FEATURES

- Medium stile doors have a 3 7/16" top rail, 6 7/16" bottom rail, and 3 7/16" vertical stiles
- Wide stile doors have a 4 13/16" top rail, 6 7/16" bottom rail, and 4 13/16" vertical stiles
- Door are 2" deep
- 3/16" Wall thickness
- Optional 9 1/2" Bottomrail
- Available in both single and double acting
- Infill options of 1/4", 3/8", 7/16", 1/2", 9/16", 5/8" and 1"
- Available with butt hinges, continuous geared hinges, or offset pivots
- Variety of hardware configurations including M.S. locks, dead locks, latch locks, and panic hardware
- Adjustable weatherstrip astragal at meeting stiles
- Meets ADA requirements
- Numerous custom hardware choices
- 3 standard finishes in stock (Clear Anodize #42, Dark Bronze Anodize #62, and Black Anodize #63)
- Standard and custom paint finishes available

APPLICATIONS

- Medium stile - schools, institutions, other moderate to high traffic applications
- Wide stile - libraries, banks, municipal buildings
INDEX

PRODUCT DESCRIPTION .......................... PAGES 4-9
EXPLODED VIEWS ............................... PAGE 10
GENERAL INFORMATION ....................... PAGE 11
1/4 SIZE DETAILS ............................... PAGES D1 TO D4
THERMAL CHARTS ............................... PAGES T1 TO T4
• **BASIC USES / RELATED USES**
  Monumental exterior entrance doors, glazed
  Monumental interior doors in public facilities, glazed
  Monumental doors are used:
  ■ for a more prestigious entrance
  ■ in higher traffic areas and heavy usage,
  ■ and in high security areas
  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 single pane or double pane insulating glass unit
  Glass may be transparent, opaque, or decorative types
  Air infiltration (with optional bottom weatherstrip):

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Pressure Differential</th>
<th>Air Infiltration</th>
</tr>
</thead>
<tbody>
<tr>
<td>72x84 inches Pair of Door</td>
<td>1.56psf, 25mph, AND</td>
<td>0.786cfm/sq ft OR</td>
</tr>
<tr>
<td></td>
<td>6.24psf, 50mph</td>
<td>2.156cfm/sq ft OR</td>
</tr>
</tbody>
</table>

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 611-98 - Voluntary Specification for Anodized Architectural Aluminum
  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 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 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: 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:
  - Surface Closers - Use with butt hinge and continuous geared hinge
  - Overhead Concealed Closers - Use with center pivot doors
- Handles: Use type #12, Push/Pull with butt hinges
  - or offset pivot doors. Use type #11 push bar
  - on both sides with center pivot doors
- Glazing Frames:
  - Integral weatherstripped door stops
  - Recessed glass pockets to accommodate flush glazed side lites

Panic Devices:
- Single Door: Rim mounted, panic device as selected
- Double Door: Concealed type, panic device as selected 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

- 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 EMS 114: 1-3/4 x 4-1/2 inch
- Pittco TMS 114: 2 x 4-1/2 inch

Wall Thickness (except glass stops): 0.188 inch

Glazing Thickness Accepted: 1/4 inch and 1 inch

Door Thickness: 2 inch

Door stile and rail face dimensions*:

<table>
<thead>
<tr>
<th>Door Stile Type</th>
<th>Vertical Stile</th>
<th>Top Rail</th>
<th>Bottom Rail</th>
<th>Optional Bottom Rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>3-7/16</td>
<td>3-7/16</td>
<td>6-7/16</td>
<td>9 1/2</td>
</tr>
<tr>
<td>Wide</td>
<td>4-13/16</td>
<td>4-13/16</td>
<td>6-7/16</td>
<td>9 1/2</td>
</tr>
</tbody>
</table>

*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
- 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 #42 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 2604 (50% Kynar 500®);
  - Finish of Exposed Aluminum shall be compliant with the performance standards set forth in AAMA Specification 2604, High Performance Organic Coatings on Aluminum
  - Type: Factory Applied, High Performance, 50% Polyvinylidene Fluoride (PVDF) Coating formulated by a licensed paint manufacturer, and applied by Paint Manufacturer's Warranty-Approved Applicator
  - Pretreatment: Applicator to pre-treat the aluminum with solutions to remove organic and inorganic surface soils, remove residual oxides, followed by a Chrome Phosphate or Chromate Coating to ensure adhesion to the aluminum
  - Specify color code, e.g. UC 40577(Duranar Black)

