

SECTION 09 84 33
ACOUSTICAL WALL PANELS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.

1.2 DESCRIPTION OF WORK

- A. Provide all labor, materials, and equipment as required to provide the acoustical wall panels as shown on the drawings.

1.3 QUALITY ASSURANCE

- A. All packages shall be clearly marked and labeled at plant with manufacturer's name and indicate the specific materials specified.

1.4 REFERENCES

- A. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- C. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- D. UL 723 Tests for Surface Burning Characteristics of Building Materials

1.5 SUBMITTALS

- A. Submit complete specifications and installation instructions for all materials furnished.
- B. Submit full range of color samples for Architect's selection.
- C. Submit shop drawings showing materials, installation details, sizes, and layout.

1.6 DELIVERY, STORAGE & HANDLING

- A. Handle material per manufacturer's requirements.
- B. Store the materials in the original packaging material in a clean dry area until ready for installation.
- C. Do not install until cleanliness and temperature is controllable.

1.7 WARRANTY

- A. Provide written warranty, executed by the manufacturer, agreeing to replace defected products for one year after owner's acceptance of installation.

1.8 MAINTENANCE

- A. Provide owner with manufacturer's recommendations for cleaning and repairing panels.

PART 2 PRODUCTS

2.1 INTERIOR ACOUSTICAL WALL PANELS:

- A. Act (absorptive) Respond wall panels as manufactured by Conwed, Ladysmith Wisconsin (Owens Corning Company) or equal products by
 1. AVL System, Inc, FL
 2. Armstrong
 3. G & S – Golterman & Sabo, MO
 4. ESSI Acoustical Products, OH
 5. MPC, Inc, OH
 6. Lamvin Inc., CA
 7. MBI Products Company, Inc, OH

The School District of Palm Beach County

Project Name

SDPBC Project No.

8. Other Pre-approved manufacturer
 - B. Provide in size per drawings with fiberglass core material (6 PCF) and minimum NRC of 0.80 per inch.
 - C. Panels shall have beveled edges and be furnished with continuous chemically hardened internal edge protection.
 - D. Provide woven polyester fabric covering the face, all edges, and a return on the back of a minimum of 1½".
 - E. All components utilized in the construction of these wall panels shall meet Class A (0-25) rating per ASTM E84, fuel contribution of 20, and smoke density value of 65.
 - F. Architect will select colors from manufacturer's full range in coordination with the School District Design Coordinator.
- 2.2 EXTERIOR ACOUSTICAL WALL PANELS
- A. Acoustiblok, Inc. 6900 Interbay Blvd., Tampa, outdoor sound absorption panels or equal products by:
 1. Acoustical Solutions, Inc., Acoustifiber, Virginia
 2. Acoustical Surfaces, Inc., Chaska, MN, Sound Fighter® Systems Wall
 3. Unger Technologies Sound Barrier, Indiana
 - B. Size per drawing x 2.4" thick
 - C. All Weather sound panels – hurricane model.
 - D. Fire Performance, UL 723
 - E. NRC not less than 0.8
 - F. Refer to the current edition of the School District Design Criteria for Sound Ratings (<http://www.palmbeachschools.org/buildingdepartment/DistrictDesignStandards.asp>).
 - G. Wind resistance not less than 270 mph.
 - H. Provide framed construction, of corrosion resistant aluminum, mill finish.

PART 3 EXECUTION

3.1 INSTALLATION:

- A. Complete installation and workmanship for each type of acoustical system specified under this section in strict accordance with the manufacturers' standard printed specification, recommendations and as detailed on the drawings.
- B. The wall panels shall be mounted utilizing concealed splines.

3.2 PROTECTION OF FINISHED WORK

- A. Protect finished work under provisions of Section 01 50 00.

END OF SECTION