

Product Name:

Thermal Entrances - Section 08124

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 thermal entrance doors, glazed where high thermal performance is required
Doors may be fitted to most rigid and stable frame assemblies

● PRODUCT ATTRIBUTES AND CHARACTERISTICS

Rigid door with medium and wide stiles and rails are available
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 double pane insulating glass unit
Glass may be transparent, opaque, or decorative types
Air infiltration (with optional bottom weatherstrip):

Dimensions	Pressure Differential	Air Infiltration
36 x 84 inches Single Door	1.57psf, 25mph	
72 x 84 inches Pair of Doors	1.57psf, 25mph	1.12 cfm/ft ² or 0.70 cfm/ft

U value 0.59 per NFRC using 1" insulated glass unit (1/4" clear, 1/2" air space and thermo-plastic w/ stainless steel spacer, 1/4" solarban 70 Low E)

U value 0.65 and CRF 53 per AAMA 1503 using 1" insulated glass unit (1/4" clear, 1/2" air space and thermo-plastic w/ stainless steel spacer, 1/4" solarban 70 Low E)

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

Product Name:

Thermal Entrances - Section 08124

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2012

PRODUCT DESCRIPTION

Page 2

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

AAMA 611 – Voluntary Specification for Anodized Architectural Aluminum

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

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

ASTM A123 – 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 B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wires, Profiles, and Tube

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

Product Name:

Thermal Entrances - Section 08124

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2012

PRODUCT DESCRIPTION

Page 3

PRODUCT PROPERTIES

- MATERIAL AND DESIGN

Aluminum: 6063-T6 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: Engage-in type with glazing gaskets

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

Hardware:

- Deadbolt Lock

- Closers:

Surface Closers – Use with Butt Hinge, Offset Pivot Doors, and Continuous Hinges

Overhead Concealed Closers - Center Pivoted Doors

- Handles: Through-bolt mounted back to back

Type #31 Push/Pull – Use with Butt Hinge or Offset Pivot Doors

Type #31 Push Bar – Use with Center Pivoted Doors on both sides

Glazing Frames:

- Applied 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

42 x 84 inch

Product Name:

Thermal Entrances - Section 08124

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2012

PRODUCT DESCRIPTION

Page 4

- Pair:
72 x 84 inch

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 TMS 114 XT: 1-3/4 x 4-1/2 inch
- Pittco TMS 114 T: 2 x 4-1/2 inch
- Pittco TMS 114 TUF: 2 x 4-1/2 inch

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

Glazing Thickness Accepted: 1 inch

Door Thickness: 1 3/4 inch

Door stile and rail face dimensions*:

Door Stile Type:	Vertical Stile Inch	Top Rail Inch	Bottom Rail inch	Optional Bottom Rail Inch
Medium	3-7/16	3-7/16	6-7/16	9 1/4
Wide	4-13/16	4-13/16	6-7/16	9 1/4

*Add 3/4" for 1" glass stops to profile dimension

● **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 engage-in glass stops, cushioned by a glazing gasket

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

- Pull handle: Type #31 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

Product Name:

Thermal Entrances - Section 08124

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2012

PRODUCT DESCRIPTION

Page 5

- Pull handle: Type #31 on exterior
- Closer: Standard type
- 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-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 2604 (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**

Product Name:

Thermal Entrances - Section 08124

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2012

PRODUCT DESCRIPTION

Page 6

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

- **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

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Classification and Filing

MasterFormat
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UniFormat
Section B2030 (exterior doors)