THIS SECTION IS BASED ON ROCKFON'S "INFINITY™" STANDARD AND ENGINEERED METAL PERIMETER TRIM.

Though Rockfon Infinity™" Standard and Engineered Metal Perimeter Trim are meant for interior and exterior applications, specifications as shown here pertain to interior applications only.

GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Provide suspended ceiling acoustical ceiling trim including but not limited to:

1. Extruded Aluminum Perimeter Trim.
2. Extruded Aluminum Transition Trim

B. Related Sections:

1. Section 09 21 16, Gypsum Board Ceilings.
2. Section 09 51 33.13, Acoustical Snap In Metal Pan Ceiling
3. Section 09 52 23, Metal Acoustical Ceiling Suspension Assemblies.
4. Section 09 54 00, Specialty Ceilings.
5. Section 09 58 00, Integrated Ceiling Assemblies.
6. Section 01 81 13, Sustainable Design Requirements
7. Section 01 81 19, Indoor Air Quality Requirements
8. Section 13 48 00, Sound, Vibration, and Seismic Control.
9. Section 23 50 00, Central Heating Equipment.
10. Section 26 50 00, Lighting.

1.3 REFERENCES

A. Abbreviations and Acronyms:

1. ASTM: American Society for Testing and Materials
2. CISCA: Ceilings & Interior Systems Construction Association; www.cisca.org.
3. IBC: International Building Code
4. ASCE 7 American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures
5. ICCES: International Code Council-Evaluation Services - AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components
6. ICCES: International Code Council-Evaluation Services Report - ESR 2631 Rockfon Chicago Metallic Corporation Suspended Ceiling Framing Systems and Suspension Ceiling Systems
7. California Department of Public Health CDPH/EHLB Emission Standard Method Version 1.1 2010
8. LEED - Leadership in Energy and Environmental Design is a set of rating systems for the design, construction, operation, and maintenance of green buildings

9. International Well Building Standard
10. Mindful Materials
11. Living Building Challenge

B. Reference Standards:

1. ASTM A1008 - Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
2. ASTM A641 - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
3. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process
4. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
5. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
6. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels
7. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
8. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
9. ASTM E580 - Installation of Metal Suspension Systems in Areas Requiring Moderate Seismic Restraint
10. ASTM E1111/E1111M - Standard Test Method for Measuring the Interzone Attenuation of Open Office Components
11. ASTM E1414/E1414M - Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum
12. ASTM E1264 - Classification for Acoustical Ceiling Products

C. Alternates
1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products that have not been approved by Addenda, the specified products shall be provided without additional compensation.
2. Submittals that do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Underwriters' Laboratories Classified Acoustical performance; Panel design, size, composition, color, and finish; Suspension system component profiles and sizes; Compliance with the referenced standards.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Meetings: Conduct meeting at Project site. Agenda includes Project conditions, coordination with work of other trades and layout of items which penetrate ceilings.

1.5 SUBMITTALS

A. Product Data: Submit manufacturer’s Product data, including suspension system and maintenance data.

B. Samples: Submit samples of specified ceiling perimeter trim.

C. Show Drawings: Necessary technical drawings and documents that pertain to the layout of the acoustical metal ceiling.

D. Certifications: Acoustical metal ceiling product's certifications that confirm compliance with applicable tests and standards. Acoustical metal ceiling products must also contain information pertaining to certification for NRC.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Supply additional material (full-size lengths) equal to [ ] of ceiling area. Additional material should match Products installed and have the appropriate labels and identification.

B. Supply extra materials that match Products installed and are packaged with protective covering for storage and identified with labels describing contents.

1.7 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.

B. Fire Performance Details: Suspension ceiling components will feature markings of applicable testing and inspecting organization.

C. Coordination of Work: Coordination between installers and other related professions in reference to acoustical ceiling work can include electrical fixtures and systems, fire safety systems, gypsum and building construction.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Protect system components from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation.

1.9 WARRANTY

A. Manufacturer Warranty: Submit a written warranty executed by manufacturer for a period of 1 year from date for metal ceilings, of Substantial Completion, agreeing to repair or replace suspension system components that fail or are compromised within the specified warranty period. Failed or compromised parts can include, but are not limited to:

1. Rusting or defects directly made by the manufacturer.
2. Sagging or warping directly made by the manufacturer.

PART 2 - PRODUCTS

2.01 Manufacturer

A. Aluminum Perimeter Trim:
1. Rockfon, 4849 South Austin Avenue, Chicago, IL 60638. 1-800-323-7164; www.rockfon.com.

B. Metal Ceiling Systems:

1. Rockfon, 4849 South Austin Avenue, Chicago, IL 60638. 1-800-323-7164; www.rockfon.com.

C. Suspension Systems:
1. Rockfon, 4849 South Austin Avenue, Chicago, IL 60638. 1-800-323-7164; www.rockfon.com.

2.02 MATERIALS

A. Acoustical Metal Trim: Metal Perimeter Trim, “INFINITY™” STANDARD AND ENGINEERED METAL PERIMETER TRIM” by Rockfon with following characteristics:

