



SECTION 09 21 16

METAL STUD SOUND TERMINATOR

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Steel and Wood Stud sound termination clip system.
- B. Steel stud framing top track for installation with suspended acoustical grid.

1.2 RELATED SECTIONS

- A. Section 05 40 00 - Cold-Formed Metal Framing.
- B. Section 07 21 16 - Blanket Insulation.
- C. Section 08 31 13 - Access Doors and Frames.
- D. Section 09 22 16 - Non-Structural Metal Framing.
- E. Section 09 21 16.33 - Gypsum Board Area Separation Wall Assemblies
- F. Section 09 51 00 - Acoustical Ceilings

1.3 REFERENCES

- A. ASTM A 568/A 568M - Standard Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled
- B. ASTM C 645 - Standard Specification for Nonstructural Steel Framing Members.
- C. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- D. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and

Materials.

1.4 SYSTEM DESCRIPTION

- A. Steel Stud Sound Termination Clip System:
 - 1. Steel Stud sound termination clip system for acoustic attenuation for interior double wall gypsum partition assemblies.
 - 2. System ties the studs in a double stud wall with a sound isolating Sound Termination Clips.
 - 3. System shall be tested to achieve up to 52 STC when tested in accordance with ASTM E 90.
- B. Acoustical Ceiling Wall Track:
 - 1. System replaces standard top track in non-load bearing walls in building areas where ceiling grids have been installed. Special pre-punched wall top track installed as part of interior partition system after completion of acoustical ceiling grid. Gypsum board materials and finishes are fit to track flange eliminating need for edge trim.
 - 2. Fire Rated Partitions: Wall studs continue through special track up to structure for application of gypsum board and sealant in accordance with the manufacturers requirements to create one hour fire-rated wall assemblies up through a continuous ceiling grid system. System shall have been tested in accordance with ASTM E 119 to meet one hour fire rated requirements.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
 - 1. Product Data for Credit MR 4.1 and MR 4.2: For products having recycled content, documentation including percentages by weight of post consumer and preconsumer recycled content
 - a. Include statement indicating costs for each product having recycled content.
 - 2. Product Data for Credit MR 5.1 and Credit MR 5.2: Submit data, including location and distance from Project of material manufacturer and point of extraction, harvest or recovery for main raw material.
 - a. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.
- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with

minimum three years documented experience

- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Pro Products Mfg., which is located at: 32015 128th St. N. W.; Princeton, MN 55371; Tel: 763-552-0853 ; Fax: 763-552-0854 ; Email: [requestinfo \(sales@stclip.net\)](mailto:requestinfo@stclip.net); Web: www.stclip.net
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 COMPONENTS

- A. Steel Stud Sound Termination Clip System: Steel clip sections bound with a neoprene isolator to deaden sound transmission between the wall faces.
 - 1. Standard prefinished white 25 gage electrogalvanized steel conforming to ASTM C 645 and ASTM A 568 with a white baked polyester paint finish.
 - 2. Assembly shall have been independently tested in accordance with ASTM E 90 to achieve an STC of 52.
 - 3. Size: Sized to accommodate non load-bearing studs.
 - a. 1-5/8 inch width.
- B. Steel Stud Framing Suspended Acoustical Grid Top Track System.
 - 1. Ceiling Top Track
 - a. Standard prefinished white 25 gage electrogalvanized steel conforming to ASTM C 645 and ASTM A 568 with a white baked polyester paint finish for use in conjunction with installed ceiling grid.
 - b. Size: Prepunched to accommodate non load-bearing studs at 16 inch and 24 inch spacing.
 - 1) 2-1/2 inch width.
 - 2) 3-5/8 inch width.
 - 2. Accessories: Standard splice plates, end caps, 90 degree outside corners,

- and 135 degree corner plates as required for the installation.
- 3. Fasteners: ASTM C1002.
- 4. Anchorage to Substrate: Tie wire, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify suspended ceiling system is installed accurately and true to line and properly supported.
- C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

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

3.3 INSTALLATION

- A. Install products accurately and true to line in accordance with manufacturer's instructions.
- B. Sound Terminator Clip: Coordinate installation of two 1-5/8 inch steel studs at 16 inches or 24 inches O.C. coupled with sound termination clips with studs placed into 3-5/8 inch head and sill tracks. Fiberglass or mineral wool insulation shall be used within the wall cavity. Faces shall be covered by minimum 5/8 inch gypsum board secured to each face.
- C. Steel Stud Framing Suspended Acoustical Grid Top Track System: Coordinate installation of acoustical grid Top Track System track and gypsum board with application of fire caulking where required for manufacturer's fire rated and tested wall assembly.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION