Recommended Details for Standard Steel Doors, Frames, Accessories and Related Components

The information that follows represents the Standard Steel Door and Frame Industry’s considered views on a number of details normally encountered in building plans and specifications.

The Steel Door Institute recommends that they be followed except when very unusual details necessitate special drawings. The enclosed may be used as a reference document or added directly to the job drawings.
Definition of “STANDARD”

We call our products Standard for three reasons:

**FIRST**, because our products are made to conform to published standards and established dimensions.

**SECOND**, our products are manufactured to meet established performance requirements.

**THIRD**, the fabrication of our products is controlled by standard manufacturing procedures which ensure uniform high quality.
Recommended
Standard Steel Door Frame Details
Hardware Locations

Note: Center Hinge Omitted on 6' 8" (2032mm), 1 ¾" (34.5mm) Doors, Unless Specified.

Handing Chart

KS indicates keyed side of lockset.
Standard Frame Details

Standard Profiles

Knocked Down (Butted)
May be Horizontal or Vertical

Knocked Down
(Mitered)
Set Up Arc Welded
and Ground Smooth

Set Up Spot Welded

Mitered and Welded
Inside or Outside

Backbend

Face

Rabbit

Stop

Backbend
Return

Throat
Opening

Jamb
Depth

Double Rabbet

Single Rabbet

Slip-On Drywall

Double Egress

Drywall

1" Gypsum Core
with 5/8" Gypsum
Board with 1/2" or 5/8"
Gypsum Board

1-1/8" Steel or Wood
Stud with 1/2 or 5/8"
Gypsum Board

2-1/8" or 3-5/8" Steel Stud
with Two Layers of 5/8"
Gypsum Board Each Side

2-1/8" or 3-5/8" Steel or
Wood Stud with 1/2" or
5/8" Gypsum Board

Butted Masonry, Brick
Tile or Concrete Block

4" Block and Brick
Combination

Stucco — 2 x 4 Wood
Stud with 5/8" Gypsum
Board & Plaster

3" (78.2 mm) Precast
Gypsum Tile with 5/8"
(15.8 mm) Plaster

Butted Masonry, Tile or
Concrete Block

4" Block with 3/8" Plaster

Existing Masonry or Concrete

2 x 4 Wood Stud with 1/4"
Plaster on Metal Lath

2 x 4 Wood Stud with 5/8"
Plaster on Metal Lath

2" Corner Tile and 4"
Block Combination

Common Wall Conditions

Corners

Minimum 1/4" (6.3mm) Maximum 3/4" (19.9mm)

Double Rabbet

Single Rabbet

Slip-On Drywall

Double Egress

Knocked Down (Butted)
May be Horizontal or Vertical

Knocked Down
(Mitered)
Set Up Arc Welded
and Ground Smooth

Set Up Spot Welded

Mitered and Welded
Inside or Outside

Backbend

Face

Rabbit

Stop

Backbend
Return

Throat
Opening

Jamb
Depth

Minimum 1/4" (6.3mm) Maximum 3/4" (19.9mm)

Door Thk. Dim. "A"

1-1/8" (34.9mm) 1-9/16" (39.6mm)

1-1/2" (44.4mm) 1-15/16" (49.2mm)

1-1/8" (34.9mm) 1-9/16" (39.6mm)

1-1/2" (44.4mm) 1-15/16" (49.2mm)

2" Solid Plaster with 1/2"
Gypsum Board Core

Butted Masonry, Tile or
Concrete Block

4" Block with 3/8" Plaster

Existing Masonry or Concrete

2 x 4 Wood Stud with 1/4"
Plaster on Metal Lath

2 x 4 Wood Stud with 5/8"
Plaster on Metal Lath

2" Corner Tile and 4"
Block Combination
Special Frame Construction Details and Typical Hardware Preparations

Anchor Details

Masonry Wire Anchor  Masonry Tee Anchor  Wood Stud Anchor  Steel Stud Anchor  Existing Wall Anchor

Adjustable Base Anchor  Standard Base Anchor  Typical Mullion Sections with Base Anchor  Plaster Partition Anchor (Ceiling Strut Optional)

Special Frame Details

Hospital Stop  Rubber Silencers  Mortise Hinge  Strike

Hardware Preparations

Surface Hardware Reinforcement. Weld-in Reinforcement Shown, Loose Reinforcing Sleeve Available for Field Installation.

