

MULLION MATE® – SERIES 20 EXTRUDED ALUMINUM PARTITION GAP CLOSURE

SECTION 09 22 16

PART 1 – GENERAL

1.01 SECTION INCLUDES:

- A. This section includes drywall accessories or noise control components featuring Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure, as shown on the Architectural Drawings.
- B. Related sections include the following: (list applicable sections).

1.02 RELATED DOCUMENTS/SECTIONS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions.
- B. Division 1 Specification sections apply to work of this Section.
- C. Finish Schedule or Finish Legend applies to work of this Section.

1.03 REFERENCES:

- A. GENERAL
 - 1. Comply with applicable requirements of the following, except where more stringent requirements are indicated by building codes.
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 2604 – Specification for Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels
 - 2. AAMA 2605 – Specification for Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
- C. ASTM (American Society for Testing and Materials)
 - 1. ASTM D2247 Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
 - 2. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials

1.04 DESIGN/PERFORMANCE REQUIREMENTS:

- A. All components of the Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure shall be provided by one (1) Manufacturer to ensure single source responsibility and quality control.

1.05 SUBMITTALS:

- A. Submission must be made within ten (10) working days of the General Contract Award to avoid project delay.
- B. Product Data: Submit Manufacturer's:

1. Product Specifications
 2. Detail Drawings
 3. Installation Instructions
- C. Shop Drawings shall show dimensions, sizes, thickness, finishes, joining, attachments, and relationship of adjoining work.
- D. Samples:
1. Submit samples consisting of 12” long Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure and finish Q-Panel as specified, as well as accessories.
- E. Sustainability:
2. Materials and Resources
 - a. Building Life-Cycle Impact Reduction
 - i. LCAs for aluminum and steel are available.
 - a) Aluminum - http://www.gordon-inc.com/literature/pdf/cisca_background_report_aluminum_2020-04-24.pdf
 - b) Steel - http://www.gordon-inc.com/literature/pdf/cisca_background_report_steel_2020-04-24.pdf
 - b. Building Product Disclosure and Optimization - Environmental Product Declarations
 - i. Industry-average EPDs for aluminum and steel are available.
 - a) Aluminum - http://www.gordon-inc.com/literature/pdf/101.1_cisca_industry_wide_epd_aluminum_specialty_products.pdf
 - b) Steel - http://www.gordon-inc.com/literature/pdf/102.1_cisca_industry_wide_epd_steel_specialty_products.pdf
 - c. Building Product Disclosure and Optimization - Sourcing of Raw Materials
 - i. Regional Materials – Raw materials can be purchased from Vendors within 100 miles of the project location and fabrication of all materials in Bossier City, LA, U.S.A.
 - ii. Gordon’s mission is to locate recycled materials that are not only of high recycled content, but extracted, produced, or extruded in the U.S.A.
 - d. Building Product Disclosure and Optimization - Material Ingredients
 - i. Full disclosure of material recycled content is available.
 - e. Construction and Demolition Waste Management
 - i. Most products shipped from our plant are engineered to fit and reduce field cutting during installation.
 - a) Fewer indoor air quality problems
 - b) Less scrap and debris – cleaner work environment
 - c) Less noise pollution caused by field cutting of materials

- d) Maintain comfort and well-being of workers and occupants

3. Indoor Environmental Quality

a. Low-Emitting Materials

- i. Gordon's State-of-the-art Powder Coating line produces the highest quality powder coated surfaces while also contributing to our sustainability drive.
 - a) No heavy Metals used in pre-treatment
 - b) Processed water is fully compliant for introducing into waste stream
 - c) Extremely efficient use of powder coating through reclamation system reducing powder wastage
 - d) Factory finished products shipped from our plant eliminates field painting
 - 1. Prevents odorous and irritating air contaminants
 - 2. Introduces no hazardous waste
 - 3. Contributes no VOCs
 - 4. Maintains comfort and well-being of workers and occupants

b. Interior Lighting

- i. Gordon's AAMA 2604 powder coat finishes can provide the proper light reflectance to improve illumination in the space and reduce lumen output requirements.

c. Acoustic Performance

- i. Gordon's Mullion Mate provides STC value for transitions at the building perimeter and curtainwall.

4. Innovation

a. Innovation

- i. Gordon is a strategic partner with the design community and continuously finds ways to design products that can aid in improving environmental performance.

b. LEED Accredited Professional

- i. Gordon has LEED Accredited Professionals on staff to assist with your sustainability requirements

5. Detailed explanation of LEED Credits and Gordon, Inc.'s Contribution can be located at <http://www.gordon-inc.com/company/sustainability/>.

F. Certification: Submit certification from Manufacturer of accessory attesting products comply with specified requirements, including finish as specified.

