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

2.1 MATERIALS
   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.

### 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.

END OF SECTION