



DESIGN AND SPECIFICATIONS

Description

Solo-M panels consist of a perforated no-added urea formaldehyde, fire rated, medium density fiberboard (MDF) core, with a natural wood veneer laminated to the face and an acoustically transparent black mat laminated to the back side. Solo-M can be used for wall or ceiling applications.

Panels are manufactured to the required size(s) based on shop drawings. Cutting in the field should not be required. There are three design profiles available – with ribs on 8mm (5/16”), 16mm (5/8”), and 32mm (1 1/4”) centers. The panel can be stopped grooved, or fully grooved.

Solo-M is available pre-finished in clear lacquer or unfinished for post application by others. The panels can be manufactured with custom lacquer toning and sheen to match other wood finishes. Standard veneer lay-up is slip matched and quarter cut. Other veneer cuts, lay-up and paint finishes are available.

Design Considerations

Solo-M panels are engineered to specified sizes with maximum width and length restrictions for varying applications:

MOUNTING	MAX WIDTH	MAX LENGTH
Ceiling (Direct Mount)	36"	72"
Wall (Direct Mount)	48"	96"
Ceiling (Ceilencio)	30"	60"

Note: Consult Decoustics for other sizes and custom applications.

Solo-M panels can be mechanically mounted (Z-clip & track) to furring for walls or ceilings, and can be integrated into most of Decoustics suspended ceiling systems, including the Ceilencio® downward access integrated ceiling system.

Solo-M panels can be precurved.

Solo-M panels weigh approximately 9.75kg/m² (2 lbs/ft²)

Decoustics Solo-M Wood Panels

Additional Product Information

ORDERING: As with most millwork products, Solo-M is a longer lead time item, and should generally be dealt with early in a project, since field dimensions, veneer, samples and drawing approvals are required.

Custom matched or sequenced veneers may take longer and should be reviewed with Decoustics in advance of ordering.

ENVIRONMENT: Solo-M panels must be stored, installed, and maintained only in a stable ambient environment (relative humidity of minimum 35% - maximum 55%, temperature to be maintained between 20 - 27°C (68-80°F)) Solo-M panels must be allowed to stabilize on site for 72 hours prior to installation.

FIRE TEST DATA: Solo-M panels achieve a Class A (flame-spread of 25 or less) when tested in accordance with ASTM E-84 procedures.

After Installation – Maintenance Requirements

Solo-M Acoustic Wood panels are manufactured using real wood veneers and engineered wood components and should be cared for like all other architectural wood products. When cleaning, vacuum panel surfaces using a non-marring, natural bristle head. Avoid hard or very short bristle cleaning heads.

Minor surface scuffing or scratches can be removed by lightly rubbing the affected area with a dry, clean pad of #0000 fine steel wool. Do not over apply. Avoid using water or a damp cloth on large surfaces as this may affect the stability of the membrane surface. Aerosol furniture polishes can be used on small areas, however, do not spray directly on the surface of the acoustic membrane. Apply small amounts on a soft cloth and rub gently.

Wood is a hygroscopic material and under normal use conditions all wood products contain some moisture. Wood readily exchanges this molecular moisture with water vapor in the surrounding atmosphere according to existing relative humidity. In high humidity, wood picks up moisture and swells and in low humidity, gives up moisture and shrinks. These uncontrolled extremes may affect the structural integrity of the panels and cause visual problems. To avoid this, relative humidity should always be maintained between 35% and 55% in the area where panels are installed.

For repair of fractured or badly damaged panels, consult Decoustics for advice.

FINISH	PANEL THICKNESS	FREQUENCY (Hz)						NRC	SAA
		125	250	500	1000	2000	4000		
Type D Mounting									
Solo-M	16 mm (5/8") with 27 mm air gap *	0.15	0.21	0.60	0.87	0.82	0.53	0.65	0.62
Type F Mounting									
Solo-M	16mm (5/8") with 1" Fiberglass	0.21	0.48	1.12	1.02	0.69	0.58	0.85	0.84
Solo-M	16mm (5/8") with 2" Fiberglass	0.58	0.86	1.21	1.00	0.75	0.61	0.95	0.97
Type E400 Mounting									
Solo-M**	16mm (5/8") Panel No Core	0.84	0.91	0.65	0.67	0.63	0.77	0.80	0.79

Note: *To be installed with wood blocking or steel furring channel.

** For higher NRC values, contact Decoustics

Note: The information provided in this Data Sheet is accurate to the best of our knowledge at the time of printing. However, we reserve the right to make changes when necessary without further notification. Suggested applications may need to be modified to conform with local building codes and conditions. We cannot accept responsibility for products that are not used, or installed to our specifications. Please refer to our website for most current data.

Note: Only handle panels wearing clean, lightweight, white gloves during installation. Follow manufacturer's printed instructions for installation as well as field cutting of panels.



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 Solo-M_DATASHEET

