

*Product Name:*

TMS 114XT Framing System - Section 08422

*Manufacturer's Name:*

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2012

PRODUCT DESCRIPTION

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*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 high thermal performance flush, center glazed storefront assembly

Vertical mullions are typically open back aluminum members, with solid face and flush closure side plates forming tubular members

Horizontal mullions are of hollow aluminum with removable glazing stops

Glazing is insulating glass unit

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 double thermal break design

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 high thermal 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 501.1-05 – Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors using Dynamic Pressure

AAMA 611-98 – Voluntary Specification for Anodized Architectural Aluminum

AAMA 1503-98 – Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows,

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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

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 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**

Air Infiltration: Maximum leakage of 0.02 cfm/sq ft (0.1 L/m<sup>2</sup>.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). (Air, water, and structural tests were performed on TMS 114 T system and due to very similar design are used to represent this product)

Condensation Resistance Factor (CRF): 66 when measured in accordance with AAMA 1503 with clear 1" insulated glass unit (1/4, 1/2, 1/4)

Insulation U-Factor: 0.52 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

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- **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

- **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 Debridged Polyurethane and Thermal Slots

- **SHAPE AND DIMENSIONS**

Frame Size: 2 x 4-1/2 inch (51 x 114 mm), except door mullion at transom 2 1/4" x 4 1/2" (57 x 114 mm) and expansion mullion 2 1/2" x 4 1/2" (63.5 x 114 mm)

Glass Edge Bite: 3/8 inch (9.5mm) except door mullion at transom 5/16 inch (8 mm)

Glazing Thickness Accepted: 1/4 inch (6 mm) to 1-1/4 inch (32 mm) in increments of 1/16 inch (1.5 mm) except 9/16 inch (14 mm), and 15/16 inch (24 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:

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- 
- 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

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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

### 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](mailto:info@pittcometals.com)

### Technical Services Available

Toll-Free: (800) 992-7488

### Classification and Filing

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