

celbar
spray-on systems®

**HIGH
PERFORMANCE
INSULATION**

The Natural Choice®

**Commercial
Residential
Superior Insulation
Superior Sound Control**



**INTERNATIONAL
CELLULOSE
CORPORATION**





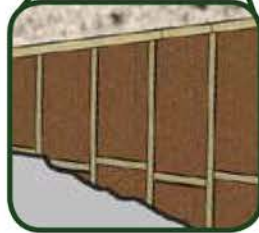
WHAT IS CELBAR?

Celbar is natural cellulose fibers. These select natural fibers are combined in a unique process with the highest quality fire retardants. Celbar effectively reduces sound and heat transfer by creating dead air spaces between and within its fibers.

HOW DOES CELBAR WORK?



Celbar encompasses the entire cavity and has an R-value of 3.8 per inch. Celbar also stops air infiltration, keeping a cool house cool, and a warm house warm.



WILL IT SAVE ME MONEY?

Celbar is an investment that brings you returns each month on your utility bill and continues to ultimately perform to put monthly savings in your pocket.

LOCAL UTILITY INCENTIVES

Check with your local utility company about their programs that will allow you to insulate your home and receive even more benefits than “just” savings on your monthly bills.

TAX CREDITS

The Federal Government has provided incentives and tax credits to better insulate your home. But the tax laws are constantly changing. For the latest information visit <http://www.energystar.gov> or www.irs.gov.

WHY CELBAR?

Celbar greatly reduces air infiltration which is a major contributor to energy costs. Celbar seals cracks and holes in the wallboard, around plumbing, electrical outlets, vent ducts, and other irregularities.



STEP ONE: A unique spray-applied application in walls, floors, or ceilings that fully insulates around plumbing and wiring, reducing air infiltration and creating a comfortable environment.

STEP TWO: Applied just beyond the studs ensuring maximum coverage, Celbar is planed flat creating an even, complete thermal barrier.



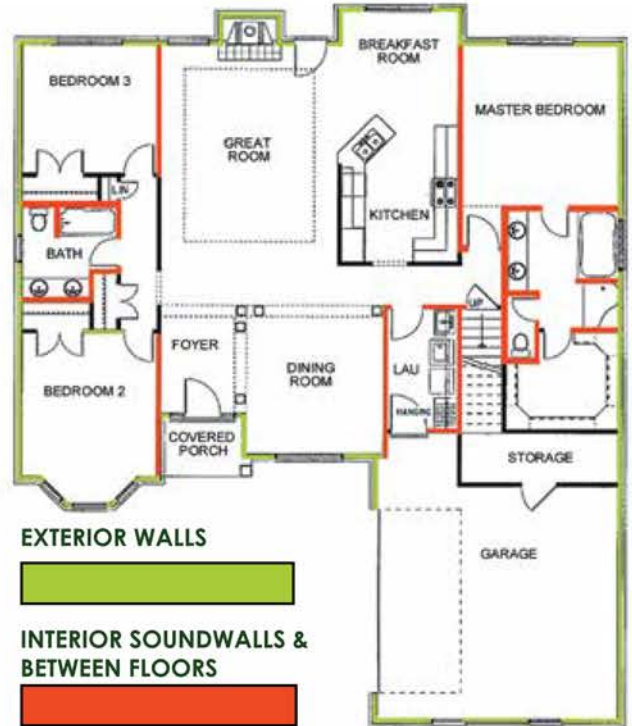
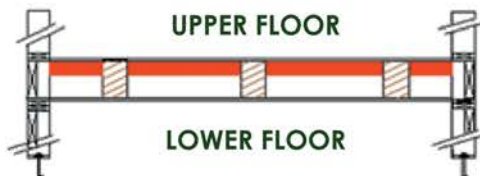
THE NATURAL CHOICE[®]

SOUND CONTROL

With the popularity of home entertainment centers, surround sound speaker systems and other sound sources, interior noise pollution must be addressed. Applying Celbar wall spray within interior walls greatly reduces the sound that moves through the wall providing a quieter, more comfortable room.

REDUCE NOISE BETWEEN FLOORS

Celbar Wall spray, applied between floors of multi-level dwellings helps reduce airborne noise such as voices, radios, televisions and other annoying sounds. In combination with resilient channels, Celbar wall spray reduces the impact or foot-fall noises that are very common.



COMPARE INSULATIONS

Shown here is a comparison of Fiberglass and Celbar. Note that fitting around pipes and wires compresses fiberglass, affecting its overall R-Value. Also, Fiberglass leaves air gaps around electrical outlets and other irregularities.



How do they compare?	Celbar	Fiberglass	Foam
R-Value per inch	3.8	2.1 - 3.1	3.6
Resists air flow	YES	NO - Air Filter	Yes
Fills without gaps or voids	YES	NO - Gaps & Voids	NO - Voids
Sound Transfer Control (STC)	50	38	0
Smoke Developed when burned	None	50	400*
Released gasses after installation	None	Formaldehyde	Isocyanates**

*In most house fires, it's not the flames that cause injury or death, but rather smoke inhalation. Smoke also creates confusion and can obscure fire exits.

**Health effects of isocyanate exposure include irritation of skin and mucus membranes, chest tightness, and difficulty breathing. Isocyanates include compounds classified as potential human carcinogens and known to cause cancer in animals. The main effects of hazardous exposure are occupational asthma and other lung problems, as well as irritation of the eyes, nose, throat, and skin.



**DOESN'T ITCH
FIRE RESISTANT**



CELBAR IS ONE OF THE GREENEST BUILDING PRODUCTS IN THE WORLD.

What makes Celbar so great? The fact that when you use Celbar, not only are you making life more comfortable for you and your family, it's also Earth friendly.

Takes less energy to make than any other insulation

Made out of recycled paper

Reduces the amount of energy needed to heat or cool a building

Fire resistant

Helps prevent greenhouse gasses

Type	Installation Methods	R-value per inch (RSI/m)	Raw Materials	Pollution From Manufacture	Indoor Air Quality Impacts	Comments
Celbar	Loose-fill, wall-spray (damp), dense pack, stabilized	3.8	Old Newspapers, cardboard, borates. 80% Recycled material	Negligible	Fibers and chemicals can be irritants	High recycled content and very low embodied energy
Fiberglass	Batts, Loose-fill, semi-rigid board	3.0-4.0 (15-28)	Silica sand, limestone, boron, recycled glass, PF resin or acrylic resin	Formaldehyde emissions and high energy use during manufacture	Fibers can be irritants	High embodied energy
Mineral Wool	Loose-fill, batts, semi-rigid or rigid board	2.8-3.7 (19-26)	Iron ore blast furnace slag, natural rock, PF binder	Formaldehyde emissions and high energy use during manufacture	Fibers can be irritants	High embodied energy; Rigid board can be an excellent foundation drainage and insulator
Cotton	Batts	3.0-3.7 (21-26)	Cotton and polyester mill scraps (especially denim)	Negligible	Considered safe	Two producers, so transportation pollution is higher than other insulation
Closed-cell spray polyurethane foams	Spray-in cavity-fill or spray-on roofing	5.8-6.8 (40-47)	Fossil fuels; HFC-24.5fa blowing agent; non-brominated flame retardant	High energy use during manufacture; global warming potential from HFC blowing agent	Quite toxic during installation (respirators or supplied air required); allow several days of airing out prior to occupancy	Very High embodied Energy
Open-celled, low-density polyurethane foam (Soy)	Spray-in cavity-fill	3.6-3.8 (25-27)	Fossil fuels and soybeans; water as blowing agent; non-brominated flame retardant	High energy use during manufacture 30,000 BTU	Quite toxic during installation (respirators or supplied air required); allow several days of airing out prior to occupancy	Very High embodied Energy

Celbar has always been formulated with Borates and is free of all ammonia additives.

Cellulose also meets all Federal regulations and ASTM standards for fire safety, in accordance with UL 723 and ASTM C1149-08.

MOLD & MILDEW TESTED

SGS U.S. Testing Company Inc - Test Report No.: 337856-3R
 Aerobiology Laboratory Analysis - Test Report No.: 20 0275-01
 Consulting Materials Engineers - Test Report No.: CO1-392



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