

Celbar®

07210 ICC
Buy Line 3462

Wall Spray Insulation

CSI 09530

www.celbar.com

SYSTEM DESCRIPTION

celbar is a blend of specially prepared cellulose fibers, organic in nature, treated with adhesive and fire resistant chemicals. When sprayed in place, the interlocking fibers result in a mass that produces excellent sound and thermal properties.

celbar is pneumatically spray-applied in wall and floor/ceiling cavities to form a monolithic coating. This process seals cracks and holes in the wallboard, around plumbing and electrical outlets, vent ducts and other irregularities. There are no compressed areas or voids to allow sound leaks, R-value reduction, or air infiltration.

PERFORMANCE WHERE IT COUNTS

celbar provides superior sound transfer control demanded by building designers, owners and occupants. **celbar** assemblies perform closer to lab tested STC ratings in the field than do other conventional batt and sound board systems. This is due to the complete coverage and the sealing action of **celbar**. The performance of **celbar** compared to other identically constructed wall systems, as documented by laboratory tests is shown below.

2 1/2" Metal Studs With 1/2" Gypsum Wallboard - both sides.	
TEST	RESULT
A. No Sound Control material used	31 STC
B. 2 1/2" sound barrier batt	33 STC
C. 2 1/2" sound barrier batt and 1/2" cellutex board	37 STC
D. 1 1/2" Celbar Spray	49 STC

PHYSICAL PROPERTIES

THERMAL PROPERTIES

Thickness	1.0"	2.5"	3.5"
R-Value	3.8	9.5	13.3

FIRE HAZARD CLASSIFICATION

Underwriters Laboratories;
Reference #R-5499.

LISTINGS

- ICBO-Approval Number 2262
- Southern Building Code-Approval Number 9566
- HUD-FHA-VA-Permits the use of **celbar** in projects they finance-based on **celbar**'s compliance with UMB-80

ASTM E-119 FIRE RATING - ONE HOUR

celbar has been tested in accordance with ASTM E-119 including hose stream test and is accepted for use in hourly fire-rated wall assemblies.

- Sound transmission control for partition walls and plumbing
- Thermal insulation
- Hourly rated partitions

STC RATING METAL STUD CONSTRUCTION

55 2 5/8" metal studs, 2 layers 5/8" gypsum board on one side, 1 layer 5/8" gypsum board on the opposite side: 2 1/2" **celbar Spray**.

53 3" metal studs, 1 layer 5/8" gypsum board on each side: 2" **celbar Spray**.

51 2 1/2" metal stud 24" O.C. faced both sides with 5/8" gypsum wallboard: 1 1/2" **celbar Spray**.

WOOD STUD ASSEMBLIES

58 2"x4" stud on a 2"x6" plate spaced 16" O.C. and staggered on opposite sides, faced on both sides with 5/8" gypsum wallboard: 1 1/2" **celbar Spray**.

56 2"x4" stud 16" O.C. on two separate 2"x4" plates with 1" separation. Faced on one side with 5/8" gypsum wallboard and 1/2" gypsum wallboard other side: 1 1/2" **celbar Spray**.

51 2"x4" wood studs, 1 layer 5/8" gypsum board on each side: 3 1/2" **celbar Spray**.

50 2"x4" wood studs, 1 layer 5/8" gypsum board on each side: 2" **celbar Spray**.



Notable *Celbar* Projects



Monte Carlo Hotel & Casino
Las Vegas, NV



Bellagio Hotel & Casino
Las Vegas, NV

Wyndham Hotel
Palm Springs, CA

Four Seasons Hotel
Beverly Hills, CA

Oasis Casino & Hotel
Gulfport, MS

Radisson Hotel
Orlando, FL



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Section 09530 Celbar Spray-On System Specification Guide

Part 1-General

1.01 Section Includes

- Edit acoustical where required
- A. Sprayed cellulose thermal and acoustical insulation.

1.02 Related Work

- A. All rough plumbing, electrical, telephone and data lines must be first completed by other trades prior to the application

1.03 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, and free of ammonium based additives.
- C. Copy of manufacturer's ISO 9002 certification.

1.04 Quality Assurance

- A. Manufacturer must be ISO 9002 Certified.
- B. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratories.
- C. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architect and/or owner prior to proceeding.

1.05 Delivery, Storage, and Handling

- A. Deliver in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials dry, off ground, and under cover.

Part 2 - Products

2.01 Acceptable Manufacturers

- A. International Cellulose Corporation
12315 Robin Blvd.
Houston, TX 77045
(713) 433-6701 or (800) 444-1252
(713) 433-2029 - fax.

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 UL and have each bag labeled with the reference to UL test results according to ASTM E-84 / UL 723:

- a. Tested at a minimum of 4" thickness, Class 1 (A)
 - b. Flame Spread 15
 - c. Smoke Developed 0
- 3. Comply with local building code requirements.
 - 4. Fire Rating: 1 Hour per ASTM E-119 Full Scale Test Procedure.
 - 5. Comply with requirements of UMB-80 for FHA, VA and HUD projects.

Part 3 - Execution

3.01 Examination

- A. Examine surfaces 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 systems. Examine surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Assure that rough plumbing, electrical conduit and boxes, and other items required to penetrate the sprayed surface are installed before applying insulation.
- C. Spray-force material into all cracks, holes, seams; seal around electrical receptacles, telephone, television jacks, ducts and plumbing.

3.02 Preparation

- A. Provide masking, drop cloths or other satisfactory coverings for materials / surfaces that are not to receive insulation to prevent damage from overspray.
- B. Coordinate installation of the sprayed cellulose fiber with work of other trades.

3.03 Installation

- A. Thickness will be determined as the minimum thickness measured as per ASTM-E605 field test procedure.
- B. Install spray applied insulation according to manufacturer's recommendations. Apply material with specially designed nozzle using pressure recommended by the manufacturer.
- C. Cure insulation with continuous natural or mechanical ventilation.
- D. Remove and dispose of overspray.
- E. Protect finished installation under provisions of Division 1

Professionally Applied By: