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Standard Guide for Selection of Committee F-16 Fastener Specifications¹

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1. Scope

1.1 This guide is intended to provide a rapid, easy to use method for identifying Committee F-16 fastener specifications and their applicable marking requirements. Selection is made by product type (bolts, nuts, washers, etc.) and material (alloy steel, carbon steel, stainless steel, etc.) from Tables 1-5 as follows:

	Table Number	
	Inch	Metric
Ferrous Metals		
Alloy Steel	1	3
Carbon Steel	1	3
Weathering Steel	1	3
Non Ferrous		
Aluminum, Copper	2	3
Nickel, Titanium		
Stainless Steels	2	3
Others		
Coatings, Definitions, Test Methods, Surface Discontinuities	4	4
Marking	5	5

1.2 Table size limitations and the need for simplicity prohibit identifying the exact grade, type, condition, etc., for all product/material combinations. The product specification must be reviewed prior to specifying fasteners on drawings or ordering to properly and completely identify the fastener, and its available variations.

2. Referenced Documents

2.1 ASTM Standards:

- A 31 Specification for Steel Rivets and Bars for Rivets, Pressure Vessels²
- A 307 Specification for Carbon Steel Bolts and Studs, 60 000 psi Tensile Strength²
- A 325 Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength²
- A 325M Specification for High-Strength Bolts for Structural Steel Joints [Metric]²
- A 354 Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners²

- A 394 Specification for Steel Transmission Tower Bolts, Zinc-Coated and Bare²
- A 449 Specification for Quenched and Tempered Steel Bolts and Studs²
- A 489 Specification for Carbon Steel Lifting Eyes²
- A 490 Specification for Heat-Treated Steel Structural Bolts, 150 ksi Minimum Tensile Strength²
- A 490M Specification for High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints [Metric]²
- A 502 Specification for Steel Structural Rivets²
- A 563 Specification for Carbon and Alloy Steel Nuts²
- A 563M Specification for Carbon and Alloy Steel Nuts [Metric]²
- A 574 Specification for Alloy Steel Socket-Head Cap Screws²
- A 574M Specification for Alloy Steel Socket-Head Cap Screws [Metric]²
- A 687 Specification for High-Strength Nonheaded Steel Bolts and Studs²
- C 514 Specification for Nails for the Application of Gypsum Board³
- F 432 Specification for Roof and Rock Bolts and Accessories²
- F 436 Specification for Hardened Steel Washers²
- F 436M Specification for Hardened Steel Washers [Metric]²
- F 467 Specification for Nonferrous Nuts for General Use²
- F 467M Specification for Nonferrous Nuts for General Use [Metric]²
- F 468 Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use²
- F 468M Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use [Metric]²
- F 541 Specification for Alloy Steel Eyebolts²
- F 547 Terminology of Nails for Use with Wood and Wood-Base Materials²
- F 568 Specification for Carbon and Alloy Steel Externally Threaded Metric Fasteners²
- F 592 Terminology of Collated and Cohered Fasteners and Their Application Tools²
- F 593 Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs²
- F 594 Specification for Stainless Steel Nuts²

¹ This guide is under the jurisdiction of ASTM Committee F-16 on Fasteners and is the direct responsibility of Subcommittee F16.91 on Editorial.

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² Annual Book of ASTM Standards, Vol 01.08.

³ Annual Book of ASTM Standards, Vol 04.01.