

Architectural Surfaces, Inc.

123 Columbia Court North • Suite 201 • Chaska, MN 55318
952-448-5300 • Fax: 952-448-2613 • Toll Free: 1-800-448-3134

LINWOOD™

LINWOOD II & III™ – SPECIFICATIONS

ARCHITECTURAL SURFACES, INC. 952-448-5300

Section 13070 Special Acoustical Wood Linear Ceiling or Wall System

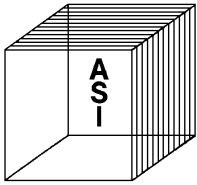
Part 1: General

1.1 Scope:

- A)** The work in this section shall be subject to the requirements of the General Conditions.
- B)** Work Included: Furnish all labor, materials, equipment and services required in conjunction with the installation of the wood linear ceiling (wall) system specified herein and identified on the drawings and schedules including:
 - 1) Suspension system (wall fastening system).
 - 2) Wood linear ceiling (wall) system.
 - 3) All factory applied and/or field installed accessories, wood moldings, or trim relating to the ceiling (wall) system.
 - 4) Integrated air diffusion (optional).
 - 4) Integrated lighting fixtures (optional).
 - 5) Factory prefinishing (optional).
- C)** Related work specified elsewhere:
 - 1) Painting or finishing (optional).
 - 2) Acoustical work.
 - 3) Mechanical connections to integrated air components (optional).
 - 4) Balancing of air distribution system (optional).
 - 5) Electrical connections to integrated lighting fixture (optional)
 - 6) Millwork.

1.2 Quality Assurance:

- A)** Manufacturer: The manufacturer shall have a minimum of three years experience in molding solid wood panel systems or laminating veneers to fire retardant substrates and shall have completed at least five projects of the scope and quality required by this project.
 - 1) The manufacturer shall have tested the lamination bond of the veneer to the substrate without showing signs of delamination, cracking or blistering.
 - 2) The manufacturer shall have complete installation drawings and instructions to insure a quality installation.



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1.2 Quality Assurance – Continued:

- B)** Contract Execution: The bidding subcontractors shall be approved by the manufacturer's local distributor/representative of the specified materials and shall be thoroughly experienced in this type of work.

1.2 Submittals:

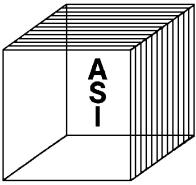
- A)** Contract Execution: The work of this section shall not be contracted for until all submissions required below have been completed and approved.
- B)** Test Data: Submit tests establishing compliance with all performance characteristics of the specification.
- C)** Shop Drawings: Submit shop drawings in detail of all work in scale to indicate size, location and attachment methods required for the installation of the required work.
- D)** Samples: Submit samples of portions of full size units showing jointing where such exists and methods of internal fastening as well as all other detailing required.

1.4 Warranty:

- A)** Submit at the time of submission of shop drawings, the manufacturer's warranty that the materials furnished hereunder will be free of manufacturing defects for a period of one (1) year. The manufacturer's warranty may be conditioned with a statement that damage resulting from wet job conditions, faulty construction, plumbing or ventilating systems is not covered by the warranty. The manufacturer's warranty is limited to replacement of defective material only, rather than installation of the same. Faulty installation shall be corrected by the installing contractor. The warranty required herein is the sole remedy against the manufacturer and there are no other implied warranties. In any event, the manufacturer shall not be liable for incidentals or consequential damages.

1.5 Substitute Products:

- A)** Proposal shall be based only on the specified product.
- B)** Alternate proposals for substitute products will not be accepted unless approved in writing via addenda.
- C)** Request for approval to submit an alternate proposal must be made a minimum of twenty-one (21) calendar days prior to bid date. Request must include test data, samples and product certification per paragraph 1.3 Submittals. If approval is granted an addenda will be issued, so stating a minimum of seven (7) calendar days prior to bid date.



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Part 2: Products

2.1 Suspension System:

- A) Materials: (Optional-ceilings only) The grid suspension shall be as manufactured by Chicago Metallic Corporation, Donn or approved equal.
- B) All main runners and cross runners shall conform to the heavy duty classification of ASTM C635.
- C) Main runners shall be installed 48" o.c. and be directly suspended by not less than 12 ga galvanized steel wire wrapped tightly at least three full turns. Suspension wires shall be straight and vertically installed not more than 48" o.c.
- D) Main runners shall be interconnected by cross tees to form a 2'x4' module.
- E) Wall channel moldings shall be standard cold rolled electrogalvanized steel.
- F) (Optional) wall spring clips shall be used on at least two adjoining walls behind the edge molding to allow for wood system expansion and contraction.

2.2 Sound Absorption Element:

- A) Materials: The acoustical blanket or panel shall be black matte faced fiberglass material of (1) (2) (3) pound density and shall be (1/2") (1") (1-1/2") (2") or (3") thick, to provide a noise reduction coefficient of _____%. All materials shall be Class 1 (A) with a flame spread index of 0-25.

