

LEAD LINED

LEAD LINED DOORS



LEAD LINED HOLLOW METAL DOOR

- All Doors are Steel Stiffened
- Hollow Metal LL door primed finish 14, 16 or 18 Gauge
- Stainless Steel Door 16ga type 304 standard
- Hollow Metal/Plastic Laminate skin. 14 or 16 Gauge. Edge Guards Required with HPL Doors
- Single swing, Standard Pairs and Double Egress available Opening types

HARDWARE APPLICATION TYPES

- **D3676** Inset Exit Device for Fire-Rated Pairs
- **D3677** Inset Exit Device for Fire-Rated Single Doors
- **D3080** Trim with 12 Different Lever Designs
- **D3375** Mortise Exit Device
- **D3640** Series Lever X Lever Cylindrical Lock
- **D3681** Inset Exit Device X Flush Pull
- **D3682** Push X Pull Hardware
- **D3683** Pull Only Hardware
- **D3684** Push Only Hardware
- **D3621** Flush bolt for paired applications.
- Continuous Hinges standard; we will prep for Butt Hinges, Pocket Pivots or Offset Pivots (supplied by others)
- Available in RITE Door Standard Finishes

SIZES AVAILABLE

- Singles 3hr 4'0 x 10'0 / 90 Min 4'3 x 10'0
- Pairs & Double Egress 3hr 8'0 x 10'0 / 90 Min 8'6 x 10'0

LEAD THICKNESS

- 1/16" maximum

PERFORMANCE STANDARD

SPECIFICATION COMPLIANCE

08 11 13 SPECIFICATION COMPLIANCE

RITE Door's product quality and performance is equal to or exceeds the manufacturers listed in most 08 11 13 Specification.

Manufacturers listed in the 08 11 13 Specifications that are members of the Steel Door Institute (SDI) comply with the SDI standards. RITE Door's is an active member of the SDI and has developed products meeting applicable commercial hollow metal material, fabrication, and performance standard requirements including: HMMA, ANSI, ANSI/DHI, ASTM, SDI, and NFPA.

The specific sections of the Section 08 11 13 specification have been reviewed as follows:

SECTION 2.2 MATERIALS

A, B, C

Steel used in RITE Door's products meet ASTM requirements listed in ANSI A250.8. Cold rolled, hot rolled, galvanized, galvanized, and stainless steel products are summarized.

RITE DOOR'S PRODUCT USES	MATERIAL GAUGE	STEEL TYPE	ASTM DESIGNATION
Doors Frames	14, 16, 18 14, 16, 18	Cold Rolled	A568/A568M A1008/A1008M*
Reinforcing Door Hinge/Lock Channels	11, 7, 14, 12, 10	Hot Rolled	A568/A568M A1011/A1011M*
Doors Frames	18, 16, 14 14, 16, 18	Galvanized A60	A653A653M A1011/A1011M**
Doors Frames	16, 14, 16	Stainless Steel	A480/A480M

*formerly ASTM A569, RITE Door's product complies with ASTM A569 and ASTM A1008

**formerly ASTM A366 and ASTM A620, RITE Door's product complies with ASTM A366, ASTM A620, and ASTM A1011



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PERFORMANCE STANDARD

SPECIFICATION COMPLIANCE

SECTION 2.3 DOORS

A, B, C

RITE Door 16 gauge, 370, N-Edge doors meet the requirements of ANSI A250.8, Level 3, Physical Performance Level A. Door edge seams can be prepared as Model 1 (full flush with edge seam) or Model 2 (seamless) and remain compliant with Level 3. In fact, 18 gauge (0.043", Level 2) 370 series doors meet the Level A requirements as indicated:

Test Levels & Cycles (ANSI A250.4)

RITE DOOR'S DOOR TYPE AND FRAME TYPE	LEVEL C 250,000	LEVEL B 500,000	LEVEL A 1,000,000	BEYOND LEVEL A 1,500,000	BEYOND LEVEL A 2,000,000
16 ga. (0.053"), 370 door, N-Edge*					
18 ga. (0.043"), 370 door, N-Edge					
16 ga. (0.053"), 5-3/4" jamb depth, KD drywall slip-on frame with compression anchor and standard base anchors					
16 ga. (0.053"), 5-3/4" jamb depth, KD masonry frames and anchors					
20 ga. (0.034"), 370 door, N-Edge					

* ANSI A250.8 only requires a 3'0" x 7'0" door, but RITE Door tested a 4'0" x 7'0" door. In spite of the increased potential for failure, the RITE Door door exhibited exceptional performance.

D

Vision Lite Systems: lite kits are available for 3/8", 5/8", 7/8", and 1-1/8" thick glass.

SECTION 2.4 FRAMES

B, C

Steel doors installed in 16 gauge (0.053") or 14 gauge (0.067") frames meet ANSI 250.8, Level 1-4 requirements. 12 gauge (0.093"), 14 gauge (0.067"), 16 gauge (0.053"), or 18 gauge (0.042") frames can be provided for use with steel or wood doors.

