SECTION 08 34 00

SPECIALTY DOORS

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\*\* NOTE TO SPECIFIER \*\* Jamison Door Co.; specialty doors.
This section is based on the products of Jamison Door Co., which is located at:55 Jv Jamison DrHagerstown, MD 21741-0070Toll Free Tel: 800-532-3667Tel: 301-733-3100Fax: 301-791-7339Email: [request info (cmb@JamisonDoor.com)](https://arcat.com/rfi?action=email&company=Jamison%252BDoor%252BCo.&message=RE%253A%2520Spec%2520Question%2520(08340jdc)%253A%2520&coid=33422&spec=08340jdc&rep=&fax=301-791-7339)
Web: <https://jamisondoor.com>
 [ [Click Here](https://arcat.com/company/jamison-door-co-33422) ] for additional information.
For over 115 years, Jamison Doors have helped facilitate the movement of goods and personnel like no other company. Quite simply, we offer the widest selection of industrial, specialty, and temperature controlled doors to suit just about every imaginable application. Whether it swings, rolls, slides, or uses state of the art recirculatory air technology, Jamison is dedicated to delivering the performance you need.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Specialty Doors of the following types:
			1. High Speed Roll Up Doors.
			2. HCR Air Doors.
			3. Insulated Cold Storage Doors.
			4. Swing Doors.
	1. RELATED SECTIONS

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

* + 1. Section 08 71 00 - Door Hardware.
		2. Section 13 24 66 - Athletic Rooms.
		3. Division 16 - Electrical service and field wiring.
	1. REFERENCES

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

* + 1. American National Standards Institute and Builders Hardware Manufacturers Association (ANSI/BHMA).
		2. Ingress Protection Code (IP).
		3. M.I.D.
		4. National Electrical Manufacturers Association (NEMA):
			1. NEMA Ratings for Electrical Enclosures.
		5. U.S. Department of Agriculture (USDA).
		6. U.S. Federal Specifications:
			1. Federal Specification L-P-391C - Plastic Sheets, Rods and Tubing, Rigid Cast, Methacrylate.
		7. U.S. Food and Drug Administration (FDA).
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		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.
			5. Include complete list of all insulation materials, adhesive, and sundries to be used for approval.

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

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
		2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
			1. Indicate pertinent dimensions, general construction, component connections and locations, anchorage methods and locations, hardware locations required for field installation, and door installation details.
			2. Furnish wiring diagrams covering electrically operated doors for this work.
	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. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* 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. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	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: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Jamison Door Co., which is located at:55 Jv Jamison DrHagerstown, MD 21741-0070Toll Free Tel: 800-532-3667Tel: 301-733-3100Fax: 301-791-7339Email: [request info (cmb@JamisonDoor.com)](https://arcat.com/rfi?action=email&company=Jamison%252BDoor%252BCo.&message=RE%253A%2520Spec%2520Question%2520(08340jdc)%253A%2520&coid=33422&spec=08340jdc&rep=&fax=301-791-7339);Web: <https://jamisondoor.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 if not required.

* 1. HIGH SPEED ROLL UP DOORS

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

* + 1. Basis of Design: Dynamic-Roll; as manufactured by Jamison Doors.
			1. Door Panel: Fully welded fabric curtain of 35 ounce per yard (1085 grams per meter) PVC, puncture resistant, reinforced with polymer impregnated monofilament polyester fabric.
				1. Curtain side guides to be UHMWPE fully welded to the curtain.
				2. Windows constructed of clear PVC material.
				3. Bottom edge to be soft with wireless fail-safe reversing edge or unroll sensor in header.

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

* + - * 1. Standard Model: Withstands wind loads and pressures up to 30 mph (48 kph).
				2. XL Model: Withstands wind loads and pressures up to 100 mph (161 kph).
			1. Frame:

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

* + - * 1. Material: Galvanized rolled steel shapes.
				2. Material: Stainless steel.
				3. Track: UHMWPE track guides the curtain supported in the steel side frame by springs installed to properly tension the curtain across the opening
			1. Hardware:
				1. Galvanized drum construction
				2. Metal covers and hood match side frame finishes.
			2. Power Drive System and Electrical Components:
				1. Complete power drive system to be motor operated, with heavy duty gear reduction, providing positive operation.
				2. Drive system to be designed to allow door travel up to 100 inches (2540 mm) per second.
				3. Positioning by encoder and digital control board, no limit switches to be used for positioning.
				4. Photo eye provided in frame.

