SECTION 081713 – INTEGRATED DOOR ASSEMBLIES

GENERAL

SUMMARY

Provide the work of this Section in accordance with requirements of the Contract Documents.

Section includes hollow-metal work.

Integrated door opening assemblies with doors, operating hardware and accessories for a complete assembly.

Related Requirements:

Division 08 Section “Hollow metal Door and Frames” for frames
Division 08 Section "Flush Wood Doors" for wood door construction
Division 08 Section "Door Hardware" for door hardware.
Division 08 Section "Glazing" for glazed lites.
Division 09 Section "Painting" for field painting
Division 26 Sections for electrical connections including conduit and wiring for door controls, security door contacts, and operators.
Division 28 Sections for Security requirements.

DEFINITIONS

Minimum Thickness: Minimum thickness of base metal without coatings according SDI A250.8.

Standard Hollow Metal Work: Hollow metal work fabricated according to ANSI/SDI A250.8

PREINSTALLATION MEETINGS

Pre-installation Meetings: Conduct conferences at Project site.

Review required field quality-control procedures.
Review procedures for coordinating frame and anchor installation with wall construction.

ACTION SUBMITTALS

Product Data: For each type of product.

Include door and frame designation, type, level, and model, material descriptions, core descriptions, label compliance, fire-resistance ratings, temperature rise rating, sound ratings, and finishes and installation instructions.

LEED Action Submittals:

Building Product Disclosure and Optimization:

Leadership Extraction Practices

Extended Producer Responsibility (EPR): Submit documentation indicating that manufacturers have a take back or recycling program for the product purchased.
Recycled Content: For products having recycled content, indicate percentages by weight of post-consumer and pre-consumer recycled content.

Include statement indicating costs for each product having recycled content.

Sourcing of Raw Materials: For products that are required to comply with requirements for regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material.

Include statement indicating distance to Project, cost for each regional material and the fraction by weight that is considered regional.

Indoor Environmental Quality, Low Emitting Materials: Building Products must be tested and compliant with the California Department of Public-Health (CDPH) Standard Method V1.1-2010, using the applicable exposure scenario.

For paints, and coatings, wet applied, include printed statement of VOC content, showing compliance with the applicable VOC limits of the California Air Resources Board (CARB) 2007, Suggested Control Measure for Architectural Coatings or the South Coast Air Quality Management District (SCAQMD) Rule 113-2011.
Alternative tests for VOC above include ASTM D2369-10; ISO 11890 part 1; ASTM D6886-03; or ISO 11890-2.
Methylene Chloride and perchloroethylene may not be added to paints, coating, adhesive or sealants

Shop Drawings: Submit shop drawings including

Elevations of each door type, details of construction
Details of each door, including handing of doors, vertical and horizontal edge details and metal thickness.
Details of each frame type, including opening sizes, and frame throat dimensions
Location of door hardware and reinforcements, hardware group numbers,
Details of joints, anchorages, field splices and connections,
Fire label requirements including fire rating time duration, maximum temperature rise requirements and smoke label requirements.
Details of accessories, moldings, removable stops, and glazing coordinated with glass and glazing requirements.
Electric rough in requirements including

Details of conduit and preparations for power, signal, and control systems.
Routing of electrical conduit for electric hardware and devices.

Security System Components: Indicate all cutouts required to door and frame components to accept security system components.

Coordination Drawings: Drawings of each opening, including door and frame, drawn to scale and coordinating door hardware. Show elevations of each door design type, showing dimensions, locations of door hardware, and preparations for power, signal, and electrified control systems

Samples for Initial Selection: For units with factory-applied color finishes.

Samples for Verification:

For each type of exposed finish required, prepared on Samples of not less than 3 by 5 inches (75 by 127 mm).
For "Doors" subparagraphs below, prepare corner samples approximately 8 by 10 inches (203 by 254 mm) to demonstrate compliance with requirements for quality of materials and construction:

Doors: Show vertical-edge, top, and bottom construction; core construction; and hinge and other applied hardware reinforcement. Include separate section showing glazing if applicable.

Schedule: Submit a door and frame schedule prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final Door Hardware Schedule.

INFORMATIONAL SUBMITTALS

Qualification Data: For Installer and manufacturer.

Product Test Reports: For each type of door and frame assembly, for tests performed by a qualified testing agency.

Certificate of Compliance for Fire Rated Doors: Provide copies of testing agency's Certificate of Compliance for all fire rated door assemblies, all smoke and draft control door assemblies, and all temperature rise rated door assemblies.

Oversize Construction Certification: For assemblies required to be fire rated and exceeding limitations of labeled assemblies.