D

Door silencers: frame stops can be fabricated to accept three silencers on single door frames and two silencers on double door frame heads.

F, G

Supports and Anchors: various anchors are available as 16 gauge (0.053") or 18 gauge (0.042") cold rolled, zinc-coated, or metallic-coated steel. Galvanized wall anchors (0.187" diameter wire) are available for masonry construction applications. Zinc-coated bolts used with existing opening anchors comply with ASTM A510 and ASTM B633, SC1, Type III, FF-S-325, Group II, Type 3, Class 3.



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PERFORMANCE
STANDARD

SPECIFICATION COMPLIANCE

SECTION 2.5 FABRICATION

A

RITE Door steel doors and frames are fabricated to comply with ANSI A250.8.

B

The RITE Door door design incorporates 0.053" inverted top and bottom channels.

D

Polystyrene cores used in RITE Door's 370 series doors are bonded to the door skins using contact adhesive and complies with SDI standards.

E

Non-fire rated Door Clearances: hinge side clearance = 1/16", top and lock side clearance = 1/8", bottom clearance = 5/8", and clearance between pairs of doors = 1/4"

F

Fire Rated Door Clearances: doors meeting clearance requirements of NFPA 80 can be fabricated.

G

Single-Acting Door Edge Profile: square or beveled (1/8" in 2") edge doors can be provided.

H

Products are fabricated complying with SDI 117.

I

Concealed stiffeners, reinforcement, edge channels, louvers, and mouldings are fabricated from cold-rolled or hot-rolled steel.

J

Exposed screws or bolts are flat countersunk or oval head, unless otherwise specified.

K

Thermal-Rated (Insulating) Assemblies: thermal-rated assemblies can be provided with U-value of 0.41Btu/(ft².hr.°F) or better when tested in accordance to ASTM C236 using seals and automatic door bottom.

L

Hardware Preparation: doors and frames are prepared according to template hardware, ANSI A250.6, and ANSI A115 series specifications. Space, cutouts, reinforcement, and provisions for fastening concealed overhead door closers can be provided.

M

Frame Construction: frames can be fabricated with mitered and continuously welded corners and seamless face joints. Knockdown (KD) drywall slip-on frames can be fabricated for in-place gypsum board partitions. Welded frames are provided with temporary spreading bars.

N

Reinforcing for surface applied hardware can be provided on doors and frames.

O

Hardware can be located as indicated on shop drawings or ANSI/BHMA A156.A115 and ANSI-SDI A250.8 standards. If not indicated, hardware will be located according to the following RITE Door standards:

Locks

38" Above finish floor

Inset Eat Device/Morise Panic Devices

38" Above finish floor

PUSH/PULLS:

38" Above finish floor

P

Glazing Stops: Non-removable 18 gauge (0.043") stops will be provided on outside of exterior doors and secure side of interior doors for glass, louvers, and other panels in doors. Screw applied removable stops will be provided on the inside of glass, louvers, and other panels in doors.

Q

Astragals can be provided as required by NFPA 80 to comply with the indicated fire ratings.

SECTION 2.6 FINISHES

A

RITE Door standard factory-applied rust-inhibiting primer has been tested in accordance with ANSI A250.10.



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PERFORMANCE STANDARD

ARCHITECTURAL TECH DATA 1

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.

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-108-10 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" standard steel doors in such building types as apartment, dormitory, hotel/motel, hospital/nursing home, industrial, office and school.

SDI-110-09 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-111-09 (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-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 Guidelines for the Use of Gasketing and Thresholds 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 Frame

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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PERFORMANCE STANDARD

ARCHITECTURAL TECH DATA 1

SDI-112-08 Zinc-Coated (Galvanized/Galvannealed) 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-113-13 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-117-09 Manufacturing Tolerances for 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-118-12 Basic Fire Door, Fire Door Frame, and Window Frame 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-122-07 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-124-11 Maintenance of Standard Steel 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 L)

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**

**127-K Improper Wedges as
Hold-Opens**

**127-L Buyer Beware: Steel Doors
with Lead-Based Primer**



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PERFORMANCE STANDARD

ARCHITECTURAL TECH DATA 2

ANSI STANDARDS

The SDI has published 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.

All of these documents are contained in the SDI Fact File, and are for the first time available to download for free.

A250.3-2007 (R2011) Test Procedure and Acceptance Criteria for Factory Applied Finish Coatings 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.

A250.4-2011 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 (R2009) Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames

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.

A250.8-2003 (R2008) 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 (R2011) 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.

A250.11-2012 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.



