



SECTION 08 13 00

METAL DOORS

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**** NOTE TO SPECIFIER **** ODL Inc.; Entry doors, doorglass, integral blinds and custom window glass.

This section is based on the products of ODL Inc., which is located at:

215 East Roosevelt Ave.
Zeeland, MI 49464
Toll Free: 800-253-3900
Phone: 616-772-9111
Email: doorglass_info@odl.com
Web: www.odl.com

[\[Click Here\]](#) for additional information.

ODL, Inc. produces a wide selection of high quality, durable, innovative doors, doorglass, integral blinds and custom window glass. Our decades of innovation and customer service, industry standards-exceeding certifications and warranties will make your life better. Whether you need entry doors, doorglass, integrated blinds for daylight and privacy control or custom glass we can deliver the commercial solution that is right for your project.

PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER **** Delete items below not required for project.

- A. Steel Mark and Steel Mark Plus Entry Doors.
- B. Steel Pro Entry Doors.
- C. Accessories.

1.2 RELATED SECTIONS

**** NOTE TO SPECIFIER **** Delete any sections below not relevant to this project; add others as required.

- A. 06 48 13 - Exterior Wood Door Frames.
- B. 07 92 00 - Joint Sealants.
- C. 08 12 00 - Metal Frames.
- D. 08 16 13 - Fiberglass Doors.

- E. 08 71 00 - Door Hardware.
- F. 08 81 00 - Glass Glazing.
- G. 08 88 00 - Special Function Glazing.
- H. 09 91 13 - Exterior Painting.
- I. 09 93 13 - Exterior Staining and Finishing.

1.3 REFERENCES

**** NOTE TO SPECIFIER **** Delete references from the list below that are not actually required by the text of the edited section.

- A. ASTM International (ASTM):
 - 1. ASTM A653/A653M-22 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. National Fire Protection Association (NFPA):
 - 1. NFPA 80-2022 - Standard for Fire Doors and Other Opening Protectives.
 - 2. NFPA 252-2022 - Standard Methods of Fire Tests of Door Assemblies.
- C. Sustainable Forestry Initiative (SFI):
 - 1. SFI 2022 Chain of Custody Standard.
- D. Underwriters Laboratories (UL):
 - 1. UL 10B-2008 - Fire Tests of Door Assemblies.
 - 2. UL 10C-2016 - Positive Pressure Fire Tests of Door Assemblies.

1.4 DEFINITIONS

- A. Dentil Shelf: Decorative shelf with tooth-like blocks or tiers, field-applied to a door face.
- B. Embossment: Molded surface profile pressed into a steel door skin to create panel, plank, and edge detail.
- C. Positive Pressure Fire Test: Fire test of a door assembly conducted with the furnace neutral pressure plane located near the bottom of the door, per UL 10C and NFPA 252, exposing the majority of the door height to positive furnace pressure.
- D. Proud Edge: Door edge design in which the door face projects slightly beyond the stile to form a shoulder along the vertical edges of the door.
- E. Solar Heat Gain Coefficient (SHGC): The fraction of incident solar radiation admitted through a fenestration product.
- F. Steel Edge: Vertical door edge construction in which a steel edge plate is applied over the wood stile at the lock and hinge edges.
- G. Wood Edge: Vertical door edge construction in which the lock and hinge edges are formed by a wood stile.

1.5 SUBMITTALS

- A. Comply with provisions of Section 01 33 00 - Submittal Procedures.
- B. Product Data:

1. Manufacturer's data sheets on each product to be used.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Typical installation methods.

**** NOTE TO SPECIFIER ** Delete if not applicable to product type.**

- C. Verification Samples: Two representative units of each type, size, pattern, and color.
- D. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
- E. Manufacturer's Installation Instructions: Manufacturer's written installation instructions for each door type.

**** NOTE TO SPECIFIER ** Delete certificates and reports not required for project.**

- F. Certificates:
 1. Fire-Rated Door Assemblies: Manufacturer certification of compliance with NFPA 252, UL 10B, and UL 10C, and evidence of listing and labeling by a qualified testing agency.
 2. Wood Components: Chain-of-custody certification of compliance with SFI 2022 Chain of Custody Standard.
- G. Evaluation Reports: Listing and labeling of fire-rated door assemblies by a qualified testing agency.
- H. Warranty: Manufacturer's standard warranty document for each product.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five (5) years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two (2) years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Furnish each type of product from a single manufacturing source to ensure uniformity.

**** NOTE TO SPECIFIER ** Delete if fire-rated doors are not required.**

- D. Regulatory Requirements: Comply with NFPA 80 and the applicable building code for fire-rated door assemblies; furnish assemblies listed and labeled by a qualified testing agency.

