

**Association of American Railroads**  
Safety and Operations

**AAR Open Top Loading Rules Manual**

**INDEX OF RULES**

**in Section 1**

**and**

**INDEX OF FIGURES**

**in Sections 2 through 7**

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AAR maintains an inclusive index of all OTLRM figures. It is available online at [http://www.aar.com/aar\\_standards/pdf/OTLRM-Index.pdf](http://www.aar.com/aar_standards/pdf/OTLRM-Index.pdf) This easy-to-access document is a convenient way to quickly identify in which OTLRM section a specific figure resides. The index is updated weekly, enabling the user to see in "real-time" which documents have been updated via circular letter.

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### TO THE USER

This online index contains a comprehensive index of the figures residing in the AAR *Open Top Loading Rules Manual* (OTLRM), Sections 2 through 7. This index is arranged in three sections:

- A numerical list of all figures.
- An alphabetical list by title.
- A list organized by the OTLRM section number

Each list shows the figure number, its title, and the section of the *Open Top Loading Rules Manual* in which that document is located. In addition, all Circular Letters that affect a document since its most recent publication are also identified.

**Note:** Each individual section of the *Open Top Loading Rules Manual* also includes a table of contents for that particular section.

### HOW TO USE THIS INDEX

This index of the *Open Top Loading Rules Manual* contains each of the figure indices from the individual sections (2 through 7). You can search this index in one of three ways:

1. Locate a document by its number using the Numeric Index on page 1.
2. Locate a document by its title using the Alphabetic Index on page 21.
3. Locate a document by searching a particular section in the Section Index on page 41.

The right-hand column of each index contains the word “Check” if a document is affected by a Circular Letter that was issued subsequent to the release of the manual containing the document. You may click the link (if viewing the PDF) or go to the section entitled “Current Circular Letters” to view a list of Circular Letters issued for each affected document.

#### DISCLAIMER

The “Current Circular Letters” section lists the Circular Letters that have been issued subsequent to the most recent release of the *Open Top Loading Rules Manual*. This list is intended to improve accessibility to the users. It is the responsibility of the user to ensure that individual OTLRM section reflect interim revisions implemented via Circular Letter. This list of Circular Letters is current as of the date printed in the margin. Any changes issued via AAR Circular Letter after that date will not be included.

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849	Chassis, Gooseneck, 48 ft to 53 ft Long, Three-High on Container—Shipping Unit	7	
850	Chassis, Gooseneck 20 ft to 40 ft Long, Four-High on Container—Shipping Unit	7	<a href="#">check</a>
902	Lumber, 6 ft Long or Over, Packaged—Flat Rack Containers, with Bulkheads	7	<a href="#">check</a>
910	Lumber, 5 ft Long or Over, Packaged—Flat Rack Containers, with Bulkheads and Polyester Webbing Tie-Down System	7	<a href="#">check</a>
912	Lumber, 8 ft Long or Over, with or without Unequal Lengths, Packaged—Flat Rack Containers, with End Bulkheads and Polyester Webbing Tie-Down System	7	<a href="#">check</a>
935	Plywood, Uniform Length and Width, Packaged, Loaded Lengthwise—Flat Rack Containers, with Bulkheads and Polyester Tie-Down System	7	
937	Composition Board, 5 ft × 10 ft, Coated or Uncoated, Packaged—Flat Rack Containers, with Bulkheads and Polyester Webbing Tie-Down System	7	
975	Shingles, Asphalt or Fiberglass, Bundled, Palletized and Wrapped—Flat Rack Containers, with Bulkheads and Polyester Webbing Tie-Down System	7	

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**CURRENT CIRCULAR LETTERS**

**DISCLAIMER**

This table lists the Circular Letters that have been issued subsequent to the last printed release of the OTLRM rules and figures. This Index Tool is intended to improve accessibility for users. It is the responsibility of the user to ensure that individual OTLRM sections reflect interim revisions implemented via Circular Letter.

