

The “115” and the “RE” in the rail section identification 115 RE mean the following:

- 115 is the mass (weight) in pounds per one yard length. It is rounded from the exact mass of 114.3757 pounds per yard and is equivalent to 56.737 kilograms per meter.
- RE = AREMA standard rail section.

From a structural perspective and quite likely from an electrical perspective, a rail weighing about 100 pounds per yard [roughly 49.6 kg/m] would be sufficient for rail transit. Notably, many European tramways and Stadtbahn operations use the CEN 49E1 section, which weighs very nearly 100 pounds per yard, for open track areas. The only 100-pound rail commonly available in the United States is “100-8,” a modification of the former 100 ARA-B section incorporating an 8-inch crown radius. It is rolled by only one manufacturer, mostly for the needs of one very large transit agency.

5.2.2.2 Rail Strength and Metallurgy

Chemical composition guidelines for the steel used to make running rail are standardized in the *AREMA Manual for Railway Engineering*, Chapter 4, for both standard rail and high-strength rail. The use of alloy rail is not recommended to obtain high-strength standards because of the additional complexities of welding alloy rail. The current AREMA standards for standard strength and high-strength rail hardness (developed by the head hardening procedure) are the following:

- Standard Rail—321 minimum Brinell Hardness Number (BHN).
- High-Strength Rail—341 to 368 BHN (may be exceeded provided a fully pearlitic microstructure is maintained).

The life of the rail can be extended ^[20] by increasing the rail’s resistance to

- Wear.
- Surface fatigue-damage.
- Fatigue defects.

Fatigue is rarely an issue in rail transit service since the loadings are much less than they are for railroad service and the plastic deformation that results from high contact stresses occurs much less often. Wear, on the other hand, is a significant issue in transit service, particularly in sharp curves. Rail steel hardness, cleanliness, and fracture toughness can increase resistance to wear. The effect of rail hardness in resisting gauge corner and gauge face wear is a known fact. Increased rail hardness in combination with minimized sulfide inclusions reduces the likelihood of rolling contact fatigue. This, in turn, reduces development of subsequent surface defects such as head checks, flaking, and shelly spots. Clean steel, free of oxide inclusions, combined with good fracture toughness, reduces the likelihood of deep-seated shell formations. Both shelly spots and deep-seated shells can initiate transverse defects, which ultimately cause broken rails.

Current rail standards include increased rail hardness and improved rail steel cleanliness, with the pearlitic steels peaking at 390 BHN. Research commencing in the 1990s focused on other metallurgies such as bainitic steels. Although bainitic steels of the same hardness as pearlitic steel are not as wear resistant, high-hardness low-carbon bainitic steel offers wear resistance superior to that of pearlitic steel.

Arema Manual Chapters

Wai-Fah Chen, Lian Duan



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Track Design Handbook for Light Rail Transit, 2012 TCRP report 155 provides guidelines and descriptions for the design of various common types of light rail transit LRT track The track structure types include ballasted track direct fixation ballastless track and embedded track The report considers the characteristics and interfaces of vehicle wheels and rail tracks and wheel gauges rail sections alignments speeds and track moduli The report includes chapters on vehicles alignment track structures track components special track work aerial structures bridges corrosion control noise and vibration signals traction power and the integration of LRT track into urban streets

Design of Modern Steel Railway Bridges John F. Unsworth, 2016-04-19 Perhaps the first book on this topic in more than 50 years Design of Modern Steel Railway Bridges focuses not only on new steel superstructures but also outlines principles and

methods that are useful for the maintenance and rehabilitation of existing steel railway bridges. It complements the recommended practices of the American Railway Engineering and Maintenance of Way Association AREMA in particular Chapter 15 Steel Structures in AREMA's Manual for Railway Engineering MRE. The book has been carefully designed to remain valid through many editions of the MRE. After covering the basics, the author examines the methods for analysis and design of modern steel railway bridges. He details the history of steel railway bridges in the development of transportation systems, discusses modern materials, and presents an extensive treatment of railway bridge loads and moving load analysis. He then outlines the design of steel structural members and connections in accordance with AREMA recommended practice, demonstrating the concepts with worked examples. Topics include: A history of iron and steel railway bridges; Engineering properties of structural steel typically used in modern steel railway bridge design and fabrication; Planning and preliminary design; Loads and forces on railway superstructures; Criteria for the maximum effects from moving loads and their use in developing design live loads; Design of axial and flexural members; Combinations of forces on steel railway superstructures. Copiously illustrated with more than 300 figures and charts, the book presents a clear picture of the importance of railway bridges in the national transportation system. A practical reference and learning tool, it provides a fundamental understanding of AREMA recommended practice that enables more effective design.

Theory and Design of Railway Truss Bridges

John F. Unsworth, 2025-06-17. Railroad bridges are a critical component of the infrastructure and economy of many countries, and many of these bridges are nearing the end of their useful service life. *Theory and Design of Railway Truss Bridges* provides comprehensive coupled information regarding the structural analysis and design of steel railway truss spans. Most books cover either analysis or design of structures, but none cover both the analysis and design of railway trusses. Further, the book presents technical information on the analysis of railway trusses currently unavailable in other modern books. It also provides readers with up-to-date information concerning the modern methods of design recommended by the American Railway Engineering and Maintenance of Way Association AREMA. Includes detailed information on the analysis of trusses for moving loads. Presents information on topics specific to railway trusses such as loading effects, secondary stresses, and stress reversal. Includes information on the history of railway truss analysis, design, and construction. Covers methods for the analysis of statically indeterminate spans. Describes methods to determine the displacement of truss spans. Provides up-to-date theory and design methods based on current AREMA recommendations.

