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MADA GYPSUM

MADA ACOUSTIC CEILING PANEL

Technical Data Sheet

TDS-CT-R09-Rev2 Mada Acoustic Ceiling Panel - 2024

Advantage

Mada Acoustic Ceiling Panel is inorganic. Does not encourage growth of fungi and vermin.

Mada Acoustic Ceiling Panel is chemically inert. Application does not cause or accelerate corrosion. Mada Acoustic Ceiling Panel is rot proof and odorless.

Product Description

Mada Acoustic Ceiling Panel is highly efficient, resilient, semi-rigid to rigid insulation composed of fine, stable, and uniformly textured inorganic glass fibers bonded together by a non-water soluble and fire-retardant thermosetting and heat resistant resin.
It is free from coarse fibers and shot due to its mineral composition.

Field of Application

For use in commercial, institutional, industrial, and residential construction as thermal and acoustical insulation for the interior, exterior partitions, cavity walls construction, floor, prefabricated houses, and precast structures.

Manufacturing Standard

- Mada Acoustic Ceiling Panel complies to ASTM C665, ASTM C411, ASTM C356, ASTM C165, ASTM C1104, ASMT C1338, ASTM E84 and UL 723.

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Technical Specification

Parameters	Standard	Specifications			
Density	ASTM C303 ASTM C167	24kg/m^3	56kg/m^3	56kg/m^3	72kg/m^3
Thickness	ASTM C303 ASTM C167	100mm	25mm	50mm	20mm
Thermal Performance @ 24 °C	ASTM C518	-	-	-	-
Thermal Conductivity @10 °C	ASTM C518	0.032W/mK	0.032W/mK	0.032W/mK	0.031W/mK
Thermal Resistance @10 °C	ASTM C518	3.1m^2.K/W	0.8m^2. K/W	1.6m^2. K/W	0.6m^2. K/W
Maximum Working Temp.	ASTM C411	232°C	232°C	232°C	232°C
Linear Shrinkag	ASTM C356	N/A	< 2%	< 2%	< 2%
Compressive Resistance @ 10% deformation	ASTM C165	N/A	> 1.2 kPa	> 1.2 kPa	> 1.2 kPa
Corrosiveness	ASTM C665	Passed	Passed	Passed	Passed
Water Vapor Absorption	ASTM C1104	<1 % by weight	<1 % by weight	<1 % by weight	<1 % by weight
Surface Burning Characteristics Flame Spread Index Smoke Developed Index	ASTM E84 UL 723	- ≤ 25 ≤ 50	- ≤ 25 ≤ 50	- ≤ 25 ≤ 50	- ≤ 25 ≤ 50
Fungi Resistance	ASTM C1338	Does not promote fungi growth	Does not promote fungi growth	Does not promote fungi growth	Does not promote fungi growth
Odor Emission	ASTM C1304	No unpleasant odor	No unpleasant odor	No unpleasant odor	No unpleasant odor
Rigidity	ASTM C1101	Flexible	Rigid	Rigid	Rigid
Shot Content	ASTM C1335	0.00	0.00	0.00	0.00
Glossy (Light Reflectance)	ASTM D523	-	30 ~ 60	30 ~ 60	-
Sound Absorption Coefficient (NRC)	ASTM C423	1.25	0.90	1.05	0.95
Standard Specification Compliance	-	ASTM C 553 ASTM C665	ASTM C 612	ASTM C 612	ASTM C612 ASTM C 1071
Jacketing/Facing	-	Unfaced	Random Fissure	Random Fissure	Unfaced
Size	ASTM C303 ASTM C167	600x600mm*	600x600mm*	600x600mm*	600x600mm*

*Other sizes available on demand.

Handling and Storage

- Unpack material at application site to avoid unnecessary handling of product. Keep work areas clean.
- Avoid unnecessary handling of scrap material and debris by placing such materials in suitable containers, which should be kept as close to the work area as possible.
- Ensure good ventilation. Local exhaust ventilation may be required if the method of use produces dust levels which exceed applicable exposure limits.
- Avoid excessive eye and skin contact with dusts and fibers.
- Use recommended cleanup procedures to avoid buildup of dusts and fibers in the work area.
- Material Storage - keep material in original packaging until it is to be used. Store material to protect against adverse conditions including precipitation.

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Health Hazard

- Inhalation: inhalation of dust can cause nose, throat, lungs, and upper respiratory tract irritation. Persons exposed to dust may be forced to leave the area because of nuisance conditions such as coughing, sneezing, and nasal irritation.
- Eye Contact: direct contact will cause some mechanical irritation.
- Skin Contact: may cause transitory mechanical dermatitis.

General Note

Part of Mada Drywall System: System performance warranty only by using the proposed Mada system and should not be used for purposes other than those shown on the Mada Technical Proposal.