**Click one of the links below to see the Circular Letters affecting that particular OTLRM section.**

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**Section 1 General Rules for Loading All Commodities (March, 2010) (page 1 of 2)**

Rule Affected	Date	CL No.	Title
Book	03/25/2010	C-11200	Availability of OTLR Sections 1 and Section 7
6	6/11/2010	C-11250	Implementation of Revisions to General Rules 6.2.2 and 6.6, Figure 6.1, "Rotary Machine Inspection Card Forms," Section 1 of the AAR Open Top Loading Rules Manual (OTLR)
21	9/9/2010	C-11296	Implementation of Revisions to Rule 21.7 "Load Binders", Figure 21.2 and Table 21.2, "Acceptable ratchet- and turnbuckle-type binders", Section 1 of the AAR Open Top Loading Rules Manual (OTLR)
19	2/1/2011	C-11367	Implementation of Revision to All 100- and 200-Series Pipe Figs. in Sect. 2, and Conc. Pipe Fig. 61-B in Sect. 4, AAR Open Top Loading Rules Manual, allowing 1-5/8 in. Type 1A Gr. 6 Polyester Strap to substitute for 2-in. Steel Strap Items G thru R {affects Tables 19.2 and 19.3}
19	2/24/11	C-11391	Amendment to the Implementation of Revision to All 100- and 200-Series Pipe Figs. in Sect. 2, and Conc. Pipe Fig. 61-B in Sect. 4, AAR Open Top Loading Rules Manual, allowing 1-5/8in. Type 1A Gr.6 Poly Strap to substitute for 2in. Steel Banding
29	7/6/2011	C-11461	Implementation of Revisions to Rule 29, Loads on One Car Overhanging One or Both Ends of Car, Section 1, Part 3 of the AAR Open Top Loading Rules Manual (OTLR)
14	7/6/2011	C-11462	Implementation of Revisions to Rule 14, Attachment of Securement, Section 1, Part 2 of the AAR Open Top Loading Rules Manual (OTLR)
21	8/16/2011	C-11490	Implementation of Revision to Section 1 of the Open Top Loading Rules Manual (OTLR), Part 2, Rule 21 - Chain Binders and Assemblies, new entry: Peck & Hale Tie-Down Assembly
35	8/16/2011	C-11491	Implementation of Revision to Section 1 of the Open Top Loading Rules Manual (OTLR), Part 4, Rule 35 – Field Testing and Related Forms
5 15 16 17 19 Appx E	8/16/2011	C-11492	Implementation of Multiple Revisions to Section 1, Parts 1, 2, and the Appendix of the open top loading rules manual (OTLR)

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**Section 1 General Rules for Loading All Commodities (March, 2010) (page 2 of 2)**

<b>Rule Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
21	2/4/2012	C-11605	Implementation of Revisions to Section 1, Part 2, Rule 21—Chain, Binders and Assemblies, and the Glossary of the Open Top Loading Rules Manual (OTLR)
11	2/4/2012	C-11606	Implementation of Revision to Section 1, Part 2, Rule 11—Wood and Wood Substitute Securement Items—Open Top Loading Rules Manual (OTLR)

**Section 2 Rules for Loading Metal Products, Including Pipe (December, 2007) (page 1 of 3)**

<b>Figure Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
Book	12/06/2007	C-10647	Release of the December 2007 Edition of the AAR Open Top Loading Rules, Section 2
87	11/14/2008	C-10866	Implementation of Revisions to Figures 87, Section 2, Open Top Loading Rules Manual for Scrap, Metal, Loose and Baled—Gondolas
147-B	1/29/2009	C-10931	Implementation of Revision to AAR Open Top Loading Rules (OTLR) Section 2, Figure 147-B of the AAR Open Top Loading Rules Manual
247 285	2/13/2009	C-10933	Implementation of Revision to AAR Open Top Loading Rules (OTLR) Section 2, Figures 247 and 285 of the AAR Open Top Loading Rules Manual.
105 105-A 106	2/13/2009	C-10936	Implementation of Revision to AAR Open Top Loading Rules (OTLR) Section 2, Figures 105, 105-A, and 106 of the AAR Open Top Loading Rules Manual
123 124	2/13/2009	C-10939	Implementation of Revision AAR Open Top Loading Rules (OTLR) Figures 123 and 124, Section 2 of the AAR Open Top Loading Rules Manual
29-D 29-G 29-H	04/17/2009	C-10961	Implementation of Revisions to AAR Open Top Loading Rules (OTLR) Section 2, Figures 29-D, 29-G, and 29-H of the AAR Open Top Loading Rules Manual
29-I 29-J 29-K	04/17/2009	C-10962	Implementation of New Figures 29-I, 29-J, and 29-K, Section 2, AAR Open Top Loading Rules Manual, Coils of Flat Steel in Longitudinal Trough Cars.
29-L	6/28/2009	C-11043	Implementation of New Figure 29-L, Section 2, AAR Open Top Loading Rules Manual, Coils of Flat Steel in Lateral (Sawtooth) Trough Rail Cars.
14	7/7/2009	C-11051	Implementation of Revision to Figure 14, Section 2, AAR Open Top Loading Rules Manual, Plate, Horizontal—Flatcars
106 106-A	7/7/2009	C-11053	Implementation of Revisions to Figures 106 and 106-A, Section 2, AAR Open Top Loading Rules Manual
43-T	7/21/2009	C-11064	Implementation of New Figure 43-T, Section 2, AAR Open Top Loading Rules Manual, Ingots, Aluminum—Bulkhead Flatcars, With Web Tie-Downs.
22-B	08/13/2009	C-11074	Implementation of Revision to Figure 22-B, Section 2, AAR Open Top Loading Rules Manual, Slabs, 8 in. Thick and Over—Gondolas

