

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™

INSTALLATION RECOMMENDATIONS & INSTRUCTIONS

CAUTION: Do Not Install Until Instructions Have Been Read Completely.

WARNING:

All solid wood products are cellular and are subject to expansion, contraction or warping. Under normal construction conditions, wood can expand or contract up to 1/8th of an inch per foot. Any wood veneered product is subject to blistering and/or crazing if exposed to excessive moisture, extremely dry conditions or sunlight. Panels **should not** be subject to high or low humidity, storage, should preferably be between 40 and 50 percent relative humidity. Storage, even for a short period of time, in areas where the humidity is over 60 or under 30 percent could cause permanent damage to the panels. (See Job Conditions). The manufacturer assumes no liability for expansion, contraction, warping, blistering, crazing or delamination to panels that may have been exposed to extreme conditions. For the best installation results these instruction must be followed exactly.

RECEIVING:

Check cartons for any obvious shipping damage to the panels; if you feel there is concealed damage, open cartons and inspect. Have driver sign for any damaged panels and the consignee shall file a freight claim with the carrier at once. **The manufacturer assumes no responsibility for filing freight claims or for shortages.**

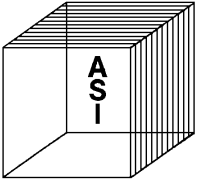
Make sure that all of the material ordered for the job has been received and is the proper style or styles and in the proper quantities.

If any panel appears to have manufacturing defects, do not install. The manufacturer's only obligation is replacing materials proven to be defective and that are returned for credit, within the terms and conditions of the sale. Notify the manufacturer or distributor/representative at once.

STORAGE:

Panels and moldings shall be stored in a flat horizontal position on wood blocking not more 12" o.c.

Protect all panel faces from exposure to moisture or to light with dark colored polyethylene or similar material. Do not store panels in damp areas or in freshly plastered buildings. Terrazzo grinding must be completed and cement cured. Storage space must be dry and well ventilated.



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JOB CONDITIONS:

Panels shall only be installed in areas where the same humidity and temperature conditions exist as will be in the final occupancy of the space. Do not install any panels in areas that are not fully enclosed or are exposed to dampness or moisture. **If panels are to be stored for more than one week, they should be totally sealed, front, back and all edges, to protect against the effects of moisture.**

Seventy-two hours prior to installation open all cartons or crates and lay panels in a flat horizontal position. Place lath spacers 12 inches on center below and between each row of panels to allow air to circulate around them. The panels must adjust to the temperature and humidity of the space they are to be installed to alleviate excessive expansion or contraction.

JOB FINISHING:

Solid wood panels and veneered panels are pre-sanded; subsequent grain raise, handling or tool marks must be removed before final finishing. Sand exposed surface lightly with No. 400 sandpaper. Never use steel wool on bare wood. **Apply sanding sealer to face, back, and all edges** to balance the panel. Apply one or two coats of varnish or lacquer to the exposed surfaces. Sand lightly between first and second coat. Be sure the finish doesn't violate local fire codes.

IMPORTANT NOTE – SOFTWOOD PANELS ONLY:

We do not recommend that a hard, non breathing, finishes such as lacquer, polyurethanes or varnish be used. Hard finishes may crack or craze. Clear stain sealers or wax finishes are recommended.

OILS, STAINS AND FILLERS:

Do not use water-based stains, combination stain-sealers are not recommended. Do not use penetrating oil stains, linseed oil or wax finishes.

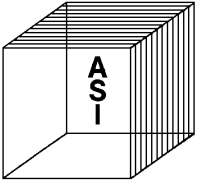
Danish or Swedish (quick drying) type oils are satisfactory. Apply moderately with a cloth, do not saturate the wood, wipe dry quickly with a clean dry cloth.

MINERAL STREAKING OR BLUE STAIN IN OAK:

Occasionally this may occur in oak panels by natural tannic acid in the wood. This does not show up in the manufacturing process, only after the veneer has come in contact with moisture. Should this occur, the stains can be removed, contact the varnish manufacturer for recommendations. Stained panels can also be used by cutting out streaked areas and installing as cut or end panels.

PRESSURE TREATED FIRE RETARDANT PANELS:

Panels that are chemically treated for flame resistance, Class 1, 0-25 flame spread, may be slightly discolored or have a whitish cast. This may occur if the panels are subject to high humidity conditions. The manufacturer assumes no liability if this condition occurs.