\*\* NOTE TO SPECIFIER \*\* Delete motor mounting options not required.

* + - * 1. Motor Mounting: Left side, inside of frame.
				2. Motor Mounting: Left side, outside of frame.
				3. Motor Mounting: Right side, inside of frame.
				4. Motor Mounting: Right side, outside of frame.
				5. Curtain can be manually raised and lowered in the event of electrical failure. The manual movement of the door is interlocked to the control to prevent automatic door operation when the door is manually operated.
				6. AC drive with integrated logic controller.
				7. Standard control panel enclosure painted galvanized metal.
				8. For standard control systems the gear reducer in the power unit is to be a worm gear type completely contained.
				9. Standard motor to be 2 HP inverter rated available in 208, 230, 460 VAC 3 phase.
			1. Reversing Edge: Door to have a soft bottom edge with fail-safe wireless reversing edge.
			2. Control panel shall be prewired to power unit.
			3. Included Options:

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

* + - * 1. Emergency egress feature with push out egress operation.
				2. Emergency egress feature with T-cut egress operation.
				3. Sight sound safety system with LED lite bars and audible alarm features.
				4. LED countdown timer provides visual indication of countdown or auto-close timer feature.
				5. Stainless steel and polyethylene guide assemblies.
				6. Battery backup feature provides door operation under power loss.
		1. Basis of Design: Frigo2 Dynamicroll; as manufactured by Jamison Doors.
			1. Door Panel: Two separate drums, each with a single curtain, that move together both open and close, creating a dead air space when closed that is then treated with heated fan units.
				1. Fully welded fabric curtain of 35 ounce per yard (1085 grams per meter) PVC, puncture resistant, reinforced with polymer impregnated monofilament polyester fabric.
				2. Curtain side guides to be UHMWPE fully welded to the curtain.
				3. Windows constructed of clear PVC material.
				4. Bottom edge to be soft with wireless fail-safe reversing edge or unroll sensor in header.
			2. Frame:

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

* + - * 1. Material: Galvanized rolled steel shapes.
				2. Material: Stainless steel.
				3. Track: UHMWPE track guides the curtain supported in the steel side frame by springs installed to properly tension the curtain across the opening
			1. Hardware:
				1. Galvanized drum construction
				2. Metal covers and hood match side frame finishes.
			2. Power Drive System and Electrical Components:
				1. Complete power drive system to be motor operated, with heavy duty gear reduction, providing positive operation.
				2. Drive system to be designed to allow door travel up to 100 inches (2540 mm) per second.
				3. Positioning by encoder and digital control board, no limit switches to be used for positioning.
				4. Photo eye provided in frame.

\*\* NOTE TO SPECIFIER \*\* Delete motor mounting options not required.

* + - * 1. Motor Mounting: Left side, outside of frame.
				2. Motor Mounting: Right side, outside of frame.
				3. Curtain can be manually raised and lowered in the event of electrical failure. The manual movement of the door is interlocked to the control to prevent automatic door operation when the door is manually operated.
				4. For standard control systems the gear reducer in the power unit is to be a worm gear type completely contained.
				5. Standard motor to be 2 HP inverter rated available in 208, 230, 460 VAC 3 phase.
				6. Recirculatory Heater: Provides warm air between panels to provide a condensation and frost-free application.

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

Power: 120 VAC, 60 amp.

Power: 208/230 VAC, 30 amp.

Adjustable airflow on intake allows for customized environment based on individual application.

Auxiliary On/Off switch and removable in-take cover allows for variable use application.

* + - 1. Reversing Edge: Door to have a soft bottom edge with fail-safe wireless reversing edge.

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

* + - 1. Control panel shall be prewired to power unit.
			2. Heater cable in side frames shall be prewired.
		1. Basis of Design: Pack Vertical Roll Up Door; as manufactured by Jamison Doors.
			1. Door Panel: Fully welded fabric curtain of 35 ounce per yard (1085 grams per meter) PVC, puncture resistant, reinforced with polymer impregnated monofilament polyester fabric.
				1. Curtain side guides to be UHMWPE fully welded to the curtain.
				2. Windows constructed of clear PVC material.
				3. Wind bars positioned in horizontal PVC pockets.
				4. Bottom edge to be soft and flexible below bottom wind bar.
			2. Frame: Galvanized steel.
			3. Hardware:
				1. Galvanized drum construction
				2. Galvanized steel cover.
			4. Power Drive System and Electrical Components:
				1. Complete power drive system to be motor operated, with heavy duty gear reduction, providing positive operation.
				2. Drive system to be designed to allow door travel up to 40 inches (1016 mm) per second.
				3. Positioning by limit switch control.
				4. Light curtain or photo eye provided in frame, both sides of opening.

