

Guide to Normative and Informative References for AISC Certification Programs

Complete re-issue 10/1/2023 supersedes all prior versions

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NOTE: A summary of changes is provided at the end of the document

1. References for ALL Certification Programs	Revision Year
Required (Normative)	
AISC Governing Requirements for Certification Programs	6/1/2023
AISC 207-20 Standard for Certification Programs	10/2020
ANSI/AISC 303 Code of Standard Practice for Steel Buildings and Bridges	2022
RCSC Specification for Structural Joints Using High-Strength Bolts	6/11/2020
Selected ASTM Standards for Structural Steel Fabrication including Structural Stainless Steel	2022
AWS A2.4 Standard Symbols for Welding, Brazing and Nondestructive Examination	2020
AWS A3.0 Standard Welding Terms and Definitions	2020
AWS D1.1/D1.1M Structural Welding Code – Steel	2020
Recommended (Informative)	
AWS B5.1 Specification for the Qualification of Welding Inspectors	2013
AWS B5.17 Specification for the Qualification of Welding Fabricators (replaced AWS WQAG)	2014
2. Building Fabricator	
	Revision Year
Required (Normative)	
AISC Supplemental Requirements for Building Fabricators	6/1/2023
ANSI/AISC 360 Specification for Structural Steel Buildings	2022
ASTM F3125/F3125M Standard Specification for High Strength Structural Bolts	2021
Standards and specifications applicable to the fabricator’s product, process, and/or contract documents	varies
Recommended (Informative)	
ANSI/AISC 341 Seismic Provisions for Structural Steel Buildings	2022
ANSI/AISC 358 Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications	2022
AISC Steel Construction Manual	16th Ed.
AISC Detailing for Steel Construction	3rd Ed.
AWS D1.4/D1.4M Structural Welding Code—Reinforcing Steel	2018
AWS D1.8/D1.8M Structural Welding Code—Seismic Supplement	2016
ASTM A6/A6M Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling	2021

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ISO 10721-1 Steel Structures - Part 1: Materials and design	1997
ISO 10721-2 Steel Structures - Part 2: Fabrication and erection	1999
If shop primer is applied, the following may be required:	
Manufacturer’s Product Data Sheet or equivalent	Current
SSPC PA 1 Shop, Field and Maintenance Coating of Metals	2016
SSPC SP 1 Solvent Cleaning	2016
SSPC SP 2, Hand Tool Cleaning	2018
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
If other coatings are being applied (those that require special care in surface preparation, application control, curing, and in-process inspections. e.g. zinc-rich, epoxy, urethane, multi-coat systems), in addition to the above, the following may be required also: NOTE: for Complex Coatings Endorsement refer to the appropriate section below.	
SSPC PA 2 Procedure for Determining Conformance to Dry Coating Thickness Requirements	2022
SSPC SP 3, Power Tool Cleaning	2018
SSPC SP 6/NACE No. 3, Commercial Blast Cleaning	2006
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
3. References for Highway Component Manufacturer	
Revision Year	
Required (Normative)	
AISC Supplemental Requirements for Highway Component Manufacturers	6/1/2023
ANSI/AISC 360 Specification for Structural Steel Buildings	2022
AASHTO/ASTM standards applicable to the component manufacturer's product and/or contract documents	varies
Recommended (Informative)	
AWS D1.2/D1.2M Structural Welding Code – Aluminum	2014
AWS D1.3/D1.3M Structural Welding Code—Sheet Steel	2018
AASHTO/AWS D1.5/D1.5M Structural Welding Code - Bridge Welding Code	2020
AWS D1.6/D1.6M Structural Welding Code—Stainless Steel	2017
AWS D1.8/D1.8M Structural Welding Code—Seismic Supplement	2016

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If shop primer is applied, the following may be required:	
Manufacturer’s Product Data Sheet or equivalent	Current
SSPC PA 1 Shop, Field and Maintenance Coating of Metals	2016
SSPC SP 1 Solvent Cleaning	2016
SSPC SP 2, Hand Tool Cleaning	2018
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
If other coatings are being applied (those that require special care in surface preparation, application control, curing, and in-process inspections. e.g. zinc-rich, epoxy, urethane, multi-coat systems), in addition to the above, the following may be required also: NOTE: for Complex Coatings Endorsement refer to the appropriate section below.	
SSPC PA 2 Procedure for Determining Conformance to Dry Coating Thickness Requirements	2022
SSPC SP 3, Power Tool Cleaning	2018
SSPC SP 6/NACE No. 3, Commercial Blast Cleaning	2006
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
4. References for Bridge Fabricator - including: Simple, Intermediate, Advanced	
Required (Normative)	Revision Year
AISC Supplemental Requirements for Bridge Fabricators	6/1/2023
ASTM F3125/F3125M Standard Specification for High Strength Structural Bolts	2021
Standards and specifications applicable to the fabricator’s product, process, and/or contract documents	varies
Recommended (Informative)	
AASHTO/NSBA G4.1 Steel Bridge Fabrication QC/QA Guide Specification	2019
Chapter 15 Steel Structures of AREMA Manual for Railway Engineering	2020
FHWA-HIF-19-088 Bridge Welding Reference Manual	2019/w 2020 errata
AASHTO/NSBA S2.1 Steel Bridge Fabrication Guide Specification	2018
If shop primer is applied, the following may be required:	
Manufacturer’s Product Data Sheet or equivalent	Current
SSPC PA 1 Shop, Field and Maintenance Coating of Metals	2016
SSPC SP 1 Solvent Cleaning	2016

