cellulose material solutions,llc

Submittal Sheet

Acoustical Panels

The Product:

Acoustical panels manufactured by Cellulose Material Solutions, LLC (CMS) consist of at least 70% recycled content from recycled and renewable fibers. CMS products represent a very sustainable solution for acoustical materials. CMS acoustical products are an innovative, yet eco-friendly, alternative to traditional fiberglass and synthetic acoustical and thermal panels, and are true performers in a variety of different applications.

Applications:

CMS product 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 acoustical products can be delievered in standard 4 x 8 size or can be custom cut for desired applications. Widths can be up to 98" (2.48 meters)
- Thicknesses can be customized from: 0.25" to 5.5"
- Densities can be customized from: 1.4 to 13.0 pcf

Manufacturer:

Cellulose Material Solutions, LLC
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Sustainable Attributes:

Made from a combination of recycled and renewable fibers, CMS products are environmentally responsible and sustainable. Plus, CMS products are recyclable or reusable. In an effort to be a zero waste manufacturer, no scrap is produced during the manufacturing or installation of the material. CMS also creates an eco-friendly manufacturing process by reducing energy use and air pollution in production.

Acoustical Performance:

The open design and density of CMS acoustical panels increases sound absorption to control and deaden sound. Our panels achieve high Noise Reduction Coefficient (NRC) ratings based on the density specified. The chart 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.

Acoustical Testing Data

Product Thickness		Absorption Coefficients @ Octave Band Center Frequencies (HZ)						
in.	mm	125	250	500	1,000	2,000	4,000	NRC
0.5	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)
Vehicle Flammability Critical Radiant Flux	FMVSS-302-98 ASTM E-970	Meets Standard >0.12 w/cm^2
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