

SECTION 098450 - MULLION TRIM CAPS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes mullion trim caps providing sound transmission control at curtain wall.
- B. Related Requirements:
 - 1. Division 07 Section "Joint Sealants" for joint sealing.
 - 2. Division 08 Section " Glazed Aluminum Curtain Walls" for curtain wall construction.
 - 3. Division 09 Section "Gypsum Board Assemblies" for interior wall construction

1.2 ACTION SUBMITTALS

- A. Product Data:
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for mullion trim cap system.
- B. Shop Drawings:
 - 1. Include typical dimensioned cross-section(s) at the location where drywall partition terminates at the perimeter curtain wall, indicating:
 - a. Dimensions
 - b. Finish
- C. Samples: For each exposed product and for each color and texture specified.
 - 1. Size: 6-inch sound barrier mullion trim cap sample and 2" x3-1/2" custom color paint sample.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Test Reports: For each acoustically rated trim cap assembly, for ASTM E 90 tests performed by a qualified third-party testing agency.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer of aluminum extrusions and anodizing shall be ISO-9001 certified.
- B. Installer Qualifications: An entity that employs installers and supervisors who are approved by manufacturer.
- C. Testing Agency Qualifications: ASTM E 90, U 2079, and CAN S 115 testing to be performed by laboratory accredited by IAS as complying with ISO/IEC Standard 17025.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver sound barrier mullion trim caps until spaces to receive them are clean, dry, and ready for their installation.
- B. Store sound barrier mullion trim caps in original undamaged packaging inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace sound barrier mullion trim caps that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Ten years limited warranty from date of Substantial Completion.
 - 2. Limited warranty does not cover adjacent products or improper installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide the following:
 - 1. Basis of Design: MULL-it-OVER Products; Mullion trim cap systems, "60 Classic Mullion Trim Cap."

2.2 SYSTEM DESCRIPTION

- A. General: Provide sound barrier mullion trim caps of design, basic profile, materials, and operation indicated. Provide units with capability to accommodate variations in adjacent surfaces.
 - 1. Furnish units in lengths of sufficient additional length to allow for field trimming to required length to match variations in construction tolerances of adjacent systems.

2.3 PERFORMANCE REQUIREMENTS

- A. Sound Transmission:
 - 1. Sound Transmission Coefficients shall match as closely as possible the partition to which the trim caps are applied.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 - 1. Mullion trim cap to be sized to accommodate thermal movement.

2.4 MULLION TRIM CAP (MTC-)

- A. Mullion Trim Cap Products: Profile: 60 Classic Mullion Trim Cap.
 - 1. **MTC-01:** STC of 60.

2.5 COMPONENTS

- A. Aluminum Extrusions:
 - 1. Thickness: 0.125 inches.
 - 2. Profile: As selected and approved by Architect to allow solid attachment and fastening to the partition wall framing.
- B. Sound Absorbing Foam:
 - 1. Resistant to smoke, flame, and microbial growth.
 - 2. Fire Rating: ASTM E 84 Class 1.
 - 3. Fungi Resistance: Zero rating per ASTM G 21.
- C. Compressible Foam: Between edge of extrusion and interior face of curtain wall glass.
 - 1. Thickness: Standard 1/2 inch, 3/4-inch, 1 inch or 1-1/2" as required to accommodate mullion deflection.
 - 2. Color: Charcoal.
- D. Fasteners:
 - 1. Self-Tapping or appropriate threaded fastener.
 - 2. Compatible with all materials fasteners will contact and not causing galvanic corrosion.
- E. Snap Cover: Snap-on fastener cover.
- F. Acoustical Sound Sealant: Acrylic latex based.

2.6 ACCESSORIES

- A. Provide necessary and related parts and tools to complete installation.

2.7 FABRICATION

- A. Extrusions and generic profiles to be shipped in custom lengths as required to meet project requirements or shipped in standard incremental foot lengths and cut to exact length on jobsite.

2.8 FINISHES

- A. Exposed surfaces of exposed aluminum extrusion:
 - 1. Fluoropolymer finish Coating: Match curtainwall framing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine walls and adjacent curtain wall for suitable conditions where sound barrier wall end cap will be installed.

- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Measure and cut sound barrier wall end cap to proper lengths.
- B. Notch around horizontal mullions, sills, or other obstructions leaving appropriate gap for differential movement between the sound barrier wall end cap and the obstruction.
- C. Apply continuous bead of acoustical sealant to the unexposed side of extruded aluminum surface that will be in contact with the drywall edge.
- D. Place sound barrier wall end cap on the vertical surface of the drywall partition wall and loosely install fasteners in the top and bottom slotted holes of the wall end cap.
- E. Plumb the wall end cap leaving recommended gap spacing between the interior glass surface and the wall end cap. Foam gasket to be in contact with glass.
- F. Tighten top and bottom fasteners to secure end cap.
- G. Install additional fasteners at 12 inches on center, minimum.
- H. Install snap cover to conceal fasteners.
- I. Apply color matched sealant at joints of dissimilar materials as desired.

3.3 CLEANING

- A. After work is complete in adjacent areas, clean exposed surfaces with suitable cleaner that will not harm or attack the finish.

3.4 PROTECTION

- A. Protect sound barrier wall end caps from damage during installation, general construction activities, and until turnover of structure.

END OF SECTION