SECTION 08 42 00

STEEL ENTRANCE DOOR SYSTEMS

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\*\* NOTE TO SPECIFIER \*\* Taylor Entrance Systems, Inc.; entrance doors, sidelights, steel doors.
This section is based on the products of Taylor Entrance Systems, Inc., which is located at:631 N. First St.West Branch, MI 48661 Toll Free Tel: 800-248-3600Fax: 800-252-5468Email: [request info (quotes@taylordoor.com)](https://arcat.com/rfi?action=email&company=Taylor%252BEntrance%252BSystems%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(08420tay)%253A%2520&coid=50999&spec=08420tay&rep=&fax=800-252-5468)
Web: <https://taylordoor.com>
 [ [Click Here](https://arcat.com/company/taylor-entrance-systems-inc-50999) ] for additional information.
Taylor Entrance Systems is an industry-leading, American-made manufacturer of premium steel entry doors serving residential and commercial markets. For 75+ years, Taylor has been providing innovative solutions and value-added products to the building materials industry, making them known as America's doormaker.
Taylor specializes in delivering high-quality commercial door solutions for student housing, senior living, multi-family, and mixed-use properties, offering a wide range of customizable options, superior performance, and trending door styles. Taylor's steel entry doors are customized to fit your project spec, including custom sizing to fit hollow metal frames and prepped to accept virtually any locking hardware. For more information about Taylor, visit www.taylordoor.com.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Steel entrance door systems:
			1. Textured stainable steel. (Norwood)
			2. Smooth steel. (Cambridge)
			3. Smooth steel. (Midland)
			4. Smooth steel. (WestGuard)
			5. Fitted door system. (QuikFit)
	1. RELATED SECTIONS

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

* + 1. Section 04 20 00 - Unit Masonry.
		2. Section 06 10 00 - Rough Carpentry.
		3. Section 07 90 00 - Joint Protection.
		4. Section 08 70 00 - Hardware.
		5. Section 08 83 13 - Mirrored Glass Glazing.
		6. Section 09 21 16.33 - Gypsum Board Area Separation Wall Assemblies.
		7. Section 09 90 00 - Painting and Coating.
	1. REFERENCES

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

* + 1. ASTM International (ASTM):
			1. ASTM A366 - Standard Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled.
			2. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot-Dip Process.
			3. ASTM A924 - Standard Specification for General Requirements for Steel, Metallic-Coated by the Hot-Dip Process.
			4. ASTM D610 - Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces.
			5. ASTM D714 - Standard Test Method for Evaluating Degree of Blistering of Paints.
			6. ASTM D1622 - Standard Test Method for Apparent Density of Rigid Cellular Plastics.
			7. ASTM D1654 - Standard Test Method of Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
		2. American National Standards Institute (ANSI):
			1. ANSI/DHI A115.IG - Installation Guide for Doors and Hardware.
			2. ANSI/SDI Standard A224.1 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Door and Frames.
		3. National Fire Protection Association (NFPA):
			1. NFPA 80 - Fire Doors and Windows.
			2. NFPA 252 - Fire Tests of Door Assemblies.
		4. Window and Door Manufacturers Association (WDMA): N.A.F.S. 101/I.S.2/A440.
		5. Warnock Hersey, Inc. (WHI):
			1. WHI Directory of Listed Products.
			2. WHI Directory of Positive Pressure Rated Door assemblies and components.
			3. SpecDirect web based listing of fire rated components and systems.
	1. SUBMITTALS
		1. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
		2. 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.
		3. Shop Drawings: Submit shop drawings showing relationship with adjacent construction, layout, profiles and product components, including anchorage, and accessories.
			1. Indicate door type, frame, steel, core, material thickness, reinforcements, anchorages, exposed fasteners locations, openings (glazed, paneled or louvered) and hardware arrangement.
			2. Include schedule identifying each unit, with door marks or numbers referencing numbering in schedules or drawings.