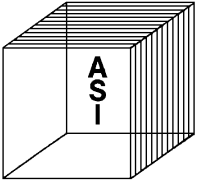
2.3 Wood Linear Ceiling (Wall) Panels:

- A) Materials: The linear ceiling (wall) panels shall be Linwood II with (flat cut) or (rift cut) _____ species of wood veneer. (Optional:) Linwood III, solid wood panels of (species as selected). Panels shall be (4") (6") nominal width panels, manufactured to provide a (1/4" to 7/8") wide open reveal between the panels. Panels shall be a minimum of _____" thick and shall be in random lengths.

(Optional) Linwood II panel substrate shall be Class 1 (A), flame spread index 0-25. Panel veneers shall be minimum of 1/28" in thickness of "architectural grade" and shall be applied by a hot press process on both sides to balance the panel.

(Optional) Linwood III hardwood panels shall be kiln dried to a moisture content of between 6% and 8% (softwoods 11 to 13%) and shall be precisely molded to a tolerance of .007" in width will square cut ends.

- B) Panel support clips shall be flat black noncorrosive .022 metal designed to install directly on to a standard 15/16" wide ceiling grid tee suspension system and shall not be installed more than 24" o.c. Clips shall be manufactured for variable placement on the tee system and to automatically space the panels with a (1/4") (1/2") (5/8") (3/4") reveal width between the panels. Clips shall be removable to provide access removal of the panels.



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2.3 Wood Linear Ceiling (Wall) Panels – Continued:

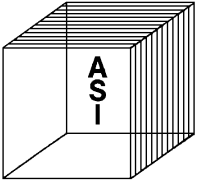
- C) Panel trim at edges, openings, or lighting fixtures shall be of solid wood in the same species as specified above.
- D) (Optional) Prefinished panels shall be custom stained with no. _____ as manufactured by _____. Surface finish shall be _____. (Number of coats and application procedures to comply with A.W.I. Finish System No. _____). Finish to be reviewed and accepted by the Architect/Designer prior to its application to the wood.
- E) (Optional) Linwood III solid wood panels are to be prefinished with ASI clear satin fire retardant finish and shall be Class “A” (1), flame spread index of 0-25, (Stained or finished as described above.) (Optional) Final overcoat shall be a clear (satin) (semigloss) (high gloss) abuse resistant finish and shall be Class “A” (1), flame spread index of 0-25.
- F) (Manufacturer and Design: The wood linear panels and/or accessories shall style no. _____ be as manufactured by Architectural Surfaces, Inc., (952) 448-5300

2.4 Air Distribution:

- A) (Optional) Air distribution units shall be specifically designed for compatibility with the ceiling system and integrate with (4") (6") ceiling panels. Air supply plenums shall have (2) (4) (6) slots to provide _____ CFM/Unit and shall be of 26 ga. galvanized steel with 1/2" thick acoustical insulation. The air pattern controls shall be flat black baked enamel and be reversible to provide a one way or two way throw. (Optional) Air distribution units shall have remote control butterfly damper cable operable from the room side.

2.5 Light Fixtures:

- A) (Optional). The lighting fixtures shall be (fluorescent) (incandescent) style no. _____ and shall be specifically designed for compatibility with the ceiling system.
 - 1) Fluorescent fixtures shall use (1) (2) (4) F40 T12 rapid start lamps as indicated on the drawings for fixture schedule. the fixture housing shall be finished in baked white enamel having a light reflection of not less than 85%. Balast shall be high power factor meeting CMB standards as certified by ETL, and carry a U.L. class P label. Lenses shall be (acrylic) (opal) (clear) (prismatic) (metal louver).
 - 2) Incandescent fixtures shall be (8S) (8R) (6S) (6R) (4S) (4R) style no. _____ furnished with specular Alzak aluminum reflector. Cone shall be (clear) (gold) (black) (black grooved baffle – mini baffle).



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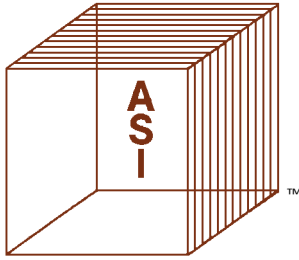
Part 3: Execution

3.1 Job Conditions:

Upon receiving and prior to the installation of the interior finish materials, the installing contractor shall completely read all of the manufacturer's instructions for storage, job conditions and the installation recommendations, and see that they are strictly complied with. Work shall not begin until the space is fully enclosed and glazed. All wet work is to be completed and dried out to the satisfaction of the architect. Temperature shall be at least 65 degrees Fahrenheit during the installation and thereafter. The installation contractor shall be responsible for the examination of all of the conditions and recommendations as set forth and shall not proceed until satisfactory conditions have been met.