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**Section 2 Rules for Loading Metal Products, Including Pipe (December, 2007) (page 2 of 3)**

<b>Figure Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
9-D	08/13/2009	C-11075	Implementation of Revision to Figure 9-D, Section 2, Item B, AAR Open Top Loading Rules Manual, Rails, 80 ft. Long or Less, Flat-cars, 85 ft and Over
109	08/13/2009	C-11076	Implementation of Revision to Figure 109, Section 2, AAR Open Top Loading Rules Manual, Beams, Steel, H and I, Webs Horizontal or Vertical—Bulkhead Flatcars, with Cushioning Units
83 84	08/13/2009	C-11077	Implementation of Revision to Figures 83 and 84, Section 2, AAR Open Top Loading Rules Manual, Wheels, Mounted Railroad, Flat-cars or Gondolas
128-A	08/13/2009	C-11078	Implementation of New Figure 128-A, Section 2, AAR Open Top Loading Rules Manual, Pipe, Steel, Bare, Coated, 6 5/8 in. to 14 in. O.D., 43 ft Long and Over—Bulkhead Flatcars, with Cushioning Devices
43-S	5/24/2010	C-11230	Implementation of New Figure 43-S, Section 2, AAR Open Top Loading Rules Manual, Logs, Aluminum—Bulkhead Flat Cars, With Cushioning Devices and With Web Tie-Downs System
240 244 247 260 263 265 267 280 285 298	7/16/2010	C-11266	Implementation of Revisions to All 200 Series Figures (Pipe), Section 2, AAR Open Top Loading Rules Manual.
29-I 29-K	9/9/2010	C-11290	Implementation of Addition of Note 3 (Coils may be Centered on Car) Figures 29-I and 29-K, Section 2, AAR Open Top Loading Rules Manual, Coils of Flat Steel, Hot or Cold Rolled, 86-in. O.D. or Less—Coil Cars with Longitudinal Troughs
109-B	9/9/2010	C-11291	Implementation of New Figure 109-B, Section 2, AAR Open Top Loading Rules Manual, Beams, Steel, H and I, Max. Size 42-in., 18-ft. L. and Over, Webs Horizontal and/or Vertical—Bulkhead Flatcars, With Cushioning Devices
106-A	9/9/2010	C-11293	Implementation of Revision to Fig. 106-A, Sect. 2, to Allow Shorter Beams when Loaded End-to-End to Form the Longest Piece or Bundle, AAR Open Top Loading Rules Manual, Beams, H and I, Webs Horiz. or Vert., Single Load—Flatcars, 60-ft. L. and Over
147-D	10/5/2010	C-11318	Implementation of New Figure 147-D, Section 2, AAR Open Top Loading Rules Manual, Pipe, Ductile, 3 in. to 64 in. I.D., Flatcars, Fixed Wood Bearing Pieces and Lading Anchors
115 115-A 115-B 115-C	2/1/2011	C-11366	Implementation of New Figures 115, 115-A, 115-B, and 115-C, Section 2, AAR Open Top Loading Rules Manual, I-Beams, Structural, Metal in Various Lengths on Partial-Height Center Partition Railcars with Permanent End Bulkheads

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**Section 2 Rules for Loading Metal Products, Including Pipe (December, 2007) (page 3 of 3)**

Figure Affected	Date	CL No.	Title
160	2/1/2011	C-11368	Implementation of New Figure 160, Section 2, AAR Open Top Loading Rules Manual, Pipe, Steel, Bare, 12 ¾ in., 16 in., or 24 in. O.D., 50 ft or Longer—Center A-Frame Riserless Flatcars, with Cushioning Devices
106	2/4/2012	C-11604	Implementation of Revisions to the Definitions of Items G and H in Figure 106, Sect. 2, Beams and Structural Shapes, Steel, Single- or Double-End Overhang—Flatcars, 60 ft Long and Over—Open Top Loading Rules Manual (OTLR)
29-L	2/4/2012	C-11608	Implementation of Revisions to the Title and Note 4 in Figure 29-L, Section 2 in Reference to the Heat Treatment and Finish of Steel Coils Allowed in the Loading Figure—Open Top Loading Rules Manual (OTLR)

