THIS SECTION IS BASED ON ROCKFON "SONAR® dB – 1-1/4"" CEILING PANEL.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

.1 Section Includes: Provide suspended ceiling acoustical ceiling panels including but not limited to:

1. acoustical ceiling panel.

.2 Related Requirements:

1. Section 09 21 16, Gypsum Board Assemblies.
2. Section 09 53 23, Metal Acoustical Ceiling Suspension Assemblies.
3. Section 09 54 00, Specialty Ceilings.
4. Section 09 58 00, Integrated Ceiling Assemblies.
5. Section 13 48 00, Sound, Vibration, and Seismic Control.
6. Section 23 50 00, Central Heating Equipment.
7. Section 26 50 00, Lighting.

1.3 REFERENCES

.1 Abbreviations and Acronyms:

1. CISCA: Ceilings & Interior Systems Construction Association; www.cisca.org.

.2 Reference Standards:

1.	ASTM C423	- Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
2.	ASTM C635/C635M	- Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
3.	ASTM C636/C636M	- Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels
4.	ASTM D3273	- Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
5.	ASTM E84	- Standard Test Method for Surface Burning Characteristics of Building Materials
6.	ASTM E1111/E1111	- Standard Test Method for Measuring the Interzone Attenuation of Open Office Components

7.	ASTM E1264	- Standard Classification for Acoustical Ceiling Products
8.	ASTM E1414/E1414M	- Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum
9.	CAN/ULC-S102	- Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

1.4 ADMINISTRATIVE REQUIREMENTS

.1 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

.1 Product Data: Submit manufacturer's Product data, including maintenance data.

.2 Samples: Submit 150 mm x 150 mm (6" x 6") samples of specified ceiling panels.

1.6 MAINTENANCE MATERIAL SUBMITTALS

.1 Supply additional material (full-size ceiling panels) equal to 2% of ceiling area. Additional material should match products installed and have the appropriate labels and identification.

.2 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

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

1.8 DELIVERY, STORAGE, AND HANDLING

.1 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

.1 Manufacturer Warranty: Submit a written warranty executed by manufacturer for a period of 30 years from date of Substantial Performance, 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

2.2 MATERIALS

.1 Acoustical Lay-in Panels: Stone wool panels, “Rockfon Sonar® dB” by Rockfon® with following characteristics:

1. ASTM E1264 Classification: Type XX, Pattern E.
2. Edges: [SQ] [SLN] [SLT] [SLP].
3. Size: 610 mm x 610 mm (24” x 24”).
4. Thickness: 32 mm (1-1/4”).
5. NRC: 0.85.
6. CAC: 35.
7. AC: 180.
8. Fire Class: Class A.
9. Fire Performance:
    1. UL 723 (ASTM E84) Flame Spread / Smoke Developed: 0-5/0-5.
    2. CAN/ULC-S102 Flame Spread / Smoke Developed: 10-15/5.
10. Light Reflectance: 0.85.
11. Recycled Content: Up to 40%.
12. R Value (BTU Units): 4.4.
13. RSI Value (Watts Units): 0.77.

PART 3 - EXECUTION

3.1 EXAMINATION

.1 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.

.2 Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

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

3.3 REPAIR

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

3.4 CLEANING

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

END OF SECTION