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SSPC SP 2, Hand Tool Cleaning	2018
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
If other coatings are being applied (those that require special care in surface preparation, application control, curing, and in-process inspections. e.g. zinc-rich, epoxy, urethane, multi-coat systems), in addition to the above, the following may be required also: NOTE: for Complex Coatings Endorsement refer to the appropriate section below.	
SSPC PA 2 Procedure for Determining Conformance to Dry Coating Thickness Requirements	2022
SSPC SP 3, Power Tool Cleaning	2018
SSPC SP 6/NACE No. 3, Commercial Blast Cleaning	2006
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
Required (Normative) for Fracture Control Endorsement	
AISC Supplemental Requirements for Fracture Control Endorsement	6/1/2023
AASHTO/AWS D1.5/D1.5M Structural Welding Code - Bridge Welding Code	2020
AASHTO Guide Specifications for Analysis and Identification of Fracture Critical Members and System Redundant Members	2018 with 2022 Interim Revisions
5. References for Erectors	
Revision Year	
Required (Normative)	
AISC Supplemental Requirements for Erectors	6/1/2023
ANSI/AISC 303 Code of Standard Practice for Steel Buildings and Bridges	2022
ANSI/AISC 360 Specification for Structural Steel Buildings	2022
ASTM F3125/F3125M Standard Specification for High Strength Structural Bolts	2022
OSHA 29 CFR 1926 Safety and Health Regulations for Construction	e-CFR
Standards and specifications applicable to the erector’s product, process, and/or contract documents	varies
Recommended (Informative)	
AWS D1.3/D1.3M Structural Welding Code—Sheet Steel	2018
ANSI/ASSE A10.13 Safety Requirements for Steel Erection	2011/R2017
AISC Detailing for Steel Construction	3rd Ed.
SSPC PA 1 Shop, Field and Maintenance Coating of Metals	2016

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SSPC SP 1 Solvent Cleaning	2016
SSPC SP 2, Hand Tool Cleaning	2018
Required (Normative) for Seismic Endorsement	
ANSI/AISC 341 Seismic Provisions for Structural Steel Buildings	2022
AWS D1.8/D1.8M Structural Welding Code—Seismic Supplement	2016
Required (Normative) for Metal Deck Endorsement	
AWS D1.3/D1.3M Structural Welding Code—Sheet Steel	2018
ANSI/SDI QA/QC Standard for Quality Control and Quality Assurance for Installation of Steel Deck	2022
Recommended (Informative) for Metal Deck Endorsement	
SDI Manual of Construction with Steel Deck 3rd Edition	2016
SDI Code of Standard Practice	2017
ANSI/SDI SD- Standard for Steel Deck (superseded NC, RD and T-CD)	2022
Required (Normative) for Bridge Endorsement	
AASHTO/AWS D1.5/D1.5M Structural Welding Code - Bridge Welding Code	2020
AASHTO/NSBA S10.1 Steel Bridge Erection Guide Specification (for Bridge Erection)	2019
Recommended (Informative) for Bridge Endorsement	
Chapter 15 Steel Structures of AREMA Manual for Railway Engineering	2020
6. References for Hydraulic Fabricators - including Advanced	
Revision Year	
Required (Normative)	
AISC Supplemental Requirements for Hydraulic Fabricators	6/1/2023
ANSI/ASNT CP-189 Standard for Qualification and Certification of Nondestructive Testing Personnel	2020
ASNT Recommended Practice No. SNT-TC-1A Personnel Qualification and Certification in Nondestructive Testing	2020
ASTM F3125/F3125M Standard Specification for High Strength Structural Bolts	2022
Standards and specifications applicable to the fabricator’s product, process, and/or contract documents	varies
Recommended (Informative)	
UFGS 05 59 20 Fabrication of Hydraulic Steel Structures	8/1/2018