**Section 3 Rules for Loading Construction and Farm Machinery (December, 2007)**

Figure Affected	Date	CL No.	Title
Book	12/06/2007	C-10647	Release of the December 2007 Edition of the AAR Open Top Loading Rules, Section 3
76-A	7/7/2009	C-11052	Implementation of New Figure 76-A, Section 3, AAR Open Top Loading Rules Manual, Tractors, Crawler Type With Grousers, D10—Flatcars Equipped With Cushioning Devices

**Section 4 Rules for Loading Heavy Components and Miscellaneous Commodities (December, 2007) (page 1 of 2)**

Figure Affected	Date	CL No.	Title
Book	12/06/2007	C-10647	Release of the December 2007 Edition of the AAR Open Top Loading Rules, Section 4
130	7/7/2009	C-11048	Implementation of New Figure 130, Section 4, AAR Open Top Loading Rules Manual for Loading of Construction Debris—Gondolas
70-D	9/9/2010	C-11294	Implementation of New Figure 70-D, Section 4, AAR Open Top Loading Rules Manual, Concrete Cross Ties and Switch Ties—Bulkhead Flatcars
1-O	8/16/2011	C-11488	Implementation of Revisions to Figure 1-O, Section 4, Transformer, 200,000 lb to 850,000 lb—Flatcars changing the number of Items B and C, Steel Blocking Securement Pieces based on the Weight of the Transformer, AAR Open Top Loading Rules Manual
121	10/25/2011	C-11533	Implementation of New Figure 121, Section 4, AAR Open Top Loading Rules Manual, House Trailer, FEMA, Tube Frame, with Pneumatic Tires—Flatcars, with Chain Tie-Down Assemblies and Tie-down Channels
1-O	2/4/2012	C-11607	Implementation of Revision to Figure 1-O, Section 4—Transformer, 200,000 lb to 850,000 lb—Flatcars with 1/2 in. or Thicker Steel Floors or Combination Wood-Steel Floors—Open Top Loading Rules Manual (OTLR)

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**Section 4 Rules for Loading Heavy Components and Miscellaneous Commodities (December, 2007) (page 2 of 2)**

Figure Affected	Date	CL No.	Title
38-E	4/30/2012	C-11656	Implementation of New Figure 38-E, Section 4, AAR Open Top Loading Rules Manual—Car Bodies, Wrecked, Loaded on Modified Flatcars

**Section 5 Rules for Loading Forest Products and Miscellaneous Building Materials (December, 2007) (page 1 of 2)**

Figure Affected	Date	CL No.	Title
Book	12/06/2007	C-10647	Release of the December 2007 Edition of the AAR Open Top Loading Rules, Section 5
54	09/04/2008	C-10809	Implementation of Revisions to Figures 54, Section 5, Open Top Loading Rules Manual for Loading Packaged Lumber on Center A-Frame Flatcars
54A	09/04/2008	C-10810	Implementation of Revisions to Figures 54-A, Section 5, Open Top Loading Rules Manual for Loading Packaged Landscape Timbers on Center A-Frame Flatcars
54B	09/04/2008	C-10811	Implementation of Revisions to Figures 54-B, Section 5, Open Top Loading Rules Manual for Loading Packaged Lumber on Center A-Frame Flatcars
74	2/13/2009	C-10935	Implementation of Revision to AAR Open Top Loading Rules (OTLR) Section 5, Figure 74 of the AAR Open Top Loading Rules Manual
113	7/7/2009	C-11047	Implementation of Revision to Figure 113, Section 5, Item C, AAR Open Top Loading Rules Manual, Engineered-Wood Products, Center A-Frame Flatcars
101	08/13/2009	C-11072	Implementation of Revision to Figure 101, Section 5, Sketch 5, AAR Open Top Loading Rules Manual, Packaged Gypsum Board, Nominal Width 4 Ft., Uniform Length Package, Lengthwise Or Crosswise—Bulkhead Flatcars
74	08/17/2009	C-11082	Implementation of Revision to Figure 74, Section 5, AAR Open Top Loading Rules Manual, Lumber, Packaged—Flatcars With Bulkheads, Partial-Height Center Partition, Cushioning Devices, and Web Tie-Down Assemblies
54 54-A 54-B	7/16/2010	C-11265	Implementation of Revisions to Item G (Compression Package Band), Figures 54, 54-A and 54-B and Item Alt B and Note 1, Fig. 54-B, Section 5, AAR Open Top Loading Rules Manual, Lumber and Landscape Timbers—Center A-Frame Flatcars with Cable Tiedown
101	9/9/2010	C-11289	Implementation of Revisions to Items K, Q, and R (Encircling and Unitizing Bands) Figure 101, Section 5, AAR Open Top Loading Rules Manual, Packaged Gypsum Board—Bulkhead Flatcars
54	9/9/2010	C-11295	Implementation of Revision to Figure 54, Section 5, AAR Open Top Loading Rules Manual, Packaged Lumber, 8-ft. Long or Over—Center A-Frame Flatcars, with Cable Tie-Downs
58-B	8/16/2011	C-11485	Implementation of Revision to Fig. 58-B, Sect. 5, Part 1 to Modify the Title for Inclusion of Plastic Ties, AAR Open Top Loading Rules Manual