Southwest Gulf Railroad Company Construction and Operation Exemption Medina County, Texas, 2008. *Bridge Engineering Handbook, Five Volume Set* Wai-Fah Chen, Lian Duan, 2014-01-24. Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the *Bridge Engineering Handbook*. This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world. This second edition of the bestselling *Bridge Engineering Handbook* covers virtually all the information an engineer would need to

know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters

CONCRETE Innovations in Materials, Design and Structures FIB – International Federation for Structural Concrete, 2019-05-27 This Proceedings contains the papers of the fib Symposium CONCRETE Innovations in Materials Design and Structures which was held in May 2019 in Krak w Poland This annual symposium was co organised by the Cracow University of Technology The topics covered include Analysis and Design Sustainability Durability Structures Materials and Prefabrication The fib F d ration internationale du b ton is a not for profit association formed by 45 national member groups and approximately 1000 corporate and individual members The fib s mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical economic aesthetic and environmental performance of concrete construction The fib was formed in 1998 by the merger of the Euro International Committee for Concrete the CEB and the International Federation for Prestressing the FIP These predecessor organizations existed independently since 1953 and 1952 respectively

Tongue River Railroad Company, Inc., Construction and Operation, Western Alignment, Tongue River III, Rosebud and Big Horn Counties, 1996

Railroad Accident Report, 2005 On February 9 2003 northbound Canadian National freight train M33371 derailed 22 of its 108 cars in Tamaroa Illinois Four of the derailed cars released methanol which fueled a fire Other cars released hazardous chemicals but were not involved in the fire 850 residents were evacuated within a 3 mile radius damages of the derailment totaled 1 9 million The safety issues addressed in the report are the effect of bond wire welding on rail integrity and inconsistent instructions regarding the exothermic welding of bond wire

Handbook of International Bridge Engineering Wai-Fah Chen, Lian Duan, 2013-10-11 This comprehensive and up to date reference work and resource book covers state of the art and state of the practice for bridge engineering worldwide Countries covered include Canada and the United States in North America Argentina and Brazil in South America Bosnia Bulgaria Croatia Czech Republic Denmark Finland France Greece Macedonia

Crenshaw Transit Corridor Project, 2011

Track Design Handbook for Light Rail Transit Parsons, Brinckerhoff, Quade & Douglas, 2000 The Handbook provides guidelines and descriptions for the design of various types of light rail transit track The track structure types covered include ballasted direct fixation ballastless and embedded track The components of the various track types are discussed in detail The guidelines consider the characteristics and interfaces of vehicle wheels and rail track and wheel gauges rail sections alignments speeds and track moduli

Railway Geotechnics Dingqing Li, James Hyslip, Ted Sussmann, Steven Chrismer, 2015-09-17 Links Geotechnics with Railway Track Engineering and Railway Operation Good railway track and railway operations depend on good geotechnics in several different ways and at varying levels Railway

Geotechnics covers track track substructure load environment materials mechanics design construction measurements and management Illustrated by **Movable Bridge Engineering** Terry L. Koglin, 2003-06-20 This new reference work addresses both the maintenance and the upkeep of existing movable bridges as well as the complete design of new movable bridges Comprehensive coverage is provided on engineering design and actual construction technology used in building all major types of bridges including all structural issues and relevant mechanical and electrical systems used to make such bridges functional Includes coverage of vertical lift swing and bascule bridges for both highway and railway usage Offers valuable guidance on operation maintenance inspection and rehabilitation of moveable bridges **Bridge Maintenance, Safety, Management and Life Extension** Airong Chen, Dan Frangopol, Xin Ruan, 2014-05-27 Bridge Maintenance Safety Management and Life Extension contains the lectures and papers presented at IABMAS 2014 the Seventh International Conference on Bridge Maintenance Safety and Management IABMAS 2014 held in Shanghai China July 7 11 2014 This set consists of a book of abstracts and a DVD containing the full papers of 396 contributions presented at IABMAS 2014 including the T Y Lin Lecture nine Keynote Lectures and 386 technical papers from about 40 countries All major aspects of bridge maintenance safety management and life extension are addressed including advanced materials aging of bridges assessment and evaluation bridge codes bridge diagnostics bridge management systems damage identification design for durability deterioration modeling earthquake and accidental loadings fatigue field testing health monitoring load models life cycle assessment maintenance strategies non destructive testing prediction of future traffic demands repair and replacement residual service life safety and serviceability service life prediction and sustainable bridges among others This set provides an up to date overview of the field of bridge engineering as well as the recent significant contributions to the process of making rational decisions in bridge maintenance safety management sustainability monitoring long life strategy and resources optimization deployment for the purpose of enhancing the welfare of society It will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students researchers engineers consultants and contractors from all areas of bridge engineering **Federal Register** , 2000-08-29

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