

## ASTM Standards for Mechanical Fasteners and Related Processes: 2<sup>nd</sup> Edition

A29/A29M-05	Standard Specification for Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for
A31-04e1	Standard Specification for Steel Rivets and Bars for Rivets, Pressure Vessels
A36/A36M-05	Standard Specification for Carbon Structural Steel
A47/A47M-99(2004)	Standard Specification for Ferritic Malleable Iron Castings
A90/A90M-07	Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
A153/A153M-05	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
A183-03	Standard Specification for Carbon Steel Track Bolts and Nuts
A193/A193M-07	Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High Temperature or High Pressure Service and Other Special Purpose Applications
A194/A194M-07b	Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
A220/A220M-99(2004)	Standard Specification for Pearlitic Malleable Iron
A242/A242M-04e1	Standard Specification for High-Strength Low-Alloy Structural Steel
A252-98(2007)	Standard Specification for Welded and Seamless Steel Pipe Piles
A262-02a(2008)	Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels
A276-06	Standard Specification for Stainless Steel Bars and Shapes
A307-07b	Standard Specification for Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength
A320/A320M-07a	Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for Low-Temperature Service
A325-07a	Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
A342/A342M-04	Standard Test Methods for Permeability of Feebly Magnetic Materials
A354-07a	Standard Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners
A370-07b	Standard Test Methods and Definitions for Mechanical Testing of Steel Products
A380-06	Standard Practice for Cleaning, Descaling, and Passivation of Stainless Steel Parts, Equipment, and Systems
A394-07	Standard Specification for Steel Transmission Tower Bolts, Zinc-Coated and Bare
A437/A437M-06	Standard Specification for Alloy-Steel Turbine-Type Bolting Material Specially Heat Treated for High-Temperature Service
A449-07b	Standard Specification for Hex Cap Screws, Bolts and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum Tensile Strength, General Use
A453/A453M-04	Standard Specification for High-Temperature Bolting Materials, with Expansion Coefficients Comparable to Austenitic Stainless Steels
A484/A484M-06b	Standard Specification for General Requirements for Stainless Steel Bars, Billets, and Forgings

A489-04e1	Standard Specification for Carbon Steel Lifting Eyes
A490-08a	Standard Specification for Structural Bolts, Alloy Steel, Heat Treated, 150 ksi Minimum Tensile Strength
A490M-04ae1	Standard Specification for High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints [Metric]
A493-95(2004)	Standard Specification for Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging
A502-03	Standard Specification for Rivets, Steel, Structural
A510-07	Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel
A536-84(2004)	Standard Specification for Ductile Iron Castings
A540/A540M-06	Standard Specification for Alloy-Steel Bolting Materials for Special Applications
A555/A555M-05	Standard Specification for General Requirements for Stainless Steel Wire and Wire Rods
A563-07a	Standard Specification for Carbons and Alloy Steel Nuts
A564/A564M-04	Standard Specification for Hot-Rolled and Cold-Finished Age-Hardening Stainless Steel Bars and Shapes
A574-04e1	Standard Specification for Alloy Steel Socket-Head Cap Screws
A574M-04e1	Standard Specification for Alloy Steel Socket-Head Cap Screws [Metric]
A582/A582M-05	Standard Specification for Free-Machining Stainless Steel Bars
A615/A615M-08	Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
A641/A641M-03	Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
A673/A673M-07	Standard Specification for Sampling Procedure for Impact Testing of Structural Steel
A709/A709M-07	Standard Specification for Structural Steel for Bridges
A751-07a	Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products
A871/A871M-03(2007)	Standard Specification for High-Strength Low-Alloy Structural Steel Plate With Atmospheric Corrosion Resistance
A962/A962M-07b	Standard Specification for Common Requirements for Steel Fasteners or Fastener Materials, or Both, Intended for Use at Any Temperature from Cryogenic to the Creep Range
A967-05e1	Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts
A1014/A1014M-06	Standard Specification for Precipitation-Hardening Bolting Material (UNS N07718) for High Temperature Service
B6-07	Standard Specification for Zinc
B117-07a	Standard Practice for Operating Salt Spray (Fog) Apparatus
B154-05	Standard Test Method for Mercurous Nitrate Test for Copper Alloys
B211-03	Standard Specification for Aluminum and Aluminum-Alloy Bar, Rod, and Wire
B244-97(2002)	Standard Test Method for Measurement of Thickness of Anodic Coatings on Aluminum and of Other Nonconductive Coatings on Nonmagnetic Basis Metals with Eddy-Current Instruments

