

Section 095426 – SoundPly® Lino RF Acoustical Planks v4.3

Please fill out areas highlighted in yellow to complete the spec.

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general conditions of the contract, including general and supplementary conditions and division 1 specification sections, apply to the work of this section.

1.2 SUMMARY

- A. Section includes:
 - 1. Sound absorptive planks
- B. Related sections
 - 1. Section 01350 – Special Environmental Requirements
 - 2. Section 095300 – Acoustical Ceiling Suspension Systems (by others)
 - 3. Section 095100 – Acoustical Ceilings
 - 4. Section 092116 – Gypsum Board Assemblies (by others)
 - 5. Section 09800 – Acoustical Treatment

1.3 SUBMITTALS

- A. Comply with Section 013300 – Submittal Procedures
- B. **Product Data:** Manufacturer's technical data and installation instructions for each type of plank required.
- C. **Certifications:** Certified test reports showing compliance with performance requirements specified.
- D. **Samples:** Submit a minimum of three (3) samples of each panel type and finish type required. Include samples that show the range of variation expected in grain, texture and color.
- E. **Shop Drawings:** Submit shop drawings, including details, for all surfaces. Coordinate plank layout, installation and suspension system components. Show overall layout with dimensions and details of penetrations and intersections with other materials or building components.

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- F. **LEED Requirements:** Where specified, submit required documentation indicating compliance.
- G. Submit operation and maintenance data for installed products. Include precautions relating to harmful cleaning materials and methods that would affect the service life of the planks.

1.4 QUALITY ASSURANCE

- A. **Single Source Responsibility:** Provide acoustic planks from a single manufacturer with at least 5 years of prior experience fabricating projects of similar size and complexity.
- B. **Installer:** Installation shall be done by qualified carpenters with at least 2 years experience in the installation of architectural woodwork or acoustical systems. Installers must receive training on handling, cutting, machining and field finishing the specified product prior to receiving materials on site.
- C. **Fire Performance Characteristics:** Class A as tested by an independent accredited testing facility. Tests: ASTM E84. Flame spread: 25 or less. Smoke developed: 450 or less as specified by state or local codes.
- D. **Applicable LEED Credits:**
 - 1. MRc4 Recycled Content
 - 2. EQ 4.4 Low-Emitting Materials
 - 3. Material Ingredient Disclosure – Option 1
 - 4. EQ 9 Enhanced Acoustical Performance
- E. **Coordination of Work:** Installing contractor shall organize and conduct a pre-installation survey of temperature, humidity and construction elements attaching, penetrating or concealed behind the acoustic planks.

1.5 REFERENCES

- A. **Test Methods:**
 - 1. **ASTM C423** Sound absorption and sound absorption coefficients by the reverberation room method performed by an independent testing agency
 - 2. **ASTM E84** Standard test method for surface burning characteristics of building materials
 - 3. **ASTM D1037** Linear expansion with change in moisture content
 - 4. **Standard Method Version 1.2 for CDPH01350** Volatile organic compounds

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver planks to the project in original, unopened packages. Inspect containers for visible damage and report any questionable condition to the shipper and manufacturer immediately.
- B. Store products in a fully enclosed, clean, dry space out of direct sunlight and protected from damage with temperature controlled between 50 and 86 degrees F.
- C. Handle products carefully to avoid damaging plank surfaces or chipping edges. Report any damage immediately. Installation of damaged planks is not covered by the manufacturer's warranty.

1.7 PROJECT CONDITIONS

- A. Do not install acoustic planks until space is enclosed and weather-proofed, wet work is completely dry and ambient temperature and humidity conditions are maintained at the levels indicated for the project when occupied for its intended use.
- B. Permit planks to reach room temperature, 50 to 86 degrees F, and stabilized moisture content of 25% to 55% RH for at least 72 hours before installation per AWI standards. Building should be enclosed and HVAC systems functioning in continuous operation with relative humidity maintained between 25 and 55 percent.

1.8 WARRANTY

- A. Provide manufacturer's standard one-year written product warranty per Section 01770 – Closeout Procedures
- B. Manufacturer's warranty is limited to decorative or acoustical materials only. Other components used in the acoustic system are excluded. Refer to the appropriate provisions in the related specification section.

