

SECTION 09 54 46  
FABRITEC Acoustical Wall Panels

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
  - 1. Fabric-wrapped, tackable, and impact-resistant acoustical wall panels with willtec® foam core.
- B. Related Sections:

**EDIT NOTE: ADD OR DELETE SECTIONS PER PROJECT REQUIREMENTS.**

- 1. Section 03 38 00 – Post-Tensioned Concrete.
- 2. Section 03 41 00 – Plant-Precast Structural Concrete.
- 3. Section 03 41 13 – Precast Concrete Hollow Core Planks.
- 4. Section 05 21 00 – Steel Joist Framing.
- 5. Section 05 31 00 – Steel Decking.
- 6. Section 06 15 00 – Wood Decking.
- 7. Section 06 17 53 – Shop-Fabricated Wood Trusses
- 8. Section 06 17 33 – Wood I-Joists.
- 9. Section 06 17 36 – Metal-Web Wood Joists.
- 10. Section 09 21 16 – Gypsum Board Assemblies.

1.2 SYSTEM DESCRIPTION

- A. Acoustical Performance Requirements:
  - 1. NRC (Noise Reduction Coefficient): Comply with ASTM C423-90a.

1.3 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Manufacturer's technical data for each type of panel and baffle including fire-resistive characteristics, finishes, details of installation, and the following:
  - 1. Manufacturer's installation instructions.
  - 2. Certified test reports indicating compliance with Performance Requirements specified herein.
- C. Samples: 2 full size sets of Samples of each specified panel for color selection or verification.
- D. Closeout Submittals: Comply with Section 01 77 00 – Closeout Procedures.
  - 1. Operating and Maintenance Manual, including cleaning and maintenance instructions.
  - 2. Extra Material for Owner's stock.
  - 3. Material Safety Data Sheets (MSDS).

1.4 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain panel units for entire Project from a single manufacturer.
- B. Manufacturer's Qualifications: Firm with not less than Closeout Submittals: Comply with Section 5 years experience in manufacturing of products similar in complexity to those required for this Project.
- C. Installer's Qualifications: Firm with not less than 5 years experience in installation of products similar in complexity to those required for this Project, including specific requirements indicated.

1. Successfully completed not less than 5 comparable scale projects.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with Section 01 60 00 – Product Requirements.
- B. Deliver and store materials in manufacturer's original unopened containers with brands, names, and production lot numbers clearly marked on these containers.
- C. Storage and Protection: Comply with manufacturer's recommendations.
  1. Store products in a cool, dry place out of direct sunlight.
  2. Protect from elements and from damage.

#### 1.6 PROJECT CONDITIONS

- A. Environmental Requirements within building:
  1. Panels do not require special environmental conditions.
  2. Systems may be installed at any stage of construction.

#### 1.7 WARRANTY

- A. Provide manufacturer's written warranty per Section 01 77 00 – Closeout Procedures.

#### 1.8 MAINTENANCE

- A. Extra Materials:
  1. Deliver not less than the following quantity of each type, color, and pattern of material, exclusive of material required to properly complete installation.

EDIT NOTE: RETAIN AMOUNT OF EXTRA MATERIALS USED ON PROJECT. DELETE THIS ARTICLE IF NO EXTRA MATERIALS REQUIRED OR ACCEPTABLE.

- a. 3 percent.
- b. 5 percent.
- c. 1 carton.
2. Furnish Extra Materials from same production run to verify run for color.
3. Package replacement materials with protective covering, identified with appropriate labels.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products from the following manufacturer:
  1. pinta acoustic, inc.  
2601 49<sup>th</sup> Avenue North, Ste. 400  
Minneapolis, Minnesota 55430  
Telephone: 800-662-0032  
612-355-4250  
Fax: 612-355-4255  
Website: [www.pinta-acoustic.com](http://www.pinta-acoustic.com)  
E-mail: [sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)
- B. Substitutions: Comply with Section 01 60 00 – Product Requirements.

## 2.2 MANUFACTURED UNITS

- A. Fabric-Wrapped Acoustical Wall Panels: Wall panels consisting of lightweight, open-cell willtec® foam core with fabric-wrapped, impact-resistant, tackable surface, meeting the following requirements:
1. Density: 0.5 to 0.7 pounds per cubic foot (0.23 to 0.32 kg per m<sup>3</sup>).
  2. Tensile Strength: 8 psi (0.06 MPa).
  3. Elongation: 8 percent per ASTM D3574-77.
  4. Flammability: Class 1 per ASTM E84.
  5. Size: Nominal 24 inch by 24 inch (610 mm by 610 mm).