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PERFORMANCE STANDARD

ARCHITECTURAL TECH DATA 3

RECOMMENDED PAINTING INSTRUCTION

FIELD PAINTING

Steel doors and frames are provided with a primer paint finish that is intended as a preparatory base for field application of a top (finish) coat of paint. The primer paint coat is not designed to be the final layer of protection from environmental elements. It is designed to provide protection to the steel surface during normal storage, shipping, and installation at the jobsite and to provide a uniform base for finish painting. Finish painting is necessary. It is recommended that the finish paint be applied to the door after installation is completed. It is the responsibility of the end user to maintain the integrity of the finish after installation.

Low gloss oil based paints are recommended as finish paint. WE DO NOT RECOMMEND THE USE OF WATER BASED FINISH COATS SUCH AS LATEX, ACRYLIC, POLY-VINYL ACETATE EMULSION FINISHES. However, if any of these materials are used as a finish coat, you should first repaint the door or frame with a primer with rust inhibitors recommended by your paint manufacturer for bare steel. If the door is not re-primed, all scratches and nicks that expose bare steel will develop rust.

USGBC LEED requirements

Under United States Green Building Council LEED credit EQ 4.2, any paints and coatings are limited on the VOC content that can be applied at the jobsite. This may require the painter to use a latex paint for doors and frames. If this is required then it is the responsibility of the painting contractor to re-prime the doors and frames per RITE Door recommendation (see above).

RECOMMENDED PAINTING INSTRUCTIONS

First repair any dents or scratches which occurred during installation.

Sand the primer finish lightly with a very fine sand paper; be sure the surface is clean and dry.

Paint with a low gloss oil base trim paint. If the primer has been scratched or damaged so that rusting has occurred, sand lightly with steel wool or fine sandpaper to remove all traces of rust (any rust not removed will eventually become active and bleed through any subsequent top coats.)

After all rust has been removed and you are sure the surface is clean, dry, and free of any foreign material, apply a rust inhibitive primer over the entire repair area and then paint the door with a low gloss oil base trim paint.

DENT REPAIR

Sand to bare metal (including area around dent) with #80 sand paper.

Apply two component plastic body filler, mixed as directed on the container, to the depressed area.

After filler has cured thoroughly, sand with #100 grit sand paper to a smooth flat surface.

Finish sand with 240 or 300 grit sand paper as needed. Be sure surface is clean and dry, and free of any foreign material.

Apply a rust inhibitive primer over entire repair area and let dry for 24 hours before finish painting.

SCRATCHES

Feather scratch to the bare metal with #300 sand paper. Be sure surface is clean, dry, and free of any foreign material.

Apply a rust inhibitive primer over entire repair area and let dry for 24 hours before finish painting.

SPECIAL PAINTING NOTE FOR 347 DOORS

The production of steel doors and frames relies on a variety of manufacturing processes including spot welding, projection welding, arc welding ground smooth, grinding, filling, etc. These processes may result in a show-through after application of finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.

The show-through characteristics increase as the paint gloss increases. ANSI A250.8 (SDI 100) recommends a maximum paint gloss rating of 20% reflectance, measured using a 60° gloss meter, which should be suitable for most applications. Translucent paints may emphasize show-through characteristics and their use is not recommended.



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PERFORMANCE STANDARD

ARCHITECTURAL TECH DATA 4

RECOMMENDED PROCEDURE FOR RECEIVING AND STORAGE OF STEEL DOORS AND FRAMES

DELIVERY AND RECEIVING OF MATERIAL

Upon delivery, all material shall be thoroughly inspected for damage. Should damaged material be found, the General Contractor has the option of refusing delivery or to accept the material as damaged. Any damaged items should be noted on the freight bill. Claims will not be honored by the freight carrier, unless the damaged items are noted on the freight bill at the time of delivery. The General Contractor must telephone or write the local office of the freight carrier and request an inspection of the damage. The contractor shall contact the hollow metal distributor immediately of any item signed for as damage. This procedure will help to expedite the repair or replacement of the damaged items and the processing of the damage claim with the freight carrier.

Should the General Contractor discover any damage or error in the hollow metal delivered to the job site, it is imperative that the hollow metal distributor be notified before initiating any corrective measure in the field, so that the hollow metal distributor and manufacturer can participate in solving the problem. Failure to do so could result in the cancellation of the warranty and/or fire label. If claim is to be made for any error or deficiency in the hollow metal work itself, it is imperative that the hollow metal distributor be notified before initiating any corrective work in the field.

THE CONTRACTOR RESPONSIBLE FOR INSTALLATION SHALL SEE THAT ANY SCRATCHES OR DISFIGUREMENT CAUSED IN SHIPPING OR HANDLING ARE PROMPTLY CLEANED AND TOUCHED UP WITH A RUST INHIBITIVE PRIMER.

ON SITE STORAGE

Proper storage of hollow metal work at the construction site will help to prevent damage to the primer coat of paint. Prime coated steel must be protected when exposed to the elements, including high humidity, salt, air, and/or damp wrappings.

Particular attention must, therefore, be given to steel products having a shop coat of prime paint. Because the protective shop coat must be porous to properly receive and hold top coats, water or moisture in contact with primer coated steel will seep through to the steel by capillary action. An electrolytic action then follows, resulting in corrosion and causing the paint film to lose adhesion.