\*\* NOTE TO SPECIFIER \*\* Delete motor mounting options not required.

* + - * 1. Motor Mounting: Left side, outside of frame.
				2. Motor Mounting: Right side, outside of frame.
				3. Curtain can be manually raised and lowered in the event of electrical failure. The manual movement of the door is interlocked to the control to prevent automatic door operation when the door is manually operated.
				4. Control panel enclosure is RAL 7035, control card with motor starter, dry contact indication door status, 250 VAC, 10 amp.
				5. For standard control systems the gear reducer in the power unit is to be a worm gear type completely contained.
				6. Standard motor to be IP54 2 HP 60 hertz available in 208, 230, 460 VAC 3 phase.

Fusible disconnect provided.

* + - 1. Reversing Edge:

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

* + - * 1. Light Curtain: IP 67 for doors 8 feet (2438 mm) or larger.
				2. Photo Eye: For doors under 8 feet (2438 mm).
				3. Safety edge.
			1. Control panel shall be prewired to power unit.
		1. Basis of Design: Thermic-Roll Vertical Roll Up Door; as manufactured by Jamison Doors.

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

* + - 1. Series: Insulated Series T.
			2. Series: Grille, Perforated Series G.
			3. Series: Full Vision Series V.
			4. Door Panel: Double wall aluminum panel.
				1. Panel Size: 8.5 inches (216 mm) high by 2.0 inches (51 mm) thick.
				2. Insulated Solid Panel Provides an R-14 for Thermal Resistance
				3. Window Panel: 1/8 inch (3 mm) thick clear polycarbonate with UV and scratch resistant coatings.
				4. Perforated Grille Panel for Airflow, Security and Visibility
				5. Withstands wind loads and pressures up to 120 mph (193 kmh).
			5. Frame:
				1. Vertical Support Frame: Heavy duty galvanized construction.
				2. Covers and Hoods: Galvanized.
				3. Track and Guide System: UHMW, provides tight seal and smooth operation.
			6. Power Drive System and Electrical Components:
				1. Heavy Duty 3-HP Motor available in 208, 230, 460 VAC 3 phase.
				2. Drive system provides door speeds up to 60 inches (1524 mm) per second open and 20 inches (508 mm) per second close.
				3. Springless system provide minimum million cycle capability.
				4. AC Drive Digital Microprocessor Control Panel with integrated logic controller for easy set up. Control panel enclosure NEMA 4X or NEMA 12.
				5. Door Positioning by absolute encoder and digital control board for easy set up.
				6. Light Grid: 8 feet (2438 mm) high, multi-beam, reversing light grid.

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

* + - * 1. Light Bars: Led indicator light bars for visual safety and communication.
				2. Soft Rubber bottom profile for tight seal to floor.
				3. Floor accessible manual chain-fall operation. The manual movement of the door is interlocked to the control panel to prevent automatic door operation when the door is manually operated.
				4. Patented coil design in high density polyethylene provides multiple header configurations providing smooth operation with no wear parts.
			1. Control panel shall be prewired to power unit.
		1. Door Leaf Finish:

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

* + - 1. Puncture resistant, reinforced PVC.

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

* + - * 1. Color: White.
				2. Color: Yellow.
				3. Color: Orange.
				4. Color: Red.
				5. Color: Blue.
				6. Color: Light Gray.
				7. Color: Dark Gray.
			1. Painted Aluminum.

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

* + - * 1. Color: RAL 9006.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.

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

* 1. HCR AIR DOORS

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

* + 1. Basis of Design: Model 3CAV Recirculatory Air Door Vestibule; as manufactured by Jamison Doors.
			1. Description: Three single recirculatory air doors designed to work together as a system.

