

ASSA ABLOY

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SDI Technical Documents

The following is a list of the current Technical Documents available from the Steel Door Institute. All of these documents are contained in the SDI Fact File, and are for the first time available to download for free. The listed prices are for ordering hard copies, available individually in any quantity.

**To download any of these documents for free go to SDI's website at:
www.steeldoor.org/html/tech.html**

What Is The SDI?

A 4-page brochure discussing the Institute, its organization, structure and its activities.

SDI The Standard Steel Door and Frame Story

This document provides an overview of the products of the industry and general information concerning standard steel doors and frames.

SDI-106-99 Recommended Standard Door Type Nomenclature

This document contains standard door type nomenclature ranging from flush (Type F) to Dutch doors (Type D). The use of the standard nomenclature contained in the document will greatly simplify architectural drawing takeoff process and will do much to avoid confusion and errors which result from misinterpretation of these details.

SDI-108-99 Recommended Selection and Usage Guide for Standard Steel Doors

This document was developed to establish guide criteria for the selection and usage of 1-3/4" and 1-3/8" standard steel doors in such building types as apartment, dormitory, hotel/motel, hospital/nursing home, industrial, office and school.

SDI-109-99 Hardware for Standard Steel Doors and Frames

This document contains a listing of hardware from various hardware manufacturers that is compatible for use on standard steel doors and frames. It covers various types of locks, exit devices, closers, holders, hinges, roller latches, flush bolts, and electric strikes.

SDI-110-84 (R2000) Standard Steel Doors and Frames for Modular Masonry Construction

This document contains information in respect to, as the title indicates, the installation of standard steel doors and frames in modular masonry construction. The basic module covered in the document as developed by the industry is 4".

SDI-111-00 (Series) Recommended Selection & Usage Guide for Standard Steel Doors, Frames and Accessories**111-A Recommended Standard Steel Door Details**

Covers recommended steel door frame details as they are affected by common wall conditions.

111-B Recommended Standard Details for Dutch Doors Standard dimensions for dutch doors.**111-C Recommended Louver Details for Standard Steel Doors**

This document discusses, explains and details a variety of louver designs and size available for standard steel doors

111-D Recommended Door, Frame and Hardware Schedule for Standard Steel Doors and Frames

Contains a suggested door, frame and hardware schedule form and defines "handing".

111-E Recommended Weatherstripping for Standard Steel Doors and Frames

Contains details which represent the recommendations of the SDI in respect to weather-stripping of standard steel doors and frames.

111-F Recommended Existing Wall Anchors for Standard Steel Doors and Frames

A guide for architects to aid them in recognizing available options to the traditional sub buck detail which has been widely used in the past. It illustrates anchoring systems which are available in regular and labeled frames.

111-G Recommended Standard Preparation for Double Type (Interconnected) Locks on Standard Steel Doors and Frames

Dimensions for standard door and frame preparation for double type (interconnected) locks.

111-H High Frequency Hinge Preparations for Frames

Specifications for steel frames used in extremely high frequency or high use areas which need to be supplied with additional reinforcing to eliminate potential door sag.

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Standard Steel Doors and Frames

This document provides information regarding the galvanized sheet used in standard steel door and frame construction when a requirement for galvanized doors and frames is specified.

SDI-113-01 Standard Practice for Determining the
Steady State Thermal Transmittance of Steel Door
and Frame Assemblies

This document establishes a minimum standard and a method of test for thermal effectiveness of steel door and frame assemblies under circumstances that might reasonably be considered normal field applications and conditions.

SDI-117-00 Manufacturing Tolerances Standard
Steel Doors and Frames

This document is intended to furnish users and prospective users of standard steel doors and frames with practical information regarding mortise and manufacturing tolerances for both doors and frames.

SDI-118-01 Basic Fire Door Requirements

This document contains rules and other information in a condensed and simplified manner in respect to code requirements for the design and use of fire doors.

SDI-122-99 Installation and Troubleshooting Guide
for Standard Steel Doors and Frames

This document covers field installation problems most commonly experienced with standard steel door and frame installations. Most problems encountered are because of inappropriate application of the products and/or improper installation.

