

Product Name:

70 Wall SM – Aluminum Captured – Section 084413

70 Wall SM SSG Curtain Wall - Section 084423

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2023

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 084423 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 curtain wall glazing assembly

Vertical split mullions and screw spline horizontal mullions with solid face members or silicone structural glazed exteriors

Corners are configured for 90 degrees

Glazing is insulating glass unit or single pane with adapters

Glass may be transparent, opaque, or decorative types

Framing is intended for low to mid-rise applications

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

- PRODUCT ATTRIBUTES AND CHARACTERISTICS

Aluminum frame members are thermally broken

Framing and flush pressure plates 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 bottom of mullion

Door sub-frame adaptor is available

Energy savings are available with thermally broken mullion, glazing options and applied sunshades

- SELECTION CRITERIA

Quality, economy, and high 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-1-14 – Aluminum Storefront and Entrance Manual

AAMA MCWM-1-19 – Metal Curtain Wall Manual

AAMA 501.1-17 – Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors using Dynamic Pressure

AAMA 611-20 – Voluntary Specification for Anodized Architectural Aluminum

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AAMA 1503-09 – Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections

AAMA 2604-22 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

AAMA 2605-22 – 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**

Air Infiltration: Maximum leakage of 0.06 cfm/sq ft when measured in accordance with ASTM E283 at a test pressure of 6.24 psf

Static Water Leakage: No uncontrolled leakage, when measured in accordance with ASTM E331 at a test pressure difference of 15 psf

Dynamic Water Leakage: No uncontrolled leakage, when measured in accordance with AAMA 501.1 at a test pressure difference of 15 psf

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 50 psf

Seismic Racking: 1 1/2" per (AAMA 501.4)

Condensation Resistance Factor (CRF): 64 for captured when measured in accordance with AAMA 1503 with 1" insulated glass unit (1/4, 1/2, 1/4)

Insulation U-Factor: 0.47 BTU/hr/sq ft/degrees F when measured in accordance with AAMA 1503 with 1" insulated glass unit (1/4, 1/2, 1/4)

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

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

- **STANDARD WARRANTY**

One (1) year

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- LIMITATIONS

Exterior glazed only

Screw Spline construction

- 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: Ethylene Propylene Diene Monomer (EPDM) rubber at exterior, sponge EPDM interior, and silicone with silicone compatible spacer at structural silicone glaze (SSG)

Glass Stops: Exterior pressure plate

Thermal Barrier: Rigid PVC isolator

- SHAPE, MASS, AND DIMENSIONS

Frame Width: 2-1/2 inch

Frame Depths: 5-15/16 inch, 6-15/16 inch, and 7-15/16 inch

Glass Edge Bite: 5/8 inch at captured glaze, 1 inch at structural silicone glaze

Glazing Thickness Accepted: 1 inch standard, optionally 1 1/16", 1 1/8", 1 3/16", and 1 1/4"

Glazing Thickness Accepted with structural silicone glaze: 1" standard

- SHOP FABRICATION AND ASSEMBLY

Provide for flush glazing on all sides with no projecting stops

Configurations:

- Split mullions, assembled with screw spline horizontals

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Accessories:

- "F" and "T" Anchors at head, anchor at sill through two-piece sill
- Corner Mullions are tubular and are assembled with shear blocks

● **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, 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 2605, "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.
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PRODUCT PLACEMENT

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- 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 INSTRUCTIONS AND 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

(Prime source / regional offices / distributors / contact info)

Classification and Filing

MasterFormat

Section 08926 - Aluminum Glazed Curtain Wall (subset of MasterFormat 08410 - Metal Framed Storefronts)

UniFormat

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