

Product Name:

70 Wall XT –Glazed Aluminum Curtain Wall - Section 084413

Manufacturer's Name:

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2014

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 084413 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 as a high thermal performance stick built curtain wall glazing assembly

Vertical and horizontal mullions are of hollow aluminum with solid face members

System is fully captured or vertical butt glaze

Available in 90 degree corners and splay mullions

Glazing may be exterior set or exterior and interior set

Glazing is 1" insulating dual glaze unit, 1 1/2" triple glaze unit, 1 3/4" triple glaze unit or 1/4" single pane with adapters

Framing is intended for multi-story applications

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

- PRODUCT ATTRIBUTES AND CHARACTERISTICS

Aluminum frame members have deep thermal isolator for superior thermal performance

Framing and retainers are designed for glass and panels

Wind pressure resistance and pressure equalization are standard within the frame assembly

Weep containment and condensate water collects and can either drain at the bottom or individual lites can be zone dammed and drained thru weep holes in the face and retainer.

Door sub-frame adaptor is available

Energy savings are available with deep thermal isolator space in mullion, glazing options, and applied sunshades

Optional deep members for large spans

- SELECTION CRITERIA

Quality, economy, and high thermal performance are provided at a reasonable cost

Framing is designed to meet energy codes and are for exterior environments

- APPLICABLE STANDARDS, RELATED REFERENCES

AA (Aluminum Association) – Designation System for Aluminum Finishes

AAMA SFM-1-87 – Aluminum Storefront and Entrance Manual

AAMA MCWM-1-89 – Metal Curtain Wall Manual

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AAMA CW-DG-1-96 – Aluminum Curtain Wall Design Guide Manual

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

AAMA 611-12 – Voluntary Specification for Anodized Architectural Aluminum

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

AAMA 2604-10 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

AAMA 2605-11 – 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 0.06 cfm/sq ft (0.2 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 15 psf (720 Pa)

Dynamic Water Leakage: No uncontrolled leakage, when measured in accordance with AAMA 501.1 at a test pressure difference of 15 psf (720 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 50 psf (2390 Pa)

Seismic Racking: 1 1/2" per AAMA 501.4/501.6

Condensation Resistance Factor (CRF): 58 with clear glass, 67 with low E glass, and 74 with low E and argon glass when measured in accordance with AAMA 1503. Additional optional performance levels available with 1 1/2 inch and 1 3/4 inch triple glaze IGU's.

Insulation U-Factor: 0.52 BTU/hr/sq ft/degrees F with clear glass, 0.37 BTU/hr/sq ft/degrees F with low E glass, 0.30 BTU/hr/sq ft/degrees F with low E and argon glass, when measured in accordance with AAMA 1503. Additional optional performance levels available with 1 1/2 inch and 1 3/4 inch triple glaze IGU's.

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

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

- **SPECIAL WARRANTY**

One (1) year

- **LIMITATIONS**

None

- **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: Dense (EPDM) at exterior, sponge EPDM at interior or dense wedge EPDM at interior for interior glazed product

Glass Stops: Exterior pressure plate and/or interior stop.

Thermal Barrier: Rigid PVC isolator or dense EPDM isolator, and polyamide isobar struts

Sunshade Anchors and Outriggers: Custom engineered for each project

- **SHAPE AND DIMENSIONS**

Frame Width: 2-1/2 inch (64 mm)

Frame Depths with 1 inch IGU: 6 inch (152 mm), 7 inch (178 mm), 8 inch (203 mm), and 11 inch (279 mm).
Add 1/2 inch to frame depth for 1 1/2 inch IGU, and add 3/4 inch to frame depth for 1 3/4 inch IGU

Glass Edge Bite: 7/8 inch (22 mm) for captured glazing, and 2 inch (51 mm) for butt glaze vertical

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Glazing Thickness Accepted:

1 inch system - 1 inch (25 mm) to 1 1/4 inch (32 mm), and 1/4 inch (6 mm) with glazing adaptor.

1 1/2 inch system – 1 1/2 inch (38 mm) to 1 3/4 inch (44 mm)

1 3/4 inch system – 1 3/4 inch (44 mm) to 2 inch (51 mm)

● SHOP FABRICATION AND ASSEMBLY

Provide for flush glazing on all sides with no projecting stops

Configurations:

- Solid tubular mullions, assembled with specially designed shear block clips or split mullions, assembled with screw splines

Accessories:

- "Tee" Anchors
- Corner mullions
- Sunshades

● 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

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2604, "High Performance Organic Coatings on Aluminum".

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- 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(Duramar 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

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