SECTION 08 16 13

FIBERGLASS DOORS

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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(08270tay)%253A%2520&coid=50999&spec=08270tay&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 manufacturer of quality steel and fiberglass exterior doors, serving both the residential and light commercial markets. We meticulously test for quality every single day to ensure that you are receiving the best product that we can produce. When you choose Taylor Entrance Systems, you are choosing quality.
For the past 70 plus years, we have been providing innovative solutions and value-add products to the building materials industry, making us nationally known as America's doormaker. Made-to-order by talented craftspeople in West Branch, Michigan. Our products are built with pride and confidence, giving you the satisfaction of buying a high-quality, reliable product.
Taylor Entrance Systems has grown into a nationally recognized leader in the building materials industry. Combining leading-edge product innovation, manufacturing excellence and exceptional customer service, Taylor Entrance Systems now serves the residential and light commercial markets, both new construction and renovation.
At Taylor Entrance Systems, we've established a management philosophy in which teamwork plays an important role. People working together to manufacture quality entrance systems, and customers working closely with professionals to meet the demands of homeowners.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Fiberglass Entrance Door Systems:
			1. Fiberglass doors. (Timbergrain)
			2. Fiberglass doors. (Grand Marais)
	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 05 40 00 - Cold-Formed Metal Framing.
		3. Section 06 10 00 - Rough Carpentry.
		4. Section 07 90 00 - Joint Protection.
		5. Section 08 11 00 - Metal Doors and Frames.
		6. Section 08 70 00 - Hardware.
		7. Section 08 83 13 - Mirrored Glass Glazing.
		8. Section 09 21 16.33 - Gypsum Board Area Separation Wall Assemblies.
		9. 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 E413 - Classification for Rating Sound Insulation.
			2. ASTM E1332 - Standard Classification for Determination of Outdoor-Indoor Transmission Class.
		2. National Fire Protection Association (NFPA):
			1. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
		3. Underwriters Laboratories (UL):
			1. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
	1. SUBMITTALS
		1. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
		2. Product Data: Manufacturer's data sheets for each product to be used including but not limited to the following.
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Typical installation methods.
			4. Factory finishing information.
			5. Core and edge construction.
			6. Trim for openings.
		3. Shop Drawings: Submit shop drawings showing relationship with adjacent construction, layout, profiles, product components and accessories.
			1. Indicate door type, frame, steel, core, material thickness, reinforcements, anchorages, exposed fasteners locations, glazed, paneled or louvered openings and hardware arrangement.
			2. Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in product data.

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

* + 1. Verification Samples: Two representative units of each finish, texture and color.
		2. Test Reports: Submit for doors, indicating compliance with referenced standards.
		3. Operation and Maintenance Data: For each product installed including but not limited to methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum 10 years documented experience whose products have been in satisfactory use in similar service for not less than 10 years.
		2. Source Limitations: Obtain each type of fiberglass door through one source from a single manufacturer.

\*\* NOTE TO SPECIFIER \*\* Delete option for fire rated doors if not required.

* + 1. Fire-Rated Doors: Provide doors that are listed and labeled by Warnock Hersey, for 20 minute fire-protection rating.

\*\* NOTE TO SPECIFIER \*\* Retain either or both of the options in the following paragraph. Verify local code requirements before deleting either option.

* + - 1. Testing: NFPA 252.
			2. Testing: UL Standard 10C.
			3. Testing: As scheduled and indicated on Drawings.
		1. 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
			6. comparison; remove and legally dispose of mock-up if it is no longer required.
			7. 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. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
		2. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
			1. Store materials protected from construction operations and exposure to harmful weather conditions, at humidity and temperature conditions recommended by manufacturer
			2. Package doors on pallets and protect with cardboard top and bottom, corner protectors, banding, and shrink wrap.
			3. Protect at corners to prevent damage or marring of finish.
			4. Leave product wrapped or otherwise protected and under clean, dry storage conditions until required.
			5. Store doors and frames in an upright position under cover on building site on wood sills or on floors in a manner that will prevent rust and damage.
			6. 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.
	4. WARRANTY
		1. Manufacturer's Warranty: Submit manufacturer's standard limited warranty that products will be free of manufacturing defects in materials or workmanship:
			1. Doors: 25 years.
			2. Doors Limited lifetime warranty.
			3. Glass Vision Panels: 10 years.
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(08270tay)%253A%2520&coid=50999&spec=08270tay&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.