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CEILING SUSPENSION SYSTEM:

Lay out the room to find a center line so that the cut panels or reveals will be equal in width on both sides. Lay out the grid system so that main tees run parallel with the linear wood panels and are at right angles to the cross tees. With the 4" & 6" Linwood panel modules, it is recommended that the starting panel be laid out directly under, and centered on a main tee.

Box type edge moldings are recommended. Main tees and cross tees shall conform to heavy duty classification ASTM C635. Install main tees 4' o.c. with #12 pre-straightened galvanized steel wire not more than 4' o.c., wrapped tightly at least three full turns. Cross tees shall be installed 2' o.c. and not more than 4" from each parallel wall. (If grid system is existing, use a variable placement cross tees 4" from each parallel wall or to form a 2' module. Install extra hanger wires at lights or as required to support the wood panel system check with the grid system manufacturer for proper o.c. hanger spacings if in doubt.)

Note: on certain installations, due to ceiling layout it will make sense to run mains perpendicular to linear wood panels.

ACOUSTICAL BLANKET OR PADS:

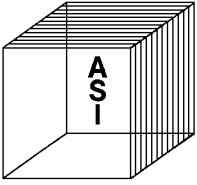
Roll out 4' wide black acoustical blanket between suspension wires and over the top of the 4' cross tees or lay in 2'x4' black acoustical pads. (If the ceiling is existing, the lay-in panels may have to be painted black.) If there is white printing on the black acoustical blanket, make sure the white printing is turned up into the plenum.

PANEL INSTALLATION:

Wood naturally varies in color and grain characteristics. It is recommended that panels be presorted before installation to assure a uniform final appearance.

Install black Linwood clips to cross tees 2' o.c. each side of the center line. Install starting panel directly under and centered on the line. Snap clips up to T-bar grid with thumb pressure and slide into kerf on panel edges to engage panels. Back screw through tee flange to permanently secure straight line. ASI recommends back screwing every 7th. or 8th. row on sloped or pitched ceilings.

Install balance of panels in a progressive manner from each side of starting panel. If a clip can not be installed due to interference of a main tee, back screw the panel into place through the flange of the main tee or cross 2' o.c. Stagger all panel end joints as required. Panel end joints shall be spliced directly under a cross tee for the best results. If this is not possible, install a 1" black spline on each side of the end joint to keep panels level and flush. Continually check and adjust for panel module gain or loss while installing.



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PANEL INSTALLATION – CONTINUED:

NOTE: 1:

If the ceiling is installed without an exposed edge molding and the panels leave a 1/2" minimum reveal at the walls, the last long panels will have to be finish face or back screwed into the grid or installed with contact adhesive.

NOTE: 2:

For areas that require access request from ASI Linwood access clips. These clips are attached to the grid in the same method as the standard clips. Specific instructions will be sent with the access clips.

WALL PANEL INSTALLATION:

Wood naturally varies in color and grain characteristics. It is recommended that panels be presorted before installation to assure a uniform final appearance.

Install z-member horizontally 2' o.c. and within 4" of ceiling line and/or base, support 4' o.c. screwed or toggled into wall. Fur out z-member to thickness of acoustical blanket prior to securing. Install 2' wide black acoustical blanket or panels between z-members. Layout center line to leave equally spaced panels or reveals on each side. Install panel clips on each side of centerline. Set starting panel directly over and centered on line and slide clips into place to hold panel. Pinch vertical legs of clip tightly against the z flange to secure panel and keep from moving (starting panel only). Install balance or panels progressively from either side of starting panel. Continually check and adjust for panel module gain or loss while installing.

NOTICE:

The above recommended installation instructions are reliable for most installations, but are not meant to imply any warranty or guarantee for which Architectural Surfaces, Inc. assumes responsibility. The installer must undertake testing and verification as to specific applications to determine suitability for them prior to installation.

The manufacturer's only obligation is to replace any material proven to be defective, rather than the installation or removal of the same, for a period of one year from the date of shipment. Faulty installation shall be corrected by the installing contractor. Beyond the purchase price of the materials supplied, the manufacturer assumes no liability for damages of any kind and the user accepts the product "as is" without warranties expressed or implied. The suitability of the product for an intended use shall be solely up to the user.

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