1.7 PRE-INSTALLATION CONFERENCE

- A. Convene a conference approximately two (2) weeks before scheduled commencement of the Work. Attendees include Architect, Contractor and trades involved. Agenda to include schedule, responsibilities, critical path items, and approvals.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original, unopened, undamaged packaging with identification labels intact.
- B. Store and handle in strict compliance with manufacturer's written instructions and recommendations.

- C. Store doors flat or upright, off the ground, in a climate-controlled environment, and protected from moisture, weather, excessive temperature, and construction operations, before installation and finishing.
- D. Handle doors to prevent damage to edges, corners, and finished surfaces.

1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions including temperature, humidity, and ventilation within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside of manufacturer's recommended limits.

1.10 WARRANTY

- A. Manufacturer's standard limited warranty listed below unless indicated otherwise.
 - 1. Steel Pro Doors:
 - a. Residential Single Family: Five (5) years.
 - b. Residential Multi-Family: Three (3) years.
 - 2. Steel Mark and Steel Mark Plus Doors:
 - a. Residential Single Family: Twenty (20) years.
 - b. Residential Multi-Family: Three (3) years.
- B. Warranty Conditions: Coverage of Steel Mark and Steel Pro doors requires field finishing of the door faces and edges within four weeks of installation.

**** NOTE TO SPECIFIER ** Delete glazing warranty if not required. If provided, keep applicable sections or delete section not required.**

- C. Glazing Warranty: For insulating glass and doorglass warranties, see Sections 08 81 00 - Glass Glazing and 08 88 00 - Special Function Glazing.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: ODL Inc. which is located at: 215 East Roosevelt Ave.; Zeeland, MI 49464; Toll Free Tel: 800-253-3900; Tel: 616-772-9111; Email: doorglass_info@odl.com; Web: www.odl.com.

**** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered per the provisions of Section 01 25 00 - Substitution Procedures.

**** NOTE TO SPECIFIER ** Delete article if not required.**

2.2 STEEL MARK AND STEEL MARK PLUS ENTRY DOORS

**** NOTE TO SPECIFIER ** Delete basis of design door option below not required.**

- A. Basis of Design: Steel Mark doors, manufactured by ODL Inc.
- B. Basis of Design: Steel Mark Plus doors, manufactured by ODL Inc.
- C. Performance Requirements:

**** NOTE TO SPECIFIER ** Delete fire-rated option if not required.**

- 1. Fire-Rated Option:

- a. Fire Protection Rating: 20 minutes, Category B positive pressure, tested per NFPA 252, UL 10B, and UL 10C.
 - b. Hose Stream Testing: Wood edge tested with hose stream; steel edge tested without hose stream.
 - c. Gasketing: Category G gasket in positive pressure applications; Category H gasket for smoke- and draft-control rating.
 - d. Maximum Door Size: 3 feet 0 inches x 6 feet 8 inches (914 x 2032 mm), single unit.
 - e. Label: 20-minute metal fire label applied by manufacturer; custom label available for authorized customers.
2. Thermal Performance:
- a. Solar Heat Gain Coefficient (SHGC):

**** NOTE TO SPECIFIER ** Select applicable door types and delete options not required.**

- 1) Embossed Doors, 24 Gauge: 0.01.
 - 2) Embossed Doors, 25 Gauge: 0.01.
 - 3) Flush Doors, 24 Gauge: 0.01.
 - 4) Flush Doors, 25 Gauge: 0.01.
- b. U-Factor:

**** NOTE TO SPECIFIER ** Select applicable door types and delete options not required.**

- 1) Embossed Doors, 24 Gauge: 0.13.
- 2) Embossed Doors, 25 Gauge: 0.12.
- 3) Flush Doors, 24 Gauge: 0.12.
- 4) Flush Doors, 25 Gauge: 0.12.

D. Physical Properties:

- 1. Door Thickness: 1-3/4 inches (44 mm).
- 2. Door Size: As indicated on Drawings.

E. Materials:

- 1. Steel Face Sheet: Hot-dip galvanized steel, 24 gauge, G40 coating designation; ASTM A653/A653M.
- 2. Foam Core:
 - a. Material: Foamed-in-place polyurethane.
 - b. Density: Minimum 2.2 lbs per cu ft (35 kg per cu m).
- 3. Perimeter:

**** NOTE TO SPECIFIER ** Select applicable perimeter type and delete option not required.**

- a. Wood Perimeter:
 - 1) Material: Spruce, pine, fir, or equivalent.
 - 2) Source: Third party chain of custody certified.
- b. Wood Perimeter with Steel Edge Stiles:
 - 1) Material: Spruce, pine, fir, or equivalent.
 - 2) Source: Third party chain of custody certified.
 - 3) Edge Stiles: Hot-dip galvanized steel, 22 gauge steel edge plates, G40 coating designation; ASTM A653/A653M.
- 4. Wood Lock Block:
 - a. Pine, 4 x 12 inches (100 x 305 mm) at 6 feet 8 inches (2032 mm) and 7 feet 0 inches (2134 mm) door heights.
 - b. Pine, 4 x 24 inches (100 x 610 mm) at 8 feet 0 inches (2438 mm) door height.

