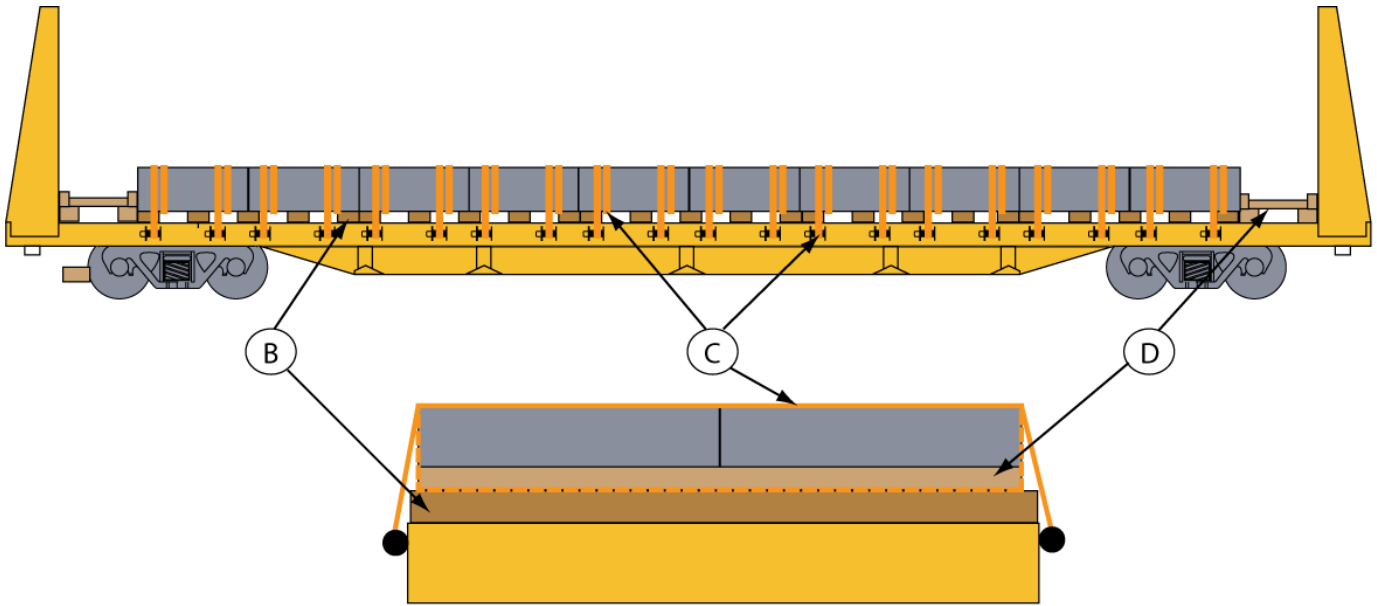


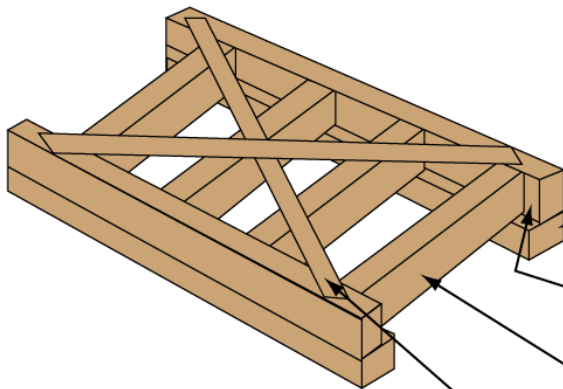
INGOTS, ALUMINUM, LESS THAN 12 FT LONG – LOADED SIDE BY SIDE ON
BULKHEADS FLATCARS, WITH CUSHION DEVICES AND WEB TIE-DOWN
SYSTEM

RAC 12043Q

New 02-2017



END VIEW



SKETCH 1 (Item D)

- ① 2 pieces 4" x 6" x full width of load. Must be 2 in. thicker than Item B set on 6 in. dimension
- ② 2 pieces 4" x 6" x full width of load set with 6 in. dimension vertical. Secure to ① with 6 - 40D nails.
- ③ 4 pieces 4" x 6" x spreader length as required. Set with 6 in. dimension vertical. Secure to ② with 3 - 40D nails each end.
- ④ 2 pieces 1" x 6" to form cross bracing.



**INGOTS, ALUMINUM, LESS THAN 12 FT LONG LOADED SIDE BY SIDE ON
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SYSTEM**

RAC 12043Q (Concluded)

New 02-2017

Item	No. of Pcs.	Description
A		Vacant
B	Minimum 2 per ingots	Bearing pieces: hardwood, 8 in. x 8 in. length equal to width of the car. Space every 3 or 4 feet, stagger location with winches. Each bearing pieces must be bolted or otherwise permanently secured to the car deck to prevent displacement.
C	Minimum 2 per ingots	Web tie-down straps: polyester webbing, 4 in. wide with a minimum breaking strength (MBS) of 20,000 lbs. Pass strapping over logs, pass under load and back across the top of the load and secure to the winch on each side of car. Tension straps from both sides of car using a 30 to 40 in. winch bar or equivalent.
D	1 at each end	Filler block as per SKETCH 1 , minimum 4 in. x 6 in. lumber to fill void between car bulkhead and ingots. Blocking must be toenailed to bearing pieces.

Notes and additional requirements:

1. Load must be centrally and evenly located on car at origin.
2. Height of load above Item B bearing pieces may not exceed 170% of base width.
3. All web tie-down components, including winches and webbing, must be inspected and applied in accordance with General Rule 20.
4. The weight of a pile must not exceed 60 percent of the combined MBS rated restraint of all the Item E straps restraining that pile. (Example: Five Item E straps, each with a 20,000 lb MBS, have a combined MBS restraint rating of 100,000. The total weight of all ingots in the pile may not exceed sixty percent of the combined restraint rating of the five straps, or 60,000 lb in this case.) If necessary, additional strap assemblies may be added with the car owner's permission.
5. This load may be dimensional when loading ingots side by side. Car must be checked, and proper clearance received from originating railway. If in doubt, contact originating railroad.
6. Maximum side overhang of Ingots on bearing pieces must not exceed 6 inches

See General Rules for further details.