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

* + - 1. Freezer Doors: Temperature differential greater than 40 degrees F (22 degrees C), provide insulated door.
			2. Material: Powder coated cold-rolled steel.
			3. Control Panel: NEMA 1 rated equipment cabinet houses centrifugal fan and prewired electrical components.
			4. Motor: Controlled by variable frequency drive.
			5. Plenums: Three with discharge nozzle and three with intake.
			6. Discharge Nozzle: Easily adjustable to maximize air block.
			7. Assembly: Structurally self-supported.
			8. Power:
				1. Door power to be 208, 240, or 480 volt AC, 60 Hz, 3 phase.
				2. Visible signal light to indicate motor is running.
				3. Complete door assembly ready for connection to power.
			9. Included Options:

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

* + - * 1. Stainless steel finish.
				2. Provide cleanouts as indicated.
				3. Door to meet NEMA 3 requirements.
				4. Door to meet NEMA 4 requirements.
				5. Door to meet NEMA 4x requirements.
				6. Door to meet NEMA 4x stainless requirements.
				7. Door to meet NEMA 12 requirements.
				8. Use hot gas coil instead of resistive heat.
				9. Provide custom standoff panels with trim.
				10. To be used in conjunction with existing or new door to form a hybrid solution.

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

* + - 1. Color: As indicated on Drawings.
			2. Color: To be selected by Architect.
			3. Color: \_\_\_\_\_.
		1. Basis of Design: Model AC and CAC Recirculatory Air Door; as manufactured by Jamison Doors.

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

* + - 1. Model AC: For doorways with low temperature differential.
			2. Model CAC: For doors with temperature differential below 30 degrees F (17 degrees C). Provide insulated door.
			3. Material: Powder coated cold-rolled steel.
			4. Control Panel: NEMA 1 rated equipment cabinet houses centrifugal fan and prewired electrical components.
			5. Motor: Controlled by variable frequency drive.
			6. Plenums: One with discharge nozzle and one with intake.
			7. Discharge Nozzle: Easily adjustable to maximize air block.
			8. Assembly: Structurally self-supported.
			9. Power:
				1. Door power to be 208, 240, or 480 volt AC, 60 Hz, 3 phase.
				2. Visible signal light to indicate motor is running.
				3. Complete door assembly ready for connection to power.
			10. Included Options:

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

* + - * 1. Stainless steel finish.
				2. Provide cleanouts as indicated.
				3. Door to meet NEMA 3 requirements.
				4. Door to meet NEMA 4 requirements.
				5. Door to meet NEMA 4x requirements.
				6. Door to meet NEMA 4x stainless requirements.
				7. Door to meet NEMA 12 requirements.
				8. Use hot gas coil instead of resistive heat.
				9. Provide custom standoff panels with trim.
				10. To be used in conjunction with existing or new door to form a hybrid solution.

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

* + - 1. Color: As indicated on Drawings.
			2. Color: To be selected by Architect.
			3. Color: \_\_\_\_\_.
		1. Basis of Design: Model DCAV Recirculatory Air Vestibule; as manufactured by Jamison Doors.
			1. Description: Double conditioned air curtain vestibule.

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

* + - 1. Freezer Doors: Temperature differential greater than 30 degrees F (17 degrees C), provide insulated door.
			2. Material: Powder coated cold-rolled steel.
			3. Control Panel: NEMA 1 rated equipment cabinet houses centrifugal fan and prewired electrical components.
			4. Motor: Controlled by variable frequency drive.
			5. Plenums: Two with discharge nozzle and two with intake.
			6. Discharge Nozzle: Easily adjustable to maximize air block.
			7. Assembly: Structurally self-supported.
			8. Power:
				1. Door power to be 208, 240, or 480 volt AC, 60 Hz, 3 phase.
				2. Visible signal light to indicate motor is running.
				3. Complete door assembly ready for connection to power.
			9. Included Options:

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

* + - * 1. Stainless steel finish.
				2. Provide cleanouts as indicated.
				3. Door to meet NEMA 3 requirements.
				4. Door to meet NEMA 4 requirements.
				5. Door to meet NEMA 4x requirements.
				6. Door to meet NEMA 4x stainless requirements.
				7. Door to meet NEMA 12 requirements.
				8. Use hot gas coil instead of resistive heat.
				9. Provide custom standoff panels with trim.
				10. To be used in conjunction with existing or new door to form a hybrid solution.

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

* + - 1. Color: As indicated on Drawings.
			2. Color: To be selected by Architect.
			3. Color: \_\_\_\_\_.

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

* 1. INSULATED COLD STORAGE DOORS

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

* + 1. Basis of Design: Mark IV Horizontal Sliding Power Operated Door; as manufactured by Jamison Doors.

