

The School District of Palm Beach County

Project Name

SDPBC Project No.

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

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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