

ANSI/SDI A250.8

Revised August 2017

Specifications for Standard Steel Doors & Frames



ANSI/SDI A250.8 - 2017

- This standard was founded over 40 years ago as **SDI-100** and then adopted as **ANSI/SDI A250.8**
- As the cornerstone standard of SDI, it establishes the performance levels for doors and frames that architects can expect to receive from SDI member manufacturers
- This standard is reviewed every five years as part of the standard ANSI revision process and updated with current terminology
- As technology has improved, the standard has been updated to reference new testing methods

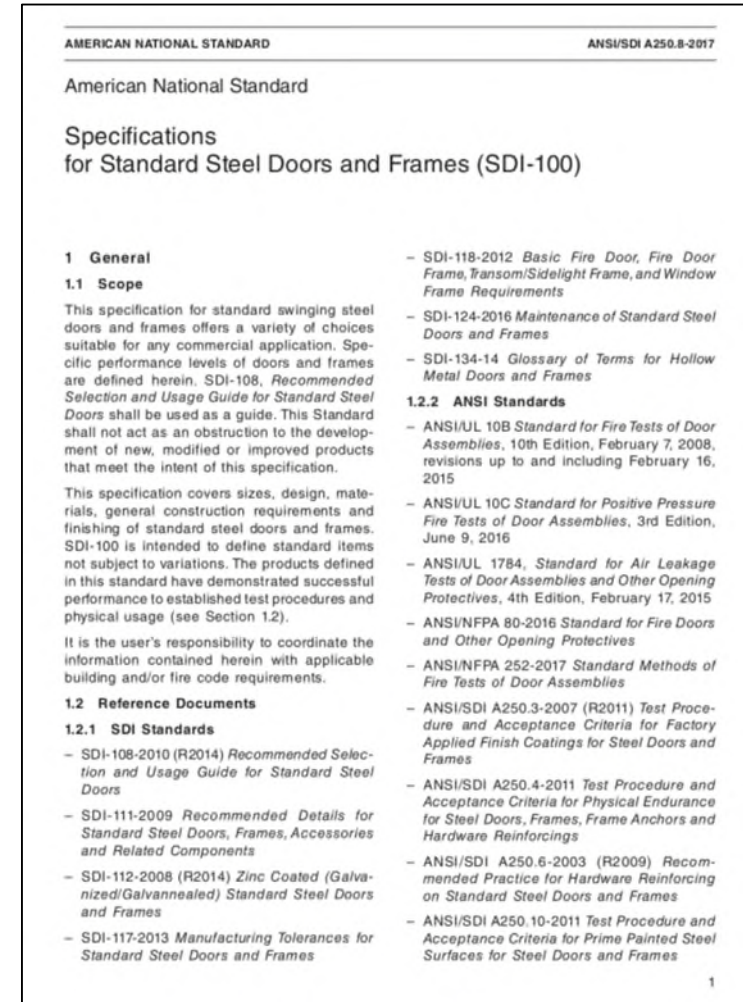
Description of A250.8

This standard provides:

- 1 A single document summarize the performance levels of doors and frames that specifiers can expect from a product bearing the SDI logo
- 2 Assurance to architects specifying **ANSI/SDI A250.8** that they are receiving a product that is well-constructed, tested, and evaluated to meet the specifications within that standard
- 3 Assistance to architects, specifiers, end-users and others with matching the performance parameters of their application to the appropriate steel door and frame specification

A250.8 Overview

- **ANSI/SDI A250.8** covers sizes, design, materials, general construction requirements and finishing of standard steel doors and frames
- Products defined in this standard have demonstrated successful performance to established test procedures and physical usage
- All information contained in this standard must be coordinated with applicable building and/or fire code requirements



A250.8 Overview

The standard lists levels and criteria to help the architect avoid under- and over-specifying:

- Under-specifying requirements increases life-cycle costs as openings have to be replaced
- Over-specifying requirements adds unneeded costs in the construction of a project

Table 1 – Standard opening sizes

Widths*	Ft-in	2'0"	2'4"	2'6"	2'8"	2'10"	3'0"	3'4"	3'6"	3'8"	3'10"	4'0"
	mm	610	711	762	813	864	914	1016	1067	1118	1168	1219

* Sizes shown are for single doors only; equal pairs of doors use twice the width indicated. Pairs of doors can consist of two unequal widths.

Heights	1-3/4" Doors	Ft-in	6'8"	7'0"	7'2"	7'10"	8'0"
		mm	2032	2134	2184	2388	2438

Heights	1-3/8" Doors	Ft-in	6'8"	7'0"	7'2"
		mm	2032	2134	2184

Table 2 – Steel thickness / door faces

Level	Model	Minimum Thickness		MSG No. ⁽¹⁾
		Inches	mm	
1	1	0.032	0.8	20
	2	0.032	0.8	20
2	1	0.042	1.0	18
	2	0.042	1.0	18
3	1	0.053	1.3	16
	2	0.053	1.3	16
	3	See Sec. 2.3.3 Construction Features		16
4	1	0.067	1.7	14
	2	0.067	1.7	14

⁽¹⁾ MSG No. to be used for reference purposes only.

A250.8 Overview

The standard also provides comprehensive guidelines for:

- Hardware preparation and locations
- Storage, handling, and installation of doors and frames
- Door and frame maintenance

Table 5 – Hardware locations

Locks, Latches, Roller Latches and Double Handle Sets	38" – 42" (965 mm – 1067 mm) Centerline of Lock Strike from Bottom of Frame	
Rim and Mortise Panic Devices		
Cylindrical and Mortise Deadlocks ⁽¹⁾	48" (1219 mm) to Centerline of Strike from Bottom of Frame	
Push Plates	Centerline 45" (1143 mm) from Bottom of Frame	
Pull Plates	Centerline of Grip @ 42" (1067) from Bottom of Frame	
Combination Push Bar	Centerline of 42" (1067 mm) from Bottom of Frame	
Hospital Arm Pull	Centerline of Lower Base is 45" (1143 mm) from Bottom of Frame with Grip Open at Bottom	
Hinges	Top	Up to 11-3/4" (298.5 mm) from Rabbet Section of Frame to Centerline of Hinge
	Bottom	Up to 13" (330.2 mm) from Bottom of Frame to Centerline of Hinge
	Intermediate	Equally Spaced Between Top and Bottom Hinges

⁽¹⁾ Cylindrical and Mortise Deadlock strikes shall be located at 48" (1219 mm) from the bottom of the frame unless otherwise specified.

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