



MUDGE FASTENERS, INC.

ASTM A153



Scope

The ASTM A153 specification covers zinc coating (hot-dip) on iron and steel hardware. See the below chart for the different classes covered under A153. A newer and more fastener-appropriate specification, designed to replace A153 Class C and C, approved in 2005 and covering the requirement for hot-dip galvanizing bolts, screws, nuts, washers and other threaded fasteners is ASTM F2329. It is slowly becoming more widely used and referenced, but many publications and technical manuals are not revised on a regular basis, so it may still be a while before F2329 is widely adopted. ASTM A123 is a related hot-dip galvanizing specification covering iron and steel products made from rolled and pressed shapes, castings, plates, bars, and strips. The equivalent AASHTO specification to ASTM A153 is AASHTO M232.

Thickness or Weight of Zinc Coating for Various Classes of M

Class	Description	Minimum Average	Minimum Coating
Class A	Castings, Malleable Iron, Steel	3.4	3.1
Class B	Rolled, pressed, forged articles except those covered by Classes C and D	See below B-1 through B-3	See below B-1 through B-3
Class B-1	3/16" and over in thickness and over 15" in length	3.4	3.1
Class B-2	Under 3/16" in thickness and over 15" in length	2.6	2.1
Class B-3	Any thickness and under 15" in length	2.2	1.9
Class C	Fasteners over 3/8" in diameter and similar articles, washers 3/16" to 1/4" thick	2.1	1.7
Class D	Fasteners 3/8" and under in diameter, rivets, nails and similar articles. Washers under 3/16" thick	1.7	1.4

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Standard Specifications for Highway and Structure Construction Wisconsin. Department of Transportation, 2012 Air Force Manual United States. Department of the Air Force, 1973 **Downstream Anchoring Requirements for the Midwest Guardrail System** Mario Mongiardini, Ronald K. Faller, John Douglas Reid, Dean Sicking, Cody S. Stolle, Karla A. Lechtenberg, 2013 **Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects** United States. Federal Highway Administration, 2014 Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects is issued primarily for constructing roads and bridges on Federal Highway projects under the direct administration of the Federal Highway Administration It is also used by the U S Forest Service and other Federal agencies on their projects These specifications are cited as FP 14 indicating Federal Project Standard Specifications issued in 2014 and contain both United States Customary and Metric units of measure This book outlines the contractual process including bids Scope of Work for projects including materials construction requirements equipment glossary of terms and much more Road construction companies and supply management vendors for the equipment tools and pipes needed for constructing Federal highways as well as engineers Federal state and local Government agencies may be interested to have a copy of this authoritative work available as a reference for any current and or future road construction projects **An Introduction to Specifications for Rough Carpentry for Professional Engineers** J. Paul Guyer, P.E., R.A., 2024-08-16 Introductory technical guidance for Professional Engineers and construction managers interested in design and construction using wood carpentry Home Design Standards Home Building Standards 1Q09 , **Details and Materials for Resilient Sites** Meg Calkins, 2025-07-17 Providing comprehensive information for closing material loops and reducing carbon impacts of site construction this ground breaking book is an essential resource for landscape architects and engineers to meet the environmental challenges of the 21st century It provides strategies tools and detailed information for the practice of climate positive design Reduced carbon resource efficient materials and material mixes are addressed for both standard and alternative materials including stone concrete asphalt pavement brick earth based materials wood biobased materials metals and plastics Construction considerations are discussed and illustrated and strategies to reduce environmental impacts are offered Emphasis is placed on durable resource efficient structures and reduced embodied carbon approaches for pavements porous pavements green roofs bioengineered embankments retaining walls freestanding walls decks and boardwalks and rails fences and screens Exemplary case studies from around the world are highlighted and key resources such as assessment tools information transparency tools and benchmarking measures are provided Responding to the need for landscape architecture to account for climate change resource consumption and habitat destruction this important book is key reading for both professionals and students alike *Architect's Handbook of Construction Detailing* David Kent Ballast, 2009-06-22 Significantly updated with revisions to nearly all 200 plus details this second edition of Architect s

Handbook of Construction Detailing provides architects engineers interior designers contractors and other building professionals with all of the common construction details materials information and detailing concepts used throughout the industry The information can be used as is or modified to fit individual project designs Each of book s seven sections formatted to follow the new six digit CSI MasterFormat system contains details and related information including descriptions detailing considerations material requirements installation requirements tolerance coordination and likely failure points Additionally SI metric equivalents have been added to all dimensions

An Introduction to Specifications for Precast Concrete Below Grade for Professional Engineers J. Paul Guyer, P.E., R.A., 2024-07-27 Introductory technical guidance for Professional Engineers interested in precast concrete construction below grade [Index of Specifications and Standards](#) ,2005

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Table of Contents Astm A153

1. Understanding the eBook Astm A153
 - The Rise of Digital Reading Astm A153
 - Advantages of eBooks Over Traditional Books
2. Identifying Astm A153
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astm A153
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astm A153
 - Personalized Recommendations
 - Astm A153 User Reviews and Ratings
 - Astm A153 and Bestseller Lists

5. Accessing Astm A153 Free and Paid eBooks
 - Astm A153 Public Domain eBooks
 - Astm A153 eBook Subscription Services
 - Astm A153 Budget-Friendly Options
6. Navigating Astm A153 eBook Formats
 - ePub, PDF, MOBI, and More
 - Astm A153 Compatibility with Devices
 - Astm A153 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm A153
 - Highlighting and Note-Taking Astm A153
 - Interactive Elements Astm A153
8. Staying Engaged with Astm A153
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm A153
9. Balancing eBooks and Physical Books Astm A153
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm A153
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Astm A153
 - Setting Reading Goals Astm A153
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Astm A153
 - Fact-Checking eBook Content of Astm A153
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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