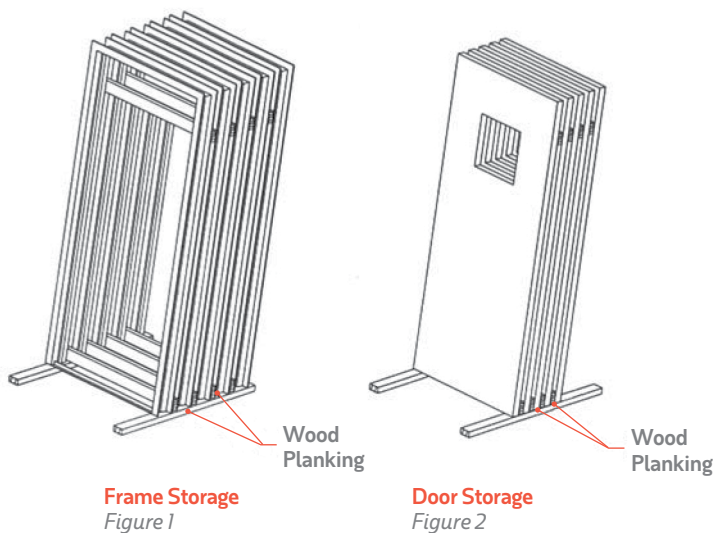
The presence of oxygen at the water-air interface behind the loosened paint film accelerates corrosive action and the prime coat further deteriorates.

EVEN WHEN HOT-DIP GALVANIZING IS USED TO PROVIDE A CORROSION RESISTANT BASE COAT ON STEEL, MANUFACTURERS OF HOLLOW METAL DOORS HAVE FOUND THAT ONE WEEK OF PRODUCT EXPOSURE TO WATER, BECAUSE OF IMPROPER STORAGE, CAN BE EQUIVALENT TO AT LEAST A YEAR OF OUTDOOR EXPOSURE TO THE ELEMENTS.

Paint manufacturers advise that the primer typically used by hollow metal manufacturers should receive a finish coat of paint within 30 days of delivery. It is the responsibility of the General Contractor to sand, touch up and clean prime painted surfaces prior to finish painting in accordance with the finish paint manufacturer's instructions.

PERFORMANCE STANDARD

ARCHITECTURAL TECH DATA 4



THE FOLLOWING PROCEDURES SHOULD ALWAYS BE OBSERVED IN STORING HOLLOW METAL DOORS AND FRAMES AT THE JOB SITE

- **Store all materials in a dry area, under cover.** All ferrous metal products should be stored where they will not be exposed to, or come in contact with water. This is particularly true of products such as doors, which have large flat surfaces on which water may collect if they are stacked horizontally.
- **Do not use non-vented plastic or canvas.** These materials create a humidity chamber, which promotes blistering and corrosion.
- **Store doors and welded frames in an upright position with heads uppermost.** Figures 1 and 2.
- **Place no more than 5 doors or welded frames in a group.** Small groups not only minimize the likelihood of damage due to excess handling, but also facilitate selection from the group for installation. In the case of multi-opening frames, no more than three units should be stored in a group, to avoid serious damage to the bottom most frame.
- **Place all material on planking or blocking at least 4" (100 mm) off the ground, 2" (50 mm) off a paved area or the floor slab.**
- **Provide a least 1/4" (6.4 mm) space (wood trip) between all units to permit air circulation.**

LEED CERTIFICATION

CONTRIBUTION

“The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design construction, and operation of high performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in seven key areas of human and environmental health: sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovation in design and regional priority credits.”

RITE Door doors and frames are made in Mason City, IA from steel, one of the most recycled materials in North America. Each door is then put through rigorous life cycle testing that allows our door solutions to qualify for tornado and hurricane certification standards for strength and durability. The sustainable thinking that goes into each door allows it a long service life with cradle-to-cradle considerations taken into account.

RITE Door can help to achieve prerequisites and accumulate points in the following categories and credit areas of LEED.



- RITE Door uses environmentally sound practices in the manufacturing and shipping of hollow metal doors and frames. Let us help as you design “Sustainable” buildings that are safe, secure and aesthetically-pleasing.
- ASSA ABLOY is a member of the U.S. Green Building Council.
- U.S. Green Building Council logo is a trademark owned by the U.S. Green Building Council and is used with permission.



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LEED CERTIFICATION

ENERGY & ATMOSPHERE (EA)

EA PREREQUISITE 2

Minimum Energy Performance

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

RITE Door offers superior thermal efficient openings that can help save 10% or more in improved energy efficiency. RITE Door doors and frames are tested in operable conditions using ASTM E1363 & E283.

CS HC NC R S

EA CREDIT 1

Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

RITE Door offers superior thermal efficient openings that can help save 10% or more in improved energy efficiency. RITE Door doors and frames are tested in operable conditions using ASTM E1363 & E283.