B487-85(2007)	Standard Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section
B499-96(2002)	Standard Test Method for Measurement of Coating Thicknesses by the Magnetic Method: Nonmagnetic Coatings on Magnetic Basis Metals
B504-90(2007)	Standard Test Method for Measurement of Thickness of Metallic Coatings by the Coulometric Method
B565-04	Standard Test Method for Shear Testing of Aluminum and Aluminum-Alloy Rivets and Cold-Heading Wire and Rods
B567-98(2003)	Standard Test Method for Measurement of Coating Thickness by the Beta Backscatter Method
B568-98(2004)	Standard Test Method for Measurement of Coating Thickness by X-Ray Spectrometry
B633-07	Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel
B659-90(2003)	Standard Guide for Measuring Thickness of Metallic and Inorganic Coatings B695-04 Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel
B696-00(2004)e1	Standard Specification for Coatings of Cadmium Mechanically Deposited
B766-86(2003)	Standard Specification for Electrodeposited Coatings of Cadmium
B840-99(2004)	Standard Specification for Electrodeposited Coatings for Zinc Cobalt Alloy
B841-99(2004)	Standard Specification for Electrodeposited Coatings for Zinc Nickel Alloy Deposits
B842-99(2005)	Standard Specification for Electrodeposited Coatings for Zinc Iron Alloy Deposits
B850-98(2004)	Standard Guide for Post-Coating Treatments of Steel for Reducing the Risk of Hydrogen Embrittlement
C514-04	Standard Specification for Nails for the Application of Gypsum Board
C954-07	Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products of Metal Plaster Bases to Steel Studs from 0.033 in.(0.84 mm) to 0.112 in (2.84mm) in Thickness
C1002-07	Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
C1513-04	Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections D1761-06 Standard Test Methods for Mechanical Fasteners in Wood
D2247-02	Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
D3359-08	Standard Test Methods for Measuring Adhesion by Tape Test
D7091-05	Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals
E3-01(2007)	Standard Guide for Preparation of Metallographic Specimens
E8/E8M-08	Standard Test Methods for Tension Testing of Metallic Materials
E10-07a	Standard Test Method for Brinell Hardness of Metallic Materials
E18-08	Standard Test Methods for Rockwell Hardness of Metallic Materials
E92-82(2003)e2	Standard Test Method for Vickers Hardness of Metallic Materials
E112-96(2004)e2	Standard Test Methods for Determining Average Grain
E122-07	Standard Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process

E140-07	Standard Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, Scleroscope Hardness
E177-06b	Standard Practice for Use of the Terms Precision and Bias in ASTM Test Methods
E340-00(2006)	Standard Test Method for Macroetching Metals and Alloys
E376-06	Standard Practice for Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Examination Methods
E381-01(2006)	Standard Method of Macroetch Testing Steel Bars, Billets, Blooms, and
E384-08a	Standard Test Method for Microindentation Hardness of Materials
E456-06	Standard Terminology Relating to Quality and
E566-99(2004)e1	Standard Practice for Electromagnetic (Eddy-Current) Sorting of Ferrous Metals
E691-05	Standard Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method
E709-01	Standard Guide for Magnetic Particle Examination
E1823-07a	Standard Terminology Relating to Fatigue and Fracture Testing
F432-04	Standard Specification for Roof and Rock Bolts and
F436-07a	Standard Specification for Hardened Steel Washers
F436M-04	Standard Specification for Hardened Steel Washers [Metric]
F467-06ae1	Standard Specification for Nonferrous Nuts for General Use
F467M-06ae1	Standard Specification for Nonferrous Nuts for General Use [Metric]
F468M-06e1	Standard Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use
F519-06e2	Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating/Coating Processes and Service Environments
F541-04e1	Standard Specification for Alloy Steel
F547-06	Standard Terminology of Nails for Use with Wood and Wood-Base Materials
F592-84(2006)	Standard Terminology of Collated and Cohered Fasteners and Their Application
F593-02e2	Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs
F594-02	Standard Specification for Stainless Steel Nuts
F606-07	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
F680-80(2007)	Standard Test Methods for Nails
F738M-02	Standard Specification for Stainless Steel Metric Bolts, Screws, and
F788/F788M-07	Standard Specification for Surface Discontinuities of Bolts, Screws, and Studs, Inch and Metric
F812/F812M-07	Standard Specification for Surface Discontinuities of Nuts, Inch and Metric Series
F835-04e1	Standard Specification for Alloy Steel Socket Button and Flat Countersunk Head Cap Screws
F836M-02	Standard Specification for Style 1 Stainless Steel Metric Nuts
F837-02ae1	Standard Specification for Stainless Steel Socket Head Cap Screws
F844-07a	Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use