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

* + 1. Verification Samples: Two representative units of each finish, texture and color.
		2. Quality Assurance Submittals: Submit the following:
			1. Product certificates signed by manufacturer certifying that materials comply with specified performance characteristics and criteria and physical requirements.
			2. Manufacturer's instructions for installation.
		3. Closeout Submittals: Submit the following:
			1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
			2. Warranty: Warranty documents specified herein. Submit in accordance with Section 01 30 00 - Administrative Requirements.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Regulatory Requirements for Labeled Door and Frame Construction: Where noted or required, provide Warnock Hersey Inc. (WHI) labels (Intertek Services) with appropriate fire resistance ratings for class of opening indicated. Construction details and hardware applications authorized by testing or certification laboratories shall take precedence over project details or specifications.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Do not proceed with remaining work until workmanship is approved by Architect.
			4. Retain mock-up during construction as a standard for comparison with completed work.
			5. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up if it is no longer required.
			6. Do not alter or remove mock-up until work is completed or removal is authorized.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following subparagraphs.

* + - 1. At Substantial Completion, approved mockups may become part of completed Work.
			2. Demolish mockups and remove from site.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work of this Section.
			1. Attendees shall include Architect, Contractor and trades involved.
			2. Agenda shall include verification of project requirements, substrate conditions, manufacturer's installation instructions, manufacturer's warranty requirements, schedule, responsibilities, critical path items and approvals.
		2. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
		2. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
			1. Handle and store products according to manufacturer's recommendations published in technical materials.
			2. Leave product wrapped or otherwise protected and under clean, dry storage conditions until required.
		3. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.
			1. Door Storage:
				1. Doors shall be protected at corners to prevent damage or marring of finish.
				2. Doors shall be stored in an upright position under cover on building site on wood sills or on floors in a manner that will prevent rust and damage.
				3. Avoid creating a humidity chamber by using a plastic or canvas shelter and not venting the area covered.
			2. Frame Storage:
				1. Frames shall be stored in an upright position under cover on building site on wood sills or floors in a manner that will prevent rust and damage.
				2. Avoid creating a humidity chamber by using a plastic or canvas shelter and not venting the area covered.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Taylor Entrance Systems, Inc., which is located at:631 N. First St.West Branch, MI 48661 Toll Free Tel: 800-248-3600Fax: 800-252-5468Email: [request info (quotes@taylordoor.com)](https://arcat.com/rfi?action=email&company=Taylor%252BEntrance%252BSystems%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(08420tay)%253A%2520&coid=50999&spec=08420tay&rep=&fax=800-252-5468);Web: <https://taylordoor.com>

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

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. PERFORMANCE REQUIREMENTS
		1. G40 Hot Dipped Galvanized Steel per ASTM A653.
		2. Superior insulation values, even in sub-zero temperature ranges.
			1. Apparent U-Value of Opaque Doors: 0.17 Btu per sq ft per hour per degrees F (0.29 W per m per degrees K). For doors 1-3/4 inches (45 mm) thick; 24 gauge construction.
				1. Ratings do not apply to panels but to operable door frame assemblies.
				2. Test reports per NFRC 102 available to design professionals upon request.
		3. Fire Protection: Tested performance.
			1. Doors up to 8 ft (2438 mm) in height: 90 minutes.
		4. Security Rating: Grade 40.
		5. Hurricane Impact Code Compliance: Pass.
		6. Weldless Door Construction: No welds to provide blemishes or destruction of rust inhibiting galvanic coating.
		7. Composite Lock Block: Eliminates typical wave in lock area while enhancing structural performance.
		8. Prime Paint System: Thermosetting Polyester Prime Coil Coat

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. TEXTURED STAINABLE STEEL ENTRANCE DOOR SYSTEMS
		1. Basis of Design: Norwood Collection as manufactured by Taylor Entrance Systems.
			1. Code Compliance: Grade 40 security rating.
			2. Steel Face Sheet Thickness: 22 gauge.
			3. Door Panel Texture: Embossed wood grain.
			4. Stile and Rail Texture: Embossed wood grain.

\*\* NOTE TO SPECIFIER \*\* Delete door panel style options not required.