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

* + - 1. Configuration: Bi-Parting.
			2. Configuration: Single Leaf.
			3. Materials:
				1. Door Leaf Structure: Extruded aluminum.
				2. Door Leaf Cladding: 26 gauge white, pre-painted, stucco embossed steel.
				3. Frame: Aircraft quality aluminum extrusions with white painted finish.
				4. Door Leaf Insulation: 4 inches (102 mm) of non-CFC polyurethane foam with an R-value of 28.
				5. Frame Insulation: Polystyrene inserts.
			4. Reversing Edge: Low profile pneumatic reversing edge, effective full height and full travel of door.
			5. Gaskets:
				1. Sides and Head: Adjustable gaskets.
				2. Sill: Sweep type.
			6. Hardware with protective coating against corrosion.

\*\* NOTE TO SPECIFIER \*\* Heater cables are for freezer doors. Delete if not required.

* + - 1. Heater Cables: Top, sides, lead edges, and bottom of door.
			2. Controls: Two remote control, spring-cushioned, low voltage pull switches.
			3. Power:
				1. Door power to be 208, 240, or 480 volt AC, 60 Hz, 3 phase.
				2. Power operator to have all gear drive.
				3. All power controls fully enclosed in NEMA 1 control boxes.
				4. Visible signal light to indicate motor is running.
				5. Complete door assembly ready for connection to power.
			4. Included Options:

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

* + - * 1. Stainless steel door leaf cladding.
				2. Aluminum door leaf cladding.
				3. Galvanized steel door leaf cladding.
				4. Painted galvanized steel door leaf cladding.
				5. Padlock provisions on front of door with safety release on opposite side.
				6. Padlock provisions on back of door with safety release on opposite side.
				7. Insulation: 6 inches (152 mm) at freezer door.
				8. Pedestrian Opening: 36 inches (914 mm) wide with automatic closing.
				9. Electric eye or motion detection to protect door from truck passage.
				10. Radio control operation from lift truck, 1 button.
				11. Radio control operation from lift truck, 2 button.
				12. Radio control operation from lift truck, 4 button.
				13. Power components to connect to 120 VAC, 60 Hz, 1 phase.
				14. Swinging wicket door.
				15. Door to meet NEMA 3 requirements.
				16. Door to meet NEMA 4 requirements.
				17. Door to meet NEMA 4x requirements.
				18. Door to meet NEMA 12 requirements.
				19. Electrical reversing edge.
				20. Dual speed operation.
				21. Hydraulic operator.
				22. M.I.D. requirements.
				23. View Window:

Size: 12 x 14 inches (305 x 356 mm).

Sealed glass unit.

Cooler Door: 2 layer, 1 inch (25 mm) thick.

Freezer Door: 3 layer, 1 inch (25 mm) thick with 120 VAC heat film.

* + - * 1. Jambs.
				2. Inside trim.
				3. Mirror image frame.
				4. Floor loop.
				5. Push button operation, single button.
				6. Push button operation, three button.
		1. Basis of Design: Plyfoam Swinging Cooler and Freezer Door; as manufactured by Jamison Doors.

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

* + - 1. Configuration: Single Swinging.
			2. Configuration: Double Swinging.
			3. Materials:
				1. Door Leaf: 26 gauge white, pre-painted, stucco embossed steel with front and back reinforcement for hardware attachment.
				2. Frame: Clad with 26 gauge white, pre-painted, stucco embossed steel.
				3. Insulation: 4 inches (102 mm) of non-CFC polyurethane foam with an R-value of 28.
			4. Gaskets:
				1. Sides and Head: Grease resistant synthetic skin with resilient sponge core.
				2. Sill: Sweep type.
			5. Hardware:
				1. Protective coating against corrosion.
				2. Adjustable spring hinges.
				3. Safety release type fastener.

\*\* NOTE TO SPECIFIER \*\* Delete freezer door requirements if not required.

* + - 1. Freezer Doors:
				1. Metal cladding on warm side of door and frame to be applied with all seams and penetrating bolts sealed.
				2. Heater Cables: At sides, head, and sill.
				3. Ready for connection to 120 VAC, 60 Hz, single phase power.
			2. Included Options:

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

* + - * 1. Stainless steel door leaf cladding.
				2. Aluminum door leaf cladding.
				3. Galvanized steel door leaf cladding.
				4. Painted galvanized steel door leaf cladding.
				5. Kickplates at door.
				6. Kickplates at frame.
				7. Meat Processing Plants: Metal cladding to be applied per M.I.D. requirements.
				8. Deep jambs and inside trim.
				9. Insulation: 6 inches (152 mm) at freezer door.
				10. Door closer.
				11. View Window:

Size: 12 x 14 inches (305 x 356 mm).

Sealed glass unit.

Cooler Door: 2 layer, 1 inch (25 mm) thick.