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**Section 5 Rules for Loading Forest Products and Miscellaneous Building Materials (December, 2007) (page 2 of 2)**

Figure Affected	Date	CL No.	Title
54-C	2/4/2012	C-11603	Implementation of New Loading Figure 54-C, Sect. 5, Part 1 to Accommodate Pallet Stock Shorts, 42-in. Min. Length, on A-frame Flat Cars equipped with Cable or Web Tie-down - Open Top Loading Rules Manual (OTLR)

**Section 6 Rules for Loading Military Equipment and Materiel (December, 2007)**

Figure Affected	Date	CL No.	Title
Book	12/06/2007	C-10647	Release of the December 2007 Edition of the AAR Open Top Loading Rules, Section 6
177	2/13/2009	C-10937	Implementation of New Figure 177, Section 6, Aar Open Top Loading Rules Manual, Loading of Heat Exchanger—Flatcars, DODX 300-Ton
58-B 78-B 83 87-B 88-B 88-C 88-F	5/24/2010	C-11229	Implementation of Revisions to Figures 58-B, 78-B, 83, 87-B, 88-B, 88-C, and 88-F Section 6, AAR Open Top Loading Rules Manual.
88-F	6/11/2010	C-11248	Implementation of New Figure 88- F, Section 6, AAR Open Top Loading Rules Manual, Armoured Military Vehicles, Pneumatic Tires, Non-Articulated, 80,000 lb or Less, Secured with Chains—Flatcars.
58-A	2/4/2012	C-11609	Implementation of Revisions to Modify Figure 58-A Vehicles, Medium Armored and Similar, 44,000 lb and Less—Flatcars with Chain Tie-Downs, Section 6—Open Top Loading Rules Manual (OTLR)
88-B 88-F	2/4/2012	C-11610	Implementation of Revision to Increase the Number of Tie-Down Chains Required in Figures 88-B and 88-F, Sect. 6, Military (and Armored Military) Vehicles, Pneumatic Tires, 80,000 lb or Less, Secured with Chains—Open Top Loading Rules Manual (OTLR)
88-C	2/4/2012	C-11611	Implementation of Revisions to Increase the Weight Limit of PLS Trucks and Trailers of Figure 88-C, Palletized Load System (PLS), Trucks and Trailers, 88,000 lb or Less per Combined Vehicle—Open Top Loading Rules Manual (OTLR)

**Section 7 Rules for Loading All Commodities on Open Top Trailers and Containers for Rail Transport (March, 2010) (page 1 of 2)**

Rule or Figure Affected	Date	CL No.	Title
Book	03/25/2010	C-11200	Availability of OTLR Sections 1 and Section 7

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**Section 7 Rules for Loading All Commodities on Open Top Trailers and Containers for Rail Transport (March, 2010)**  
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<b>Rule or Figure Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
902 910 912	8/16/2011	C-11486	Implementation of Revisions to require Compression Package Bands in Figures 902, 910 and 912, Section 7, AAR Open Top Loading Rules Manual, for Packaged Lumber in Flat Rack Containers with Bulkheads
850	10/25/2011	C-11534	Implementation of Revisions to Figure 850, Section 7, Part 3, AAR Open Top Loading Rules Manual, for Gooseneck Chassis 20-ft to 40-ft. Long, Four-High on Container—Shipping Unit
617	2/29/2012	C-11623	Implementation of New Figure 617, Section 7, Part 3, AAR Open Top Loading Rules Manual (OTLR), Coil, Flat Steel, Eye Crosswise—Flatrack Containers with Chain Tie-Down System
700	2/29/2012	C-11624	Implementation of New Figure 700, Section 7, Part 3, AAR Open Top Loading Rules Manual (OTLR), Pipe, Steel, Uncoated, 5- to 8-in. O.D., 36- to 46-ft. Long, Single Pile, Nested—Flatrack Containers with Polyester Webbing Tie-Down System

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