* + - 1. Door Panel Style: Flush.
			2. Door Panel Style: 1-Panel Flat Shaker.
			3. Door Panel Style: 1-Panel Raised.
			4. Door Panel Style: 2-Panel Flat Shaker.
			5. Door Panel Style: 2-Panel Raised.
			6. Door Panel Style: 2-Panel Arch Top Raised.
			7. Door Panel Style: 2-Panel Arch Top Plank Raised.
			8. Door Panel Style: 3-Panel Raised.
			9. Door Panel Style: 3 Panel Flat Shaker.
			10. Door Panel Style: 3-Panel Craftsman Raised.
			11. Door Panel Style: 3-Panel Craftsman Raised with Dentil Shelf.
			12. Door Panel Style: 4-Panel Blank Top Raised.
			13. Door Panel Style: True 4-Panel Raised.
			14. Door Panel Style: 6-Panel Raised.
			15. Door Panel Style: 8-Panel Raised.
			16. Door Panel Styles: As scheduled on Drawings.
			17. Finish: Door surfaces exposed to view; factory beige color stainable primer.

\*\* NOTE TO SPECIFIER \*\* Delete hinge prep options not required.

* + - 1. Hinge Preps: 4 inch (102 mm) surface mount, fixed hinge prep.
			2. Hinge Preps: 4 inch (102 mm) surface mount, adjustable hinge prep.
			3. Hinge Preps: 4 inch (102 mm) surface mount, template fixed prep.
			4. Hinge Preps: 4-1/2 inch (115 mm) surface mount, commercial template fixed hinge prep.
			5. Lock Area Reinforcement: 4 x 10 inches (102 x 254 mm) composite lock block.
			6. Face Bore Diameter: 2-1/8 inches (54 mm).

\*\* NOTE TO SPECIFIER \*\* Delete face bore backset options not required.

* + - 1. Face Bore Backset: 2-3/4 inches (70 mm).
			2. Face Bore Backset: 2-3/8 inches (60 mm).
			3. Face Bore Backset: As selected by Architect.
			4. Face Bore Backset: As scheduled on Drawings.
			5. Core: Polyurethane filled, low VOC, 2.00 lbs per cu ft (32 kg per cu m) density.
			6. Perimeter: Continuously reinforced unitized steel edge construction.

\*\* NOTE TO SPECIFIER \*\* Delete cutouts option not required.

* + - 1. Cutouts: None.
			2. Cutouts: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete bottom sweeps option not required.

* + - 1. Bottom Sweeps: Dual durometer composite.
			2. Bottom Sweeps: Metal retainer with composite (or dual durometer) slide on sweep.
			3. Bottom Sweeps: Screw-on bottom sweep.
			4. Bottom Sweeps: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete sidelights paragraph if not required.

* + 1. Sidelights:
			1. Sidelight Panel Texture: Embossed wood grain.
			2. Stile and Rail Texture: Embossed wood grain.

\*\* NOTE TO SPECIFIER \*\* Delete sidelight panel style options not required for project.

* + - 1. Sidelight Panel Style: None.
			2. Sidelight Panel Styles: As scheduled on Drawings.
			3. Steel Face Sheet Thickness: 22 gauge.
			4. Finish: Sidelight surfaces exposed to view; factory beige color stainable primer.
			5. Core: Polyurethane filled, low VOC, 2.00 lbs per cu ft (32 kg per cu m) density.
			6. Perimeter: Continuously reinforced with unitized steel edge construction.

\*\* NOTE TO SPECIFIER \*\* Delete option for cutouts not required.

* + - 1. Cutouts: None.
			2. Cutouts: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete if fire rating not required.

* + 1. Labeled Doors and Frames: Adjustable throat frames, sidelights, transoms, borrowed lights; Warnock Hersey Inc. (Intertek Services) labels with appropriate fire resistance ratings for class of opening indicated on Drawings.
		2. Hardware Preparation: Location of hardware including but not limited to locks, hinges, latches, push/pull plates and bars, exit devices, handle sets, closer reinforcing, roller latches and arm pulls. Conform to Steel Door Institute recommendations and details in manufacturer's literature.
			1. Doors: Mortised, reinforced, drilled and tapped to receive mortise hardware.
				1. Door Height up to 84 inches (2134 mm): Prepare for 3 hinges.
				2. Door Height from 84 inches (2134 mm) to 96 inches (2438 mm): Prepare for 4 hinges.
			2. Surface Applied Hardware: Field Drill and tap for mounting.
			3. Locks: Require flat faces.
		3. Frames: Rabbeted profile with stop kerfed at base to receive foam weatherstripping.
			1. Frame Type: Adjustable throat frames.
			2. Frame Fabrication: 18 gauge steel.
		4. Frame Member Galvanizing: Per ASTM A40, hot dipped galvanized materials with 0.4 oz. coating conforming to ASTM A924 and ASTM A653.
		5. Exposed Surfaces of Prime Painted Frames: Cleansed, treated with and given 1 baked-on shop coat of VOC compliant primer.