F. Fabrication:

- 1. Edge Design: Proud edge.
- 2. Hardware Preparation: Cylindrical lockset.
- 3. Hinge Preparation:
 - a. Wood edge: 4 inch (100 mm) mortise hinge preparation.
 - b. Steel edge: 4 inch (100 mm) surface-mounted adjustable hinge preparation.

**** NOTE TO SPECIFIER ** Delete glazing preparation if not required.**

4. Glazing Preparation:
 - a. Glazing and Frame Types: As indicated on Drawings.
 - b. Doorglass and Frame Openings: Factory locate, size, and cut openings as indicated on Drawings.

**** NOTE TO SPECIFIER ** Keep applicable glazing sections below and delete section not required.**

- c. See Sections 08 81 00 - Glass Glazing and 08 88 00 - Special Function Glazing for glazing and framing requirements.

G. Embossment Profiles: As indicated on Drawings.

**** NOTE TO SPECIFIER ** Select applicable profiles and delete option not required.**

1. Details.
2. High Definition (HD).
3. Standard.
4. Urban.

H. Door Styles: As indicated on Drawings.

**** NOTE TO SPECIFIER ** Select applicable door styles and delete options not required.**

1. 2 Panel 3/4 Top.
2. 2 Panel Camber Plank.
3. 2 Panel Camber.
4. 2 Panel Square.
5. 3 Panel 3/4 Top.
6. 3 Panel Urban Craftsman.
7. 3 Panel Urban.
8. 4 Panel Urban.
9. 4 Panel.
10. 6 Panel.
11. 6 Panel Narrow
12. Flush.

I. Finishes:

**** NOTE TO SPECIFIER ** Select Steel Mark and Steel Mark Plus as applicable and delete option not required.**

1. Steel Mark:
 - a. Factory-applied polyester-based primer, primed white, ready for field painting or staining.

**** NOTE TO SPECIFIER ** Select applicable painting and staining finishes and delete option not required.**

- b. Exterior Painting: See Section 09 91 13 - Exterior Painting.
 - c. Exterior Staining and Finishing: See Section 09 93 13 - Exterior Staining and Finishing.
 - d. Color: As indicated on Drawings.
2. Steel Mark Plus:
 - a. Factory-prefinished over polyester-based primer.
 - b. Color: As indicated on Drawings.

**** NOTE TO SPECIFIER ** Delete matching sidelights paragraph below if not required.**

J. Matching Sidelights: Fixed steel sidelight units, wood-edge, of construction and finish matching the door, factory-prepared for glazing.

1. Sidelight Style, Size, and Handing: As indicated on Drawings.

**** NOTE TO SPECIFIER ** Delete glazing sections referenced below if not required.**

2. Glazing: See Sections 08 81 00 - Glass Glazing and 08 88 00 - Special Function Glazing.

K. Door Hardware: See Section 08 71 00 - Door Hardware.

**** NOTE TO SPECIFIER ** Delete article if not required.**

2.3 STEEL PRO ENTRY DOORS

A. Basis of Design: Steel Pro, manufactured by ODL Inc.; wood-edge steel entry door, furnished primed and ready for field painting.

B. Performance Requirements:

1. Thermal Performance:

a. Solar Heat Gain Coefficient (SHGC):

**** NOTE TO SPECIFIER ** Select applicable door types and delete options not required.**

- 1) Embossed Doors, 24 Gauge: 0.01.
- 2) Embossed Doors, 25 Gauge: 0.01.
- 3) Flush Doors, 24 Gauge: 0.01.
- 4) Flush Doors, 25 Gauge: 0.01.

b. U-Factor:

**** NOTE TO SPECIFIER ** Select applicable door types and delete options not required.**

- 1) Embossed Doors, 24 Gauge: 0.13.
- 2) Embossed Doors, 25 Gauge: 0.12.
- 3) Flush Doors, 24 Gauge: 0.12.
- 4) Flush Doors, 25 Gauge: 0.12.

C. Physical Properties:

1. Door Thickness: 1-3/4 inches (44 mm).
2. Door Height: 6 feet 8 inches (2032 mm).
3. Door Width: As indicated on Drawings.

