***Quick and easy for you - please fill out areas highlighted in green to complete the specification***

**PART 1 GENERAL**

# RELATED DOCUMENTS

## Drawings and general conditions of the contract, including general and supplementary conditions and division 1 specification sections, apply to the work of this section.

# SUMMARY

## Section includes:

### Sound absorptive panels

## Related sections

### Section 01350 – Special Environmental Requirements

### Section 092116 – Gypsum Board Assemblies (by others)

### Section 09800 – Acoustical Treatment

### Section 095300 – Acoustical Ceiling Suspension Systems (by others)

### Section 095100 – Acoustical Ceilings

# SUBMITTALS

## Comply with Section 013300 – Submittal Procedures

## **Product Data:** Manufacturer’s technical data and installation instructions for each type of panel required.

## **Certifications:** Certified test reports showing compliance with performance requirements specified.

## **Samples:** Submit a minimum of one (1) sample of each panel type and finish type required.

## **Shop Drawings:** Submit shop drawings when applicable. Coordinate panels layout, installation and suspension system components, and show overall layout with dimensions and details of penetrations and intersections with other materials or building components.

## **LEED Requirements:** Where specified, submit required documentation indicating compliance.

## Submit operation and maintenance data for installed products. Include precautions relating to harmful cleaning materials and methods that would affect the service life of the panels.

# QUALITY ASSURANCE

## A. **Single Source Responsibility:** Provide acoustic panelsfrom a single manufacturer with at least 3 years of prior experience fabricating projects of similar size and complexity.

## **Installer:** Installation shall be done by qualified contractors with at least two (2) years experience in the installation of architectural woodwork , acoustical panels, or acoustical ceilings. Installers should receive training on handling and field finishing the specified product prior to receiving materials on site.

## **Fire Performance Characteristics:** Class A as tested by an independent accredited testing facility. Tests: ASTM E84. Flame spread: 25 or less. Smoke developed: 450 or less as specified by state or local codes.

## **Applicable LEED Credits:**

### MRc4 Recycled Content

### EQ 9 Enhanced Acoustical Performance

## **Coordination of Work:** Installing contractor shall organize and conduct a pre-installation survey of temperature, humidity and construction elements attaching, penetrating or concealed behind the acoustic panels.

# 1.5 REFERENCES

## A. **Test Methods:**

### **ASTM C423** Sound absorption and sound absorption coefficients by the reverberation room method performed by an independent testing agency

### **ASTM E84** Standard test method for surface burning characteristics of building materials

# 1.6 DELIVERY, STORAGE AND HANDLING

## A. Deliver panels to the project in original, unopened packages. Inspect containers for visible damage and report any questionable condition to the shipper and manufacturer immediately.

## Store products in a fully enclosed, clean, dry space out of direct sunlight and protected from damage with temperature controlled between 50 and 85 degrees F.

## Handle products carefully to avoid damaging panels surfaces or chipping edges. Report any damage immediately. Installation of damaged panels is not covered by the manufacturer’s warranty.

# PROJECT CONDITIONS

## Do not install acoustic panelsuntil space is enclosed and weather-proofed, wet work is completely dry and ambient temperature and humidity conditions are maintained at the levels indicated for the project when occupied for its intended use.

## Permit panels to reach room temperature, 50 to 85 degrees F, and stabilized moisture content of 25% to 55% RH for at least 72 hours before installation per AWI standards. Building should be enclosed and HVAC systems functioning in continuous operation with relative humidity maintained between 25 and 55 percent.

# WARRANTY

## Provide manufacturer’s standard **three (3) year written product warranty** per applicable section for closeout procedures.

## Manufacturer’s warranty is limited to decorative or acoustical panels materials only. Other components used in the ceiling system are excluded. Refer to the appropriate provisions in the related specification section.

# MAINTENANCE

## **Maintenance Instructions:** Provide manufacturer’s standard maintenance and cleaning instructions for finishes provided.

# PART 2 – PRODUCTS

# MANUFACTURER

## Provide panels utilizing SONUS Acoustical Panels manufactured by Sonus North America, LLC 7601 Miller Drive, Frederick, CO 80504, Ph. (303) 774-9992, email sales@sonusna.com.

# MATERIALS

1. A.**SONUS Panels for Interior Installation:**1.25” or 2.25” (standard is 1.25”) thick acoustical panels as follows: Real wood veneer cut at .2mm thickness and constructed of 5 layers specially constructed for greater flexibility and virtually eliminating an contraction and expansion. Veneers are pre-finished with two polyurethane coats. Wood veneer is laminated using Sonus’ patented Vacu-Bond ® to a rigid 20lb high density fiberglass reinforced surface. Rear side of plank constructed with 20lb rigid high density fiberglass board. Both planks are laminated to the core using Sonus’ patented Vacu-bond® system. Acoustical core shall be comprised of Class A 6-7 pcf fiberglass bonded with a thermosetting resin. Edges of panel are edge banded using same species wood.

**Perforations:** Panels will be furnished with perforated faces consisting of 0.55mm (0.022”) diameter holes in an offset pattern. The perforations must be clean. Perforations must maintain consistent diameter through the face material and backer with no tapering or roughness.

## **Panels Weight:** 1.25”is1.4 lbs./ft2

## **Panels Sizes:** **Select** Panels are available in the following sizes:

## Panels Width: *\_\_\_ \_\_\_(up to 48”)*

## Panels Length: \_\_\_ \_\_\_(120”)

## **Reveal:** standard reveal is 1/8” or no reveal. Up to architect.

## **Standard Hardware:** Z-clips (other options available, please contact Sonus)

## **Flame Resistance:** SONUS Panels have a Class 1(A) rating based on ASTM E84 standard test method for surface burning characteristics in building materials.

## **Acoustic Performance:** Panels must achieve minimum NRC test values as stated: **Select**

**-** 1.25” thick - .85 NRC

**-** 2.25” thick - .95 NRC

## **Finish for Veneer Faced Panels: Select**

### Species as selected by the architect.

### Cut: *(flat cut or quarter cut. rift cut)*

# PART 3 – EXECUTION

# EXAMINATION

## Inspect installation area and conditions under which work is to be performed for compliance with all manufacturer’s environmental requirements. All wet work in the installation area must be complete, cured and dry prior to installation. Do not proceed until all unsatisfactory conditions have been corrected.

# INSTALLATION

## Installation must be done by qualified contractor with 2 years experience in the installation of architectural woodwork, acoustic panels, or acoustic ceilings. The firm must demonstrate successful experience installing materials of similar type and quality of those required for this project.

## Comply with manufacturer’s instruction and recommendations for hanging panels.

## If field curing is required, please refer to manufacturer’s instructions.

## Confirm all field dimensions are coordinated with shop drawings.

# ADJUSTING AND CLEANING

## Clean soiled surfaces of panels per manufacturer’s instructions.

## Remove and replace damaged or discolored materials not in compliance with manufacturer’s tolerances.

# Contact information:

Sonus North America

360 W 37th St

Loveland Co 80538

303-774-9992

sales@sonusna.com

# END OF SECTION