

CSI MasterFormat® Filing:

Division 7: Thermal & Moisture Protection

07 21 00 Thermal Insulation

07 21 29 Sprayed Insulation

MANUFACTURER INFORMATION:

International Cellulose Corporation

12315 Robin Boulevard | Houston, Texas 77045

(713) 433-6701 or (800) 444-1252 | FAX: (713) 433-2029

1. PRODUCT DESCRIPTION:

Celbar Spray is a **Thermal** and **Acoustical** cellulose insulation used as an insulation in wall and floor/ceiling cavities for its acoustic and thermal benefits. Celbar's monolithic coating absorbs and reduces sound transmission between walls and provides an R-value of 3.7 per inch.

Celbar is a blend of 80% Pre-Consumer Recycled cellulose, dry adhesives, and a natural fire-retardant. ICC trained applicators spray-apply the material with water through a specially designed nozzle to activate the dry adhesive in the fire retardant treated fibers. When sprayed in place, the interlocking fibers result in a mass that produces excellent sound and thermal properties.

2. BASIC USE:

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. Celbar can be sprayed to virtually any exterior stud or furred cavity, and in most cases, the wall can be closed as soon as the construction schedule permits.

3. SOUND PERFORMANCE:

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. Wall assemblies and STC ratings are available on the following page.



SUSTAINABLE CREDIT CATEGORIES: LEEDV2.2

MATERIAL REUSE:

1 POINT MR CREDIT 3.1: MATERIALS REUSE: 5%

1 POINT MR CREDIT 3.2: MATERIALS REUSE: 10%

Celbar Insulation is salvaged and re-used so that there is no waste-material on the job site.

RECYCLED CONTENT:

1 POINT MR CREDIT 4.1: RECYCLED CONTENT: 10%

1 POINT MR CREDIT 4.2: RECYCLED CONTENT: 20%

Celbar: 80% Pre-Consumer Recycled Content

REGIONAL MATERIALS:

1 POINT MR CREDIT 5.1: REGIONAL MATERIALS: 10%

1 POINT MR CREDIT 5.2: REGIONAL MATERIALS: 20%

Celbar is manufactured in Houston, Texas

LOW-EMITTING MATERIALS:

1 POINT EQ CREDIT 4.1: LOW-EMITTING MATERIALS:

ADHESIVES & SEALANTS

1 POINT EQ CREDIT 4.2: LOW-EMITTING MATERIALS:

PAINTS & COATINGS

1 POINT EQ CREDIT 4.4: LOW-EMITTING MATERIALS:

COMPOSITE WOOD & AGRIFIBER PRODUCTS

Celbar does not contain any added urea-formaldehyde resins.

TECHNICAL DATA:

ASTM STANDARDS COMPLIANCE

ASTM C 518	Thermal Conductivity
ASTM C 739	Cellulose Fiber
ASTM C 1149	Spray-Applied Cellulose Insulation
ASTM E 84	Surface Burning Characteristics
ASTM E 90	Sound Transmission Loss
ASTM E 119	Fire Test

ASTM C 518: Thermal Conductivity

R-Value: 3.75 PER INCH

ASTM E 84: Surface Burning Characteristics

CLASS 1, CLASS A RATED per ASTM E-84, UL-723

Flame Spread 15

Smoke Development 0

MISCELLANEOUS CODE APPROVALS & SPECIFICATIONS

UNDERWRITERS LABORATORIES - Classified Code Compliance
Report UL ER 5499

**CELBAR DOES NOT CONTAIN SILICA DUST, ASBESTOS,
MINERAL OR GLASS FIBERS, OR PCB'S.**



ASTM E 90: Sound Transmission (STC)

STC Ratings of wall assemblies insulated with Celbar/Cellulose Spray. Testing done with full scale assemblies. Testing available on request.

METAL WALL ASSEMBLIES

STC	ASSEMBLY
60	24" OC 4" METAL STUDS TWO LAYERS 5/8" GYPSUM BOARD EACH SIDE RESILIENT FURRING ONE SIDE 3-1/2" CELLULOSE SPRAY TEST #TL-94-024
51	24" OC 6" METAL STUDS ONE LAYER 5/8" GYPSUM BOARD EACH SIDE 6" CELLULOSE SPRAY TEST #TL-93-298

WOOD WALL ASSEMBLIES

STC	ASSEMBLY
54	16" OC 6" PLATE 2X4" WOOD STUDS TWO LAYERS 5/8" GYPSUM BOARD ONE SIDE ONE LAYER 5/8" GYPSUM BOARD ONE SIDE 5-1/2" CELLULOSE SPRAY TEST #TL-93-232
57	16" OC 2X6" STAGGERED WOOD STUDS TWO LAYERS 5/8" GYPSUM BOARD EACH SIDE RESILIENT FURRING ONE SIDE 5-1/2" CELLULOSE SPRAY TEST #TL-93-108
62	16" OC 6" PLATE 2X4" STAGGERED WOOD STUDS TWO LAYERS 5/8" GYPSUM BOARD EACH SIDE RESILIENT FURRING ONE SIDE 5-1/2" CELLULOSE SPRAY TEST #TL-93-236

STAGGERED STUD PARTITIONS

STC	ASSEMBLY
41	SINGLE LAYER 5/8" GYPSUM BOARD EACH SIDE NO INSULATION TEST #NGC 2008020
48	SINGLE LAYER 5/8" GYPSUM BOARD EACH SIDE 5-1/2" CELBAR SPRAY Test #NGC 2008023
55	SINGLE LAYER 5/8" GYPSUM BOARD EACH SIDE SINGLE LAYER 5/8" SOUNDBREAK™ ONE SIDE 5-1/2" CELBAR SPRAY TEST #NGC 2008024
51	DOUBLE LAYER 5/8" GYPSUM BOARD EACH SIDE NO INSULATION TEST #NGC 2008019
56	DOUBLE LAYER 5/8" GYPSUM BOARD EACH SIDE 5-1/2" CELBAR SPRAY TEST #NGC 2008025
59	DOUBLE LAYER 5/8" GYPSUM BOARD EACH SIDE SINGLE LAYER 5/8" SOUNDBREAK™ ONE SIDE 5-1/2" CELBAR SPRAY TEST #NGC 2008027