SDI-124-98 Maintenance of Hollow Metal Doors
and Frames

This document is intended to serve as a general outline of maintenance activities needed for hollow metal doors and frames. It should be noted that the door and frame are virtually maintenance free. Maintenance will be, for the most part, associated with accessories and hardware attached to the door and frame.

SDI-127 Series - Industry Alerts
(A through H)**127-A** End Closure**127-B** Door Edge Cutouts**127-C** Frame Cutout Limits**127-D** Electric Strikes in Stud Walls**127-E** Prime Painted Materials Alert**127-F** Butted Frames Rough Opening
Sizes**127-G** Environmental Considerations
Relating to Factory Painted Steel Doors
and Frames**127-H** Water Penetration**127-I** Grouting Frames in Drywall**127-J** Bituminous Back-Coating of Frames**SDI-128-97** Guidelines for Acoustical Performance
of Standard Steel Doors and Frames

This document shall provide guidelines for the specifying, designing, installing, and adjusting of standard steel doors and frames in Sound Control applications.

SDI-129-00 Hinge and Strike Spacing

A reference of standard locations used in the manufacture of steel door and frames by SDI member companies for a variety of door sizes.

SDI-130-03 Electrified Hinge Preparations

Practical information regarding an acceptable method for preparing frames for 4-1/2" electric hinges. This document will allow frame manufacturers to provide frames prior to having knowledge of the specific electric hinge being used.

ANSI Standards

The SDI has promulgated the following ANSI Standards and Test Methods. All of the SDI Member Companies stress the Performance of Standard Steel Door Products and those products have been tested to meet the acceptance criteria or requirements contained in these standards.

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www.steeldoor.org/html/ansi.html**

A250.3-1999 Test Procedure and Acceptance Criteria for Factory Applied Finish Painted Steel Surfaces for Steel Doors and Frames

Prescribes the procedure to be followed in the selection of material, chemical preparation, painting, testing, and evaluation of factory applied finish painted steel surfaces for steel doors and frames.

A250.4-2001 Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcing

A standard method of testing the performance of a steel door mounted in a pressed steel or channel iron frame under condition that might be considered an accelerated field operating conditions.

A250.6-2003 Hardware on Standard Steel Doors (Reinforcement & Application)

Provides users of standard steel doors and frames with practical information regarding accepted design methods for reinforcing, and recommended practices for proper field preparation and installation of builders hardware.

A250.7-1997 Nomenclature: Standard Steel Doors and Frames

Detailed definitions of terms common to the Standard Steel Door and Steel Door Frame Industry.

A250.8-2003 Recommended Specifications for Standard Steel Doors and Frames (Formerly SDI-100)

This specification for swinging steel doors and frames offers a number of choices in both regular and fire rated door and frame constructions. The user must select from the specification the specific grades of doors and frames that best apply to the project.

This specification covers sizes, types, materials, general construction requirements and finishing of 1-3/4 in extra heavy duty steel doors, 1-3/4 in heavy duty steel doors, 1-3/4 in and 1-3/8 in standard duty steel doors, together with frames and accessories. They are intended to be standard items not subject to variations.

A250.10-1998 Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames (R2004)

Procedures for the selection of material, chemical preparation, painting, testing and evaluation of prime painted steel surfaces for steel doors and frames.

A250.11-2001 Recommended Erection Instructions for Steel Frames

This document includes information in respect to storage of frames on the jobsite, grouting and back painting of frames and assembly of frames. It contains instructions in respect to bracing frames before wall construction and the installation of frames in masonry, steel stud wall construction, wood stud wall construction and drywall construction.

A250.13-2003 Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies

This standard provides procedures for testing and establishing load ratings (design load in pounds per square foot or pounds force) for components of exterior swinging door assemblies. It is the intent of this document to test the protection of openings during severe windstorm conditions, such as a hurricane, that produces sustained wind speeds or gusts in a range of 110 to 150 miles per hour as defined by ASCE 7-02. It is not intended to simulate wind forces generated by tornadoes.

ARCHITECTURAL TECHNICAL DATA

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