\*\* NOTE TO SPECIFIER \*\* Delete article for Timbergrain fiberglass doors if not required. If specifying multiple door types, indicate locations of different attributes on the door schedule.

* 1. FIBERGLASS DOORS (TIMBERGRAIN)

\*\* NOTE TO SPECIFIER \*\* Modify or delete acoustical performance data as required.

* + 1. Acoustical Performance: Opaque doors.
			1. Compliance: ASTM E413.
			2. Sound Transmission Class (STC) Rating: 25.
		2. Construction:
			1. Door Skins: High impact compression molded fiberglass reinforced material.
			2. Top Rails: Composite material.
			3. Bottom Rails: Composite material, accommodating a range of door sweeps.
			4. Door Sweeps: Manufacturer's standard fiberglass pound on finned sweep.
			5. Stiles: No lock block required.
				1. Materials: Hardwood capped laminated strand lumber (LSL).
				2. Width: 4 inches (102 mm), both sides of door.
			6. Cores: 100 percent CFC-free polyurethane insulation.
			7. Door Lites:
				1. High impact compression molded fiberglass reinforced material.
				2. Screw together with plugs to cover screws on inside of door.

\*\* NOTE TO SPECIFIER \*\* Delete glazing options not required. Consult manufacturer's product catalogue or representatives for glazing options.

* + - 1. Glazing Lites: None.
			2. Glazing Lites: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
			3. Glazing Lites: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete optional adjustable hinge plates if not required. Doors utilizing adjustable hinge plate system can be adjusted 3/8 inch (9.5 mm) up and down and 1/4 inch (6.4 mm) back and forth within jamb.

* + - 1. Adjustable Hinge Plates: Installed into hinge edge of door.

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Timbergrain Collection Oak Grain Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Doors: Eight panel style, 80 inches (2032 mm) height.
			2. Doors: Eight panel style, 84 inches (2134 mm) height.
			3. Doors: Six panel style, 80 inches (2032 mm) height.
			4. Doors: Six panel style, 84 inches (2134 mm) height.
			5. Doors: Three panel style, 80 inches (2032 mm) height.
			6. Doors: Three panel style, 84 inches (2134 mm) height.
			7. Doors: Panel style and height as scheduled and indicated on Drawings.

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

* + - 1. Sidelites: None.
			2. Sidelites: 80 inches (2032 mm) height.
			3. Sidelites: 84 inches (2134 mm) height.
			4. Sidelites: As scheduled and indicated on Drawings.
		1. Basis of Design: Timbergrain Collection Mahogany Grain Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Doors: Six panel style, 80 inches (2032 mm) height.
			2. Doors: Six panel style, 84 inches (2134 mm) height.
			3. Doors: Three panel style, 80 inches (2032 mm) height.
			4. Doors: Three panel style, 84 inches (2134 mm) height.
			5. Doors: Panel style and height as scheduled and indicated on Drawings.

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

* + - 1. Sidelites: None.
			2. Sidelites: 80 inches (2032 mm).
			3. Sidelites: 84 inches (2134 mm).
			4. Sidelites: As scheduled and indicated on Drawings.
		1. Basis of Design: Timbergrain Collection Cherry Grain Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Doors: Eight panel style, 80 inches (2032 mm) height.
			2. Doors: Eight panel style, 84 inches (2134 mm) height.
			3. Doors: Six panel style, 80 inches (2032 mm) height.
			4. Doors: Six panel style, 84 inches (2134 mm) height.
			5. Doors: Three panel style, 80 inches (2032 mm) height.
			6. Doors: Three panel style, 84 inches (2134 mm) height.
			7. Doors: Two panel arch top style, 80 inches (2032 mm) height.
			8. Doors: Two panel arch top style, 84 inches (2134 mm) height.
			9. Doors: Two panel arch top style, 96 inches (2438 mm) height.
			10. Doors: Two panel arch top plank style, 80 inches (2032 mm) height.
			11. Doors: Two panel arch top plank style, 84 inches (2134 mm) height.
			12. Doors: Two panel arch top plank style, 96 inches (2438 mm) height.
			13. Doors: Two panel square style, 80 inches (2032 mm) height.
			14. Doors: Two panel square style, 84 inches (2134 mm) height.
			15. Doors: Two panel square plank style, 80 inches (2032 mm) height.
			16. Doors: Two panel square plank style, 84 inches (2134 mm) height.
			17. Doors: Panel style and height as scheduled and indicated on Drawings.

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

* + - 1. Sidelites: None.
			2. Sidelites: 80 inches (2032 mm) height.
			3. Sidelites: 84 inches (2134 mm) height.
			4. Sidelites: 96 inches (2438 mm) height.
			5. Sidelites: As scheduled and indicated on Drawings.
		1. Basis of Design: Timbergrain Collection Fir Grain Series as manufactured by Taylor Entrance Systems.
			1. Doors: Three panel craftsman style.
			2. Doors: One Panel craftsman style

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

* + - 1. Sidelites: None.
			2. Sidelites: Single.
			3. Sidelites: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete simulated divided lites options not required.

* + - 1. Simulated Divided Lites: None.
			2. Simulated Divided Lites: Required.
			3. Simulated Divided Lites: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete dentil shelves options not required.

* + - 1. Dentil Shelves: None.
			2. Dentil Shelves: Required.
			3. Dentil Shelves: As scheduled and indicated on Drawings.
		1. Basis of Design: Timbergrain Collection Knotty Alder Grain Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Doors: Two panel arch top style, 80 inches (2032 mm) height.
			2. Doors: Two panel arch top style, 84 inches (2134 mm) height.
			3. Doors: Two panel arch top style, 96 inches (2438 mm) height.
			4. Doors: Two panel arch top plank style, 80 inches (2032 mm) height.
			5. Doors: Two panel arch top plank style, 84 inches (2134 mm) height.
			6. Doors: Two panel arch top plank style, 96 inches (2438 mm) height.
			7. Doors: Panel style and height as scheduled and indicated on Drawings.

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

* + - 1. Sidelites: None.
			2. Sidelites: 80 inches (2032 mm) height.
			3. Sidelites: 84 inches (2134 mm) height.
			4. Sidelites: 96 inches (2438 mm) height.
			5. Sidelites: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete article for Grand Marais fiberglass doors if not required. If specifying multiple door types, indicate locations of different attributes on the door schedule.

* 1. FIBERGLASS DOORS (Grand Marais)

\*\* NOTE TO SPECIFIER \*\* Modify or delete acoustical performance data as required.

* + 1. Acoustical Performance:
			1. Sound Transmission Class (STC):
				1. Compliance: ASTM E413.

\*\* NOTE TO SPECIFIER \*\* Delete rating options not required. If retaining both door types indicate locations of different types on the door schedule.

* + - * 1. Rating: 22, flush opaque doors.
				2. Rating: 29, full lite doors with 1 inch (25 mm) glass.
				3. Rating: As scheduled and indicated on Drawings.
			1. Outdoor to Indoor Sound Transmission Class (OITC):
				1. Compliance: ASTM E1332.

\*\* NOTE TO SPECIFIER \*\* Delete rating options not required. If retaining both door types indicate locations of different types on the door schedule.

* + - * 1. Rating: 32, flush opaque doors.
				2. Rating: 30, full lite doors with 1 inch (25 mm) glass.
				3. Rating: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Hydroshield technology prevents warping, delamination, corrosion, rotting, and buildup of mold and mildew.

* + 1. Construction: Manufacturer's standard water-resistant Hydroshield technology to protect against water infiltration on all six sides.
			1. Door Skins: High impact compression molded fiberglass reinforced material.
			2. Top Rails: Composite material.
			3. Bottom Rails: Composite material, accommodating a range of door sweeps.
			4. Door Sweeps: Manufacturer's standard fiberglass pound on finned sweep.
			5. Stiles: Composite material, full-length of door.
			6. Extended Lockblocks: Accommodates minimum of 20 inches (508 mm) of lockblock.
			7. Cores: 100 percent CFC-free polyurethane insulation.

\*\* NOTE TO SPECIFIER \*\* Delete if 96 inches (2438 mm) tall doors are not selected above.

* + - 1. Reinforcement: Doors 96 inches (2438 mm) tall with metal beam on lock side of door.

