THIS SECTION IS BASED ON ROCKFON’S “SPANAIR™” TORSION SPRING METAL CEILING PANELS.

Rockfon SpanAir™ Torsion Spring Metal Ceiling Panels are meant for interior and exterior applications, specifications as shown here pertain to interior applications only.

Contact Rockfon for guidelines specifically applicable to exterior use of Rockfon SpanAir™ Torsion Spring Metal Ceiling Panels products.

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 panels including but not limited to:
   1. Metal Panel Ceiling System.

B. Related Sections:
   1. Section 09 21 16, Gypsum Board Ceilings.
   2. Section 09 52 23, Metal Acoustical Ceiling Suspension Assemblies.
   3. Section 09 54 00, Specialty Ceilings.
   4. Section 09 58 00, Integrated Ceiling Assemblies.
   5. Section 01 81 13, Sustainable Design Requirements
   6. Section 01 81 19, Indoor Air Quality Requirements
   7. Section 13 48 00, Sound, Vibration, and Seismic Control.
   8. Section 23 50 00, Central Heating Equipment.
   9. 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
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
6. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels
9. ASTM E580 - Installation of Metal Suspension Systems in Areas Requiring Moderate Seismic Restraint
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 panels.

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 ceiling panels) 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. Metal Ceiling Systems:

www.Rockfon.com
2.1 MATERIALS

A. Acoustical Metal Panels: Panel Metal Ceiling System, “SPANAIR™” TORSION SPRING METAL CEILING PANELS” by Rockfon with following characteristics:

1. Surface: Smooth
2. Composition: Metal
3. Material: [0.032”] [0.040”] Aluminum
4. Color:
5. Perforation Option:
6. NRC:
7. Fire Class: Class A.
8. Light Reflectance:
9. Recycled Content: up to 85%

B. Panels and Accessories:
1. Panels
   a. Panels shall measure (2 x 2, 2 x 4), (Custom size ___) with square edge detail with upturned legs, and formed to accept EZ-Springs on opposing sides for securing panels to suspension grid
   b. Panels formed from ([0.032”] [0.040”] aluminum) (perforated with ROCKFON pattern [ ] to provide a ______% open.)
   c. Aluminum panels shall be painted with a baked powder coat finish or adhesive bonded simulated wood grain laminate (aluminum only)
2. Wall Channel:
   a. Formed from .020 electro galvanized steel, and manufactured to a C-shape; length is 120”.
3. Perimeter Trim
   a. Rockfon Infinity Perimeter Trim: Made from extruded aluminum (6), (8), (10), (12) inches deep. Painted exposed faces or on all sides to match planks.
4. Hold-Down Insert:
   a. Formed from the same material, with the exception of the finish, as the wall channel and angle

C. Suspension System
1. Main Carrier:
   a. T-shape design with knurled face (concealed)
   b. Formed with slots in grid face to properly receive the EZ-Springs of the panels and to assure panel locking and alignment. The manner by which the grid and panels interlock shall also assure that adjacent Rockfon SpanAir Torsion Spring panels will be level at the ceiling plane.
c. The main carrier shall be formed from .020 hot dipped galvanized steel and a length of 144 inches.

2. Cross Tee:
   a. Interlocking cross tees with 15/16 inch exposed face, as manufactured by ROCKFON.
   b. The cross tee shall be formed from .020 hot dipped galvanized steel in lengths of [ ] inches.

D. Acoustical Material
   1. Acoustex acoustical non-woven fiber factory adhered to back of perforated panels with 0.70 NRC.

**EXECUTION**

2.2 **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. Proceed with installation only after unsatisfactory conditions have been corrected.

2.3 **INSTALLATION**

   A. Install ceiling panels 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. Torsion spring metal panels with factory inserted EZ-Springs are appropriately installed in a Chicago Metallic (1-3/8") grid system (concealed) as manufactured by ROCKFON.

   1. If necessary, insulation pads shall be laid upon the back of the planks.
   2. If necessary, utilize Rockfon hold down clips to keep the insulation pads in place.

   C. Integrated Accessories

   1. Insulation trimmed to fit and installed in plenum between carriers.

2.4 **REPAIR**

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

2.5 **CLEANING**

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

END OF SECTION