CS HC NC R S



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- CI Commercial Interiors
- CS Core & Shell
- EB Existing Building Operations & Maintenance
- HC Healthcare
- NC New Construction
- R Retail
- S Schools

LEED CERTIFICATION

MATERIALS & RESOURCES (MR)

MR CREDIT 1.2

Building Reuse - Maintain Existing Interior Non-Structural Elements

Extend the lifecycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.

Longevity and durability of RITE Door doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit.

NC S CL R HC

MR CREDIT 4

Recycled Content

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials. Use materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

Post-consumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

Post-industrial (Pre-Consumer) recycled content refers to scraps that are left over during industrial or manufacturing processes and which are subsequently recycled and reused.

NC CS S CL R HC

RITE DOOR PRODUCT	POST-CONSUMER RECYCLED CONTENT	PRE-CONSUMER RECYCLED CONTENT	TOTAL LEED RECYCLED CONTENT PERCENTAGE
Frames - Steel	35.4*	7.4*	39.1
374	34.4*	7.4*	39.1
370, 372	34.3*	7.2*	37.9

* Recycled content based on RITE Door average steel usage

- NC** New Construction
- CS** Core & Shell
- S** Schools
- CI** Commercial Interiors
- EB** Existing Building Operations & Maintenance
- R** Retail
- HC** Healthcare



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LEED CERTIFICATION

MATERIALS & RESOURCES (MR)

MR CREDIT 5 Regional Material

Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value.

NC CS S CL R HC

PROGRAM	CHECKLIST	CREDIT	REQUIREMENT
LEED CI	Materials & Resources	Regional Materials MR 5	Use a minimum of 20% of the combined value of construction and Division 12 (furniture) materials and products that are manufactured* regionally within a radius of 500 miles.
LEED NC LEED CS LEED S	Materials & Resources	Regional Materials MR 5 10% or 20%	Use building materials or products extracted,** harvested,** recovered,** processed,** and manufactured* within 500 miles of the project site.

* Manufactured refers to the final assembly of components in Mason City, IA

** Steel is extracted and processed at numerous locations that exceed 500 miles from Mason City and are difficult to track.

MR CREDIT 53 (Pilot Credit) Responsible Sourcing of Raw Materials

To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

Option 2. leadership extraction practices (1 point). Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project. Extended producer responsibility.

Products purchased from a manufacturer (producer) that participates in an extended producer responsibility program or is directly responsible for extended producer responsibility.

Products meeting extended producer responsibility criteria are valued at 50% of their cost for the purposes of credit achievement calculation. RITE Door participates in an extended producer responsibility recycling program through the Steel Recycling Institute. Learn more at: www.assaabloydss.com/sustainability.

NC CS S CL EB R HC

- NC** New Construction
- CS** Core & Shell
- S** Schools
- CI** Commercial Interiors
- EB** Existing Building Operations & Maintenance
- R** Retail
- HC** Healthcare



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LEED CERTIFICATION

MATERIALS & RESOURCES (MR)

MR CREDIT 61 *(Pilot Credit)* Material Disclosure and Assessment Environmental Product Declaration (EPDs)

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified environmental life-cycle.

Products from RITE Door have Product-specific Type III EPDs certified in accordance with ISO 14025 and EN 15804.

NC CS S CL EB R HC

MR CREDIT 76 *(Pilot Credit)* Material Ingredients Reporting

Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm). Health Product Declaration. The end use product has a published, complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard.

Products from RITE Door have published, complete HPDs with full disclosure of known hazards.

NC CS S CL EB R HC

MR CREDIT 77 *(Pilot Credit)* Material Ingredient Optimization

To reward project teams for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

RITE Door steel doors and frames are third party certified and document fully inventoried ingredients via Health Product Declaration (free of Benchmark 1 Greenscreen chemicals).

Use products that document their material ingredient optimization using the paths below for at least 25%, by cost, of the total value of permanently installed products in the project. GreenScreen v1.2 Benchmark. Products that have fully inventoried chemical ingredients to 100 ppm that have no Benchmark 1 hazards: If any ingredients are assessed with the GreenScreen List Translator, value these products at 100% of cost. If all ingredients are have undergone a full GreenScreen Assessment, value these products at 150% of cost. Products from RITE Door have published, complete HPDs that have undergone a full GreenScreen Assessment.

NC CS S CL EB R HC

- NC** New Construction
- CS** Core & Shell
- S** Schools
- CI** Commercial Interiors
- EB** Existing Building Operations & Maintenance
- R** Retail
- HC** Healthcare



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LEED CERTIFICATION

INDOOR ENVIRONMENTAL QUALITY (IEQ)

IEQ CREDIT 3.2

Construction Indoor Air Quality Management Plan Before Occupancy

To reduce indoor air quality (IAQ) problems resulting from construction or renovation to promote the comfort and well-being of construction workers and building occupants.