For more information on steel doors and frames, contact any of the following members of the Steel Door Institute:

BLACK MOUNTAIN DOOR
310 Flint Drive
Mt. Sterling, KY 40353
(859) 274-0411
www.blackmountaindoor.com

CECO DOOR
9199 Telecom Drive
Milan, TN 38358
(731) 686-6345
www.cecodoor.com

CURRIES
P.O. Box 1648
Mason City, IA 50402-1648
(641) 423-1334
www.curries.com

DEANSTEEL MANUFACTURING CO.
931 S. Flores Street
San Antonio, TX 78204-1406
(210) 229-6971
www.deansteel.com

DOOR COMPONENTS INC.
7980 Redwood Avenue
Fontana, CA 92336-1638
(909) 770-5700
www.doorcomponents.com

HOLLOW METAL XPRESS
602 S. 65th Avenue
Phoenix, AZ 85043
623-936-7000
www.HMXpress.com

HOLLOW METAL XPRESS
602 S. 65th Avenue
Phoenix, AZ 85043
623-936-7000
www.HMXpress.com

MESKER DOOR, INC.
3440 Stanwood Boulevard
Huntsville, AL 35811-9021
(256) 851-6670
www.meskerdoor.com

MPI
319 North Hills Road
Corbin, KY 40701
(606) 523-0173
www.metalproductsinc.com

PIONEER INDUSTRIES, INC.
171 South Newman Street
Hackensack, NJ 07601
(201) 933-1900
www.pioneerindustries.com

SECURITY METAL PRODUCTS
5700 Hannam Avenue, Suite 250
Culver City, CA 90230
(310) 641-6690
www.secmet.com

REPUBLIC DOORS & FRAMES
155 Republic Drive
McKenzie, TN 38201-0580
(731) 352-3383
www.republicdoor.com

STEELCRAFT
9017 Blue Ash Road
Cincinnati, OH 45242
(513) 745-6400
www.steelcraft.com

STEEL DOOR INSTITUTE
30200 DETROIT ROAD • CLEVELAND, OHIO 44145
440.899.0010 • FAX 440.892.1404 • www.steeldoor.org

Standards As Tough As Steel™
Recommended Standard Details for Dutch Doors

**ELEVATION**

NON-FIRE RATED

- Steel door
- Mortise or surface dutch door bolt
- Steel Shelf (optional)
- Lock set

*$ Location is generally 40” but may vary as indicated by specifier to suit local accessibility codes.

**PLAN**

- Steel door frame
- 1 ¾” (44mm) Steel door
- Optional steel shelf – Fasten w/ S.M.S. in field
- Steel bracket
- 3/4” Max. (19mm) finished floor

**SECTION “A” - “A”**

- Shelf may be field installed either side
- 5 1/2” Max. (140mm)
- 10’ Max. (3054mm)
- 39” Min. (991mm)
- 6’-8” (2032mm), 7’-0” (2134mm), 7’-2” (2184mm), 7’-10” (2388mm) & 8’-0” (2438mm)

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For more information on steel doors and frames, contact any of the following members of the Steel Door Institute:

**BLACK MOUNTAIN DOOR**
310 Flint Drive
Mt. Sterling, KY 40353
(859) 274-0411
www.blackmountaindoor.com

**CECO DOOR**
9159 Telecom Drive
Milan, TN 38358
(731) 688-8345
www.cecodoor.com

**CURRIES**
P.O. Box 1648
Mason City, IA 50402-1648
(641) 423-1334
www.curries.com

**DEANSTEEL MANUFACTURING CO.**
931 S. Flores Street
San Antonio, TX 78204-1406
(210) 226-8271
www.deansteel.com

**DOOR COMPONENTS INC.**
7980 Redwood Avenue
Fontana, CA 92336-1638
(909) 770-5700
www.doorcomponents.com

**HOLLOW METAL XPRESS**
602 S. 65th Avenue
Phoenix, AZ 85043
623-936-7000
www.HMXpress.com

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3440 Stanwood Boulevard
Huntsville, AL 35811-9021
(256) 851-6670
www.meskerdoor.com

