

*Product Name:*

Carrier Pre-glazed Curtainwall - Section 08 44 13

*Manufacturer's Name:*

Pittco Architectural Metals, Inc.



PITTCO ARCHITECTURAL METALS, INC.

2020

PRODUCT DESCRIPTION

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## PRODUCT FEATURES

- BASIC USES / RELATED USES

Carrier framing is designed as a high thermal performance outside set pre-glazed curtainwall

2 ½" site line with standard 6 7/16", 7 7/16", 8 7/16", and 11 7/16" system depths using 70 Wall 3 ½", 4 ½", 5 ½", and 8 ½" back members

System is butt glaze standard with optional face caps

System is screw spline assembly of carrier frames and stick built or screw spline split mullions back members

Available with 90 degree outside and inside corner

Glazing to be silicone structural glaze (SSG) shop pre-glazed or optional VHB tape shop pre-glazed

Glazing standard is 1" insulating dual glaze unit

Framing is intended for multi-story applications

## PRODUCT ATTRIBUTES AND CHARACTERISTICS

Aluminum frame members have 1/16" deep thermal isolator between mullion stem and carrier perimeter clips for good thermal performance

Framing is designed for glass and panels

Water infiltration and condensate water is deflected to verticals, where it drains to the bottom of the system and out through controlled weep locations

Door sub-frame and vent adaptors are available

Energy savings are available with thermal isolator, and SSG glazing

Standard reinforcement available for large spans or high loads

- SELECTION CRITERIA

Quality, economy, and good 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 – Aluminum Storefront and Entrance Manual

AAMA MCWM-1 – Metal Curtain Wall Manual

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

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

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AAMA 501.4 – Voluntary Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts

AAMA 501.5 – Voluntary Test Method for Thermal Cycling of Exterior Walls

AAMA 501.7 – Voluntary Static Test Method for Evaluating Windows, Window Wall, Curtain Wall and Storefront Systems Subjected to Vertical Inter-Story Movements

AAMA 611 – Voluntary Specification for Anodized Architectural Aluminum

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

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

AAMA 2605 – 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

ASTM E547 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference

#### QUALITY, TESTS, CERTIFICATIONS, AND APPROVALS

Air Infiltration: Maximum leakage of 0.06 cfm/sq ft (0.2 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 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)

Seismic Horizontal Interstory Displacement: 1 ½" displacement when measured per AAMA 501.4

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)

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Condensation Resistance Factor (CRF): 77 with solarban 60 low E glass, ½" argon and high performance spacer, and energy advantage low E glass when measured in accordance with AAMA 1503.

Insulation U-Factor: 0.29 BTU/hr/sq ft/degrees F with solarban 60 low E glass, ½" argon and hi- performance spacer, and Pilkington EA low E glass when measured in accordance with AAMA 1503.

#### PACKAGING, HANDLING, AND PROTECTION INSTRUCTIONS

Back members to be stick, ladders, or screw spline split mullions. Carrier frames assembled, pre-glazed, and packaged in specially designed shipping crates as required in field

- 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 angle anchors

Glazing Gaskets: Interior glazing seal to be ¼" silicone spacer and structural silicone sealant and low-profile EPDM bed gasket for carrier frame. Optional VHB 7/8" x 0.090" tape in place of spacer and silicone. Exterior to be silicone butt joint sealant with open cell backer rod. With optional faces exterior seal to be epdm dense glazing gasket.

Thermal Barrier: SSG glazing with additional PVC isolator between mullions and carrier attachment clips.

#### SHAPE AND DIMENSIONS

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

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Frame Depths with 1 inch IGU: 6 7/16" (164 mm), 7 7/16" (189 mm), 8 7/16" (214 mm), and 11 7/16" (291 mm).

Glass Edge Bite: 7/8 inch (22 mm)

● SHOP FABRICATION AND ASSEMBLY

Provide for flush glazing on all sides with no projecting stops

Configurations:

- Solid tubular carrier frame assembled with screw splines

Accessories:

- Perimeter fillers
- Dynamic expansion carrier frame
- Optional face clips
- Corner mullions

● 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)

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- 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.
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## 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