3.2 Installation:

Installation shall be in strict accordance with the manufacturer's recommendations, project specifications and the contract drawings. Installation shall be performed by trained crews under the direction of a trained foreman. Finished appearance in all cases shall be in exact conformance with the contract documents.



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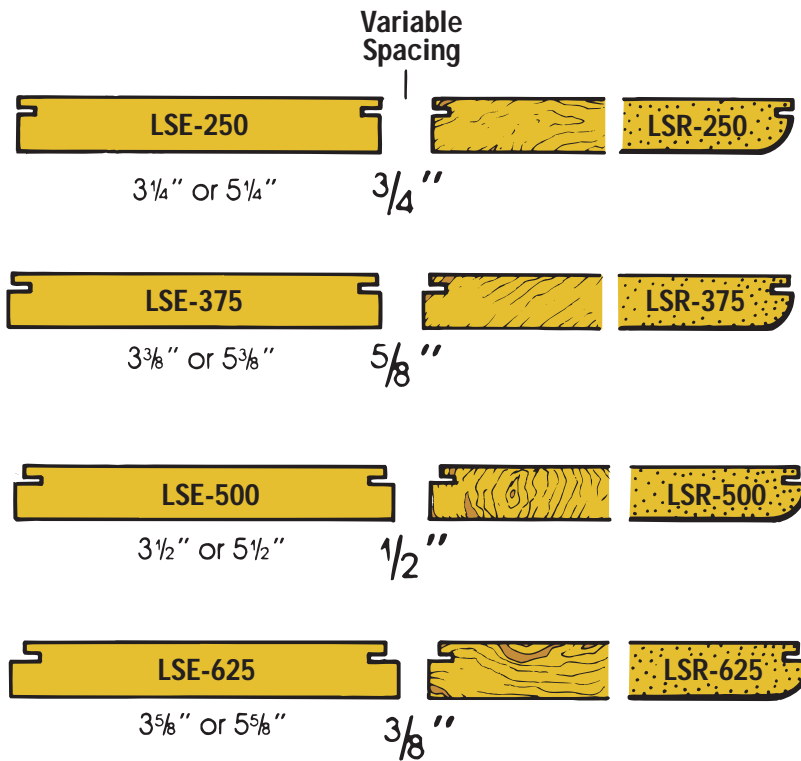
DISTINCTIVE WOOD & SPECIALTY ACOUSTICAL CEILING & WALL SYSTEMS

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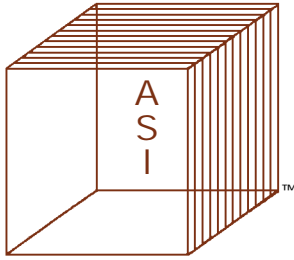
CEILING YOU CAN LOOK UP TO!

LINWOOD II or III Profiles

Solid Wood or Wood Veneer Class "A" Core
4" or 6" MODULES



9/16" Standard Thickness
(7/16", 5/8", or 3/4" Thickness Available)



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CEILINGS YOU CAN LOOK UP TO!



Willamette Industries, Inc.

Duraflake Particleboard Plant

2550 Old Salem Road NE
P.O. Box 428
Albany, Oregon 97321
(541) 928-3341
FAX: (541) 928-4116

Dear Steve Anderson
Architectural Surfaces Inc
June 15, 2000
123 Columbia Court North, #201
Chaska, MN 55318

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Dear Steve Anderson,

Thank you for your inquiry regarding Willamette Industries Duraflake FR and MR, our specialty particleboard products.

Duraflake FR is a Class A fire-rated wood corestock. The product has proven its excellent performance in the architectural woodwork industry for over 20 years. Duraflake FR is a particleboard substrate that is exceedingly well-suited for lamination with high-pressure decorative laminate and wood veneers. In addition, many other overlays have been applied to Duraflake FR, including, but not limited to: low pressure laminates, metal, glass, fabric, paper, vinyl, foils, and stone. The fire-retardant chemicals are an integral part of the particleboard construction and offer greater versatility than coated or pressure-treated products. The product can be sawed, bull-nosed, drilled, routed, shaped or precision machined without affecting the fire rating.

Furthermore, model codes allow that if a finish applied to the substrate is less than 1/28" (0.036"), the firerating of the substrate is unaffected and the entire construction carries the fire rating of the substrate.

Duraflake MR is a moisture resistant particleboard substrate that can be used in areas of high humidity or intermittent contact with water. Duraflake MR's many practical applications include institutional case goods, store and display fixture applications, storm door cores, mezzanine decking and many other situations where exposure to moisture is encountered.

Please review the enclosed materials describing Duraflake FR and MR. If you would like samples, or we can assist you with your specifications, please contact me.

Sincerely,

Geoff Gross
Sales Representative
Duraflake Division

Enclosures

Member: Composite Panel Association, PB-MDF Institute
Associate Member: Architectural Woodwork Institute; Kitchen Cabinet Manufacturers Association;
National Association of Store Fixture Manufacturers