LEED Informational Submittals:

Building Product Disclosure and Optimization - Environmental Product Declarations

Submit product specific type III EPDs or Industry wide (generic) EPDs, USGBC approved program declaration or products with a publicly available, critically reviewed life-cycle assessment conforming to ISO 14044 that have at least a cradle to gate scope.

Building Product Disclosure and Optimization - Sourcing of Raw Materials:

Raw Material Sources and Extraction Reporting: Submit Raw materials supplier corporate Sustainability Reports (CSRs); documenting responsible extraction; including extraction locations, long term ecologically responsible land use, commitment to reducing environmental harms from extraction and manufacturing processes, and a commitment to meeting applicable standards or programs that address responsible sourcing criteria

Submit manufacturers' self-declared reports
Submit third party verified corporate sustainability reports (CSR) using one of the following frameworks"

Global Reporting Initiative (GRI) Sustainability Report
Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises
UN Global Compact
ISO 26000
USGBC approved program.

Building Product Disclosure and Optimization - Material Ingredients

Material Ingredient Optimization: Submit manufacturer's Environmental Product Declaration (EPD) and at least one of the following:

GreenScreen V1.2 Benchmark: Third party report prepared by a licensed GreenScreen List Translator, or a full GreenScreen Assessment.
Cradle to Cradle: Manufacturer's published literature for the product bearing the Cradle to Cradle logo.
International Alternative Compliance Path - REACH Optimization
Declare: Manufacturer's completed Product Declaration Form
Other programs approved by USGBC

Product Manufacturer Supply Chain Optimization: Submit documentation from manufacturers for products that go beyond material ingredient optimization as follows:

Are sourced from product manufacturers who engage in validated and robust safety, health, hazard, and risk programs which at a minimum document at least 99% (by weight) of the ingredients used to make the building product or building material, and
Are sourced from product manufacturers with independent third party verification of their supply chain that at a minimum verifies:

Processes are in place to communicate and transparently prioritize chemical ingredients along the supply chain according to available hazard, exposure and use information to identify those that require more detailed evaluation
Processes are in place to identify, document, and communicate information on health, safety and environmental characteristics of chemical ingredients
Processes are in place to implement measures to manage the health, safety and environmental hazard and risk of chemical ingredients
Processes are in place to optimize health, safety and environmental impacts when designing and improving chemical ingredients
Processes are in place to communicate, receive and evaluate chemical ingredient safety and stewardship information along the supply chain
Safety and stewardship information about the chemical ingredients is publicly available from all points along the supply chain.

Sample Warranty: For manufacturer's special warranties.

QUALITY ASSURANCE

Manufacturer Qualifications: Firm with not less than 5 years successful experience in fabrication of integrated door opening assemblies of the type required for this Project. Manufacturer shall provide field service representative during installation. A member of the Steel Door Institute (SDI).

Installer: An entity that employs installers and supervisors who are trained and approved by the manufacturer.

Regulatory Requirements

Steel Door and Frame Standard: Comply with ANSI A 250.8, unless more stringent requirements are indicated.
Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 252.

Provide metal labels permanently fastened on each door which is within the size limitations established by the labeling authority having jurisdiction.
Temperature-Rise Rating: Where indicated, provide doors that have a temperature-rise rating of 450 deg F (250 deg C) maximum in 30 minutes of fire exposure.

Blast resistant door assemblies shall have been tested to meet requirements for low range blast, not more than 180 pounds per square foot in accordance with ASTM F2247.

Reference Standards:

American National Standards Institute

ANSI/BHMA A156.3 – Exit Devices, American National Standards Institute/ Building Hardware Manufacturers Association1.
ANSI/BHMA A156.4 – Closers, American National Standards Institute/ Building Hardware Manufacturers Association.
ANSI/BHMA A156.13 – Mortise Locks/Latches, American National Standards Institute/ Building Hardware Manufacturers Association.
ANSI/BHMA A156.26 – Continuous Hinges, American National Standards Institute/ Building Hardware Manufacturers Association.
ANSI/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames, American National Standards Institute/Steel Door Institute.
ANSI/UL 10C Positive Pressure Fire Tests of Door Assemblies, American National Standards Institute/Underwriters Laboratories.

American Standards Testing and Measurement

ASTM A1008 - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability, American Society of Testing and Materials.

American Woodwork Institute

Architectural Woodwork Quality Standards**;** Architectural Woodwork Institute.

National Fire Protection Association

NFPA 101 – Life Safety Code, National Fire Protection Association.
NFPA 252 - Standard Methods of Fire Tests of Door Assemblies, National Fire Protection Association, 2003.