1. Surface: Smooth
2. Composition: Metal
3. Material: 6063-T5 aluminum
4. Edges: [STRAIGHT] [CURVED]
5. Color:
6. NRC:
7. Fire Class: Class A.
8. Light Reflectance:
9. Recycled Content: up to 85%

B. Trim and Accessories:
1. Perimeter Trim Profiles

a. **Rockfon Infinity** profile perimeter trim for T-bar type grid acoustical ceilings (2)(4)(6)(8)(10)(12) inch high with 3/4 inch horizontal face. Trim to be (straight)(and)(curved) as indicated on approved drawings for engineered products. (All corners to be factory mitered) (90 degree corner kits are allowed in place of mitered corners on straight sections). Finish to be factory applied painted finish (on outside surface)(360 degrees)(01 White)(other color _____).

b. **Rockfon Infinity Z** profile perimeter trim for T-bar type grid acoustical ceilings, 6” wide horizontal face by 1-5/8” high. Trim to be (straight) as indicated on approved drawings for engineered products. (All corners to be factory mitered maximum 45 degrees). Finish to be factory applied painted finish (on outside surface)(01 White)(other color _____).

c. **Rockfon Infinity R Reveal** profile perimeter trim for T-bar type grid acoustical ceilings (4) inch high with 3/4 inch horizontal face. Trim to be (straight) as indicated on approved drawings for engineered products. (All corners to be factory mitered). Finish to be factory applied painted finish (on outside surface)(360 degrees)(01 White)(other color _____).

d. **Rockfon Infinity CDX/SCD** profile perimeter trim for T-bar type grid acoustical ceilings (4)(6) inch high with 3/4 inch horizontal face. Trim to be (straight) as indicated on approved drawings for engineered products. (All corners to be factory mitered). Finish to be factory applied painted finish (on outside surface) (01 White)(other color _____).

e. **Rockfon Infinity CDX/SCD Razor** profile perimeter trim for T-bar type grid acoustical ceilings, 6 inch wide horizontal face by 1 5/8" high. Trim to be (straight) as indicated on approved drawings for engineered products. (All corners to be factory mitered maximum 45 degrees). Finish to be factory applied painted finish (on outside surface)(01 White)(other color _____).

2. Transition Trim Profiles

a. **Rockfon Infinity Transition** trim for acoustical ceiling elevation changes, for use in conjunction with (2)(4)(6)(8) inch high Infinity profiles. Transition trim to be (straight). Finish to be factory applied painted finish (on outside surface)(01 White)(other color _____).

b. **Rockfon Infinity Transition** trim for drywall to acoustical ceiling transitions, ¾" exposed flange with opposite tapered flange for joint compound. Transition trim to be straight (flush reveal)(flush tegular)(flush). Finish to be factory applied painted finish (on outside surface)(01 White)(other color _____).

3. Splice Plate:
   a. Manufactured from galvanized steel with set screw for splicing sections of perimeter trim.
4. Grid Clips:
   a. Manufactured from galvanized steel with set screw for attaching perimeter trim to suspension system members.
5. Paired Bracket:
   a. Manufactured from electro-galvanized steel and used for back-to-back Infinity installations. Size bracket to maintain panel vertical surfaces (2-1/4 inch apart with 3/4 inch opening at bottom) (2-7/8 inch apart with 1-3/8 inch opening at bottom) (____ inches apart).

EXECUTION

1.10 EXAMINATION

A. Examine suspension assemblies, with installer present, for compliance with requirements specified in this and other Sections affecting ceiling panel installation and with requirements for installation tolerances and other conditions affecting performance of acoustic ceiling assemblies.

B. Verify actual field dimensions prior to installation.

C. Verify adequate support for Rockfon Infinity Perimeter Trim prior to installation.

1.11 INSTALLATION

A. Install ceiling perimeter trim to comply with ASTM C636/C636M, ASTM E580, and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook.

B. Infinity Perimeter Trim:
   1. Install after completion of above ceiling work.

2. Install ceiling suspension system as specified and in accordance with ASTM C636.
3. Install Infinity perimeter trim in accordance with manufacturers printed instructions and details and approved shop drawings.
4. Infinity perimeter trim to be supported by ceiling grid suspension system.
5. Attach splice plates and tighten set screws to join perimeter trim.
6. Attach trim to main tees and/or cross tees with grid clips. Field measure and cut tees to length. Attach grid clips to perimeter trim by inserting into grooves and firmly tighten set screw. Attach grid clips to main tees and cross tees with sheet metal fasteners (by contractor).
7. Field paint Infinity for drywall sections after drywall, taping, joint compound and sanding is complete.

C. Field Quality Control
1. Maximum defection not to exceed 1/360 of the span.

1.12 REPAIR

A. Remove damaged or compromised components; replace with undamaged components.

1.13 CLEANING

A. Clean exposed surfaces in accordance with manufacturer’s written instructions.

END OF SECTION