\*\* NOTE TO SPECIFIER \*\* Delete the glazing paragraph not required.

* + 1. Glazing: None.
		2. Glazing: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. SMOOTH STEEL ENTRANCE DOOR SYSTEMS
		1. Basis of Design: Cambridge Collection as manufactured by Taylor Entrance Systems.
			1. Compliance: Grade 40 security rating.
			2. Door Panel Texture: Smooth.
			3. Door Panel Thickness: 1-3/4 inches (44 mm).

\*\* NOTE TO SPECIFIER \*\* Delete door panel style options not required.

* + - 1. Door Panel Style: Flush.
			2. Door Panel Style: 1-Panel Flat Shaker.
			3. Door Panel Style: 1-Panel Raised.
			4. Door Panel Style: 2-Panel Flat Shaker.
			5. Door Panel Style: 2-Panel Raised.
			6. Door Panel Style: 2-Panel Arch Top Raised.
			7. Door Panel Style: 2-Panel Arch Top Plank Raised.
			8. Door Panel Style: 3/4 2-Panel Raised.
			9. Door Panel Style: 3-Panel Raised.
			10. Door Panel Style: 3-Panel Horizontal Shaker.
			11. Door Panel Style: 3-Panel Flat Shaker.
			12. Door Panel Style: 3-Panel Craftsman Raised.
			13. Door Panel Style: 4-Panel Blank Top Raised.
			14. Door Panel Style: True 4-Panel Raised.
			15. Door Panel Style: 5-Panel Horizontal Shaker.
			16. Door Panel Style: 6-Panel Horizontal Shaker.
			17. Door Panel Style: 6-Panel Raised.
			18. Door Panel Style: 8-Panel Raised.
			19. Door Panel Style: 9-Panel Raised.
			20. Door Panel Styles: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Limited lifetime warranty (residential) and 7-year limited warranty (commercial) is standard for Cambridge (22-gauge) exterior door slabs.

* + - 1. Steel Face Sheet Thickness: 22 gauge, G40 (hot-dipped) galvanized steel.
			2. Finish: Door surfaces exposed to view; factory primed.

\*\* NOTE TO SPECIFIER \*\* Delete hinge prep options not required.

* + - 1. Hinge Preps: 4 inch (102 mm) surface mount, fixed hinge prep.
			2. Hinge Preps: 4 inch (102 mm) surface mount, adjustable hinge prep.
			3. Hinge Preps: 4 inch (102 mm) surface mount, template fixed prep.
			4. Hinge Preps: 4-1/2 inch (115 mm) surface mount, commercial template fixed hinge prep.
			5. Lock Area Reinforcement: 4 x 10 inches (102 x 254 mm) composite lock block.
			6. Core: Polyurethane filled, low VOC, 2.00 lbs per cu ft (32 kg per cu m) density.
			7. Perimeter: Continuously reinforced unitized steel edge construction.

\*\* NOTE TO SPECIFIER \*\* Delete cutouts option not required.

* + - 1. Cutouts: None.
			2. Cutouts: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete bottom sweeps options not required.

* + - 1. Bottom Sweeps: Dual durometer composite.
			2. Bottom Sweeps: Metal retainer with composite (or dual durometer) slide on sweep.
			3. Bottom Sweeps: Screw-on bottom sweep.
			4. Bottom Sweeps: As scheduled on Drawings.
		1. Basis of Design: Midland Collection as manufactured by Taylor Entrance Systems.
			1. Compliance: Grade 40 security rating.
			2. Door Panel Texture: Smooth.
			3. Door Panel Thickness: 1-3/4 inches (44 mm).

