- Glazing Accessories: Manufacturer's standard compression gaskets, spacers, setting blocks, intumescent strip, silicone sealant, bituminous paint, and other accessories necessary for a complete installation.
- Materials Frames and Doors
 - Steel or Aluminum Framing System: 60 Minute fire-rated, with matching glazing beads.
 - Steel or Aluminum Door System 60-minute fire-rated: Manufacturer's standard single leaf, full vision doors with manufacturer's standard hardware. Coordinate door hardware with cylinder specified in Section
- Finishes Doors and Frames
 - Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- Finishes: 2.
 - a. Finish after factory fabrication and assembly and before shipping.
 - b. Aluminum: Clear Anodized
 - c. Steel:
 - Polyester Super Durable powder coating meeting AAMA 2604 for chalking and fading.
 - Low Gloss, Two component acrylic polyurethane enamel with high volume solids metallic.
 - Color & Gloss: as selected by Architect. Match Architect's sample with appearance of Clear Anodized Aluminum.
 - iv. Acceptable Manufactures: Tiger Drylac (Series 38), Vetrotech or as approved by frame manufacturer.

M. Door Hardware

- Furnish hardware with 60-minute fire door by the manufacturer. Select hardware from door manufacturer's standard recommended and approved hardware groups as specified in Division 8 Section "Door Hardware, BHMA Certified.
- 2. Provide low-energy power assisted hardware, for use with manufacturer's frame system, at any door that cannot meet the opening forces required by codes noted above (Quality Assurance).
- Operating hardware for VDS Single Outswing Doors with Exit Device. Each to have the following.

	ltem	Description	Manufacturer	Finish*	
3	Hanging Devices	Weld on Pivots or hinges	Vetrotech	PTM	
1	Mortise Lock	Mortise lock with panic function ** See Below	Dorma or approved equal		
1	Narrow Stile Exit Device	F9700 Rim**See Below	Dorma or approved equal	630	
1	Lever Trim	ZT08 Tubular lever handle	Dorma or FSB	630	
1	Mortise Cylinder	ANSI Mortise Schlage E Keyway	Vetrotech or approved equal	626	
1	Closing Devices	TS 93 Surface Applied Closer	Dorma	689	
1	Auto door Bottom	420APKL Smoke Seal	Pemko	MA	
1	Weather Seal	Perimeter Gasket	Vetrotech		

- Balance of hardware by others.
- **Rim Exit Device or approved equal. Provide electric latch retraction at access controlled door. Provide power supply and power transfer devices as needed for access control and power assist (if necessary). Coordinate hardware and power supply as needed to accommodate electronic access devices (Millennium Systems)

* FINISH LEGEND:

Painted to match frame Mill Finish Aluminum Aluminum Paint Satin Stainless Steel Satin Chrome Plated

Installation: In accordance with manufacturer's Installation Manual.

083100 - ACCESS DOORS AND FRAMES

A. General: Provide fire rated and non-fire rated, interior access, factory fabricated doors. 12x12 size unless otherwise indicated. Coordinate location with equipment and as directed by owner.

087100 - DOOR HARDWARE:

- A. General:
 - Provide hardware on new doors as indicated in 081423 "Fire Rated Storefront and Entrances" and as indicated below.
- B. Submittals:

D.

- Product Data: For each type of product, submit latest edition of manufacturers technical data, Underwriters Laboratories, Inc listings and installation instructions.
- Maintenance Data for inclusion in O&M manual, project closeout.
- Warranties: manufacturer's standard warranties.
- Basis of Design: Manufacturer's listed on Hardware Schedule are to establish a standard of function and quality. Subject to compliance with requirements, provide products indicated or an approved equal product. Materials:
 - Access Control Owner Supplied, contractor coordinated and installed. (Millennium System)

- 2. Panic Bar: Dorma Rim Exit Device or approved equal. Provide electric latch retraction at access controlled door. Provide power supply and power transfer devices as needed for access control and power assist (if necessary)
- Power Assist: Dorma Provide power assist for door if needed to comply with ADA and AHJ opening force
- Threshold: Pemco ADA compliant or approved equal
- Wall or floor stops: and kick plates: Trimco, Ives or approved equal.
- All hardware to match existing style and finish. Contractor to field verify hardware style and finish

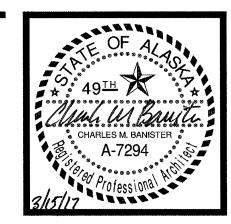
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- Install each hardware item in conformance to manufacturer's templates and instructions.
- Trim Exit Devices to provide 1 1/2:" clearance between End Cap and hinge jamb stop face where
- Adjust and check each operating item of hardware and each door to insure proper operation or function of every unit. Replace units, which cannot be adjusted to operate freely and smoothly.

1. Provide keying per Owner requirements.

088813 - FIRE RESISTANT GLAZING

- A. Project includes glazing for the following products and interior applications subject to human impact:
 - 1. Fire-protection-rated glazing
 - 2. Fire-resistance-rated glazing
- Submittals:
- 1. Product Data: Submit latest edition of manufacturers technical data, Underwriters Laboratories, Inc listings and installation instructions for each glass product and glazing material indicated.
- 2. Glass Sample: 6 inches square.
- 3. Qualification data for installers: Experienced installer who has completed glazing similar in material, design and extent to that indicated for Project and whose work has resulted in construction with a record of successful in-service performance.
- 4. Product Certificates
- 5. Product Test Listings
- 6. Sample Warranties
- 7. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
- C. Quality Assurance:
 - 1. Safety Glazing Labeling: where safety glazing labeling is indicated permanently mark glazing with certification label of the SGCC or another certification agency. Label shall indicate manufacturers name, type of glass, thickness, safety glazing standard with which glass complies.
 - 2. Fire Protection Rated Glazing labeling: Permanently mark fire-protection-rated glazing with certification label of a testing agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, test standard, whether glazing is for use in fire doors or other openings, whether glazing passes hosestream test, whether or not glazing has a temperature rise rating of 450 deg F and the fire-resistance rating
 - Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are classified and labeled by UL, for fire ratings indicated, based on testing per NFPA 252, UL 10B and UL 10C. Assemblies must be factorywelded or come complete with factory-installed mechanical joints and must not require job site fabrication.
 - 4. Fire-Rated Wall Assemblies: Assemblies complying with ASTM E119 that are classified and labeled by UL, for fire ratings indicated, based on testing in accordance with UL 263, ASTM E119.
 - 5. Project Conditions: Obtain field measurements prior to fabrication of frame units. If field measurements will not be available in a timely manner coordinate planned measurements with the work of other sections. Note whether field or planned dimensions were used in shop drawings.
- D. Warranties: Manufacturer's Special Warranty on Fire-Rated/Temperature-Rise Glass Warranty Period: Five years from Date of Delivery.
- Manufacturers: Obtain from single source from single manufacturer for each glass type and glazing accessories.
- F. Performance Requirements
 - General: Installed glazing systems shall withstand normal thermal movement and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication; deterioration of glazing materials; or other defects in construction
- G. Products:
 - General Safety Glazing Labeling: Permanently mark glazing with certification label of CPSC16 CFR1201-Cat I and II, Label shall indicate manufacturer's name, type of glass, and safety glazing standard with which
- H. Fire Resistance Rated Glazing for installation in butt-glazed application with straight and offset angle joints:
 - 1. Fire-Resistance-Rated Glazing: Listed and labeled by a testing agency acceptable to authorities having jurisdiction, for fire-resistance ratings indicated, based on testing according to ASTM E 119 or UL 263.
 - 2. Fire-Resistance-Rated Glazing Labeling: Permanently mark fire-resistance-rated glazing with certification label of a testing agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, test standard, that the glazing is approved for use in walls, and the fire-resistance rating in minutes.
 - 3. Tempered Glass with Intumescent Interlayers: Tempered glass made from multiple plies of uncoated float glass; with intumescent interlayers; and complying with 16 CFR 1201, Category II.
 - a. Basis of Design Product: Subject to compliance with requirements, provide Vetrotech Saint-Gobain; Contraflam Structure 60 - (1 1/4" thickness) for walls and Contraflam 60 for doors, or comparable product(s) by one of the following:
 - AGC Glass Company North America Inc.
 - SAFTI FIRST Fire Rated Glazing Solutions
 - iii. Technical Glass Products



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