EDIT NOTE: SELECT PANEL SIZE ABOVE OR BELOW. DELETE SIZE NOT REQUIRED FOR PROJECT.

6. Size: Nominal 24 inch by 48 inch (610 mm by 1219 mm).
7. Size: Custom size per Drawings.
8. Panel Thickness: 1 inch (25 mm) total thickness.

EDIT NOTE: SELECT PANEL THICKNESS ABOVE OR BELOW. DELETE THICKNESSES NOT REQUIRED FOR PROJECT.

9. Panel Thickness: 1-1/2 inches (76 mm).
10. Panel Thickness: 2 inches (102 mm).
11. Panel Thickness: 1-3/4 inches (44 mm) total thickness.
12. Panel Thickness: Custom thickness indicated on Drawings.
13. Panel Edges: Square.

EDIT NOTE: SELECT PANEL EDGE ABOVE OR BELOW. DELETE EDGE NOT REQUIRED FOR PROJECT.

14. Panel Edges: Beveled.
15. Tackable surface: 1/16 inch (1.6 mm) thick fiberglass substrate.

EDIT NOTE: PANEL COVERING SELECTED BY ARCHITECT. SELECT COVERING AND INSERT PRODUCT INFORMATION BELOW. DELETE COVERINGS NOT REQUIRED FOR PROJECT.

16. Covering: Guilford FR701.
17. Covering: Selected by Architect from wall covering manufacturers' products.
18. Covering: Microperforated vinyl.
19. Covering: Custom fabrics.

EDIT NOTE: PANEL PATTERN SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL PATTERN SELECTIONS.

20. Pattern Number. Architect will select from manufacturer's standard products.
21. Sound Absorption Coefficients: Type D mountings, Guilford FR701 fabric covering, ASTM C423-90a.

<u>Frequencies (Hz)</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1,000</u>	<u>2,000</u>	<u>4,000</u>	<u>NRC</u>
1 inch thick panel:	0.18	0.68	0.95	0.92	0.78	0.67	0.85

22. Acceptable Product: FABRITEC Wall Panels.

## 2.3 ACCESSORIES

EDIT NOTE: SELECT APPROPRIATE MOUNTING SYSTEM.

- A. Adhesive: Non-toxic, water-based adhesive, for use with foam products.
  1. pinta AcouSTIC™ foam adhesive or approved substitute.
- B. Mechanically Mounted Panels: Manufacturer-installed concealed splines mounted to panel.
- C. Mechanically Mounted Panels: Manufacturer-installed Z-clips mounted to panel.

- D. Hook and Loop: Manufacturer-installed loop-side fastener attached to panels, shipped with accompanying hook-side fastener with tape adhesive for wall installation.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper and or timely completion.
  - 1. Do not proceed until unsatisfactory conditions have been corrected.

[EDIT NOTE: USE THE FOLLOWING PREPARATION ARTICLE FOR ADHESIVE APPLIED INSTALLATIONS ONLY.](#)

### 3.2 PREPARATION

- A. Prior to installing ceiling panels, make certain that surfaces to which adhesive will be applied are clean and free of dust, dirt, and other residues that would inhibit a proper bond.

### 3.3 INSTALLATION

- A. Comply with manufacturer's instructions and recommendations for panel installation.

[EDIT NOTE: SELECT THE NEXT THREE PARAGRAPHS FOR ADHERED APPLICATIONS.](#)

- B. Cut adhesive tube end to produce a 1/4 inch (6.4 mm) bead.
- C. Apply adhesive to panels per manufacturer's recommended pattern and press panel firmly into place per manufacturer's installation requirements.
- D. Install panels true to lines and plane indicated.

[EDIT NOTE: SELECT THE NEXT PARAGRAPH FOR METAL CLIP APPLICATIONS.](#)

- E. Comply with panel manufacturer's written instructions for installation of panels using type of mounting accessories indicated or, if not indicated, as recommended by manufacturer.

### 3.4 CLEANING

- A. Clean adjacent surfaces and remove unused product and debris from site.
- B. After installation is completed, clean soiled surfaces of materials per panel manufacturer's recommendations.
- C. Remove and reinstall improperly installed material.
- D. Remove damaged or discolored material, or material that cannot be properly cleaned, and install new material.

END OF SECTION

willtec® is a product of pinta, inc.