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AWS D1.2/1.2M Structural Welding Steel - Aluminum	2014
AWS D1.3/D1.3M Structural Welding Code—Sheet Steel	2018
AASHTO/AWS D1.5/D1.5M Structural Welding Code - Bridge Welding Code	2020
AWS D1.6/1.6M Structural Welding Code - Stainless Steel	2017
If shop primer is applied, the following may be required:	
Manufacturer’s Product Data Sheet or equivalent	Current
SSPC PA 1 Shop, Field and Maintenance Coating of Metals	2016
SSPC SP 1 Solvent Cleaning	2016
SSPC SP 2, Hand Tool Cleaning	2018
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
If other coatings are being applied (those that require special care in surface preparation, application control, curing, and in-process inspections. e.g. zinc-rich, epoxy, urethane, multi-coat systems), in addition to the above, the following may be required also: NOTE: for Complex Coatings Endorsement refer to the appropriate section below.	
SSPC PA 2 Procedure for Determining Conformance to Dry Coating Thickness Requirements	2022
SSPC SP 3, Power Tool Cleaning	2018
SSPC SP 6/NACE No. 3, Commercial Blast Cleaning	2006
ASTM D4414 - Standard Practice for Measurement of Wet Film Thickness by Notch Gages	2020
VIS-3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
Required (Normative) Hydraulic Fracture Control Endorsement	
AASHTO/AWS D1.5/D1.5M Structural Welding Code - Bridge Welding Code	2020
7. References for Complex Coatings Endorsements	
	Revision Year
Required (Normative)	
AISC Supplemental Requirements for Applicators of Complex Coatings Endorsement	6/1/2023
SPE/QP3 420 Certification Standard for Shop Application of Complex Protective Coating Systems	2010
SSPC AB 1, Mineral and Slag Abrasives	2019
SSPC AB 2, Cleanliness of Recycled Ferrous Metallic Abrasives	2016
SSPC SP 1, Solvent Cleaning	2016
SSPC SP 2, Hand Tool Cleaning	2018
SSPC SP 3, Power Tool Cleaning	2018

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SSPC SP 5/NACE No. 1, White Blast Cleaning	2006
SSPC SP 6/NACE No. 3, Commercial Blast Cleaning	2006
SSPC SP 7/NACE No. 4, Brush-Off Blast Cleaning	2006
SSPC SP 10/NACE No. 2, Near-White Metal Blast Cleaning	2006
SSPC PA 1, Shop, Field, and Maintenance Coating of Metals	2016
SSPC PA 2, Procedure for Determining Conformance to Dry Coating Thickness Requirements	2022
SSPC PA 17, Procedure for Determining Conformance to Steel Profile/Surface Roughness/Peak Count Requirements	2020
SSPC VIS 1 Guide and Reference Photographs for Steel Surfaces Prepared by Dry Abrasive Blast Cleaning	2012
SSPC VIS 3 - Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning	2007
ASTM D3276 Standard Guide for Painting Inspectors (Metal Substrates)	2021
ASTM D4228 Standard Practice for Qualification of Coating Applicators for Application of Coatings to Steel Surfaces	2005 (2023)
ASTM D4285 - Standard Test Method for Indicating Oil or Water in Compressed Air	2018
ASTM D4417 Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel	2019
ASTM D7091 Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Non-Ferrous Metals	2022
Standards and specifications applicable to the fabricator’s product, process, and/or contract documents	varies
Recommended (Informative)	
SSPC AB3 – Ferrous Metallic Abrasive	2023
ASTM D4752 - Standard Practice for Measuring MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub	2020
AMPP Guide 21614-2023, Guide for Improving the Statistical Quality of Dry Coating Thickness Data on Ferrous and Non-ferrous Metal Substrates Using Continuous Read/Scanning Technology	2023
ISO 8502-9, Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness — Part 9: Field method for the conductometric determination of water-soluble salts	2020
ISO 8502-6, Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness — Part 6: Extraction of soluble contaminants for analysis - The Bresle method	2006

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Summary of changes

- Shop applied primer and coatings section added to each fabrication program
- SSPC Steel Structures Painting Manual Volume 2 has been discontinued and removed from this list
- SSPC Steel Structures Painting Manual Volume 1 removed from this list
- Complex Coating Endorsement has been revised to include key specifications previously included in SSPC Steel Structures Painting Manual Volume 2
- Complex Coatings Endorsement Informative section added
- AISC Steel Construction Manual 16th Edition
- AISC 341 and 358 for Seismic provisions revised
- Added Informative section for ALL programs
- AWS B5.1 added as informative