"SATAC" SYSTEM
3-PART SPECIFICATION

PART 1 – GENERAL

Sprayed Cellulose Thermal Acoustical Insulation

1.01 SUMMARY

A. The work to be performed under this section shall include all materials, equipment, labor and services required to install the sprayed cellulose fiber in accordance with these specifications.

1.02 RELATED WORK

A. Attachments to spray surface, such as clips, hangers, supports, sleeves, and roof penetrations, must be installed and completed before the application of sprayed insulation.

B. Ducts, piping, conduit or other suspended equipment shall be positioned after the application of sprayed insulation.

1.03 SYSTEM DESCRIPTION—QUALITY ASSURANCE

A. Contractor must use a total system, encompassing fiber, adhesive and primer (if required) as supplied and tested by the manufacturer. No substitution may be made.

B. Contractor must be licensed, insured and bonded.

C. Contractor must be experienced or trained by the manufacturer or equivalent manufacturer.

D. Product must meet or exceed specified requirements.

E. A representative surface of not less than 100 square feet shall be sprayed and approved by the architect and/or owner prior to proceeding.

1.04 SUBMITTALS

A. Manufacturer's written certification that product contains no ammonia-based fire retardant, asbestos, fiberglass or other man made mineral fibers.

B. Submit product data and manufacturer's certificate upon request.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Materials shall be delivered in original, unopened containers bearing name of manufacturer, product and labeled with appropriate reference to ASTM standard.

B. Store materials off ground, under cover and away from damp surfaces and always keep material dry.

C. Protect liquid adhesive and primer from freezing.

PART 2 – PRODUCTS

2.01 MANUFACTURER

A. Fiberlite Technologies, Inc.
3605 E. 25th Street
Joplin, Missouri 64804
(800) 641-4296 phone
(417) 781-8335 fax
sales@fiberlitetech.com

2.02 MATERIALS

A. "SATAC" Spray Applied Thermal Acoustical Cellulose Insulation is manufactured from recycled newsprint with a minimum of 80% paper fiber content. The fibers are treated with sodium polyborate to create permanent flame resistance. Resists the flow of heat and air infiltration, due to its density and method of installation. Does not contain asbestos, mineral fibers, formaldehyde or ammonium based additives. Is non-toxic, non-corrosive, will not attract insects and resists mold.

1. Color options include gray, tan, off-white, oyster or white.

2. STC rating is 34.

3. The sprayed insulation must meet ASTM C-423.
   Noise Reduction Coefficient (NRC): 0.75 for 1 inch application on Plasterboard. Average of coefficients for 250, 500 1000 and 2000 hz

4. Sound Absorption Coefficients:

125 hz: 0.09	1000 hz: 1.01
200 hz: 0.19	2000 hz: 1.00
250 hz: 0.23	4000 hz: 1.05
500 hz: 0.77	5000 hz: 1.09
800 hz: 0.99	

5. The sprayed insulation must be tested in sprayed form by NVLAB certified lab.

6. The sprayed insulation must meet ASTM E-84:

   Flame Spread: 5
   (Passing is less than 25)

   Smoke Developed:15
   (Passing is less than 450)

7. The sprayed insulation must meet appropriate Building Code Requirements.

8. Non-corrosive per HUD UMB No. 80 and ASTM C-739

   Tested materials:
   Steel, Copper, Aluminum

9. Adhesive/Cohesive Strength (ASTM E-73) is 1.36 psi. (Passing is 1.08 psi or higher)

10. Must meet CPSC 16 CFR and ASTM C-1149

PART 3 – EXECUTION

3.01 INSPECTION

A. The installing contractor shall examine all surfaces and report all unsatisfactory conditions in writing to the general contractor and architect. The work shall not proceed until unsatisfactory conditions are corrected.

B. Installing contractor must determine whether surface must be primed/sealed prior to insulating to ensure proper bonding.

3.02 PREPARATION

A. Provide masking, drop cloths or other satisfactory coverings for all materials/ surfaces which are not to receive insulation to prevent damage from overspray.

B. Coordinate installation of the sprayed cellulose fiber with work of other trades whose work may be affected or have an effect on the installation of the sprayed cellulose fiber.

C. Prime surfaces as required by manufacturer or examination.

3.03 INSTALLATION

A. Installed thickness will be determined as the minimum thickness measured as per ASTM E-605 field test procedure.

B. Installation shall be accomplished according to the manufacturer's recommendations and common construction standards.

C. Provide natural or mechanical ventilation continuously to properly cure the insulation.

D. Remove and dispose of over-spray material.

- END OF SECTION -

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