F879-02a	Standard Specification for Stainless Steel Socket Button and Flat Countersunk Head Cap Screws
F880-02	Standard Specification for Stainless Steel Socket-Set Screws
F901-01(2007)	Standard Specification for Aluminum Transmission Tower Bolts and Nuts
F912-04e1	Standard Specification for Alloy Steel Socket Set Screws
F959-07a	Standard Specification for Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners
F959M-07	Standard Specification for Compressible-Washer-Type Direct Tension Indicators for Use With Structural Fasteners [Metric]
F1077-05	Standard Guide for Selection of Committee F16 Fastener Specifications
F1135-99(2004)	Standard Specification for Cadmium or Zinc Chromate Organic Corrosion Protective Coating for Fasteners
F1136-04	Standard Specification for Zinc/Aluminum Corrosion Protective Coatings for Fasteners
F1137-00(2006)	Standard Specification for Phosphate/Oil and Phosphate/Organic Corrosion Protective Coatings for Fasteners
F1428-92(2005)	Standard Specification for Aluminum Particle-Filled Basecoat/Organic or Inorganic Topcoat, Corrosion Protective Coatings for Fasteners
F1469-99(2004)	Standard Guide for Conducting a Repeatability and Reproducibility Study on Test Equipment for Nondestructive Testing
F1470-02	Standard Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection
F1503-02(2007)	Standard Practice for Machine/Process Capability Study Procedure
F1554-07a	Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield
F1575-03	Standard Test Method for Determining Bending Yield Moment of Nails
F1624-06	Standard Test Method for Measurement of Hydrogen Embrittlement Threshold in Steel by the Incremental Step Loading Technique
F1667-05	Standard Specification for Driven Fasteners: Nails, Spikes, and Staples
F1789-07c	Standard Terminology for F16 Mechanical Fasteners
F1852-07	Standard Specification for "Twist Off" Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
F1940-07a	Standard Test Method for Process Control Verification to Prevent Hydrogen Embrittlement in Plated or Coated Fasteners
F1941-07	Standard Specification for Electrodeposited Coatings on Threaded Fasteners (Unified Inch Screw Threads (UN/UNR
F1941M-07	Standard Specification for Electrodeposited Coatings on Threaded Fasteners [Metric]
F2280-08	Standard Specification for "Twist Off" Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treat, 150 ksi Minimum Tensile Strength
F2281-04	Standard Specification for Stainless Steel and Nickel Alloy Bolts, Hex Cap Screws, and Studs, for Heat Resistance and High Temperature Applications
F2282-03	Standard Specification for Quality Assurance Requirements for Carbon and Alloy Steel Wire, Rods, and Bars for Mechanical Fasteners

F2328-05	Standard Test Method for Determining Decarburization and Carburization in Hardened and Tempered Threaded Steel Bolts, Screws and Studs
F2328M-07	Standard Test Method for Determining Decarburization and Carburization in Hardened and Tempered Threaded Steel Bolts, Screws and Studs [Metric]
F2329-05	Standard Test Method for Determining Decarburization and Carburization in Hardened and Tempered Threaded Steel Bolts, Screws and Studs [Metric]
F2403-06	Standard Specification for Inch Series Machine Screws, Carbon Steel, 60 000 psi Tensile Strength
F2437-06	Standard Specification for Carbon and Alloy Steel Compressible-Washer-Type Direct Tension Indicators for Use with Cap Screws, Bolts, Anchors, and Studs
F2482-05	Standard Specification for Load-Indicating Externally Threaded Fasteners
F2688-08	Standard Guide for System-Based, Customer-Centered Quality Plan for Manufacturers
G101-04	Standard Guide for Estimating the Atmospheric Corrosion Resistance of Low-Alloy Steels