**MPI**
319 North Hills Road
Corbin, KY 40701
(606) 523-0173
www.metalproductsinc.com

**PIONEER INDUSTRIES, INC.**
171 South Newman Street
Hackensack, NJ 07601
(201) 933-1900
www.pioneerindustries.com

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155 Republic Drive
McKenzie, TN 38201-0580
(731) 352-3383
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**SECURITY METAL PRODUCTS**
5700 Hannum Avenue, Suite 250
Culver City, CA 90230
(310) 641-6690
www.secmet.com

**STEELCRAFT**
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Cincinnati, OH 45242
(513) 745-6400
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440/899-0010 • FAX 440/892-1404
www.steeldoor.org
Recommended
Louver Details for Standard Steel Doors

Standard steel doors can be provided with a variety of louver designs and sizes. This publication contains explanations and details of louver designs that are most commonly available within the standard door industry.

When specified, doors shall be provided with louvers at the bottom and/or top. The choice of which to use must be determined by the architect on aesthetic, functional, and economic grounds.
Recommended Louver Details 
for Standard Steel Doors

Function – Louvers permit free air passage, controlling the volume by their size or design. They diffuse or control direction of air flow by blade design.

Insert louvers – Louvers commonly used in standard steel doors are of the “insert” type designed to be mounted into a cutout in the door and an overlapping frame. Inverted “V” blade, “Z” blade, inverted “Y” or chevron-type blade, lightproof, adjustable blade, grille type, and fusible link self-closing fire door types are available in a wide range of sizes. Also available from some steel door manufacturers is a pierced louver design. Insert louvers intended for exterior doors or other doors where security is a consideration should have fasteners or materials specified accordingly.

Note: If a louver door is required to provide security, the steel door manufacturer should be consulted.

Bird or insect screens are available with many of the standard design louvers. Where specified, consult steel door manufacturer for availability.

Weatherproof louvers – True weatherproof designs do not exist. Some louvers are manufactured to provide a certain degree of rain protection.

Louver construction – Standard louver frames are a minimum 20 gauge steel with louver blades of a minimum 24 gauge steel. The louver blades can be welded or tenoned to the frame and the entire assembly is generally fastened to the door with moldings. Generally, one molding will be an integral part of the louver, while the other molding will be detachable. When louvers are installed, the detachable moldings should be located on the room or non-security side of the door. Where doors are manufactured as non-handed, louvers may require reversing during door installation to suit actual handing.

Application:

Inverted “V” or “Z” blade types allow maximum free air flow with minimum static pressure differential.

Inverted “Y” or chevron blade types, while offering less free air flow, offer a higher strength factor for schools and other areas where vandalism or hard usage may occur.

Lightproof louvers are used where light transmission must be avoided, but provide minimal free air flow.

Adjustable blade louvers are used where air flow is varied in velocity and control of flow is needed.

Grille type louvers are normally associated with air conditioning, where air must be diffused in random flow, avoiding higher velocity air flow patterns.

Fusible link louvers are used in fire doors where flames and intense heat passage must be controlled. The link release temperature recommended is 135°F (57°C). These louvers must be labeled and may not exceed 24” x 24”. Fusible link louvers are allowed only at the bottom of fire doors. Since closing is heat activated, these louvers are not to be used on smoke control doors.

Pierced louvers, available from some steel door manufacturers, offer a flush condition and may be furnished with internal insect screens. Louvers are formed by embossing the door face sheets.

Louver size determinations – As a guide, the following approximate percentages of louver size may be used to determine the free area in a given size louver:

- Pierced louver 20%
- Inverted “V” inserted louver 50 – 60%
- Inverted “Y” (chevron) inserted louver 40 – 60%
- “Z” type inserted louver 40 – 45%
- Adjustable inserted louver 40 – 50%
- Lightproof inserted louver 20%
- Fusible link inserted louver 45%

The above percentages assume there is no air pressure drop from one side of the door to the other. On air condition grilles an air pressure drop is normal. An average 70% of the grille size can be used in computing free area on doors with air condition grilles.

The percentages noted above are approximates. Consult the individual manufacturer’s literature for the specific sizes and ratings normal to their program.

Coordination – A combination of glass lights and louvers is common in steel door work. Care should be taken to avoid specifying too long a narrow light when a louver or grille occurs in the bottom of the same unit. In addition, handicap codes may dictate the location of the louver relative to the bottom of the door.