- Architectural organic coating, in accordance with AAMA 2605 (70% Kynar 500®);
  - Finish of Exposed Aluminum shall be compliant with the performance standards set forth in AAMA Specification 2605, Superior Performing Organic Coatings on Aluminum
  - Type: Factory Applied, High Performance, 70% Polyvinylidene Fluoride (PVDF) Coating formulated by a licensed paint manufacturer, and applied by Paint Manufacturer’s Warranty-Approved Applicator
  - Pretreatment: Applicator to pre-treat the aluminum with solutions to remove organic and inorganic surface soils, remove residual oxides, followed by a Chrome Phosphate or Chromate Coating to ensure adhesion to the 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

● INSTALLATION
  Install doors in accordance with Pittco's Fabrication, 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
E-mail: info@pittcometals.com

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)
STANDARD HARDWARE:

**Butt Hung Models**
1 Pair Full Mortise 4 1/2" x 4" (N.R.P.) B.B. Butts with Backup Plate, factory installed on door.
1 M.S. Lock with Cylinders, factory installed on door.
1 Set of Type 12 Pull Handle/Push Bar, packaged with door.
1 Pair Flush Bolts, factory installed. (Pairs ONLY)

**Offset Pivot Models**
1 Offset Pivot Set, factory installed on door. Frame portion included in door package.
1 M.S. Lock with Cylinders, factory installed on door.
1 Set of Type 12 Pull Handle/Push Bar, packaged with door.
1 Pair Flush Bolts, factory installed. (Pairs ONLY)

**Butt Hung/Offset Pivot Panic Models**
(Available in 3'0" Singles and 6'0" Pairs)
1 Offset Pivot or Butt Hinge Set, factory installed on door. Frame portion included in door package.
1 PITTCO Concealed Panic (First Choice 3690)
1 Cylinder, factory installed.
1 Type 12 Pull Handle.

STANDARD SIZES:

<table>
<thead>
<tr>
<th>Door Opening</th>
<th>Single</th>
<th>Pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'0&quot; x 7'0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3'6&quot; x 7'0&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STANDARD FRAMES

EMS 114 - 1 3/4" x 4 1/2" Flush Glaze Door Frame
TMS 114 - 2" x 4 1/2" Flush Glaze Door Frame
TMS 114T - 2" x 4 1/2" Flush Glaze Door Frame

DOOR SWING DIAGRAM

**SWING IN**

LH

RH

**SWING OUT**

LHR

RHR

As viewed from the exterior.

SWING DESIGNATION

RH - Right Hand
LH - Left Hand
RHR - Right Hand Reverse
LHR - Left Hand Reverse
HORIZONTAL / VERTICAL MID-RAIL OPTIONS

MISCELLANEOUS OPTIONS

HEAVY WALL DOOR FRAME

1/4" GLASS STOPS

3/8" Through 5/8" GLASS STOPS

THRESHOLDS AND WEATHERSWEEP
Pittco Architectural Metals, Inc.
Monumental Entrance Door - Swinging Door - Single
Up Front Glazing, Wide Stile, ADA Sill, 9-1/2" Bottom Rail, Stop 19-001, & Single Doors as Representative

System U-Factor vs. Percentage of Vision Area

Note: 1 inch Overall - Dual Glazed Glass (0.48-0.20 COG) with Aluminum Spacer
Pittco Architectural Metals, Inc.
Monumental Entrance Door - Swinging Door - Single
Up Front Glazing, Wide Stile, ADA Sill, 9-1/2" Bottom Rail, Stop 19-001, & Single Doors as Representative

System SHGC vs. Percentage of Vision Area

Vision Area / Total Area (%)

System VT vs. Percentage of Vision Area

Vision Area / Total Area (%)
Pittco Architectural Metals, Inc.
Standard & Monumental Entrance Door Transom - Door Transom
Up Front Glazed as Representative

System U-Factor vs. Percentage of Vision Area

Vision Area / Total Area (%)

Note: 1 inch Overall - Dual Glazed Glass (0.48-0.20 COG) with Aluminum Spacer
Pittco Architectural Metals, Inc.
Standard & Monumental Entrance Door Transom - Door Transom
Up Front Glazed as Representative

System SHGC vs. Percentage of Vision Area

Vision Area / Total Area (%)

System VT vs. Percentage of Vision Area

Vision Area / Total Area (%)