



## DESIGN AND SPECIFICATIONS

### Description

Rondolo® is an acoustical wood plank product consisting of a perforated fire rated medium density fiberboard (MDF) with a micro perforated natural wood veneer laminated to the face and an acoustically transparent black mat laminated to the back side. The MDF core is a No Added Urea Formaldehyde (NAUF) standard core. The plank is cut to fit on site and is typically installed on wood or steel furring  $24" (610\text{mm})$  on center with insulation placed behind the panel. The plank width measures  $7\text{-}9/16" (192 \text{ mm})$  wide and up to  $120" (3050\text{mm})$  long. The planks have a tongue and groove edge which is blind nailed to wood or screwed to a steel furring channel using a concealed mounting clip to provide micro bevelled reveals simulating solid wood wall panelling.

**PROFILES:** Rondolo® planks are available pre-finished in clear lacquer. The planks 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.

Rondolo® is available in Beech, Cherry, Maple, and Ash veneers (quarter cut and pre lacquered), and paint finishes. Other finishes can be accommodated. Standard length is  $120" (3050\text{mm})$ .

### Standards, Tests & Approvals

**FIRE:** Rondolo® planks are Class A per ASTM E-84 with a flame spread of 25 or less.

*Note: Rondolo® is a dimensionally metric product. Imperial dimension equivalents stated in this document are rounded to the nearest fraction. When calculating exact equivalent dimensions, divide the metric (mm) dimension by 25.4.*

### Features and Advantages:

Specialized water-based, low VOC lacquer.

Class A fire rated finished product.

The open area percentage of Rondolo® is 6.9%.

Absorption characteristics can be modified by changing the substrate thickness.

### 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 veneer and samples approval may be required.

**SAMPLES:** Samples should be approved based on the finished product and not just a sample of veneer.

**TRIM OPTIONS:** Due to the dynamic nature of the core material, flush trimming is not recommended. The trim must overlap to capture the planks edges.

**PANEL WEIGHT:** A Rondolo® plank having an overall thickness of  $11/16" (\text{nom } 17.5\text{mm})$  weighs an average of 2 lbs. per sq. ft. ( $9.75 \text{ kg/m}^2$ ).

**SUGGESTED TOOLS:** Traditional woodworking tools are suitable for cutting Rondolo®. Decoustics recommends using large diameter chop saws or radial saws having a carbide blade with a sharp, thin-kerf, 80 tooth - at  $10" (254\text{mm})$  diameter - and alternating  $40^\circ$  bevel. Cut plank with face up to avoid scratching.

*Note: A traditional table saw would require the plank to be cut much slower to avoid tear-out or chipping. If cutouts are required for round fixtures, Decoustics recommends a router and template method using a quality spiral-down carbide flute cutting bit.*

**INSTALLATION:** Rondolo® planks should be installed by qualified finish carpenters in accordance with the Millwork and Acoustical Sections of the specification. Proper tools and construction skills should be employed.

**ENVIRONMENT:** Wood products are highly susceptible to changes in humidity and temperature. Close attention must be paid to acclimatization during installation, as per accepted millwork industry practice.

Rondolo® planks must be stored, installed, and maintained only in a stable ambient environment. The relative humidity must be maintained within 5% tolerance in the range of 35% to 55%, temperature to be maintained between  $20 - 27^\circ\text{C} (68\text{-}80^\circ\text{F})$  Rondolo® planks must be allowed to stabilize on site for 72 hours prior to installation.

# Decoustics Rondolo® Wood Plank

## After Installation - Maintenance Requirements

Rondolo® acoustical wood planks 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 plank 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. Any uncontrolled extremes may affect the structural integrity of the planks and cause visual problems. To avoid this, relative humidity should always be maintained between 35% and 55% in the area where planks are installed.

For repair of fractured or badly damaged planks, consult the factory for advice.

*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 planks wearing clean, lightweight, white gloves during installation. Follow manufacturer's printed instructions for installation as well as field cutting of planks.*

## Acoustical Data (ASTM C423: Mounting as per ASTM E795).

| FINISH            | PLANK THICKNESS                             | FREQUENCY (Hz) |      |      |      |      |      | NRC  | SAA  |
|-------------------|---|----------------|------|------|------|------|------|------|------|
|                   |   | 125            | 250  | 500  | 1000 | 2000 | 4000 |      |      |
| Type F5 Mounting  |   |                |      |      |      |      |      |      |      |
| Rondolo®          | 5/8" (16mm) Plank<br>*No Fiberglass Backing | 0.07           | 0.09 | 0.22 | 0.60 | 0.96 | 0.38 | 0.45 | 0.46 |
| Type F25 Mounting |   |                |      |      |      |      |      |      |      |
| Rondolo®          | 5/8" (16mm) Plank<br>1" (25mm) Backing*     | 0.26           | 0.51 | 1.10 | 1.01 | 0.85 | 0.54 | 0.85 | 0.87 |

*Type F5 Mounting: Planks are mounted 5mm from the substrate*

*Type F25 Mounting: Planks are mounted 25mm from the substrate*

*\*Planks with 6 to 7 lbs/cu.ft. 1" (25mm) thick regular fiberglass.*



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