

## Acoustical Panels

### The Product:

Acoustical panels manufactured by Cellulose Material Solutions, LLC (CMS) are an industry first cellulose-based material. Consisting of 65-75% recycled content, CMS products represent a very GREEN solution for acoustical materials. CMS acoustical products are an innovative, yet sustainable, alternative to traditional fiberglass and synthetic acoustical and thermal panels, and are true performers in a variety of different applications.

### Green Attributes:

Made from a combination of recycled and renewable fibers, CMS products are environmentally responsible and sustainable products. Plus, most CMS products are completely recyclable, and no scrap is produced during manufacturing or installation of the material. CMS also creates a "greener" manufacturing process by reducing energy use and air pollution.

### Acoustical Performance:

The open design and density of CMS acoustical panels increases sound absorption to control and deaden sound. CMS acoustical panels achieve high Noise Reduction Coefficient (NRC) ratings based on the density specified. The chart below represents NRC ratings using a standard weight material. Sound Transmission Classification (STC) ratings have been done for specific applications. STC values are determined by all of the construction materials in an assembly. The STC ratings exceed the values attained with commonly used acoustical materials.



### Applications:

CMS products can be used in any area that calls for acoustical or thermal treatment. CMS products can be covered with fabric or other decorative materials. Limited fire testing has been done with polyester coverings.

### Size Availability:

CMS products can be delivered in standard 4 x 8 size or can be custom cut for unique applications. CMS products can be supplied in varied thicknesses. Widths can be up to 94 inches (2.4 meters).

### Manufacturer:

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### Acoustical Testing Data:

Product Thickness		Absorption Coefficients @ Octave Band Center Frequencies (HZ)						
in.	mm	125	250	500	1,000	2,000	4,000	NRC
.5	13	0.05	0.09	0.33	0.64	0.87	1.01	0.50
1.0	25	0.09	0.26	0.84	1.05	1.05	1.05	0.80
1.5	38	0.14	0.40	0.93	1.09	1.03	1.03	0.85
2.0	50	0.39	0.63	1.18	1.11	1.06	1.09	1.00

### Physical Property Data:

Property	Test Method	Value
Surface Burning Characteristics	ASTM E-84, UL 723	Flame Spread: 15 Smoke Developed: <450 (Class A)
Critical Radiant Flux	ASTM E-970	>0.12 w/cm <sup>2</sup>
Corrosiveness	ASTM C-739	Acceptable
Fungal Growth	ASTM C-1338	Acceptable
Thermal Resistance	ASTM C-518	3.6 - 3.7 R per inch
Moisture Absorption	ASTM C-739	Acceptable
Odor Emission	ASTM C-1304	Acceptable