Project teams specify interior doors meeting GREENGUARD Gold testing will assist with IEQ 3.2 compliance.

NC CS S CL R HC



IEQ CREDIT 4.1 & 4.2

Low-Emitting Materials Adhesives and Sealants, Paints and Coatings

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

This credit only applies to materials applied within the weatherproofing system however, RITE Door offers solutions including pre-finished door openings and pre-installed glazing. This allows LEED projects to avoid applying materials onsite.

NC CS S CL R HC

IEQ CREDIT 4.6

Low-Emitting Materials Ceiling & Wall Systems

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

All gypsum board, insulation, acoustical ceiling systems and wall coverings (including doors) installed in the building interior must meet the testing CA 01350. Requires GREENGUARD indoor Air Quality certification. Requires GREENGUARD Indoor Air Quality certification or equivalent. Products from RITE Door are certified to GREENGUARD Gold.

S R HC



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LEED CERTIFICATION

INDOOR ENVIRONMENTAL QUALITY (IEQ)

IEQ CREDIT 8.1 & 8.2

Daylight & Views

To provide building occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the building.

Adding glazing and sidelights to RITE Door openings will assist projects in achieving this LEED credit.

NC CS S CL R HC



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LEED CERTIFICATION

EXISTING BUILDING OPERATIONS & MAINTENANCE

MR CREDIT 3

Sustainable Purchasing—Facility Alterations and Additions

Reduce the environmental and air quality impacts of the materials acquired for use in the upgrade of buildings. Maintain a sustainable purchasing program covering materials for facility renovations, demolitions, refits and new construction additions.

RITE Door products can help sustainable purchasing programs meet many of the requirements to obtain this credit.

EB

MR CREDIT 9

Solid Waste Management—Facility Alterations and Additions

To divert construction and demolition debris from disposal to landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites.

Many of RITE Door products can be recycled (in the case of our metal products, potentially infinitely) and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

EB

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HOW TO ORDER

METAL DOORS

ITEM	ITEM DESCRIPTION	This is for basic reference for product information and ordering, for detail description of product, see the product cut sheets.
0	HARDWARE SET	Details out the hardware needed for the door (Locks, Hinges, Closers, Mag Locks, Seal Kit, etc - See Hardware Set Info on following page.
1	WOOD OR METAL	SPECIFY THE DOOR MATERIAL TYPE YOU WANT QUOTED OR ORDERED
	M	Metal Door type
2	ID MARK	Enter in the mark id, door or opening # in this field.
3	QUANTITY	Enter in the qty of doors you want to order on this line item.
4	SERIES	DOOR SERIES AND MODELS
	370	Metal Door Series to be used for Polystyrene or Honeycomb Core
	374	Metal Door Series to be used for Steel Stiffened Core
	372	Metal Door Series to be used for Temp-Rise Core
5	CONSTRUCTION	CORE CONSTRUCTION OF THE DOOR
	P	Polystyrene Core
	H	Honeycomb core
	T2	Temperature Rise Core 250°
	T4	Temperature Rise Core 450°
	S	Steel Stiffened Core
6	ADDITIONAL INFORMATION	
	L	Lead Lined Core - 1/16" thick Lead
7	EDGE CONSTRUCTION	HINGE AND LOCK STILE CONSTRUCTION OF THE DOOR
	N	Door Edge Seam Spot welded and Filled
	S	Visible Edge Seam - to be used with CURRIEStain Door Product
8	LABEL	USED WHEN A CUSTOMER REQUESTS A FIRE RATED DOOR (ITS/WARNOCK HERSEY FIRE LABELING AUTHORITY)



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HOW TO ORDER

METAL DOORS

ITEM	ITEM DESCRIPTION	This is for basic reference for product information and ordering, for detail description of product, see the product cut sheets.	
		Non Rated	
	PP	Positive Pressure Category (20, 45, 60 & 90 Min Rated Doors)	
9	RATING	NEED TO SPECIFY WHEN CUSTOMER IS CALLING OUT FOR A FIRE RATED DOOR.	
		Non Rated	
	20	20 Minute Rating	
	45	45 Minute Rating	
	60	60 Minute Rating	
	90	90 Minute Rating	
	180	3 Hour Rating	
10	STEEL TYPE	STEEL TYPE AS REQUESTED BY THE CUSTOMER	
	CR	Cold Rolled Steel	
	RK	Galvanized (A60 Standard)	
	SS	Stainless (304 #4 Satin finish)	
	A1	CURRIStain (Specify Color) - Deep Oak Wood Grain Embossment	
	HP	High Pressure Laminate	
11	STEEL GAUGE	SPECIFY THE GAUGE OF STEEL THAT YOU WOULD LIKE	
	18	18 Gauge Steel	
	16	16 Gauge Steel	
	14	14 Gauge Steel - (Not available with CURRIStain)	
12	FACE TYPE	LITE CUTOUT ON THE DOOR	
	F	Flush	<p>Non Rated Doors - Lites must maintain a min 6" of wood material between any cutouts to maintain warranty on the door.</p> <p>20 & 45 Min Rated Doors - Can have up to 1296 sq inches of visible glass dimensions, but must maintain a min 5" of material between any cutout on the door to maintain fire label.</p> <p>60 & 90 Min Rated Doors - Can have up to 100 sq inches of visible glass dimensions, but must maintain a min 5" of material between any cutout on the door to maintain fire label.</p>
	FV	Square Lite	
	FNV	Narrow Vision Lite	
	HG	Half Glass	
	FG2	Full Glass Lite with Intermediate Rail (2 Half Glass Cutouts)	
13	LITE SIZE & LOCATION ELEVATION	Use the Lite Size & Location Elevation sheet to give the size and location of the lite on the door.	



