Johns Manville

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**SECTION 072100**

**SOUND ATTENUATION FIRE BATT**

PART 1 - GENERAL

* 1. SUMMARY
		1. Section Includes: Mineral wool insulation for the following applications:
			1. Interior partition insulation.
			2. Concealed building insulation.
			3. Sound attenuation insulation.
	2. RELATED WORK
		1. Refer to the following Sections for related work and insulation not included in this Section:
			1. Division 07 Section – Membrane Roofing for roofing insulation.
			2. Division 07 Section – Fire-Resistive Joint Systems.
			3. Division 09 Section – Gypsum Board Assemblies for acoustic insulation.
			4. Division 22 Section – Plumbing Insulation.
			5. Division 23 Section – HVAC Insulation.
	3. REFERENCES
		1. ASTM International (ASTM):
			1. ASTM C612 - Standard Specification for Mineral Fiber Block and Board Thermal Insulation.
			2. ASTM C665 - Standard Specification for Mineral Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
			3. ASTM C1104 - Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation.
			4. ASTM C1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings.
			5. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			6. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
			7. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 C.
		2. GREENGUARD Environmental Institute: GREENGUARD Certification Program.
	4. SUBMITTALS
		1. Product Data: Submit manufacturer’s product data sheets including the following:
			1. Product performance data.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Installation methods.
	5. QUALITY ASSURANCE
		1. Source Limitations: Obtain insulation from a single manufacturer.
		2. Fire-Test-Response Characteristics: Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.
			1. Surface Burning Characteristics: ASTM E84
			2. Combustion Characteristics: ASTM E139
	6. DELIVERY, STORAGE, AND HANDLING
		1. Deliver insulation materials to Project site with original packaging unbroken and labeled with manufacturer's name, product brand name and type, and directions for storage.
		2. Store materials in clean, dry area in manufacturer's unopened packaging until ready for installation and in accordance with manufacturer's instructions and temperature recommendations.
		3. Handle and store insulation materials in a manner to avoid damaging materials.

PART 2 - PRODUCTS

* 1. MANUFACTURERS
		1. Manufacturer: Johns Manville; P.O. Box 5108; Denver, Colorado 80217-5108. Toll Free: 800- 654-3103. Tel 303-978-2434. Web: [www.jm.com.](http://www.jm.com/)
	2. SOUND ATTENUATION FIRE BATTS
		1. Unfaced, Rock-Wool-Fiber Blanket Insulation: ASTM C665, Type I (blankets without membrane facing).
			1. Material: Inorganic fibers derived from basalt, with thermosetting resin binder.
			2. Emissions: GREENGUARD Indoor Air Quality Certified for low chemical emissions.
			3. Size: 6 inches thick, 16 inches wide, 48 inches long.

Surface burning characteristics – ASTM E84: Maximum flame spread: 0, Maximum smoke spread: 0

* + - 1. Combustion characteristics - ASTM E136 Noncombustible: Pass

PART 3 - EXECUTION

* 1. PREPARATION
		1. Examine substrates and conditions under which insulation work is to be performed. A satisfactory substrate is one that complies with requirements of the section in which substrate and related work is specified.
	2. INSTALLATION
		1. Installation: Install rock-wool in strict accordance with manufacturer’s recommendations and written instructions, including the following:
			1. Install insulation in cavities formed by framing members to produce a snug friction fit between edges of insulation and adjoining framing members. Avoid excessive compression.
			2. If more than one length is required to fill a cavity, provide lengths that will fit tightly end-to-end.
			3. Walls with penetrations may require insulation to be carefully fit around outlets, junction boxes, and plumbing.
			4. Install in proper relationship with adjacent construction.
	3. PROTECTION AND CLEANING
		1. Protect materials from damage during installation and subsequent construction. Repair or replace damaged products before Substantial Completion.

END OF SECTION