

*Product Name:*

TMS 152T Aluminum Glazed Storefront System - Section 084313

*Manufacturer's Name:*

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2016

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 084313, 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 three levels of thermal performance flush glazed storefront assembly and "T" at the end of TMS 152T designates medium thermal performance.

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 high span storefront applications

Framed assembly may be fitted to most rigid and stable framed opening assemblies

- PRODUCT ATTRIBUTES AND CHARACTERISTICS

Aluminum frame members in standard thermal version

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 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

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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

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**

Air Infiltration: Maximum leakage of 0.025 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) and 0.013 cfm/sq ft (0.1 L/m<sup>2</sup>.s) when measured in accordance with ASTM E283 at a test pressure of 1.57 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 for spans less than 13'-6" and 1/240 of the span plus 1/4" for spans greater than or equal to 13'-6" with 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): 59 for single thermal when measured in accordance with AAMA 1503 with clear 1" insulated glass unit (1/4, 1/2, 1/4) and 61 for single thermal when measured in accordance with AAMA 1503 with clear 70 XL low E 1" insulated glass unit with argon gas fill (1/4, 1/2, 1/4).

Insulation U-Factor: 0.58 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) and 0.37 BTU/hr/sq ft/degrees F when measured in accordance with AAMA 1503 with 70 XL low E 1" insulated glass unit with argon fill (1/4, 1/2, 1/4).

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

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

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- 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 Debridged Polyurethane and polyamide thermal struts

- SHAPE AND DIMENSIONS

Frame Size: 2 x 6 inch (51 x 152 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:

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- 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 2604, “High Performing Organic Coatings on Aluminum”.
  - Type: Factory Applied – High Performance, 50% Polyvinylidene Fluoride (PVDF) coating 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, remove residual oxides, followed by a Chrome Phosphate Conversion Coating to ensure adhesion to the aluminum.
  - Specify color code, e.g. UC 40577(Duramar Black)
  - Finish on exposed aluminum shall be compliant with the performance standards set forth in AAMA 2605, “Superior Performance Organic Coatings on Aluminum”.
  - Type: Factory Applied – High Performance, 70% Polyvinylidene Fluoride (PVDF) coating formulated by a Licensed Paint Manufacturer and applied by the Paint Manufacturer’s Warranty-Approved

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Applicator.

- Pre-treatment: Applicator to pre-treat the aluminum with solutions to remove organic and Inorganic surface soils, remove residual oxides, followed by a Chrome Phosphate Conversion 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

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

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### Technical Services Available

Toll-Free: (800) 992-7488

### Classification and Filing

MasterFormat

Subset of Section 084313 – Aluminum Glazed Storefront System

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UniFormat

Section B2030 - (exterior entrance frames) or C1020 (interior entrance frames)