\*\* NOTE TO SPECIFIER \*\* Delete door panel style options not required.

* + - 1. Door Panel Style: Flush.
			2. Door Panel Style: 1-Panel Raised.
			3. Door Panel Style: 2-Panel Raised.
			4. Door Panel Style: 2-Panel Arch Top Raised.
			5. Door Panel Style: 2-Panel Arch Top Plank Raised.
			6. Door Panel Style: 3/4 2-Panel Raised.
			7. Door Panel Style: 3-Panel Craftsman Raised.
			8. Door Panel Style: Crossbuck.
			9. Door Panel Style: 4-Panel Blank Top Raised.
			10. Door Panel Style: True 4-Panel Raised.
			11. Door Panel Style: 5-Panel Horizontal Shaker.
			12. Door Panel Style: 6-Panel Raised.
			13. Door Panel Style: 8-Panel Raised.
			14. Door Panel Styles: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Limited lifetime warranty (residential) and 7-year limited warranty (commercial) is standard for Midland (24-gauge) exterior door slabs.

* + - 1. Steel Face Sheet Thickness: 24 gauge, G40 (hot-dipped) galvanized steel.
			2. Finish: Door surfaces exposed to view; factory primed.

\*\* NOTE TO SPECIFIER \*\* Delete hinge prep options not required.

* + - 1. Hinge Preps: 4 inch (102 mm) surface mount, fixed hinge prep.
			2. Hinge Preps: 4 inch (102 mm) surface mount, adjustable hinge prep.
			3. Hinge Preps: 4 inch (102 mm) surface mount, template fixed prep.
			4. Hinge Preps: 4-1/2 inch (115 mm) surface mount, commercial template fixed hinge prep.
			5. Lock Area Reinforcement: 4 x 10 inches (102 x 254 mm) composite lock block.
			6. Core: Polyurethane filled, low VOC, 2.00 lbs. per cu ft (32 kg per cu m) density.
			7. Perimeter: Continuously reinforced unitized steel edge construction.

\*\* NOTE TO SPECIFIER \*\* Delete cutouts option not required.

* + - 1. Cutouts: None.
			2. Cutouts: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete bottom sweeps options not required.

* + - 1. Bottom Sweeps: Dual durometer composite.
			2. Bottom Sweeps: Metal retainer with composite (or dual durometer) slide on sweep.
			3. Bottom Sweeps: Screw-on bottom sweep.
			4. Bottom Sweeps: As scheduled on Drawings.
		1. Basis of Design: WestGuard Collection as manufactured by Taylor Entrance Systems.
			1. Compliance: Grade 40 security rating.
			2. Door Panel Texture: Smooth.
			3. Door Panel Thickness: 1-3/4 inches (44 mm).

\*\* NOTE TO SPECIFIER \*\* Delete door panel style options not required.

* + - 1. Door Panel Style: Flush.
			2. Door Panel Style: 1-Panel Flat Shaker.
			3. Door Panel Style: 2-Panel Flat Shaker.
			4. Door Panel Style: 2-Panel Raised.
			5. Door Panel Style: 2-Panel Arch Top Raised.
			6. Door Panel Style: 3-Panel Horizontal Flat Shaker.
			7. Door Panel Style: 3-Panel Flat Shaker
			8. Door Panel Style: 4-Panel Blank Top Raised.
			9. Door Panel Style: 5-Panel Horizontal Shaker.
			10. Door Panel Style: 6-Panel Horizontal Shaker.
			11. Door Panel Style: 6-Panel Raised.
			12. Door Panel Styles: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Limited lifetime warranty (residential) and 7-year limited warranty (commercial) is standard for WestGuard (20-gauge) exterior door slabs.

* + - 1. Steel Face Sheet Thickness: 20 gauge, G40 (hot-dipped) galvanized steel.
			2. Finish: Door surfaces exposed to view; factory primed.

\*\* NOTE TO SPECIFIER \*\* Delete hinge prep options not required.