D. Materials:

1. Steel Face Sheet: Hot-dip galvanized steel, 25 gauge, G40 coating designation; ASTM A653/A653M.
2. Foam Core:
 - a. Material: Foamed-in-place polyurethane.
 - b. Density: Minimum 2.2 lbs per cu ft (35 kg per cu m).
3. Wood Perimeter:
 - a. Material: LVL engineered wood.
 - b. Source: Third party chain of custody certified.
4. Wood Lock Block: Pine, 4 x 12 inches (100 x 305 mm).

E. Fabrication:

1. Edge Design: Proud edge.
2. Hardware Preparation: Cylindrical lockset.
3. Hinge Preparation: 4 inch (100 mm) mortise hinge preparation.

**** NOTE TO SPECIFIER ** Delete glazing preparation if not required.**

4. Glazing Preparation:

- a. Glazing and Frame Types: As indicated on Drawings.
- b. Doorglass and Frame Openings: Provide one of the following, as indicated on Drawings:
 - 1) Factory-Cut: Factory locate, size, and cut openings.
 - 2) Field-Reversible: Factory-prepared opening for field cutting and installation of doorglass by others.

**** NOTE TO SPECIFIER ** Keep applicable glazing sections below and delete section not required.**

- c. See Sections 08 81 00 - Glass Glazing and 08 88 00 - Special Function Glazing for glazing and framing requirements.

F. Embossment Profile: Standard.

G. Door Styles: As indicated on Drawings.

**** NOTE TO SPECIFIER ** Select applicable door styles and delete options not required.**

1. 4 Panel.
2. 6 Panel.
3. 6 Panel Narrow.
4. Flush.

H. Finishes:

1. Factory-applied polyester-based primer, primed white, ready for field painting or staining.

**** NOTE TO SPECIFIER ** Select applicable painting and staining finishes and delete option not required.**

2. Exterior Painting: See Section 09 91 13 - Exterior Painting.
3. Exterior Staining and Finishing: See Section 09 93 13 - Exterior Staining and Finishing.
4. Color: As indicated on Drawings.

I. Door Hardware: See Section 08 71 00 - Door Hardware.

**** NOTE TO SPECIFIER ** Delete article if not required.**

2.4 ACCESSORIES

**** NOTE TO SPECIFIER ** Delete dentil shelves if not required.**

A. Dentil Shelves: Field-applied decorative accessory for HD Steel Craftsman door designs, available in the following sizes:

1. 2 Tier Dentil Shelf: 23-3/4 x 2-1/2 inches (603 x 64 mm).
2. 4 Block Dentil Shelf: 23-1/2 x 3-1/2 inches (597 x 89 mm).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that openings and frames are correctly sized and located, plumb, square, level, and ready to receive the doors.
- B. Verify door handedness and swing against the Drawings before installation.
- C. Do not begin installation until the substrates have been properly constructed and prepared.
- D. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly before installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install per manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.

- B. Install doors plumb, level, square, and true, in proper alignment and within manufacturer's tolerances.
- C. Install doors of the correct handedness and swing as indicated on Drawings.
- D. Anchor doors securely per manufacturer's instructions.
- E. Maintain uniform clearances and margins at the head, jambs, and meeting stiles, and required clearance at the sill.
- F. Coordinate installation of door hardware, doorglass, and perimeter joint sealant; see Sections 08 71 00 - Door Hardware, 08 81 00 - Glass Glazing, 08 88 00 - Special Function Glazing, and 07 92 00 - Joint Sealants.

**** NOTE TO SPECIFIER ** Delete fire-rated door assemblies below if not required.**

- G. Fire-Rated Door Assemblies: Install per NFPA 80 and the manufacturer listing; maintain the labeled configuration and listed clearances.
- H. Field Finishing: Field-paint or field-stain paintable doors per manufacturer written instructions; complete finishing of the door faces and edges within four weeks of installation.
 - 1. Exterior Painting: See Section 09 91 13 - Exterior Painting.
 - 2. Exterior Staining and Finishing: See Section 09 93 13 - Exterior Staining and Finishing.

3.4 INSTALLATION - ACCESSORIES

- A. Dentil Shelf: Field-apply to the door face per manufacturer instructions.

3.5 ADJUSTING

- A. Adjust doors and operating hardware for smooth operation, full closure, uniform margins, and weathertight seal.
- B. Adjust doors equipped with adjustable hinges per manufacturer's instructions to align the door within the frame.

3.6 FIELD QUALITY CONTROL

- A. Field Inspection: Coordinate field inspection per appropriate sections in Division 01.

**** NOTE TO SPECIFIER ** Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection, or construction. Delete if not required.**

- B. Manufacturer's Services: Coordinate manufacturer's services per appropriate sections in Division 01.

3.7 CLEANING AND PROTECTION

- A. Clean products by washing with water per manufacturer recommendations.
- B. Protect installed doors and finishes from damage during construction.
- C. Remove temporary protective coverings before Substantial Completion.
- D. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION