

*Product Name:*

Standard Aluminum Entrances - Section 08121

*Manufacturer's Name:*

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

*This document is a Pittco product information sheet, intended to be used beside or in conjunction with the comparable Pittco master specification Section 08121, or some other commercially available 3-part master specification section on a similar subject. The specifier may cut/copy text between this data sheet and the project specification.*

**PRODUCT FEATURES**

● BASIC USES / RELATED USES

Exterior entrance doors, glazed

Interior doors in public facilities, glazed

Doors may be fitted to most rigid and stable frame assemblies

● PRODUCT ATTRIBUTES AND CHARACTERISTICS

Rigid door with narrow, medium and wide stiles and rails are standard

Doors are internally reinforced with tensioned steel rods and interlocking rigid corners

Doors will resist reasonable abuse and attempts at forced entry

Doors are available as single leaf or double leaf types

Doors are weatherstripped for a weather barrier and a measure of acoustic control

Doors will accommodate single pane or double pane insulating glass unit

Glass may be transparent, opaque, or decorative types

Air infiltration (with optional bottom weatherstrip):

Dimensions	Pressure Differential	Air Infiltration
36x84inches (915x2130mm) Single Door	1.57psf, 25mph (75Pa, 40km/h)	Less than 0.50cfm (0.24L/s)
OR	AND	OR
72x84inches (1830x2130mm) Pair of Doors	6.24psf, 50mph (298Pa, 80km/h)	Less than 1.00cfm(0.47L/s)

Doors will accommodate a variety of functional and decorative hardware

● SELECTION CRITERIA

Quality, economy, and high performance are provided at a reasonable cost

A wide variety of hardware options available

● APPLICABLE STANDARDS, RELATED REFERENCES

AA (Aluminum Association) – Designation System for Aluminum Finishes

AAMA – Metal Curtain Wall, Window, Storefront and Entrance - Guide Specifications Manual

AAMA 611-98 – Voluntary Specification for Anodized Architectural Aluminum

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AAMA 2604-05 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

AAMA 2605-05 – Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

ASTM A123/A123M – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM B209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

ASTM B209M – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate [Metric]

ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wires, Profiles, and Tube

ASTM B221M – Standard Aluminum-Alloy Extruded Bars, Rods, Wires, Profiles, and Tube [Metric]

ASTM E283 – Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors under Specified Pressure Differences across the Specimen

ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

- **QUALITY, TESTS, CERTIFICATIONS, AND APPROVALS**

Varies with frame assembly and environment

- **PACKAGING, HANDLING, AND PROTECTION INSTRUCTIONS**

Packaged in specially designed heavy cartons

- **SPECIAL WARRANTY**

One (1) year

- **LIMITATIONS**

Resistance to abuse and forced entry may be restricted to glass and glazing types selected

- **SAFETY PRECAUTIONS**

Normal precautions required

- **AVAILABILITY**

Doors are available in all regions of USA – refer to Internet web site for locations and addresses of distributors

- **COST**

Cost varies with elevation, configuration and finish desired

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## PRODUCT PROPERTIES

- MATERIAL AND DESIGN

Aluminum: 6063-T5 alloy and temper, to ASTM B221

Fasteners: Stainless steel, or zinc plated carbon steel

Glazing gaskets: Bulb-type, Ethylene Propylene Diene Monomer (EPDM) rubber

Glass stops: Snap-in type with glazing gaskets

Weatherstripping: Pile, installed in stile of center pivoted doors and frame of hinged and offset pivoted doors

Hardware:

- Deadbolt Lock

- Closers:

  - Butt Hinge or Offset Pivot Doors: Surface Closers

  - Continuous Gear Hinge Doors: Surface Closers

  - Center Pivoted Doors: Overhead Concealed Closers

- Handles: Through-bolt mounted back to back

  - Butt Hinge or Offset Pivot Doors: Type #12, Push/Pull

  - Center Pivoted Doors: Type #11, Push Bars on both sides

Glazing Frames:

- Integral weatherstripped door stops

- Recessed glass pockets to accommodate flush glazed side lites

Panic Devices:

- Single Door: Rim Mounted type, Pittco Standard

- Double Door: Concealed Vertical Rod type, Pittco Standard on each door leaf

Hinges:

- Butt Hinge or Continuous Gear type

Pivots:

- Offset Pivot or Center Pivot

- SHAPE AND DIMENSIONS

Standard door opening sizes:

- Single:

  - 36 x 84 inch (914 x 2134 mm)

  - 42 x 84 inch (1067 x 2134 mm)

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■ Pair:

72 x 84 inch (1828 x 2134 mm)

Swing Configurations (as viewed from exterior):

- Left Hand (LH): Swings indoors, hinged on left
- Left Hand Reverse (LHR): Swings outdoors, hinged on left
- Right Hand (RH): Swings indoors, hinged on right
- Right Hand Reverse (RHR): Swings outdoors, hinged on right

Standard glazing frames:

- Pittco EMS 114: 1-3/4 x 4-1/2 inch (44 x 114 mm)
- Pittco TMS 114: 2 x 4-1/2 inch (51 x 114 mm)

Wall Thickness (except glass stops): 0.125 inch (3.2 mm) nominal

Glazing Thickness Accepted: 1/4 inch (6 mm) and 1 inch (25 mm)

Door Thickness: 1 3/4 inch (44 mm)

Door stile and rail face dimensions\*:

Door Stile Type:	Vertical Stile inch (mm)	Top Rail inch (mm)	Bottom Rail inch (mm)	Optional Bottom Rail Inch (mm)
Narrow	2-1/16 (52)	2-1/2 (64)	3-7/16 (87)	9 1/2 (241)
Medium	3-7/16 (87)	3-7/16 (87)	6-7/16 (164)	9 1/2 (241)
Wide	4-13/16 (122)	4-13/16 (122)	6-7/16 (164)	9 1/2 (241)

\*Add 1/2" for 1/4" glass stops or 3/4" for 1" glass stops

● SHOP FABRICATION AND ASSEMBLY

Factory assembled doors with heavy steel tension rod, holding the nested corners together

Push bars and pull handles are fastened to door with steel stud passing through the stile, and connecting the two hardware items

Glass is installed with aluminum snap-in glass stops, cushioned by a glazing gasket

Panic doors: Butt Hinge or Offset Pivot type, with factory installed hardware

- Pull handle: Type #12 on exterior
- Closer: Standard type.
- Exit Devices:

Single doors: Rim mounted

Pairs of doors: Concealed Vertical Rod type

Custom mid-panel panic doors: Butt Hinge or Offset Pivot type, with factory installed hardware

- Pull handle: Type #12 on exterior
- Closer: Standard type

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- Exit Devices: Concealed Vertical Rod with release mechanism contained in a 7 inch (175 mm) overall mid-rail section

- **COLORS AND TEXTURES**

- Architectural anodic coating, in accordance with AAMA 611;
  - Aluminum Association Designation.
    - AA-M10C22A31 – Class II – (Pittco #42 Clear)
    - AA-M10C22A41 – Class I – (Pittco #43 Clear)
    - AA-M10C22A44 – Class I – (Pittco #59 Champagne)
    - AA-M10C22A44 – Class I – (Pittco #60 Light Bronze)
    - AA-M10C22A44 – Class I – (Pittco #61 Medium Bronze)
    - AA-M10C22A44 – Class I – (Pittco #62 Dark Bronze)
    - AA-M10C22A44 – Class I – (Pittco #63 Black)
- Architectural organic coating, in accordance with AAMA 2605 (70% Kynar 500®);
  - Finish on exposed aluminum shall be compliant with the performance standards set forth in AAMA 2605, "Superior Performing Organic Coatings on Aluminum".
  - Type: Factory Applied – High Performance, 70% Polyvinylidene Fluoride (PVDF) coating based on Elf Atochem, Inc. Kynar 500® or Ausimount USA, Inc. Hylar 5000® resin, formulated by a Licensed Paint Manufacturer and applied by the Paint Manufacturer's Warranty Approved Applicator.
  - Pre-treatment: Applicator to pre-treat the aluminum with solutions to remove Organic and Inorganic Surface Soils and Residual Oxides, followed by a Chrome Phosphate Conversion Coating, at a minimum 40 mg/sq ft to ensure adhesion of paint to aluminum.
  - Specify color code, e.g. UC 40577(Duranar Black)
- Architectural organic coating, in accordance with AAMA 2605 (70% Kynar 500®);
  - Finish on exposed aluminum shall be compliant with the performance standards set forth in AAMA 2604, "High Performance Organic Coatings on Aluminum".
  - Type: Factory Applied – High Performance, 50% Polyvinylidene Fluoride (PVDF) coating based on Elf Atochem, Inc. Kynar 500® or Ausimount USA, Inc. Hylar 5000® resin, formulated by a Licensed Paint Manufacturer and applied by the Paint Manufacturer's Warranty Approved Applicator.
  - Pre-treatment: Applicator to pre-treat the aluminum with solutions to remove Organic and Inorganic Surface Soils and Residual Oxides, followed by a Chrome Phosphate Conversion Coating, at a minimum 40 mg/sq ft to ensure adhesion of paint to aluminum.
  - Specify color code, e.g. UC 40577(Duranar Black)

## **PRODUCT PLACEMENT**

- **PREPARATION WORK**

Ensure openings are of proper size, and are plumb, square, level and in the proper location and alignment

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- **INSTALLATION**

Install doors in accordance with Pittco Sealant and Erection Brochure and AAMA - Metal Curtain Wall, Window, Storefront and Entrance - Guide Specifications Manual

Attach to door frame to permit sufficient adjustment to accommodate construction tolerances and other irregularities

Align installed assembly plumb and level, free of warp or twist. Maintain dimensional tolerances, aligning with adjacent work

Set thresholds in bed of butyl mastic and secure to substrate

Install hardware using physical hardware and templates provided

- **START-UP AND OPERATION**

Check operating hardware for proper function and adjustment

- **OWNER'S MAINTENANCE INSTRUCTIONS**

Follow maintenance instructions of operating hardware

**Corporate Identification**

Pittco Architectural Metals, Inc  
1530 Landmeier Road  
Elk Grove Village, Illinois 60007  
Tel: (847) 593-3131  
Fax: (847) 593-9946  
Toll-Free: (800) 992-7488  
Internet: <http://www.pittcometals.com>  
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**Technical Services Available**

Toll-Free: (800) 992-7488

**Classification and Filing**

MasterFormat  
Subset of Section 08120 - Aluminum Doors and Frames  
UniFormat  
Section B2030 (exterior doors) or C1020 (interior doors)