

**Section 09530
Celbar Spray-On Systems
Specification Guide 1097**

PART 1 - GENERAL

1.01 Work Included:

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 and as indicated on the drawings if applicable.

1.02 Related Work:

- A. All rough plumbing, electrical, telephone and data lines must first be completed by other trades prior to application of the sprayed application.
- B. Clips, hangers, supports, sleeves and other attachments to spray bases are to be placed by other trades prior to the application of sprayed insulation. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application of sprayed insulation.

1.03 Systems Description/Quality Assurance:

- A. Contractor must use a total system, encompassing equipment, fiber and adhesive as supplied and tested by the manufacturer. No substitution may be made.
- B. Fibers supplied under this specification shall have each bag coded with the date and lot number of manufacture, and retained samples shall be kept by the manufacturer for not less than one year.
- C. Contractor approved by the manufacturer.

1.04 Submittals:

- A. Submit product data and manufacturer's certificate that the product meets or exceeds specified requirements.
- B. Manufacturer's written certification that product contains no asbestos, fiberglass or other man made mineral fibers.

1.05 Product Delivery, Storage and Handling:

- A. Materials shall be delivered in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials off ground, under cover and away from damp surfaces and keep material dry at all times.

1.06 Alternates:

- A. A request for alternate products must be made in writing by a bidding General Contractor not less than 10 days prior to bid for written approval of the Architect. All requests must include documentation as outlined in this specification and meet all requirements therein. A product sample not less than 12" x 12" must accompany each request.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturers:

- A. International Cellulose Corporation
12315 Robin Boulevard
Houston, Texas 77045
(713) 433-6701 or (800) 444-1252
FAX: (713) 433-2029

2.02 Materials:

- A. Celbar Spray-On Systems.
 - 1. Thermal Resistance values: R=3.8 per inch.
 - 2. The sprayed insulation must have been tested in sprayed form by U.L. and have each bag labeled with the reference to U.L. test results according to ASTM E-84/U.L. 723:
 - a. Tested at a minimum of 4" thickness, Class I (A)
 - b. Flame Spread 15
 - c. Smoke Developed 0
 - 3. The sprayed insulation must meet appropriate Building Code Requirements.
 - 4. One Hour Rating per ASTM E-119 Full Scale Test Procedure.
 - 5. Test report that material meets requirements of UMB-80 for FHA, VA and HUD projects.
 - 6. Combustion toxicity per University of Pittsburgh Protocol:
LC (50) must not be less than 50 grams.

PART 3 - EXECUTION

3.01 Inspection-Preparation-Installation:

- A. Examine surface scheduled to receive insulation for voids, projections, foreign substances on surfaces, lack of caulking at plates, or other items, which might interfere with integrity of complete wall system.
- B. Assure that rough plumbing, electrical conduit and boxes, and other items required to penetrate the sprayed soundproofing are installed before applying soundproofing.

- C. The work shall be coordinated with other trades whose work may be affected or have an effect on the installation of the sprayed cellulose fiber.
- D. Apply material with specially designed nozzle using pressure recommended by the manufacturer.
- E. Spray-force material into all cracks, holes, seams; seal around electrical receptacles, telephone, television jacks, ducts and plumbing.

- F. Installation, clean-up and curing shall be accomplished according to the manufacturer's recommendations and common construction standards.
- G. Provide natural or mechanical ventilation continuously to properly cure the insulation.

3.02 Protection:

- A. Protect finished installation under provision of section 01500 and 01535.

3.03 Schedule:

- A. Provide a schedule when insulation requires listing by thickness, insulation value, STC values and other attributes.