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FABRIC-WRAPPED PANELS

PART 1 - GENERAL

1.1 PURPOSE

- A. This guideline is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. PSP is to apply the principles of this section such that the University of Texas at Arlington (UTA) may achieve a level of quality and consistency in the design and construction of their facilities. Deviations from these guidelines must be approved by UTA and may require justification through Life Cycle Cost (LCC) analysis and submitted to UTA for approval.

1.2 LESSONS LEARNED AND DESIGN CONSIDERATIONS

- A. X

1.3 SECTION INCLUDES

- A. Fabric wrapped fiberglass panels.
- B. Fabric wrapped tack panels.
- C. Mounting devices.
- D. Installation of acoustical panels.

1.4 RELATED REQUIREMENTS

- B. Section 01 40 00 – Quality Requirements: Procedures for testing, inspection, mock-ups, reports, certificates; use of reference standards.
- C. Section 01 57 21 – Indoor Air Quality Controls: Procedures and testing; smoking room testing; LEED requirements.
- D. Section 01 60 00 – Product Requirements: Fundamental product requirements, substitutions and product options, delivery, storage, and handling.
- E. Section 01 70 00 – Execution Requirements: Examination, preparation, and general installation procedures; pre-installation meetings; cutting and patching; cleaning and protection; starting of systems; demonstration and instruction; closeout procedures except payment procedures; requirements for alterations work
- F. See Division 01 – Construction Waste Management and Disposal.

1.5 SUBMITTALS

- A. See Division 01 for submittal procedures.
- B. Shop Drawings:
 - 1. Show elevation of each separate wall scheduled to receive fabric wrapped panels.
 - 2. Indicate height and width of panels, panel thickness, core material, method of attachment, molding and any trim required.
 - 3. Indicate each type and color of fabric selected, panel core material and thickness.
- C. Samples: Submit two samples of each color/pattern of fabric specified, 12 x 12 inch in size, illustrating color, pattern, and texture.
- D. Certificate: Certify that products of this section meet or exceed specified requirements. Provide certification from panel manufacturer and fabric manufacturer that manufactured panels are in compliance with ASTM E82 and that panels have flame spread rating of 25 or less.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than documented experience.
- B. Installer Qualifications: Company specializing in performing the work specified of this section with minimum three years of experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Protection:
 - 1. Deliver fabric wrapped wall panels after painting, wet work, grinding, and similar operations which could damage wall panels, have been completed in installation area.

GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION DOCUMENTS

1.8 FIELD CONDITIONS

A. Environmental Requirements:

1. Maintain temperatures and moisture conditions as recommended by fabric wrapped panel manufacturer from date of installation through remainder of construction period.
2. Minimum requirements: 60-75 degree F., maximum relative humidity, 70%

PART 2 – PRODUCTS

2.1 MATERIALS

A. Fabric Wrapped Acoustical Panels:

1. Core: 1", 7 pcf, single piece, rigid fiberglass
2. Fabric: As selected by Architect.
3. Basis of Design Manufacturer: As selected by Architect.
4. Product: As selected by Architect.
5. Fabric: As selected by Architect.
6. Flame Spread: ASTM E84, 25 or less.
7. IBC Testing: Fabric shall pass requirements of IBC 803.1.2 for interior wall finishes and NFPA 101 Chapter 10.
8. Mounting: Impaling clip/Adhesive.
9. Sound Absorption: N.R.C. 0.80.

2.2 FABRICATION

A. Shop Fabrication

1. Panel width shall be equal or in patterns as shown on the drawings.
2. After cutting, fiberglass panel edge shall be chemically hardened.
3. Fabric material shall be stretched tight across panel face, free of wrinkles or rags, wrapped around all edges and onto the back a minimum of 1". Fabric shall be bonded to the panel face, edges, and back.
4. Attach mounting clips/fasteners for required mounting condition.

PART 3 EXECUTION

3.1 INSTALLATION

A. General:

1. Install fabric wrapped wall panels in accordance with manufacturer's installation instructions.
2. Joint tolerance and adjacent panel alignment: +/- 1/16". All joints shall be plumb. Adjust end panel edges to fit adjacent abutting or matching surfaces.

B. Impaling Clip Attachment:

1. Use temporary leveling and support angle at bottom of panels for impaling/adhesive installation.
2. Adhesively attach impaling clips to wall at the rate of one clip per 4 square feet of panel – minimum 8 clips per panel.
3. Apply adhesive to clip tines immediately prior to pressing panels onto impaling clip.

C. Adhesive Attachment.

3.2 PROTECTION

A. Protection of Installed Panels:

1. Protect fabric wrapped panels from damage after installation.
2. Vacuum all fabric surfaces immediately prior to Substantial Completion inspection.

END OF SECTION