Steel Door Institute

SDI 111 A - Recommended Steel Door Frame Details, Steel Door Institute.
SDI 112 - Zinc-Coated (Galvanized/Galvannealed) Standard Steel Doors and Frames, Steel Door Institute.

Underwriters laboratory

UL 305 - Standard for Panic Hardware, Underwriters Laboratories Inc..
UL 1784 – Air Leakage Tests for Door Assemblies, Underwriters Laboratories Inc., (for elevator shaft & lobby applications).

DELIVERY, STORAGE, AND HANDLING

Deliver integrated door opening assemblies to site in original unopened packaging, palletized or crated to provide protection during transit and Project site storage. Provide labels identifying system manufacturers name, and brand, and clearly marked for each opening.

Store integrated door opening assemblies in a clean, dry well-ventilated area having controlled temperature and relative humidity range between 30 and 60 percent. Stack doors horizontally on level surface not less than 2 inches off the floor to prevent warpage.

Use a manufacturer authorized distributor to receive, off-load, and distribute on site by an authorized distributor unless otherwise stipulated by contract.

PROJECT CONDITIONS

Field Measurements: Verify openings by field measurements before fabrication and indicate measurements on Shop Drawings.

Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating custom steel frames without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to established dimensions.

Do not bring door systems to site until building temperature and humidity ranges are compatible with recommended values for preservation of wood moisture content as listed by AWI AWQS. Building shall be stabilized at 30 to 60 percent humidity.

COORDINATION

Coordinate anchorage installation for integrated door opening assemblies. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

Coordinate installation and activation of the security system with the fire alarm system and integrated doors and frames as required.

WARRANTY

Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of integrated door opening assemblies that fail in materials or workmanship within the specified warranty period.

Failures include, but are not limited to the following:

Faulty operation
Defects in material and workmanship
Deterioration of metals, metal finishes or other materials beyond normal use.

Warranty Period:

5-year warranty for doors and frames
Lifetime warranty for hardware, including locksets, hanging devices and panic exit devices.

Unfinished wood veneers on metal doors are subject to atmospheric changes and moisture collection and shall be finished within 10 days from factory ship date or warranty on lamination is made void.

PART 2 - PRODUCTS

MANUFACTURERS

Manufacturers: Subject to compliance with requirements provide integrated door assemblies by the following:

Total Door: www.totaldoor.com.

Hardware

Total Door: www.totaldoor.com

Source Limitations: Obtain hollow-metal work from single source from single manufacturer.

PERFORMANCE REQUIREMENTS

Performance Requirements

Certified to BHMA – A156.32, Integrated Door Opening Assemblies, 2015.
Integrated door opening assemblies: Exceed minimum performance standards.

Steel Doors: In accordance with ANSI/SDI A250.8, Grade 1, but not less than 5,000,000 cycles.
Exit Devices: In accordance with ANSI/BHMA A156.3, Grade 1, but not less than 5,000,000 cycles.
Closers: In accordance with ANSI/BHMA A156.4, Grade 1.
Mortise Locks/Latches: In accordance with ANSI/ BHMA A156.13, Grade 1, but not less than 5,000,000 cycles.
Full-height Hinges: In accordance with ANSI/ BHMA A156.26, Grade 1, but not less than 5,000,000 cycles.

REGULATORY REQUIREMENTS

Fire-Rated Assemblies: Complying with NFPA 80 and listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings[indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.

Provide anchors for labeled frames as required by New Jersey Building Code.

Smoke- and Draft-Control Assemblies: Provide an assembly with gaskets listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105.

Oversize Fire-Rated Door Assemblies: For units exceeding sizes of tested assemblies, provide certification by a testing agency acceptable to authorities having jurisdiction that doors comply with standard construction requirements for tested and labeled fire-protection-rated door assemblies except for size.

Fire-Rated, Borrowed-Light Assemblies: Complying with NFPA 80 and listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for fire-protection ratings indicated, based on testing according to NFPA 257 or UL 9.

INTERIOR DOORS AND FRAMES

Construct interior doors and frames to comply with the standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.

Extra-Heavy-Duty Doors and Frames: SDI A250.8, Level 3. Provide at door types OPD1, PPD1, PPD2.

Physical Performance: Level A according to SDI A250.4.

Integrated Door Assembly:

Type: Provide Pairs and Double Egress doors as indicated in the Door and Frame Schedule.
Thickness: 1-3/4 inches (44.5 mm).
Face: Steel, stretcher leveled, without seams or spot welds, galvannealed 20 gauge.
Edge Construction: Model 2, Seamless.
Stiles: Steel, galvannealed, 16-gauge, spot welded.
Top and Bottom Rails: 5-1/2 inch 18 gauge steel rails.
Cores:

Solid polystyrene continuously bonded to faces.