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HOW TO ORDER

METAL DOORS

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14	MOULDING / LITE KIT	TRIM PLACED IN THE LITE CUTOUT TO HOLD THE GLASS IN THE OPENING	
	1	Metal Vision Lite Kit - Square. 3/8" Pocket standard	Please specify pocket size for lite kit if other than standard
	2	Metal Vision Lite Kit - Square. 5/8" Pocket standard	
	3	Metal Vision Lite Kit - Concealed Square. 3/8", 1/2", & 5/8" Pocket. (Specify)	
	9	Metal Vision Lite Kit - Beveled. 3/8" Pocket standard	
	10	Metal Vision Lite Kit - Beveled. 9/16" Pocket standard	
	CO	Cut Out Only - Lite Kit Provided by Customer for Field Installation	
15	GLASS TYPE	FACTORY INSTALLED GLASS - AVAILABLE UPON REQUEST FROM THE CUSTOMER	
	FIG01	Clear Tempered - Standard for non rated doors - 1/4" thick	All glass comes with glazing tape as required. Rectangular/square glass only. Contact Factory for availability of glazing not listed. Fire rating limitations on glazing may limit availability on some doors. Detail for each glass type available upon request.
	FIG02	Filmed Wire - Standard for rated doors - 1/4" thick	
	FIG03	Ceramic Filmed Pyran Platinum F - optional - 3/16" thick	
	FIG04	Ceramic Filmed Pyran Platinum L - optional - 3/8" thick	
	FIG05	Firelite NT - optional - 3/16" thick	
	FIG06	Firelite Plus - optional - 5/16" thick	
	GBO	Glass By Others - Customer Supplied Glass to be field Installed. Need to Specify Glass Thickness if other than 1/4".	
16	GLASS THICKNESS	SPECIFY THE GLASS THICKNESS YOU WOULD LIKE TO USE WITH YOU MOULDING / LITE KIT	
	3/16"	3/16" Thick Glass	
	1/4"	1/4" Thick Glass (Standard)	
	5/16"	5/16" Thick Glass	
	3/8"	3/8" Thick Glass	
	*	Other - Specify the glass thickness needed other than what is listed above. - Lite Kit and Glass type must comply with the Fire Label Testing Authority on the door. Contact factory to see if the glass type and lite kit are an approved application	
	WIDTH	NOMINAL DOOR WIDTH BEFORE PREFIT	
17	FEET	FRAC 19	Nominal Feet
18	INCHES		Nominal Inches along with Fractional Sizes
	HEIGHT	NOMINAL DOOR WIDTH BEFORE PREFIT	
20	FEET	FRAC 22	Nominal Feet
21	INCHES		Nominal Inches along with Fractional Sizes



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HOW TO ORDER

METAL DOORS

ITEM	ITEM DESCRIPTION	This is for basic reference for product information and ordering, for detail description of product, see the product cut sheets.	
23	THICKNESS	DOOR THICKNESS	
	4	1 3/4" - Only Available Thickness	
24	HAND	SWING OF THE DOOR	
	R	Right Hand Swing	
	L	Left Hand Swing	
	RR	Right Hand Reverse Swing	
	LR	Left Hand Reverse Swing	
25	BEVEL	CUT ON THE LOCK AND HINGE STILE OF THE DOOR TO ALLOW FOR PROPER CLOSING OF THE DOOR	
	3L	3° Bevel on the lock stile only, hinge stile is square - Use when you have Continuous Hinges on the hinge stile of the door	
	0	No bevel on either side of the lock or hinge stile - Door will still be prefit - Use per customer's request only	
	3/3	3° Bevel on both lock and hinge stile - Use when you have Butt Hinges on the hinge stile of the door	
26	FRAME MFG	IDENTIFIES THE FRAME MANUFACTURER	STD UNDERCUT
	CU	Curries - Will receive Curries standard hardware locations unless otherwise specified	5/8"
	C	Ceco - Will receive Ceco standard hardware locations unless otherwise specified	3/4"
	A	Amweld - Will receive Amweld standard hardware locations unless otherwise specified	3/4"
	M	Mesker - Will receive Mesker standard hardware locations unless otherwise specified	3/4"
	S	Steelcraft - Will receive Steelcraft standard hardware locations unless otherwise specified	3/4"
	P	Pioneer - Will receive Pioneer standard hardware locations unless otherwise specified	5/8"
	SP	Special Locations - Use this code when you have special hardware location - you will need to give locations for the door when placing the order	5/8"
27	SET	USED WHEN PAIRING DOORS - PAIRS NEED TO BE BROKE UP ON INDIVIDUAL LINE ITEMS. CAN NOT HAVE PAIRS ON THE SAME LINE.	
		Single Door	
	PR	Standard Pair (Same Swing Pair - Opposite Handing)	
	DE	Double Egress Pair (Opposite Swing Pair - Same Handing)	
	UEP	Unequal Pair (Standard Pairs where the leaves are not the same size)	
	UDE	Unequal Double Egress (Double Egress Pairs where the leaves are not the same size)	