* + - 1. Hinge Preps: 4 inch (102 mm) surface mount, fixed hinge prep.
			2. Hinge Preps: 4 inch (102 mm) surface mount, adjustable hinge prep.
			3. Hinge Preps: 4 inch (102 mm) surface mount, template fixed prep.
			4. Hinge Preps: 4-1/2 inch (115 mm) surface mount, commercial template fixed hinge prep.
			5. Hinge Preps: 4-1/2 inch (115 mm) mortise commercial hinge prep
			6. Lock Area Reinforcement: 4 x 10 inches (102 x 254 mm) composite lock block.
			7. Core: Polyurethane filled, low VOC, 2.00 lbs per cu ft (32 kg per cu m) density.
			8. Perimeter: Continuously reinforced unitized steel edge construction.

\*\* NOTE TO SPECIFIER \*\* Delete cutouts option not required.

* + - 1. Cutouts: None.
			2. Cutouts: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete bottom sweeps options not required.

* + - 1. Bottom Sweeps: Dual durometer composite.
			2. Bottom Sweeps: Metal retainer with composite (or dual durometer) slide on sweep.
			3. Bottom Sweeps: Screw-on bottom sweep.
			4. Bottom Sweeps: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete if fire rating not required.

* + 1. Labeled Doors and Frames: Adjustable throat frames, sidelights, transoms, borrowed lights; Warnock Hersey Inc. (Intertek Services) labels with appropriate fire resistance ratings for class of opening indicated on Drawings.
		2. Hardware Preparation: Location of hardware including but not limited to locks, hinges, latches, push/pull plates, and bars, exit devices, handle sets, closer reinforcing, roller latches and arm pulls. Conform to Steel Door Institute recommendations and details in manufacturer's literature.
			1. Doors: Mortised, reinforced, drilled and tapped to receive mortise hardware.
				1. Door Height up to 84 inches (2134 mm): Prepare for 3 hinges.
				2. Door Height from 84 inches (2134 mm) to 96 inches (2438 mm): Prepare for 4 hinges.
			2. Surface Applied Hardware: Field Drill and tap for mounting.
			3. Locks: Require flat faces.
		3. Frames: Rabbeted profile with stop kerfed at base to receive foam weatherstripping.
			1. Frame Type: Adjustable throat frames.
			2. Frame Fabrication: 18 gauge steel.
		4. Frame Member Galvanizing: Per ASTM A40, hot dipped galvanized materials with 0.4 oz. coating conforming to ASTM A924 and ASTM A653.
		5. Exposed Surfaces of Prime Painted Frames: Cleansed, treated with and given 1 baked-on shop coat of VOC compliant primer.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable.

* + 1. Glazing:
			1. Glazing: None
			2. Glazing: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete sidelights paragraph if not required.

* + 1. Sidelights:
			1. Compliance: Grade 40 security rating.
			2. Sidelight Panel Thickness: Nominal 1-3/4 inches.
			3. Sidelight Panel Texture: Smooth.

\*\* NOTE TO SPECIFIER \*\* Delete sidelight panel style options not required for project.

* + - 1. Sidelight Panel Style: None.
			2. Sidelight Panel Styles: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete steel face sheet thickness options not required.

* + - 1. Steel Face Sheet Thickness: 24 gauge, G40 (hot-dipped) galvanized steel.
			2. Steel Face Sheet Thickness: As selected by Architect.
			3. Steel Face Sheet Thickness: As scheduled on Drawings.
			4. Finish: Sidelight surfaces exposed to view; factory primed.
			5. Core: Polyurethane filled, low VOC, 2.00 lbs per cu ft (32 kg per cu m) density.
			6. Perimeter: Continuously reinforced with unitized steel edge construction.

\*\* NOTE TO SPECIFIER \*\* Delete option for cutouts not required.

* + - 1. Cutouts: None.
			2. Cutouts: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

1 year warranty available for QuikFit Adjustable Steel Frame.

* 1. QUIKFIT ADJUSTABLE FRAME SYSTEM
		1. Basis of Design: QuikFit as manufactured by Taylor Entrance Systems.
			1. Frame Type: Fitted frame, adjustable, two piece, 18 gauge steel. Interlocking base and closure for 1 inch (25 mm) throat adjustability.