Full louver doors – A minimum 5” (127.0mm) rail occurs at the top and at the vertical stiles and an 8” (203.2mm) minimum rail occurs at the bottom of these doors (Consult door manufacturer for exact stile/rail dimensions). Stile and top rail sizes must be coordinated with closer dimensions, lock preparations, and lever handles. Pierced louvers are not available on full louvered doors.

Finish – The finish is to be prime painted, except when the louver is used in a factory prefinished door, in which case the louver will be finish painted with a color to match the door. For exterior doors, zinc coated louvers are available where specified.
Cross Section Details

- Inverted “V” Blade
- Inverted “Y” Blade
- Chevron or Hood-Type Blade
- Fusible Link

- Insect screen (optional)
- Grille
- Pierced
- “Z” Blade
- Lightproof
Recommended Door, Frame and Hardware Schedule for Standard Steel Doors and Frames

The purpose of this publication is to establish a guide for architects and those responsible for scheduling doors, frames, and hardware requirements.

Although primarily designed for steel doors and frames, this suggested schedule is flexible enough to list total door and frame requirements of a complete job.

Items not specifically covered in the schedule may be listed in the “Remarks” and extra columns near the end.

Typical handing of doors and hardware is to be based on the format below:

**Handing Chart**

- KS indicates keyed side of lockset.
# Door, Frame and Hardware Schedule

**General Notes:**

1. If a fire door is required, it is to be designated in the “Label” column of schedule with appropriate hourly rating. Also, note in the “Remarks” column whether door is to have an Underwriters’ Laboratories (UL) Factory Mutual (FM), or Warnock Hersey (WHI) label.

2. Thresholds, when required, are to be noted in “Hardware” column of schedule.

3. Any special item not listed in schedule for doors, frames, or hardware is to be shown in the “Remarks” column.

4. Indicate gauge of material for steel. When materials other than steel are used, indicate AL for aluminum or WD for wood.

5. Refer to SDI-106 for Recommended Standard Door Design Nomenclature.

6. When frame elevations are indicated, supplemental drawings must be attached.

7. Doors provided with 3/4" undercut unless otherwise specified.

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<th>FROM</th>
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<th>HAND</th>
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<th>FRAMES</th>
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1. If a fire door is required, it is to be designated in the “Label” column of schedule with appropriate hourly rating. Also, note in the “Remarks” column whether door is to have an Underwriters’ Laboratories (UL) Factory Mutual (FM), or Warnock Hersey (WHI) label.

2. Thresholds, when required, are to be noted in “Hardware” column of schedule.

3. Any special item not listed in schedule for doors, frames, or hardware is to be shown in the “Remarks” column.

4. Indicate gauge of material for steel. When materials other than steel are used, indicate AL for aluminum or WD for wood.

5. Refer to SDI-106 for Recommended Standard Door Design Nomenclature.

6. When frame elevations are indicated, supplemental drawings must be attached.

7. Doors provided with 3/4" undercut unless otherwise specified.
Recommended Guidelines for the Use of Gasketing and Thresholds for Standard Steel Doors and Frames

The following details represent the recommendation of The Steel Door Institute in this important corollary area. This document should in no way be considered an endorsement of any manufacturer nor does it imply that any materials not shown should be considered inferior weatherstripping.

The criteria employed in the selection of these details included:

1. The experience of the Institute with the details shown.
2. The adaptability of the material shown to standard steel doors and frames.
3. The ability to maintain gasketing at the door and frame during periods of normal thermal movement to the balance of the building structure.
4. The availability of the material from normal commercial sources.
5. Ease of maintenance.

Disclaimer/Source Reference

Since the members of the STEEL DOOR INSTITUTE do not manufacture gasketing, it is strongly suggest that the BHMA Members’ catalogs and BHMA documents be consulted to establish “fit and function” criteria for specifying of any gasketing. BHMA Documents are available from:

Builders Hardware Manufacturers Association
355 Lexington Avenue, 15th Floor
New York, NY 10017
Phone: (212) 297-2122
Fax: (212) 370-9047
www.buildershardware.com
Recommended Guidelines for the Use of Gasketing and Thresholds for Standard Steel Doors and Frames

**General**

Gasketing and thresholds are used to control the flow of air, smoke, heat or cold, water, sound or other environmental factors through the door opening. The location or intended use of the door assembly, the environment to which it is exposed, and the performance expected will dictate the selection of gasketing and threshold products. The variety of materials, their composition, profiles, and performance are virtually limitless. These are described in ANSI/BHMA A156.21 or A156.22. Generally, gasket materials are sponge neoprene, rubber, vinyl, brushes, or magnets. Retainers are generally steel, aluminum, brass, bronze, vinyl, or other non-ferrous materials. Information in catalogs published by BHMA members aid in the selection of perimeter sealing "systems" to meet the applicable performance criteria of the door assembly.

**Perimeter Seals**

Sealing of gaps between door edges and the header or jambs generally has the greatest effect on performance of the door opening. The available options are as varied as their applications and their mounting surfaces e.g. steel, structural steel, or wood. Care should be taken to select materials that will assure performance under specific job requirements as well as meeting the mounting surface criteria.

Gasketing products should never impede the operation, opening or closing of the door assembly. Simple contact is all that is required for some products. Other products for more severe installations require a slight compression. A simple test for gasket compression may be conducted by inserting a sheet of letterhead paper into the gap and closing the door. The paper should be held in place by the gasketing.

Gasketing or weather-stripping, of any kind, should be furnished and installed in accordance with manufacturers instructions.
**Door Bottom Seals**

In most instances, sealing of gaps between the bottom of doors and flooring or thresholds is accomplished with door bottoms or overlapping strips in metal retainers. These may be of a design that extends beyond the bottom of the door mechanically, or of a fixed protruding or overlapping design.

Door bottom gaskets must compress against a solid object to affect a proper seal. Carpeting by its pliant nature does not provide a proper seal.

**Astragal Seals**

Sealing of door edges at meeting stiles, in lieu of or in addition to factory mounted astragals is accomplished by supplemental gasketing. This gasketing may be closely abutting fixed members or by overlapping strips in metal retainers.

Overlapping gasketing is normally used to avoid interference with edge mounted hardware such as locksets or flush bolts. Closely abutting gasketing is commonly used where both doors must operate simultaneously or independently as in egress doors.

**Thresholds**

Thresholds may be used in addition to or in lieu of door bottom seals. They may incorporate gaskets or other formed profiles to allow for exit device latching or may be prepared for flush bolt latching. Thresholds should be provided under the door and between the frame to allow for a smooth transition between floor coverings of different heights or materials. Special consideration should be given to threshold designs used in means of egress or in handicap accessible situations. The latter limitations are covered in ANSI/ICC A117.1.
Fire Door Considerations

When supplying products to be used on fire rated openings, care should be taken to maintain the proper clearances around the perimeter of the door assembly in accordance with NFPA 80. Gasketing materials must be investigated or “Listed” to determine that their installation does not adversely affect the fire resistance performance of the assembly. For example, the performance of gasketing is observed during the fire test to ensure that flaming does not occur on the exposed surface of door assemblies. It is important to note, however, that the ANSI/UL 108, ANSI/UL 10C and ANSI/NFPA 252 standard fire tests do not include evaluation of the door assembly relative to preventing the passing of smoke or other products of combustion through or around the assembly. Openings that require a smoke seal must be tested in accordance with NFPA 105, UL 1784 or UBC 7-2 Part 11, 1997. In fire door applications it is VITAL that gasketing does not inhibit the ability of the door assembly to close and latch.

Performance Testing Criteria

Gasketing products are covered under ANSI/BHMA A156.22. Included in that standard are:

• Closing Force test
• Heat Test
• Cold Test
• Air Infiltration Test

Thresholds are covered under ANSI/BHMA A156.21. Included in that standard are:

• Weight bearing test
Recommended

Existing Wall Anchors

for

Standard Steel Doors and Frames
Recommended Existing Wall Anchors for Standard Steel Doors and Frames

This standard is a guide for architects to help them recognize available options to the traditional sub buck detail widely used in the past. The anchoring systems shown are available in regular and labeled frames.

The details shown are typical of those employed by members of the Steel Door Institute, but all of the details are not made by all of the members of the Institute. A general reference to this document in your specifications should result in all of the members of the SDI and most of the non-members being able to bid on the job without a multitude of exceptions.

In order to make the installation successful, careful consideration shall be given to all tolerances involved and that sufficient clearance is figured to allow for them.

It has been “customary” to allow \( \frac{1}{4} \)" clearance around the frame perimeter when establishing rough opening sizes or when figuring non-standard overall frame sizes. Although this dimensional requirement does not appear in Industry publications, it is based on the following:

- Both SDI 117-00 and ANSI/NAAMM HMMA 861-00 recognize a + tolerance in opening width and height.
- Both of these documents recognize a ± tolerance in frame face dimensions.
- Both ANSI/NAAMM HMMA 861-00 and SDI 117-00 recognize a ± installation tolerance for vertical plumb.

Frames will “fit and function” if made to these dimensional tolerances and installed within tolerances.

There is, however, relatively no assurance that the substrate (walls) will be of suitable size or alignment.

We therefore recommend that the rough openings for these cases be no less than \( \frac{3}{16} \)" larger on all 3 sides than the “intended” overall frame size. (Example: 3070 standard frame = 3’-4 \( \frac{3}{8} \)" x 7’-2 \( \frac{3}{8} \)”). The installer carries the responsibility for shimming and aligning as necessary. Gaps are normally sealed as part of the installation or caulking/painting process. Architectural Specifications are to be consulted to determine the appropriate sealant material to be used at fire door or smoke control frames.
NOTE C
The head of the bolt may be filled in field with appropriate filler.

NOTE D
Up to 7’6” (2286 mm) height minimum four (4) anchor required per jamb

* Fire rated frames require \( \frac{3}{8} \)” (9.5 mm) diameter bolts. Steel expansion shields must be used instead of lead shields.
Recommended Standard Preparation for Double Type (Interconnected) Locks on Standard Steel Doors and Frames

Note: Minimum size of cutout as noted is subject to manufacturer’s standard clearance tolerances.
High Frequency Hinge Preparations for Frames

**Background:**
There are occasions where steel frames used in extremely high frequency or high use areas need to be supplied with additional reinforcing to eliminate potential door sag. These types of openings would include: main entrances to schools, rear exits where severe wind abuse could be a factor, auditoriums, gymnasiums, and the like. When these types of installations are required, there is a method in which this can be handled, efficiently and economically, through providing auxiliary reinforcing to standard door frames. The specification for this is as follows:

**Specification:**
When a high frequency preparation is required, the top hinge of the door frame shall be provided with an auxiliary reinforcement as shown in example ‘A’ or ‘B.’ For additional strength, the center and bottom hinge reinforcement may also be provided with additional reinforcements.

* High frequency hinge preparations may vary between manufacturers.
AVAILABLE PUBLICATIONS

Specifications
- ANSI/SDI A250.6  Recommended Practice for Hardware Reinforcements on Standard Steel Doors and Frames
- ANSI/SDI A250.8  SDI 100 Specifications for Standard Steel Doors & Frames
- SDI-118  Basic Fire Door, Fire Door Frame, Transom/Sidelight Frame, and Window Frame Requirements
- SDI-128  Guidelines for Acoustical Performance of Standard Steel Doors & Frames
- SDI-129  Hinge & Strike Spacing

Test Procedures
- ANSI/SDI A250.3  Test Procedure & Acceptance Criteria for Factory Applied Finish Coatings for Steel Doors & Frames
- ANSI/SDI A250.4  Test Procedure & Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors
- ANSI/SDI A250.10  Test Procedure & Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors & Frames
- ANSI/SDI A250.13  Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies for Protection of Building Envelopes (Not applicable for FEMA 320/361 or ICC-500 Shelters)
- SDI-113  Standard Practice for Determining the Steady State Thermal Transmittance of Steel Door & Frame Assemblies
- SDI-131  Accelerated Physical Endurance Test Procedure for Steel Doors, Frames and Frame Anchors

Construction Details
- ANSI/SDI A250.11  Recommended Erection Instructions for Steel Frames
- SDI-110  Standard Steel Doors & Frames for Modular Masonry Construction
- SDI-111  Recommended Details for Standard Details Steel Doors, Frames, Accessories and Related Components
- SDI-122  Installation Troubleshooting Guide for Standard Steel Doors & Frames

Miscellaneous Documents
- SDI-112  Zinc-Coated (Galvanized/Galvannealed) Standard Steel Doors & Frames
- SDI-117  Manufacturing Tolerances for Standard Steel Doors & Frames
- SDI-124  Maintenance of Standard Steel Doors & Frames
- SDI-127  Industry Alert Series (A-L)
- SDI-130  Electrified Hinge Preparations
- SDI-134  Nomenclature for Standard Steel Doors & Steel Frames

AUDIO-VISUAL PROGRAMS ALSO AVAILABLE

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