

# OSCAR ACOUSTICS

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# Celbar

The Natural Choice

## Cellulose Insulation



Celbar cellulose insulation is a blend of recycled specially prepared cellulose fibres, organic in nature and treated to make it fire retardant. Tests have shown that when packed together, this natural cellulose insulation material is acoustically and thermally more effective than man-made mineral wool.

### Acoustically:

Typically used as the cavity filler in walls or between floors either in conventional rigid construction or in isolated systems e.g. **SonaCel** for higher performance (see SonaCel product page).

Celbar cellulose insulation can either be sprayed into the cavity before the void is closed OR where a void is already closed it is blown by hose through holes to improve the acoustic insulation of walls and/or ceilings. When two layers of plasterboard are used, the Celbar cellulose insulation is blown in before the second layer is fitted.

A simple wall construction of 63mm thick metal studs lined with 12mm plasterboard on each side was tested:

**[a] with no sound control material used – Result 31 STC**

**[b] with mineral wool sound barrier batt – Result 33 STC**

**[c] with 38mm of sprayed Celbar – Result 49 STC**

Celbar cellulose insulation provides superior sound transfer control demanded by designers, owners & occupants.

Older properties with ornate ceilings benefit with Celbar cellulose insulation blown into the ceiling void reducing noise from rooms above. It is blown into the void through small holes cut into flat areas of the ceiling and repaired afterwards or if major refurbishment is taking place it is filled from above by lifting floorboards.

**Acoustic performance guide filling floor void space, typical overall improvement better than - 9dB**

### Applications:

<b>Party walls</b>	– Hotels
<b>Between floors</b>	– Apartments
<b>Around plumbing silencing water noise</b>	– Restaurants
	– Pubs & Entertainment Venues
	– Offices
	– Schools

**Holiday Inn, Sheraton and Intercontinental Hotels use Celbar cellulose insulation to ensure Client comfort**

### Thermally

Consider a wooden rod versus a glass rod over a heat source. The glass rod conducts heat readily, the wooden rod doesn't. Traditional mineral wool insulation is a mass of small glass rods, additional insulating power is lost when it is compressed and it is uncomfortable to work with.

Thermal performance guide filling floor void space, typical  $U = 0.25 \text{ W/m}^2\text{K}$ .

**Lofts are insulated quickly and efficiently with Celbar cellulose insulation.**

### Health & Safety

There are no known serious risks to health associated with Celbar cellulose insulation. It is non-carcinogenic and any small release of

fibre during installation or subsequent maintenance work is not hazardous or considered a 'Health and Safety' risk. Celbar cellulose insulation is not subject to legislation applicable to mineral or vitrified fibre.

## A Green Product

The fibre is organic cellulose derived entirely from recycled macerated paper and treated with a borax compound to protect against fungus, insects and rodents. It also has fire protection built in. Celbar cellulose insulation has excellent thermal resistance and provides a high degree of thermal insulation. Recycled material and a low manufacturing energy requirement combine to produce probably the most environmentally friendly material used in building construction, low CO2.



### Low Embodied Energy - Good for the Environment - Easy Disposal - Recyclable

Naturally safe recycled cellulose fibre. Reconstruction of a building may necessitate removal of Celbar cellulose insulation fibre. It can be recycled or disposed of as a non-special waste to landfill - your local authority waste disposal will give advice on recycling. **Incredible!**



ISO 9001 : 2000  
Certified by OTS  
Quality Registrars, Inc.

Celbar is manufactured by  
ICC, Houston, Tx  
ISO 9001: 2000 certification



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