

## SPRAYED ACOUSTIC INSULATION

### PART 1 - GENERAL

- 1.1 RELATED WORKS AND SECTIONS  
Section 09820 – Acoustical Treatments
- 1.2 WORK INCLUDED: Provide all labor, materials and equipment necessary to provide a complete installed application of sprayed thermal insulation applied to areas indicated on the drawings and described herein.
- 1.3 QUALIFICATIONS OF APPLICATORS: All firms of applicators performing the Work of this Section must be approved by the manufacturers of the sprayed thermal material and shall also have been in business for a minimum period of three (3) years.
- 1.4 SAMPLES: If requested, provide samples, minimum 4" x 4" of sprayed insulation bonded to a piece of rigid board.
- 1.5 MANUFACTURER'S LITERATURE: Copies of the manufacturer's literature, clearly indicating conditions of acceptance and methods of applications shall be available on site before, and during, period of application of Work of this Section.
- 1.6 DELIVERY: Materials to be delivered to the site in original labeled and unopened packages.
- 1.7 STORAGE: Materials to be stored on site in a warm, dry place and either on a concrete floor or a wood platform. Monoglass Bonding Adhesive must be kept from freezing at all times.
- 1.8 ENVIRONMENTAL CONDITIONS
  - a) Work on this Section shall only be performed under the conditions stated in the manufacturer's printed application instructions.
  - b) Sufficient heat and ventilation must be provided at all times during installation and drying of spray insulation according to manufacturer's printed instructions.
- 1.9 PATCHING: All patching and repairing of sprayed thermal insulation due to cutting by other trades shall be performed under this Section and paid for by the trade performing the cutting.

- 1.10 PROTECTION
  - a) Provide adequate protection to adjacent surfaces from being sprayed by means of drop cloths, polyethylene sheets, with necessary taping.
  - b) Close off and seal any ductwork in areas where sprayed insulation is being applied.
- 1.11 MANUFACTURER'S REPRESENTATIVE: Allow the manufacturer's representative full access to the site.

### PART 2 – PRODUCTS

- 1.1 MATERIALS
  - a) Spray-applied materials shall be SONOGLASS Spray-On White Fiber conforming to ASTM E84, ASTM C423 and ASTM C518 using MONOGLASS Liquid Bonding Adhesive manufactured by Monoglass Incorporated.
  - b) Thermal /acoustic insulation shall not contain asbestos, free crystalline silica or combustible fibers, and shall exhibit the following properties:

PROPERTY	TEST METHOD	RESULTS
Fire Hazard Classification	ASTM E84-07	Flame Spread = 0 Smoke Developed = 0
Air Erosion	ASTM E859	0.11 gram mass loss
Dry Density	ASTM D-1622-83	3.0 pounds/cubic foot
Thermal Conductivity	ASTM C-518	R-Value 3.73/inch
Noise Reduction Coefficient	ASTM C-423	NRC = 1.00 @ 1.7" on solid backing NRC = 0.75 @ 0.8" on solid backing

- c) MONOGLASS Bonding Adhesive shall be mixed with fresh, clean water to the exact proportions recommended by the manufacturer.

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## PART 3 - EXECUTION

### 3.1 EXAMINATION

Examine all surfaces and conditions to which the work of this section is to be applied. Ensure they are adequate to provide a satisfactory application of the specified materials. Report any deficiencies to the design authority.

### 3.2 PREPARATION

- a) Remove any dust, dirt, foreign material, loose paint etc. on surfaces to which the work is to be applied, which could otherwise create a false bond or staining of insulation. Clean and seal as required.
- b) Verify bond requirements and compatibility of all surfaces to receive thermal insulation materials.
- c) Ensure that all ducts, piping, equipment, or other items, which would interfere with application of thermal insulation, are not positioned until thermal insulation work is completed.

### 3.3 APPLICATION

- a) Mix and apply thermal insulation in strict accordance with manufacturer's recommendations.
- b) Apply insulation to the substrate as specified in the site drawings.
- c) Apply insulation to substrate in sufficient thickness to achieve required thermal (acoustic) value.

### 3.4 CLEAN-UP

- a) Remove sprayed thermal insulation from material and surfaces not specifically required to be insulated.
- b) Broom clean work areas affected by the Work of this Section.

### 3.5 TAMPING & OVER-SPRAY

- a) Board tamp sprayed insulation surface and apply Monoglass adhesive to seal the tamped insulation surface, in accordance with manufacturer's written instructions.

### 3.6 OPTIONS

- b) Paint as required, or apply spray insulation using manufacturer's pre-tinted adhesives, as per manufacturer's instructions.

### 3.7 SURFACE PROTECTION

- a) If surface protection is required, spray-apply InsulSeal protective coating to desired thickness as indicated on coverage chart.