	Description
A		Vacant
B	Minimum 4 per pile 16 ft long. Add 1 for each additional 4 ft of package length.	Bearing pieces: cars are to be equipped with permanent steel bearing pieces or floor risers positioned at a 90° angle to the A-frame and spaced nominally 48 in. on center.
C	Minimum 3 per package 16 ft long for layers two and three. 2 per package in all other layers. Add 1 for each additional 4 ft or less of package length.	Separators: hardwood, minimum 3 1/2 in. × 3 1/2 in., height must not exceed width. Length to equal width of package. Secure each to layer with one Item D band. Locate end pieces 2 ft to 3 ft from end of package. Position additional separator, when required, near the center of the package and in line with the floor bearing piece when possible. When car is equipped with permanent bearing pieces, positioning of separators on bottom layer packages must be planned so as to avoid fouling the bearing pieces.
D	Minimum 3 per package 16 ft long. Add 1 for each additional 4 ft or less of package length.	Package bands: 1 1/4 in. × .029 in. high tension band. Locate one band at each end of the package, encircling logs, including Items C, with additional bands equally distributed between.

**LOGS, ALUMINUM, 6 IN. TO 18 IN. O.D., 16 FT LONG AND OVER—CENTER A-
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RAC 12043R (Continued)

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Item	No. of Pcs.	Description
E	Minimum 4 per top package 16 ft long. Add 1 for each additional 4 ft of package length.	Cables: 3/8-in. diameter, 8,800-lb minimum breaking strength. Cable assemblies must be equipped with a device to maintain tension. Prior to tightening, there must be a minimum of 2 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 package.
F	Minimum 2 per pile	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.

Alternate Item B—For cars not equipped with permanent bearing pieces

Item	No. of Pcs.	Description
Alt B	Minimum 5 per pile 16 ft long. Add 1 for each additional 4 ft of package length.	Bearing pieces: hardwood, minimum 3 1/2 in. × 3 1/2 in., length equal to width of package. Locate one approximately 2 ft from each end of package with others equally spaced between. Secure each with one Item D band. When Alt. B is used, the existing Items C on the bottom layer packages may be considered bearing pieces.

Notes and Additional Requirements:

1. Weight on either side of center beam needs to be as close to equal as possible. End piles should be as close to the bulkheads as is practical and remain in compliance with the positioning of Items B and C.
2. Load must be placed tight against the A-frame prior to tensioning Item E cables.
3. A package is defined as a single "lift" and is comprised of logs positioned side by side in the same layer.
4. All logs in the same package must be of the same diameter and must be 6 in. to 18 in. OD.
5. All packages in the same pile or layer must be of the same width.

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6. Steel corner protectors attached to Item E cables are not to be used and must be positioned on the cable above the load.
7. A single piece of high-density, fiber-reinforced rubber, no thicker than 1/2 in. and at least the width of the bearing piece, may be used on each permanent bearing piece in contact with the lading.
8. Loads must be evenly distributed on the car and void, if any, kept to a minimum.
9. The packages of logs in second row (top) that bridge over bottom longitudinal void must overlap piles in bottom layer by at least 50% (e.g., a package 16 ft long can only bridge a void in the bottom row 8 ft long or less).
- 10. When load is lower than the bottom chain slot in the center partition, all packages must be secured by two encircling steel bands 2 in. x 0.044 in. or approved type 1A grade 7 polyester webbing as a substitute. Banding must encircle piles on both sides of central partition. When items are more than 16 ft long, add one band for each additional 4 ft or less of package length.**
11. All cables must be used.
12. Any load exceeding the width of the car deck must have a dimensional clearance from originating carrier prior to moving railcar.
13. Load weight distribution must be in accordance with AAR General Rule 3.4, 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.

Percentage of deck length utilized	100	75	50	25
Percentage of load limit permitted	100	75	50	25

Reference the General Rules in Section No. 1 of the Open Top Loading Rules Manual for additional details.