Freezer Door: 3 layer, 1 inch (25 mm) thick with 120 VAC heat film.

* + 1. Basis of Design: Plyfoam Swinging Track Cooler and Freezer Door; as manufactured by Jamison Doors.
			1. Materials:
				1. Door Leaf: 26 gauge white, pre-painted, stucco embossed steel with front and back reinforcement for hardware attachment.
				2. Frame: Clad with 26 gauge white, pre-painted, stucco embossed steel.
				3. Insulation: 4 inches (102 mm) of non-CFC polyurethane foam with an R-value of 28.
				4. All metal cladding to be applied in accordance with M.I.D., USDA regulations.
			2. Gaskets:
				1. Sides and Head: Grease resistant synthetic skin with resilient sponge core.
				2. Sill: Sweep type.
			3. Hardware:
				1. Protective coating against corrosion.
				2. Adjustable spring hinges.
				3. Safety release type fastener.

\*\* NOTE TO SPECIFIER \*\* Delete freezer door requirements if not required.

* + - 1. Freezer Doors:
				1. Metal cladding on warm side of door and frame to be applied with all seams and penetrating bolts sealed.
				2. Heater Cables: At sides, head, and sill.
				3. Ready for connection to 120 VAC, 60 Hz, single phase power.
			2. Included Options:

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

* + - * 1. Stainless steel door leaf cladding.
				2. Aluminum door leaf cladding.
				3. Galvanized steel door leaf cladding.
				4. Painted galvanized steel door leaf cladding.
				5. Kickplates at door.
				6. Kickplates at frame.
				7. Deep jambs and inside trim.
				8. Door closer.
				9. View Window:

Size: 12 x 14 inches (305 x 356 mm).

Sealed glass unit.

Cooler Door: 2 layer, 1 inch (25 mm) thick.

Freezer Door: 3 layer, 1 inch (25 mm) thick with 120 VAC heat film.

* + 1. Basis of Design: Plyfoam Swinging Package Passing Cooler and Freezer Door; as manufactured by Jamison Doors.
			1. Materials:
				1. Door Leaf: 26 gauge white, pre-painted, stucco embossed steel with front and back reinforcement for hardware attachment.
				2. Frame: Clad with 26 gauge white, pre-painted, stucco embossed steel.
				3. Insulation: 4 inches (102 mm) of non-CFC polyurethane foam with an R-value of 28.
			2. Gaskets: Grease resistant synthetic skin with resilient sponge core at four sides.
			3. Hardware:
				1. Protective coating against corrosion.
				2. Two ball bearing strap hinges.
				3. Single point wedge type fastener on front of door.

\*\* NOTE TO SPECIFIER \*\* Delete freezer door requirements if not required.

* + - 1. Freezer Doors:
				1. Metal cladding on warm side of door and frame to be applied with all seams and penetrating bolts sealed.
				2. Heater Cables: At sides, head, and sill.
				3. Ready for connection to 120 VAC, 60 Hz, single phase power.
			2. Included Options:

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

* + - * 1. Stainless steel door leaf cladding.
				2. Aluminum door leaf cladding.
				3. Galvanized steel door leaf cladding.
				4. Painted galvanized steel door leaf cladding.
				5. Back operation.
				6. Padlock provisions on front of door with locking pin for fastener.
				7. Padlock provisions on back of door with spring loaded slide bolt.
				8. Meat Processing Plants: Metal cladding to be applied per M.I.D. requirements.
				9. Insulation: 6 inches (152 mm) at freezer door.
				10. Double strip curtains, one set mounted in jambs behind cold storage door.
				11. Double strip curtains, two curtains mounted in jambs behind cold storage door.
				12. View Window:

Size: 12 x 14 inches (305 x 356 mm).

Sealed glass unit.

Cooler Door: 2 layer, 1 inch (25 mm) thick.

Freezer Door: 3 layer, 1 inch (25 mm) thick with 120 VAC heat film.

* + 1. Basis of Design: Plyfoam II Swinging Cooler and Freezer Door; as manufactured by Jamison Doors.
			1. Materials:
				1. Door Leaf: 26 gauge white, pre-painted, stucco embossed steel with front and back reinforcement for hardware attachment.
				2. Frame: Clad with 26 gauge white, pre-painted, stucco embossed steel.
				3. Insulation: 4 inches (102 mm) of non-CFC polyurethane foam with an R-value of 28.
			2. Gaskets:
				1. Sides and Head: Grease resistant synthetic skin with resilient sponge core.
				2. Sill: Sweep type.
			3. Hardware:
				1. Protective coating against corrosion.
				2. Self-rising hinges.
				3. Safety release type fastener.

