SECTION 09 51 00

StrandTec Direct Attach Cementitious Wood Fiber Acoustical Ceiling Panels

PART 1 GENERAL

1. SECTION INCLUDES
	1. StrandTec Direct Attach cementitious wood fiber acoustical ceiling panels.
2. REFERENCES
	1. American Society for Testing and Materials (ASTM)
		1. ASTM C423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
		2. ASTM D3273: Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
		3. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
		4. ASTM E795: Standard Practices for Mounting Test Specimens During Sound Absorption Tests
		5. ASTM E1477: Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers
	2. California Department of Public Health (CDPH)
		1. CDPH Standard Method V1.2: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
	3. International Code Council (ICC)
		1. ICC IBC: International Building Code
	4. National Fire Protection Association (NFPA)
		1. NFPA 286: Standard Method of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
3. SUBMITTALS
	1. Product Data: Manufacturer’s data sheet and installation instructions.
	2. Samples: Submit, at minimum, a 4” x 4” sample for each type of specified wood fiber ceiling panel.
	3. Test Reports: Upon request, submit certified test reports to verify specified product performance.
4. MAINTENANCE MATERIAL
	1. Extra Stock Materials:
		1. Deliver no less than two percent (2%) / (Other) of each type, color, and pattern of material.
		2. Extra materials shall remain in the manufacturer’s original packaging and given to the building owner upon substantial completion of the work. Store extra materials per instructions as described in storage and handling requirements.
5. QUALITY ASSURANCE
	1. Qualifications:
		1. Manufacturers: Provide cementitious wood fiber acoustical panels from a single manufacturer.
		2. Installers: Utilize an installer having demonstrated experience on projects of comparable size and complexity.
	2. Performance Requirements:
		1. Surface Burning Characteristics: Acoustical panels to perform as specified when tested in accordance with ASTM E84. Acoustical panel surface burning performance should comply with the International Building Code and other local building code requirements.
		2. Acoustical Characteristics: Acoustical panels to perform as specified when tested in accordance with ASTM C423.
6. DELIVERY, STORAGE, AND HANDLING
	1. Storage and Handling Requirements:
		1. Handle products carefully to avoid damage or chipping edges.
		2. Store products in a clean, cool, dry place, and out of direct sunlight.
		3. Store products in a space where the ambient temperature and humidity conditions are being maintained at the levels indicated for the project when occupied for its intended use.
7. SITE CONDITIONS
	1. Ambient Conditions: Maintain ambient temperature and humidity conditions at levels indicated for the project when occupied for its intended use.
	2. Existing Conditions: Do not install cementitious wood fiber panels until space is enclosed and weather proofed, wet work is completely dry, and work above ceilings is complete.
8. WARRANTY
	1. Provide manufacturer’s written product warranty per Section 01 77 00 – Closeout Procedures.

PART 2 PRODUCTS

(Specifier Note: Red colored text below requires you to select an option before this specification can be completed. Options in red text are bound by parenthesis. Additional StrandTec information can be found on our website [www.asiarchitectural.com/products/strandtec](http://www.asiarchitectural.com/products/strandtec))

1. MANUFACTURERS
2. ASI Architectural, 123 Columbia Court N, Chaska, MN 55318.
Phone: 1-888-258-4637. Fax: 952-448-2613. Website: www.asiarchitectural.com
3. DESCRIPTION
4. Product: StrandTec Direct Attach cementitious wood fiber acoustical ceiling panel as manufactured by ASI Architectural.
5. Product Options:
	1. Panel Composition: Excelsior bonded with inorganic binder, Portland cement.
	2. Panel Thickness: (1”) / (1-3/8”) / (2”)
	3. Panel Size: (24” x 48”) / (24” x 96”) / (Custom sizes up to 24” x 96”)
	4. Edge Detail: (Bevel) / (Square)
	5. Finish: (Primed Clear) / (Primed White) / (Painted Custom)
	6. Mounting Method: Direct attachment
6. Product Performance:
	1. Acoustical Performance
		1. Noise Reduction Coefficient (NRC) per ASTM C423

|  |  |  |  |
| --- | --- | --- | --- |
| Thickness | 1” | 1-3/8” | 2” |
| A-Mount  | 0.45 | 0.55 | 0.75 |
| D-20 Mount (1” Airspace) | 0.50 | 0.60 | 0.75 |
| C-25 Mount (1” Acoustical Backer) | 0.80 | 0.80 | 0.90 |
| C-50 Mount(2” Acoustical Backer) | 0.85 | 0.90 | 0.95 |

* 1. Surface Burning Performance
		1. Fire Rating per ASTM E84: Class A.
		2. Contribution to Room Fire Growth per NFPA 286: Passed.
	2. Material Property Performance
		1. Luminous Reflectance per ASTM E1477: Primed Clear – 50. Primed White – 70.
		2. Fungal Growth per ASTM D3273: 10/10 Front/Back – No Defacement (100% clear of fungal growth).
		3. Microbial Growth per Greenguard Microbial Growth Test: 4 – Highly Resistant to Mold Growth.
		4. VOC Levels per CDPH Standard Method V1.2: Passed (unpainted).
1. ACCESSORIES
2. Accessories with Options:
	1. Custom paint (factory applied) / (field applied) if “Painted Custom” finish option selected.
	2. Cellulose Acoustical Backer: (None) / (1”) / (2”)

PART 3 EXECUTION

1. EXAMINATION
2. Verification of Conditions**:**
	1. Inspect installation area and conditions under which work is to be performed for compliance with all manufacturers’ environmental requirements.
	2. All wet work in the installation area must be complete, cured, and dry prior to installation.
	3. Work above ceilings shall be complete, inspected, and accepted before ceiling work begins.
3. INSTALLATION
4. Comply with manufacturer’s instructions and recommendations for installation of acoustical wall and ceiling panels and with industry standards.
5. CLEANING
6. Clean surfaces of ceiling panels per manufacturer’s instructions.
7. Remove and replace damaged or discolored material and material that cannot be properly cleaned.
8. PROTECTION
9. Protect installed work from damage due to subsequent construction activity, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the owner.

END OF SECTION