1.9 MAINTENANCE

- A. **Maintenance Instructions:** Provide manufacturer's standard maintenance and cleaning instructions for finishes provided.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. Provide planks utilizing SoundPly® acoustic panels manufactured by Navy Island Inc., 275 Marie Avenue E, St. Paul, MN 55118, Ph. (651) 451-4454, email soundply@navyisland.com

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2.2 MATERIALS

- A. **SOUNDPLY® Lino RFM Planks for Interior Installation:** **Select** Lino PL-RFM-19 (3/4") or Lino PL-RFM-25 (1") or Lino PL-RFM-38 (1 1/2") or Lino PL-RFM-51 (2") thick acoustical planks as follows: Real wood veneer laminated to a fiberglass reinforced polymer or a UV printed/painted surface applied to an MDF skin. Surface skin thickness shall not be less than 1.5mm (0.060"). The core of the planks shall be comprised of a Class A sintered resin-reinforced glass wool.
- B. **Planks Edge Treatment:** Planks will be edge banded with the matching materials and finish, or as specified by the architect, to match or contrast with the plank face.
- C. **Planks Spacing:** **Select** Spacing between planks is 1/8" open reveal or 1/4" x 1/4" closed reveal with matching wood spline or other.
- D. **Planks Weight:** PL-RFM-19 = 1.4 lbs./ft², PL-RFM-25 = 1.8 lbs./ft², PL-RFM-38 = 2.2 lbs./ft², PL-RFR-51 = 2.6 lbs./ft²
- E. **Planks Sizes:** **Select** Planks are available in the following sizes.
1. Plank Width: (nominal 6", 8", 12" or custom), actual 5 7/8", 7 1/2" or 11 1/8"
 2. Plank Length: (4', 6', 8' or 10').
- F. **Plank thickness:** **Select** PL-RFM-19 (3/4"), PL-RFM-25 (1"), PL-RFM-38 (1 1/2"), PL-RFM-51 (2")
- G. **Flame Resistance:** Lino Planks are composed of SoundPly® RF panels which have a Class 1(A) rating based on ASTM E84 standard test method for surface burning characteristics in building materials. Depending on the use and the type of veneer selected, Lino Planks can be used in Class A environments (IBC Chapter 8 Section 803).
- H. **Perforations:** Planks will be furnished with perforated faces consisting of 0.5mm (0.02") diameter holes in an offset pattern. The perforations must be clean without rounded edges or grain pull out between perforations. **A minimum of 99.5% of the perforations must be acoustically functional, providing unobstructed passage into the core.** Perforations must maintain consistent diameter through the face material and backer with no tapering or roughness.
- I. **Acoustic Performance:** To generate the standing sound waves required for resistive absorption, each plank must have an acoustically reflective back surface that extends the plank's full length and width. Each plank must achieve a minimum NRC test value as stated **without any cavity space or back loading:** **Select**
- Lino PL-RFM-19 (3/4" thick) .70 NRC
 - Lino PL-RFM-25 (1" thick) .90 NRC
 - Lino PL-RFM-38 (1 1/2" thick) .95 NRC
 - Lino PL-RFM-51 (2" thick) 1.0 NRC

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- J. **Plank Stability:** Linear contraction or expansion to not exceed 0.4% maximum variation in width or height per ASTM D1037.
- K. **VOC Emissions:** Planks must be third party certified to be in compliance with CDPH01350 for volatile organic compounds.
- L. **Finish for Veneer Faced Planks:** **Select**
 - 1. Species as selected by the architect.
 - 2. Cut: *(plain sliced, quartered/rift, rotary)*
 - 3. Matching veneer leaves: *(Planks over 12" are available as slip, book or random match. Planks under 12" will be book matched.)*
 - 4. Finishes shall be applied in the shop: *(clear, stained, painted or UV printed as selected by architect and designer.)*

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Inspect installation area and conditions under which work is to be performed for compliance with all manufacturer's environmental requirements. All wet work in the installation area must be complete, cured and dry prior to installation. Do not proceed until all unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Installation must be done by qualified carpenters with 2 years experience in the installation of architectural woodwork or acoustic systems. The firm must demonstrate successful experience installing materials of similar type and quality of those required for this project. The use of proper carpentry tools and techniques will be required for the installation.
- B. Comply with manufacturer's instruction and recommendations for hanging planks.
 - 1. For a suspended grid, install using Bayonet Clips, which impale securely onto a plank's edge, then fasten to the, 15/16" suspended grid or hat channel using self-tapping screws.
 - 2. For direct mount, install using Bayonet Clips, which are impaled securely onto a plank's edge and fastened to pre-installed level furring strips. In certain instances, Bayonet Clips can be anchored directly into drywall using wide-thread drywall screws.
- C. Confirm all field dimensions are coordinated with shop drawings.

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3.3 ADJUSTING AND CLEANING

- A. Clean soiled surfaces of planks per manufacturer's instructions.
- B. Remove and replace damaged or discolored materials not in compliance with manufacturer's tolerances.

Contact information:

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END OF SECTION