Thickness: 1-3/4 inches.
Faces: Steel, stretcher leveled, without seams or spot welds, galvannealed 20 gauge.
Weld pattern: In accordance with manufactures standard details.
Vision Panel: Where indicated provide flush metal frame to accept glazing scheduled.

Frames: Specified in Division 08 Section "Hollow Metal Doors and Frames" in accordance with ANSI/SDI A250.8, SDI 111A, and SDI 112.

Construction: All-welded unit, type.
Material: Steel, cold rolled, ASTM A1008, 16 gauge.
Fire Resistance Rating: Where indicated in Contract Documents for doors.
Spreader Bar: Removable, at sill.

Gasketing; UL approved for fire doors

Jambs: Factory applied to latching/locking channels.
Floor: Factory mortised sweep. (must be ordered with elevator shaft & lobby applications)

Finishes:

Door Faces: Factory finish, to match Architects Sample.

Frames: Prime.
Hinge and Locking Channel: Factory finish, to match Architects Sample.

FRAME ANCHORS

Frame Anchorage Devices: Provide frame anchorages to securely fasten to wall construction without distortion or stress, and where fire rated, in accordance with fire resistance rating indicated in Contract Documents.

Jamb Anchors:

Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch (1.0 mm) thick.

Floor Anchors: Formed from same material as frames, minimum thickness of 0.042 inch (1.0 mm), and as follows:

Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners.

MATERIALS

Recycled Content of Steel Products: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 50 percent.

Regional Materials: Provide a minimum of 20 percent of building materials (by cost) that are regionally extracted, processed and manufactured materials within a radius of 100 miles.

Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

Hot-Rolled Steel Sheet: ASTM A1011/A1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.

Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B.

Frame Anchors: ASTM A879/A879M, Commercial Steel (CS), 04Z (12G) coating designation; mill phosphatized.

Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153/A153M.

Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.

Mineral-Fiber Insulation: ASTM C665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E136 for combustion characteristics.

Glazing: Comply with requirements in Division 08 Section "Glazing."

Bituminous Coating: Cold-applied asphalt mastic, compounded for 15-mil (0.4-mm) dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

Grout Guards: Formed from same material as frames, not less than 0.016 inch (0.4 mm) thick.

FABRICATION

General: Unless otherwise modified by the Contract Documents, fabricate integrated door assemblies in accordance with manufacturer's published specifications and applicable code requirements.

Fabricate work rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for metal thickness. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.

Hollow-Metal Doors:

Steel-Stiffened Door Cores: Provide minimum thickness 0.026 inch (0.66 mm), steel vertical stiffeners of same material as face sheets extending full-door height, with vertical webs spaced not more than 6 inches (152 mm) apart. Spot weld to face sheets no more than 5 inches (127 mm) o.c. Fill spaces between stiffeners with glass- or mineral-fiber insulation.
Fire Door Cores: As required to provide fire-protection ratings indicated.
Vertical Edges for Single-Acting Doors: Provide beveled or square edges at manufacturer's discretion.
Top Edge Closures: Close top edges of doors with flush closures of same material as face sheets.
Astragals: Provide overlapping astragal on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch (19 mm) beyond edge of door on which astragal is mounted or as required to comply with published listing of qualified testing agency.

Fabricate concealed stiffeners and edge channels from either cold- or hot-rolled steel sheet.

Hardware Preparation: Factory prepare doors to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.

Reinforce doors and frames to receive nontemplated, mortised, and surface-mounted door hardware. Comply with applicable requirements in SDI A250.6 and BHMA A156.115 for preparation of hollow-metal work for hardware.

STEEL FINISHES

Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.

Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.
DO NOT PRIME FIRE RATING LABELS.

Factory Finish: Clean, pretreat, and apply manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat, complying with SDI A250.3.

Color and Gloss: Match Architect's sample.

PART 3 - EXECUTION

EXAMINATION

Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

Examine roughing-in for embedded and built-in anchors to verify actual locations before frame installation.

Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

Proceed with installation only after unsatisfactory conditions have been corrected.

Coordinate door opening assembly details with adjacent work to assure proper attachments, clean junctions, etc

PREPARATION

Remove welded-in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

Drill and tap doors and frames to receive non-templated, mortised, and surface-mounted door hardware.

INSTALLATION

General: Install work plumb, rigid, properly aligned, and securely fastened in place in accordance with Division 08 Section "Hollow Metal Doors and Frames" and within the tolerances indicated below for the Integrated Door Assembly.