\*\* NOTE TO SPECIFIER \*\* Delete freezer door requirements if not required.

* + - 1. Freezer Doors:
				1. Metal cladding on warm side of door and frame to be applied with all seams and penetrating bolts sealed.
				2. Heater Cables: At sides, head, and sill.
				3. Ready for connection to 120 VAC, 60 Hz, single phase power.
			2. Included Options:

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

* + - * 1. Stainless steel door leaf cladding.
				2. Aluminum door leaf cladding.
				3. Galvanized steel door leaf cladding.
				4. Painted galvanized steel door leaf cladding.
				5. Kickplates at door.
				6. Kickplates at frame.
				7. Meat Processing Plants: Metal cladding to be applied per M.I.D. requirements.
				8. Deep jambs and inside trim.
				9. Insulation: 6 inches (152 mm) at freezer door.
				10. Door closer.
				11. View Window:

Size: 12 x 14 inches (305 x 356 mm).

Sealed glass unit.

Cooler Door: 2 layer, 1 inch (25 mm) thick.

Freezer Door: 3 layer, 1 inch (25 mm) thick with 120 VAC heat film.

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

* 1. SWING DOORS

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

* + 1. Basis of Design: Jamoclear Swinging See-Thru Plastic Cooler Door; as manufactured by Jamison Doors.
			1. Materials:
				1. Door Panel: 1 inch (25 mm) thick clear transparent cast acrylic, Type 1, Grade A in accordance with Federal Specification L-P-391C.
				2. Toe Plate: 16 gauge stainless steel, front and back.
				3. Frame Cladding: 24 gauge stainless steel.
			2. Gaskets:
				1. Side and Head of Frame: Special extruded synthetic rubber.
				2. Sill: Sweep type.
			3. Hardware: Chrome-plated.
				1. Hinges: Three hinges.
				2. Closer: Top mounted.
				3. Pull: Stainless steel, 5 feet (1524 mm) long.
				4. Push Plate: 16 gauge stainless steel.
			4. Designed for cooler operation with temperatures above 33 degrees F (0.6 degrees C) with door mounted on warm side of wall.
			5. Included Options:

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

* + - * 1. Frame Protection: Frame protected with 16 gauge stainless steel kickplates.
				2. Locking Provision: Lock on back of door with thumb turn on back and cylinder on front of door.
				3. Deep jambs.
				4. Inside trim.
		1. Basis of Design: Jamocor Corrosion Resistant Architectural Style Fiberglass Reinforced Plastic Doors and Frames; as manufactured by Jamison Doors.
			1. Components:
				1. Door Plates: Molded 1/8 inch (3 mm) plates with 25 mil (0.6 mm) gelcoat:

\*\* NOTE TO SPECIFIER \*\* Delete specialty resin options not required.

Specialty Resins: For corrosion resistance.

Specialty Resins: For fire resistance.

Specialty Resins: For FDA performance.

* + - * 1. Insulating core.
				2. Fiberglass Edges: Nominal 3/8 inch (9.5 mm) thick, molded to door face plates.
				3. Stiffener Reinforcements: 3/8 inch (9.5 mm) solid internal FRP reinforcements molded in place at hinge and latch as required.
				4. Frames: FRP structural pultrusions comparable in strength to 16 gauge hollow metal frames.

Jamb to header joints mitered and reinforced.

Minimum Thickness: 3/16 inch (4.8 mm).

Face Width: 2 inches (51 mm).

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

* + - * 1. Hardware: Meeting ANSI BHMA Grade 1, factory furnished and installed.
				2. Hardware: Factory preparations for hardware furnished by others.

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

* + - 1. Configuration: Single door.
			2. Configuration: Double door.

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

* + - 1. Fiberglass Finish: White.
			2. Fiberglass Finish: Gray.
			3. Included Options:

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

* + - * 1. Stainless steel ball bearing hinges.
				2. Hardware:

Material: Chrome.

Material: Stainless steel.

Function: Locking.

Function: Passage.

Trim: Lever.

Trim: Panic bars.

Trim: Push and pull.

* + - * 1. Kickplates: Stainless steel

Width: 2 inches (51 mm) less than door width.

Height: 10 inches (254 mm).

Height: 18 inches (458 mm).

Height: 24 inches (610 mm).

Height: 36 inches (914 mm).

