This document is a Pittco product information sheet, intended to be used beside or in conjunction with the comparable Pittco master specification Section 08422, 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 your project specification.

PRODUCT FEATURES

• BASIC USES / RELATED USES

Framing is designed for flush, center glazed storefront assembly
Vertical mullions are typically open back aluminum members, with solid face and flush closure side plates forming tubular members for use on single spans
Horizontal mullions are of hollow aluminum with removable glazing stops
Glazing is insulating glass unit or single pane with adapters
Corners are available for 90 and 135 degrees
Glass may be transparent, opaque, or decorative types
Framing is intended for one story applications
Framed assembly may be fitted to most rigid and stable framed opening assemblies

• PRODUCT ATTRIBUTES AND CHARACTERISTICS

Aluminum frame members are thermally improved
Framing and glazing stops are designed for glass and panels
Wind pressure resistance and pressure equalization are standard within the frame assembly
Weep containment and condensate water collection and drainage to the exterior at concealed weeps are standard
Integral door frames are available

• SELECTION CRITERIA

Quality, economy, and good performance are provided at a reasonable cost
Framing is designed for Interior or exterior environments

• APPLICABLE STANDARDS, RELATED REFERENCES

AA (Aluminum Association) – Designation System for Aluminum Finishes
AAMA SFM-1-87 – Aluminum Storefront and Entrance Manual
AAMA 611-98 – Voluntary Specification for Anodized Architectural Aluminum
AAMA 1503-98 – Voluntary Test Method for Thermal Transmittance and Condensation Resistance of
Windows, Doors, and Glazed Wall Sections

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


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


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

Air Infiltration: Maximum leakage of 0.02 cfm/sq ft (0.1 L/m².s) when measured in accordance with ASTM E283 at a test pressure of 6.24 psf (300 Pa)

Static Water Leakage: No uncontrolled leakage, when measured in accordance with ASTM E331 at a test pressure difference of 10.0 psf (480 Pa)

Dynamic Water Leakage: No uncontrolled leakage, when measured in accordance with AAMA 501.1 at a test pressure difference of 10.0 psf (480 Pa)

Structural Performance: Maximum deflection less than 1/175 of the span length and no damage to the assembly, when measured in accordance with ASTM E330 at a test pressure of 25 psf (1200 Pa)

Condensation Resistance Factor (CRF): 58 when measured in accordance with AAMA 1503 with clear 1” insulated glass unit (1/4, 1/2, 1/4)

Insulation U-Factor: 0.59 BTU/hr/sq ft/degrees F when measured in accordance with AAMA 1503 with clear 1” insulated glass unit (1/4, 1/2, 1/4)

• PACKAGING, HANDLING, AND PROTECTION INSTRUCTIONS

Packaged in specially designed heavy cartons or shipped pre-fabricated and assembled

• SPECIAL WARRANTY

One (1) year
● LIMITATIONS
Framing is limited to applications of one story in height
Not intended for continuous members for multiple floor applications

● SAFETY PRECAUTIONS
Normal precautions required

● AVAILABILITY
Framing is available in all regions of USA – refer to Internet web site for locations and addresses of distributors

● COST
Varies with elevation, configuration and finish desired

PRODUCT PROPERTIES

● MATERIAL, COMPOSITION AND DESIGN
Aluminum: 6063-T6 alloy and temper, to ASTM B221 or ASTM B221M
Fasteners: Stainless steel, or zinc plated carbon steel
Perimeter Anchors: Aluminum, or steel that will be isolated from aluminum components
Glazing Gaskets: Wedge-type, Ethylene Propylene Diene Monomer (EPDM) rubber with non-stretch cord
Glass Stops: Snap-in type
Thermal Barrier: Poured and Debrided Polyurethane and Thermal Slots

● SHAPE AND DIMENSIONS
Frame Size: 2 x 4-1/2 inch (51 x 114 mm)
Glass Edge Bite: 3/8 inch (9.5mm)
Glazing Thickness Accepted: 1/8 inch (3 mm) to 1-1/8 inch (29 mm) in increments of 1/16 inch (1.5 mm) except 7/16 inch (11 mm), 9/16 inch (14 mm), 11/16 inch (17 mm), and 13/16 inch (21 mm)

● SHOP FABRICATION AND ASSEMBLY
Provide for flush glazing on all sides with no projecting stops
Configurations:
- Two-piece snap together mullions
- Solid tubular mullions, assembled to specially designed shear block clips
Accessories:
- Expansion Mullions
- Corner Mullions
- Open Back Perimeter Members
- Integral Door Frames
- Flashing, Subsills
- Head Receptor
- Heavy Duty Mullions
- Standard Steel Reinforcing

● 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

● INSTALLATION

Align installed assembly plumb and level, free of warp or twist
Maintain dimensional tolerances, aligning with adjacent work
Seal joints between framing and building structure watertight
Follow guidelines in Pittco Fabrication, Sealant and Erection Brochure

● START-UP AND OPERATION

Not Applicable

● OWNER’S MAINTENANCE INSTRUCTIONS

Wash surfaces with warm water and mild soap; wipe clean, at least once a year

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Classification and Filing
MasterFormat
Subset of Section 08410 - Metal Framed Storefronts
UniFormat
Section B2030 - (exterior entrance frames) or C1020 (interior entrance frames)