\*\* NOTE TO SPECIFIER \*\* Delete fire rating if not required.

* + - 1. Fire Rating: 90 minutes.

\*\* NOTE TO SPECIFIER \*\* Delete frame height options not required.

* + - 1. Frame Height: 80 inches (2032 mm).
			2. Frame Height: 84 inches (2137 mm).
			3. Frame Height: 96 inches (2438 mm).
			4. Frame Height: As selected by Architect.
			5. Frame Height: As scheduled on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete casing options not required.

* + - 1. Casing: None
			2. Casing: Steel, 22 gauge, Standard Square profile.
			3. Casing: Steel, 22 gauge, Optional Colonial profile.
			4. Casing: As selected by Architect.
			5. Casing: As scheduled on Drawings.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. Verify substrate conditions, previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions
		3. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using methods recommended by manufacturer for achieving the best result for substrate under the project conditions.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph below if no field painting is required.

* + 1. Field Painting Preparation:
			1. Before application of finish coat, surfaces must be dry and free of dirt, oil and dust.
			2. Finish Coat: Applied over a film that is intact. Field prime scratches or bare edges with a rust inhibiting paint before top coating.
				1. Comply with instructions provided by paint manufacturer.
	1. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.

\*\* NOTE TO SPECIFIER \*\* Refer to SDI publication, Installation Guide for Commercial Steel Doors and Frames and DHI's publication Installation Guide for detailed recommendations.

* + 1. General:
			1. Set plumb, square, aligned, and without twist at correct elevation.
			2. Steel Frames: Install plumb, straight and true, rigidly secured in place, and properly braced.
			3. Comply with ANSI/DHI A115-IG installation guide.

\*\* NOTE TO SPECIFIER \*\* Delete if fire rated doors and frames are not required.

* + - 1. Comply with NFPA 80 installation standards.
		1. Frame Installation Tolerances:
			1. Plumbness Tolerance: Measured through a line from intersecting corner of vertical members and the head to the floor. 0 to 0.063 inches (1.6 mm).
			2. Squareness Tolerance: Measured through a line 90 degrees from one jamb at upper corner of product, to opposite jamb. 0 to 0.063 inches (1.6 mm).
			3. Alignment Tolerance: Measured on jambs, through a horizontal line parallel to plane of wall. 0 to 0.063 inches (1.6 mm).
			4. Twist Tolerance: Measured at face corners of jambs, on parallel lines perpendicular to plane of wall. 0 to 0.063 inches (1.6 mm).
		2. Secure anchorages and connections to adjacent construction.
		3. Install hardware in accordance with manufacturers' template and instructions.
		4. Install glazing materials and door silencers.
		5. Finish exposed field welds to present a smooth uniform surface. Touch up with a rust inhibitive primer.
		6. Touch up exposed surfaces scratched or marred during shipment, installation, or handling with a rust inhibitive primer.

\*\* NOTE TO SPECIFIER \*\* Finish coat recommendations: Taylor's primer has been formulated to give the product maximum protection. It is important that compatible materials be used in the final or finished coat of paint. The painting contractor should test a small section of the door or frame if there is any doubt as to the composition of the finish coat. Certain finish coat materials are not recommended. Consult manufacturer.

* + 1. Field Painting: Work of Section 09 90 00 - Painting and Coating.
		2. Repainting: If necessary to field coat a factory finished door or frame, sand the door or frame for better adhesion and prime any bare metal.
			1. Test to confirm the primer and finish coat are compatible.
	1. TESTING AND ADJUSTING
		1. Adjust hinge sets, locksets and other hardware as recommended by manufacturer.
		2. Lubricate using a manufacturer recommended lubricant compatible with door and frame coatings.
	2. CLEANING AND PROTECTION
		1. Clean installed products in accordance with manufacturer's recommendations prior to Substantial Completion.
		2. Remove temporary coverings and protection of adjacent work areas. Remove construction debris from project site and legally dispose of debris.
		3. Touch-up, repair or replace damaged products before Substantial Completion.
		4. Protection: Protect installed product and finish surfaces from damage during construction.

END OF SECTION