\*\* NOTE TO SPECIFIER \*\* Delete surface texture options not required.

* + - 1. Surface Texture: Woodgrain.
			2. Surface Texture: Smooth skin.
			3. Surface Texture: As scheduled and indicated on Drawings.

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

* + - 1. Sidelites: None.
			2. Sidelites: 80 inches (2032 mm) height.
			3. Sidelites: 96 inches (2438 mm) height.
			4. Sidelites: As scheduled and indicated on Drawings.
		1. Basis of Design: Grand Marais Woodgrain Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Door Height: 80 inches (2032 mm).

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

* + - * 1. Doors: Select Collection, full flush style.
				2. Doors: Select Collection, two panel style.
				3. Doors: Select Collection, four panel style.
				4. Doors: Select Collection, 3/4 four panel style.
				5. Doors: Select Collection, six panel utility style.
				6. Doors: Panel style as scheduled and indicated on Drawings.
			1. Door Height: 96 inches (2438 mm).
				1. Doors: Select Collection, flush style.
				2. Doors: Select Collection, six panel style.
				3. Doors: Panel style as scheduled and indicated on Drawings.
			2. Door Height and Style: As scheduled and indicated on Drawings

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

* + - 1. Sidelites: None.
			2. Sidelites: Six panel style, 80 inches (2032 mm) height.
			3. Sidelites: Flush style, 80 inches (2032 mm). 96 inches (2438 mm) height.
			4. Sidelites: Flush style, 84 inches (2134 mm) height.
			5. Sidelites: Flush style, 96 inches (2438 mm) height.
			6. Sidelites: As scheduled and indicated on Drawings.
		1. Basis of Design: Grand Marais Smooth Skin Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Door Height: 80 inches (2032 mm).

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

* + - * 1. Doors: Select Collection, flush style.
				2. Doors: Select Collection, two panel style.
				3. Doors: Select Collection, four panel blank top style.
				4. Doors: Select Collection, 3/4 four panel style.
				5. Doors: Select Collection, four panel style.
				6. Doors: Select Collection, six panel style.
				7. Doors: Select Collection, six panel utility style.
				8. Doors: Panel style as scheduled and indicated on Drawings.
			1. Door Height: 96 inches (2438 mm).
				1. Doors: Select Collection, flush style.
				2. Doors: Select Collection, two panel style.
				3. Doors: Select Collection, true four panel style.
				4. Doors: Select Collection, six panel style.
				5. Doors: Panel style as scheduled and indicated on Drawings.
			2. Door Height and Style: As scheduled and indicated on Drawings

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

* + - 1. Sidelites: None.
			2. Sidelites: Six panel style, 80 inches (2032 mm) height.
			3. Sidelites: Flush style, 80 inches (2032 mm). 96 inches (2438 mm) height.
			4. Sidelites: Flush style, 84 inches (2134 mm) height.
			5. Sidelites: Flush style, 96 inches (2438 mm) height.
			6. Sidelites: As scheduled and indicated on Drawings.
		1. Basis of Design: Grand Marais Onelite Series as manufactured by Taylor Entrance Systems.

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

* + - 1. Doors: Flush glazed smooth skin style, 80 inches (2032 mm) height.
			2. Doors: Flush glazed smooth skin style, 96 inches (2438 mm) height.
1. EXECUTION
	1. EXAMINATION AND PREPARATION
		1. Prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
		2. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
		3. If substrate preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
		4. Verify that installed frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
	2. INSTALLATION
		1. Install in accordance with manufacturer's instructions and approved submittals.
			1. Install door frames level, plumb, true, and in proper relationship with adjacent materials.
			2. Use concealed shims where necessary for alignment.
			3. Hardware: Refer to Division 8 section for hardware.
	3. TESTING AND ADJUSTING
		1. Factory Finished Doors:
			1. Replace doors that are damaged or do not comply with requirements.
			2. Repair or refinish doors if work complies with requirements and shows no evidence of repair or refinishing.
		2. Adjust hinge sets, locksets and other hardware as recommended by manufacturer. Rehang or replace doors that do not swing or operate freely.
		3. Lubricate using a manufacturer recommended lubricant compatible with door and frame coatings.
	4. 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