



DESIGN AND SPECIFICATIONS

Description

Rondolo® panels consist of micro perforated natural wood veneer laminated to no-added Urea Formaldehyde (NAUF) core and an acoustic black matt laminated to the back side of the panel. Perforations are a nominal 0.50mm and spaced apart 1.7mm horizontally and 1mm vertically. Rondolo® panels can be used for wall or ceiling applications.

Panels are manufactured to the size(s) required using the specified veneer; cutting in the field should not be required.

Rondolo® panels are 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. Veneer lay-up is produced as slip matched, quarter cut as a standard. Other veneer cuts and lay-up options are available.

Design Considerations

Rondolo® 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.

Rondolo® panels can be mechanically mounted (Z-clip & track) to furring for walls or ceilings, and can be integrated into most of Decoustics ceiling systems, including Ceilencio® 100% downwardly accessible suspension system.

Rondolo® panels can also be pre-curved.

Rondolo® panels weigh approximately 9.75kg/m² (2lbs/ft²)

Additional Product Information

ORDERING: As with most millwork products, Rondolo® has a longer lead time, and should 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: Rondolo® 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)). Rondolo® panels must be allowed to stabilize on site condition for at least 72 hours prior to installation.

FIRE TEST DATA: Rondolo® panels achieve Class A rating based on third party ASTM E84 testing on finished panels (composite test).

After Installation – Maintenance Requirements

Rondolo™ High Performance Acoustic Wood panels are manufactured using real wood veneers and engineered wood components and therefore should be cared for as all other architectural wood products are. 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 very 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 F5 Mounting									
Rondolo®	16mm (5/8") Panel *No Fiberglass Backing	0.07	0.09	0.22	0.60	0.96	0.38	0.45	0.46
Type F25 Mounting									
Rondolo®	16mm (5/8") Panel 25mm (1") Backing	0.26	0.51	1.10	1.01	0.85	0.54	0.85	0.87
Type E400 Mounting									
Rondolo®	16mm (5/8") Panel **No Fiberglass Backing	0.87	0.95	0.69	0.79	0.81	0.60	0.80	0.81
Rondolo®	16mm (5/8") Panel 25mm (1") Backing	0.74	0.86	0.87	1.01	0.88	0.61	0.90	0.89
Rondolo®	16mm (5/8") Panel 50mm (2") Backing	0.76	0.80	1.03	1.02	0.89	0.61	0.95	0.92

Type F5 Mounting: Panels are mounted 5mm from the substrate

Type F25 Mounting: Panels are mounted 25mm from the substrate

Type E400 Mounting: Panels are mounted 400mm from the substrate

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.