Comply with Drawings and manufacturer's written instructions.

Integrated Door Assembly: Fit doors accurately in frames, within clearances specified below. Shim as necessary.

Fire-Rated Doors: Install doors with clearances according to NFPA 80. For Bottom of Door (Undercut) maximum ½ inch, unless otherwise noted.
Smoke-Control Doors: Install doors and gaskets according to NFPA 105. For Bottom of Door (undercut) as required to maintain gasketed seal at threshold.
Install work in accordance with Contract Documents and reviewed shop drawings.

Install door systems and hardware in accordance with manufacturer's recommendations.

Frames Tolerance: Installed by others

Set plumb and square in accordance with DHI standards.

Out-of-square at frame head: Not to exceed 1/16 inch.
Out-of-plumb for each frame jamb: Not to exceed 1/16 inch.
Out-of-alignment for each side in plan: Not to exceed 1/16 inch.
Twist dimension: Not to exceed 1/16 inch.

Integrated Door Assembly

Hang to maintain manufacturer's installation tolerances.
Adjust to freely swing without binding, sticking, or sagging, and to eliminate excessive clearances.
Hardware: When installation is otherwise complete, confirm proper operation and function.

ADJUSTING AND CLEANING

Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow-metal work that is warped, bowed, or otherwise unacceptable.

Remove grout and other bonding material from hollow-metal work immediately after installation.

Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.

Factory-Finish Touchup: Clean abraded areas and repair with same material used for factory finish according to manufacturer's written instructions.

Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

SYSTEM SCHEDULE

Double Egress 90° Hold Open pocket doors

2 ea	Full Height Hinges	H-13 Rigidized	Color TBD	Total Door
2 ea	Full Height Latch Channel	L-11	Color TBD	Total Door
2 ea	Exit Device/insert to match skin	PF200 (Flush Panic)	628	Total Door
1	Mortise Lockset	Lever 84	630	Total Door
1	Dummy Trim	Lever 84	630	Total Door
2 ea	Closer	TDC96P	Alum	Total Door
2 ea	Mag Holder	TDH100		Total Door
2 ea	Positive Pressure label (confirm rating with door schedule)		Total Door	
	(Stairwells may require a temperature rise rating)			

90° Hold Open

2 ea	Full Height Hinges	H-13 Rigidized	Color TBD	Total Door
2 ea	Full Height Latch Channel	L-11	Color TBD	Total Door
2 ea	Operating Pulls	M32	628	Total Door
2 ea	Exit Device/insert to match skin	PF200 (Flush Panic)	628	Total Door
2 ea	Closer	TDC96P	Alum	Total Door
2 ea	Mag Holder	TDH100		Total Door
2 ea	Positive Pressure label (confirm rating with door schedule)		Total Door	
	(Stairwells may require a temperature rise rating)			

Double Egress 90° Hold Open

2 ea	Full Height Hinges	H-13 Rigidized	Color TBD	Total Door
2 ea	Full Height Latch Channel	L-11	Color TBD	Total Door
2 ea	Exit Device/insert to match skin	PF200 (Flush Panic)	628	Total Door
2 ea	Closer	TDC96P	Alum	Total Door
2 ea	Mag Holder	TDH100		Total Door
2 ea	Positive Pressure label (confirm rating with door schedule)		Total Door	
	(Stairwells may require a temperature rise rating)			

Set **Double Egress 180° Hold Open**

2 ea	Full Height Hinges	H-13	Color TBD	Total Door
2 ea	Full Height Latch Channel	L-11	Color TBD	Total Door
2 ea	Exit Device/insert to match skin	PF200 (Flush Panic)	628	Total Door
2 ea	Closer	TDC8907	Alum	Total Door
2 ea	Mag Holder	TDH100		Total Door
2 ea	Positive Pressure label (confirm rating with door schedule)		Total Door	
	(Stairwells may require a temperature rise rating)			

Set **Double Egress 90/180° Hold Open**

2 ea	Full Height Hinges	H-13 Rigidized (1)	Color TBD	Total Door
2 ea	Full Height Latch Channel	L-11	Color TBD	Total Door
2 ea	Exit Device/insert to match skin	PF200 (Flush Panic)	628	Total Door
1 ea	Closer	TDC96P	Alum	Total Door
1 ea	Closer	TDC8907	Alum	Total Door

2 ea	Mag Holder	TDH100		Total Door
2 ea	Positive Pressure label (confirm rating with door schedule)		Total Door	
	(Stairwells may require a temperature rise rating)			

END OF SECTION