G. Qualification Data:

- 1. Firms specified in "Quality Assurance" Article must demonstrate their capabilities and experience by including lists of completed projects with project names and addresses, names and addresses of Architects and owners, and other information specified

1.06 QUALITY ASSURANCE:

A. Source Limitations:

1. All components of the Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure shall be provided by a single Manufacturer to ensure responsibility and quality control.
- B. Manufacturer Qualifications:
1. Manufacturer must have manufacturing and delivery capacity required for the project and shall have successfully completed at least ten (10) projects within the past five (5) years, utilizing systems, materials, and techniques as herein specified.
 2. Manufacturer must own and operate its own manufacturing facilities for all metal components. "Stick Built" or "Kit of Parts Systems" consisting of components from a variety of Manufacturers/Fabricators will not be considered or accepted.
 3. Manufacturer must own and operate its own painting and finishing facility to assure single source responsibility and quality control.
- C. Installer Qualifications:
1. Installer shall have a minimum of five (5) years of experience installing systems of similar type and scope as those specified in this section

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. All materials shall be protected during fabrication, shipment and installation to prevent damage to the finished work from other trades.
- B. Store Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure components inside a well-ventilated area, away from uncured concrete and masonry, and protected from the weather, moisture, soiling, abrasion, extreme temperatures, and humidity.
- C. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommend by manufacturer for optimum results. Do not install products under environmental conditions outside Manufacturer's recommendations.
- D. Exercise care in loading, unloading, storing and installing units so as to preclude bending, warping, twisting and other surface damage.

1.08 WARRANTY:

- A. Workmanship Warranty:
 1. Furnish Manufacturer's Standard Workmanship Warranty against defects in material and workmanship, and will perform as specified, for a period of not less than one (1) year from date of material shipment, when installed in accordance with Manufacturer's recommendations.
- B. Finish Warranty:
 1. Furnish Manufacturer's Standard Finish Warranty (must be requested at time of quotation) may be extended up to a maximum of twenty (20) years from date of material shipment, when installed in accordance with Manufacturer's recommendations

PART 2 - PRODUCTS

2.01 MANUFACTURERS:

- A. Basis-of-Design: Subject to compliance with requirements, provide Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure manufactured by Gordon, Inc. For all inquiries contact:

Gordon, Inc.
5023 Hazel Jones Road
Bossier City, LA 71111
(800) 747-8954
sales@gordon-inc.com

- B. The listed Manufacturer shall not be construed as closing specifications to other prospective Manufacturers, but rather as establishing a level of quality in a metal system. Other systems may be submitted for approval, as provided for in the specifications at least ten (10) working days prior to submission of bids. Companies desiring to submit a proposal shall submit all descriptive information of the system proposed including photographs and Shop Drawings of at least ten (10) projects within the past five (5) years, utilizing systems, materials, and techniques as herein specified.

2.02 PRODUCT CONSTRUCTION:

- A. Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure are pre-assembled and spring loaded to provide a tight fit for vertical junctures of partitions and window walls with gaps between 1" and 2".
- B. Materials: Aluminum extrusions: 6063-T5 or T6 temper, tensile strength 31 KSI (ASTM B 221, ASTM B 221M). Specify **Mullion Mate® 1 (Series 20)** for openings 1" – 1.45" or specify **Mullion Mate® 1.5 (Series 20)** for openings 1.5" – 2". Specify _____ lengths up to 16'.
- C. Accessories:
1. Mullion Mate® End Caps – Specify Extruded (**MMEC-375** for 3-3/4" walls, **MMEC-487** for 4-7/8" walls, **MMEC-600** for 6" walls, **MMEC-725** for 7-1/4") or specify Brake-Formed (**MMECBF-518** for 5-1/8" walls, **MMECBF-514** for 5-1/4" walls, **MMECBF-512** for 5-1/2" walls, **MMECBF-618** for 6-1/8" walls, **MMECBF-812** for 8-1/2" walls).
- D. General: Provide metals free from surface blemishes where exposed to view in finished unit. Surfaces that exhibit pitting, seam marks, roller marks, stains, and discolorations, or other imperfections on finished units are not acceptable. All metal shall be of the highest-grade commercial type.

2.03 FABRICATION:

- A. Provide Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure in specified lengths and size to fit specified openings.

2.04 FINISHES:

- A. All material shall be in a finish chosen from one of the following options:
1. Field Paintable
 2. Factory-Clear Anodized

3. Factory applied Powder Coat to match Standard Colors or Custom Color and gloss as required.
 1. Factory finish with a 5-stage pretreatment (aluminum) with dried-in-place conversion coating followed by:
 - i. AAMA 2604, super durable compliant powder coating, with Antimicrobial Properties, which provide up to 99.9999% efficacy.
 - ii. AAMA 2605 compliant powder coating, with Antimicrobial Properties, which provide up to 99.9999% efficacy

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examination of Surfaces: Installer must examine conditions under which work is to be performed and must notify Contractor in writing of unsatisfactory conditions.
- B. Verify that field measurements and block-out dimensions are as shown on Shop Drawings.

3.02 PREPARATION:

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the Manufacturer to achieving the best result for the project conditions.

3.03 INSTALLATION:

- A. The Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure components shall be inspected before installation to be free from dents, scratches, and other defects.
- B. Install the Mullion Mate® Series 20 Extruded Aluminum Partition Gap Closure in accordance with Manufacturer's written Installation Instructions and Details
- C. Space Enclosure: Do not install any work until space is enclosed and weatherproofed, wet-work in space is completed and nominally dry, work above ceilings is complete, and temperature and humidity shall be continuously maintained at values near those of final occupancy.

3.04 CLEANING:

- A. Follow Manufacturer's cleaning instructions for specified finish.

3.05 PROTECTION:

- A. Procedures: Advise the Contractor of procedures required to protect the finished work from damage during the remainder of the construction period.

END OF SECTION