* + - * 1. Head and jamb gasketing.
				2. Door bottom sweeps.
				3. Thresholds.
				4. View Windows:

Molding: Polymer.

Molding: Stainless steel.

Glazing: Single pane safety glass.

Glazing: Double pane safety glass.

Glazing: Single pane polycarbonate.

Glazing: Double pane polycarbonate.

Size: 6 x 30 inches (152 x 762 mm).

Size: 12 x 12 inches (305 x 305 mm).

Size: 18 x 18 inches (458 x 458 mm).

Size: 24 x 24 inches (610 x 610 mm).

Size: 24 x 30 inches (610 x 762 mm).

* + - * 1. Core: Polypropylene honeycomb.
				2. Core: Balsa wood.
				3. Transom Panels: Same construction as door panel.
				4. Door: Stainless steel.

Thickness: 16 gauge.

Thickness: 14 gauge.

Type 304.

Type 316.

Fire Rated: Rating as indicated on Drawings.

Fire Rated: \_\_\_\_\_\_.

* + - * 1. Frame: Stainless steel.

Thickness: 16 gauge.

Thickness: 14 gauge.

Type 304.

Type 316.

Knockdown.

Face welded.

Fully welded.

Fire Rated: Rating as indicated on Drawings.

Fire Rated: \_\_\_\_\_\_.

* + 1. Basis of Design: Jamoclean Clean and Hygienic Architectural Style Stainless Steel Doors and Frames; as manufactured by Jamison Doors.
			1. Components:
				1. Doors: Stainless steel sheet:

\*\* NOTE TO SPECIFIER \*\* Delete thickness and type options not required.

Thickness: 16 gauge.

Thickness: 14 gauge.

Type 304.

Type 316.

Finish: No. 4 finish.

Reinforced with stainless steel channels at edges.

Seam welded edges, ground and polished.

Mortise provisions and reinforcements for specified hardware.

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

* + - * 1. Core: Honeycomb.
				2. Core: Foam.
				3. Frames: Stainless steel hollow profile frames.

\*\* NOTE TO SPECIFIER \*\* Delete thickness and type options not required.

Thickness: 16 gauge.

Thickness: 14 gauge.

Type 304.

Type 316.

Finish: No. 4 finish.

Jamb to header joints mitered and reinforced.

Face Width:

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

Header Face: 2 inches (51 mm).

Header Face: 4 inches (102 mm).

Header Face: \_\_\_\_\_.

Jamb Face: 2 inches (51 mm).

Jamb Face: \_\_\_\_\_.

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

* + - * 1. Hardware: Meeting ANSI/BHMA Grade 1, factory furnished.
				2. Hardware: Factory preparations for hardware furnished by others.
			1. Included Options:

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

* + - * 1. Stainless steel ball bearing hinges.
				2. Hardware:

Material: Chrome.

Material: Stainless steel.

Function: Locking.

Function: Passage.

Trim: Lever.

Trim: Panic bars.

Trim: Push and pull.

* + - * 1. Kickplates: Stainless steel

Width: 2 inches (51 mm) less than door width.

Height: 10 inches (254 mm).

Height: 18 inches (458 mm).

Height: 24 inches (610 mm).

Height: 36 inches (914 mm).

* + - * 1. Head and jamb gasketing.
				2. Door bottom sweeps.
				3. Thresholds.
				4. View Windows:

Molding: Stainless steel.

Glazing: Single pane safety glass.

Glazing: Double pane safety glass.

Glazing: Single pane polycarbonate.

Glazing: Double pane polycarbonate.

Size: 6 x 30 inches (152 x 762 mm).

Size: 12 x 12 inches (305 x 305 mm).

Size: 18 x 18 inches (458 x 458 mm).

Size: 24 x 24 inches (610 x 610 mm).

Size: 24 x 30 inches (610 x 762 mm).

* + - * 1. Frame: Knockdown.
				2. Frame: Fully welded.
				3. Transom Panels: Same construction as door panel.
				4. Borrowed Lite: Same construction as door frame.
				5. Sidelite: Same construction as door frame.
				6. Fire Rated: Rating as indicated on Drawings.
				7. Fire Rated: \_\_\_\_\_\_.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. Ensure openings affecting this work are properly prepared per the installation 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 the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
			1. Install frames plumb and square, in correct locations indicated on drawings and with a maximum diagonal distortion of 1/8 inch (3 mm).
			2. Ensure frames are securely and rigidly anchored to adjacent construction.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with 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.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION