

**Product Name**

Van-Met Floor Access Doors - Fire-Rated and Non-Rated

**Associated Specification Section**

MasterFormat 2012 # 08 31 14

MasterFormat 1995 # 08311

**Manufacturer's Name**

Maxam Metals



Date: 2012-10-09 (revised)

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## PRODUCT DESCRIPTION

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### PRODUCT FEATURES

- DESCRIPTION
  - Fire rated floor access doors for installation in wood and cast-in-place concrete.
  - Non-rated floor access doors for installation in wood and cast-in-place concrete.
- BASIC USES / RELATED USES
  - Allow access to services hidden spaces below floors or decks.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
  - In addition to the following general list of product attributes and characteristics, refer to PRODUCT SCHEDULE for specific details.
  - Exposed (checkerboard) surface, or recessed flanges.
  - Single (rated or non-rated) or double (non-rated) leaf doors.
  - Aluminum and galvanized coated steel materials.
- SELECTION CRITERIA
  - Non-Fire Rated Door and Frame Units:
    - Exposed doors:
      - Single leaf, Model ASF.
      - Double-leaf, Model ASFD.
    - Recessed doors, to accept floor covering:
      - Single leaf, Model MT.
      - Double-leaf, Model MTD.
  - Fire Rated Hatch and Frame Unit: Warnock-Hersey listed.
    - 1 hour fire rating, Model FHD1R.
    - 1-1/2 hour fire rating, Model FHD1.5R.
    - 2 hour fire rating, Model FHD2R.
    - 3 hour fire rating, Model FHD3R.
    - 4 hour fire rating, Model FHD4R.
  - Refer to SCHEDULES at the end of this document for a full summary.
- APPLICABLE STANDARDS, RELATED REFERENCES
  - ASTM A653/A653M-11 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot-Dip Process.

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- ASTM B209M-07 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (ASTM B209-07 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate).
- ASTM E119-12a - Standard Test Methods for Fire Tests of Building Construction and Materials.
- CAN/ULC S101-07 - Standard Methods of Fire Endurance Tests of Building Construction and Materials.
- CAN/ULC S104-10 - Standard Method for Fire Tests of Door Assemblies.
- ITS - Intertek Testing Services - Certification Listings.
- NFPA 251-2006 - Standard Methods of Tests of Fire Resistance of Building Construction and Material.
- NFPA 252-2012 - Standard Methods of Fire Tests of Door Assemblies.
- NFPA 288-2001 - Standard Method of Fire Tests of Floor Fire Door Assemblies Installed Horizontally in Fire Resistance Rated Floor Systems.
- UBC 7-2-94 - Uniform Building Code Standard.
- UL - Fire Resistance Directory.
- UL 10B-2008 - Standard for Fire Tests of Door Assemblies.
- **PERFORMANCE CRITERIA**
  - Structural Loads: Live load of 700 kg/sq m (150 lb/sq ft); optional live load 1400 kg/sq m (300 lb/sq ft).
- **QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS**
  - Fire-Rated Access Doors: Intertek/Warnock Hersey labels.
  - Tested and Listed: To NFPA 288, ASTM E119, CAN/ULC S101 and NFPA 251.
  - Hose Stream Test Standards: NFPA 252, UL 10(b), CAN/ULC-S104 and UBC 7-2-94.
- **SPECIAL WARRANTY**
  - Manufacturer's limited warranty of five years.
- **SUSTAINABILITY CRITERIA**
  - Products manufactured at Burnaby, BC factory.

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- **LIMITATIONS**

- FHD3R, FHD4R:
  - Self-closing mechanism not optional in every size. Refer to manufacturer's literature.
  - Suitable for cast-in-place concrete only.
  - Suitable for dry location only.
  - Structural live load of 700 kg/sq m (150 lb/sq ft) only.

## PRODUCT PROPERTIES

- **MATERIALS**

- Aluminum Plate: ASTM B209M (ASTM B209).
- Steel: ASTM A653/A653M, galvanized coated steel, ZF120 (A40) coating designation, with electrostatically applied rust inhibitor.
- Stainless Steel: Type 304 or 316.
- Gasketing: Urethane, maximum compression set two percent (2%) at 23 degrees C (73 degrees F).
- Insulation: Fiberglass, RSI-0.74 (R-4.2) per inch.

- **ACCESSORIES**

- Cam Latch: 5 mm (3/16 inch) allen key operator.
- Key operated cylinder cam lock with two (2) keys, keyed alike.
- Handle: Non-locking, two position.
- Preparation to accept a 29 mm (1.125 inch) mortise cylinder with 29 mm (1.125 inch) satin chrome 626 finish mortise cylinder, keyway X01 Schlage "C", keyed alike (KA43758) and factory installed. Fabricate frames and flanges of 1.5 mm (0.058 inch) steel.

- **DIMENSIONS**

- Sizes: Generally in 50 mm (2 inch) increments. Some models have maximum sizes. Refer to model number literature or web site for minimum, maximum, and standard sizes.

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- **SHOP FABRICATION AND ASSEMBLY**
  - Panels:
    - Flush Aluminum Panels: Extruded aluminum, 6 mm (1/4 inch) thick, smooth or checkerplate surface.
    - Recessed Aluminum Panels: 5 mm (3/16 inch) smooth surface.
    - Flush Steel Panels:
      - Standard: Steel, 5 mm (3/16 inch) thick, checkerplate surface.
      - Optional Steel Panels:
        - 6 mm (1/4 inch) thick checker plate surface.
        - 5 mm (3/16 inch) thick smooth surface
  - Frames:
    - Extruded aluminum, smooth surface, 6 mm (1/4 inch) thick.
    - Galvannealed steel, 2.75 mm (12 gauge) or 2.0 mm (14 gauge) thick.
  - Hinges: Continuous hinge, allows door panel to open 175 degrees.
    - Stainless steel continuous piano hinge
    - Zinc plated steel with stainless steel pivot points.
    - Zinc plated steel, with brass pin.
- **FINISHES**
  - Galvannealed Doors: Primer, off-white colour.
  - Aluminum Doors: Mill finish.

## PRODUCT PLACEMENT

- **INSTALLATION**
  - Install frames plumb and level in opening. Secure rigidly in place.
  - Position unit to provide convenient access to concealed work requiring access.
- **SCHEDULES**
  - Refer to next page.

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**PRODUCT SCHEDULE**

- FLOOR ACCESS DOORS - NON-RATED**

Model	Type	Recess	Panel (standard)	Frame	Latch	Hinge	Options
ASF	Single leaf		Aluminum checkerplate	5 mm (3/16 inch) aluminum	Zinc plated steel slam latch	Zinc plated steel	Stainless steel hardware
ASFD	Double leaf						
MT	Single leaf, recessed	3 mm (1/8 inch) 4 mm (3/16 inch)	Aluminum smooth plate	5 mm (3/16 inch) aluminum	Zinc plated steel slam latch	Zinc plated steel	Stainless steel hardware
MTD	Double leaf, recessed						
PFD	Double leaf, recessed	25 mm (1 inch)	Aluminum smooth plate	6 mm (1/4 inch) aluminum with neoprene cushion	Stainless steel slam latch	Stainless steel piano hinge	<ul style="list-style-type: none"> <li>• Chrome plated brass lifting ring</li> <li>• Bituminous coating</li> <li>• Drain coupling</li> <li>• Grounding lug</li> </ul>

- ACCESS DOORS - FIRE RATED**

Model	Type	Rating	Panel (standard)	Frame	Latch	Hinge	Options
FHD1.5R	Single leaf insulated	1.5 hour	Steel checkerplate	2.75 mm (12 ga) or 2 mm (14 ga) Steel	Stainless steel slam latch	Continuous stainless steel	1, 2a, 2b, 2c, 2d, 3, 4a, 4b, 4d, 5, 6, 7
FHD1R	Single leaf insulated	1 hour					1, 2a, 2b, 2c, 2d, 3, 4a, 4b, 4d, 5, 6, 7
FHD2	Single leaf insulated	2 hour					1, 2a, 2b, 2c, 2d, 3, 4a, 4b, 4d, 5, 6, 7
FHD3	Single leaf insulated	3 hour	Aluminum checkerplate	2.75 mm (12 ga) or 2 mm (14 ga) Steel	Stainless steel slam latch	Continuous zinc plated steel	2c, 4a, 4c, 4e, 7, 8
FHD4	Single leaf insulated	4 hour					4a, 4b, 4c, 4d, 4e, 5, 7, 8

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Options:

1. Optional recessed panel, 5 mm (3/16 inch) aluminum, smooth surface
2. Optional panel types:
  - a. 5 mm (3/16 inch) thick smooth surface
  - b. 6 mm (1/4 inch) thick checker plate surface
  - c. Extruded aluminum, 6 mm (1/4 inch) thick, smooth surface
  - d. Extruded aluminum, 6 mm (1/4 inch) thick, checkerplate surface
3. Hinges: Zinc plated steel hinges for larger sizes
4. Latch:
  - a. Zinc plated, recessed turn handle topside
  - b. Detention lock underside
  - c. Padlock hasp underside
  - d. Key topside, operable knob underside (recessed door panel)
  - e. Yellow instructions and turn handle
5. Optional Finish: Door painted yellow with black print
6. Optional Live Load: 1400 kg/sq m (300 lb/sq ft)
7. Optional self-closing mechanism
8. Custom sizes available

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**Corporate Identification**

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**Technical Services Available**

Contact Maxam Metal Products Limited

**Classification and Filing**

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**END**