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HOW TO ORDER

METAL DOORS

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28	GROUP	INDICATES WHEN THE PAIR BEGINS AND WHEN THE PAIR ENDS - MUST BE USED WITH LINES GROUPED TOGETHER	
	<	Starting of the Pair	
	>	Ending of the Pair	
	<>	Both Active and InActive Leaf of the Pair are identical in Size, Handing, Machining & Hardware Application	
29	SPECIAL HDWE LOC ELEVATION	This Elevation is to be used when specifying special hardware location other than RITE Door standards.	
30	FACE FINISH (METAL)	FACE FINISHES FOR METAL DOORS	
	PR6	Prime 6 Sides (Primed Door Only)	Standard Factory Grey Primer
	45E-4W	Prefinished Color - Flambeau Brown	Prefinished / Painted Colors. 10 standard colors available. For custom color match, send sample for color match and approval.
	38E-1W	Prefinished Color - Ivory	
	6E-1W	Prefinished Color - Champagne	
	10E-2W	Prefinished Color - Salmon	
	32D-4M	Prefinished Color - Aqua	
	24E-3W	Prefinished Color - Granite	
	5E-3W	Prefinished Color - Sand	
	6E-3W	Prefinished Color - Coral	
	40E-3W	Prefinished Color - Almond	
	40E-2W	Prefinished Color - Bone	
	CST	Prefinished Color - Custom color	
	CS-NAT	CURRIStain - Natural	Factory Finished with one of Six Standard Colors. No Color Match Available. Available in Poly Styrene Core Only
	CS-WHT	CURRIStain - Wheat	
	CS-CSH	CURRIStain - Cashew	
	CS-COC	CURRIStain - Cocoa	
	CS-CAB	CURRIStain - Cabernet	
	CS-JAV	CURRIStain - Java	
	HPL-*	High Pressure Laminate - Color	Specify HPL Manufacturer and HPL Color when ordering



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HOW TO ORDER

RITE DOOR – METAL DOORS

ITEM	ITEM DESCRIPTION	This is for basic reference for product information and ordering, for detail description of product, see the product cut sheets.
31	UNDERCUT	THE AMOUNT OF MATERIAL REQUESTED TO BE SUBTRACTED FROM THE BOTTOM OF THE NOMINAL DOOR HEIGHT.
	5/8"	Standard Undercut - This will be the given undercut unless otherwise indicated by a frame mfg code or specified by the customer
	*	All other undercuts available with the minimum undercut being 1/8" and the maximum undercut being 15/16"
32	ADDITIONAL DOOR MARK ID #'S	If the line item will have more than 1 mark id #. The additional mark id numbers can be placed in this area.
33	SPECIAL INSTRUCTIONS	This is for any special instructions that are needed for the door. Not all special instruction request can be accommodated, please contact factory to verify if request is available with RITE Door. You can also use this section to specify request for hardware that is not supplied, but will be a prep only



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HOW TO ORDER

RITE DOOR – METAL DOORS

LINE ITEM	
0	HARDWARE SET
1	WOOD (W) OR METAL (M)
2	ID MARK
3	QUANTITY
4	SERIES
5	CONSTRUCTION
6	ADDITIONAL INFO
7	EDGE CONSTRUCTION
8	LABEL
9	RATING
10	VENEER SPECIES / STEEL TYPE
11	VENEER PLY / STEEL GAGE
12	FACE TYPE
13	LITE SIZE / LOC ELEVATION
14	MOULDING / LITE KIT
15	GLASS TYPE
16	GLASS THICKNESS
17	FEET
18	INCHES
19	FRAME 19
20	FEET
21	INCHES
22	FRAME 22
23	THICKNESS
24	HAND
25	BEVEL
26	FRAME MFG
27	SET
28	GROUP
29	SPL HDW LOC ELEVATION
30	PREFINISH (WOOD) / FACE FINISH (METAL)
31	UNDERCUT
32	ADDITIONAL MARKS / ID#S
33	SPECIAL INSTRUCTIONS



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