



## **Installation Instructions – Microperf (Wall)**

**ATTENTION: If you have additional Questions after reviewal of this manual please contact your local ASI representative or an ASI professional at our headquarters (952)448-5300**

ASI MANUFACTURES DECORATIVE ACOUSTICAL PANELS AND PRODUCTS THAT MUST BE HANDLED WITH CARE. PRODUCTS SHOULD ONLY BE INSTALLED BY EXPERIENCED INSTALLERS.

### **RECEIVING**

Prior to unloading a crate from the delivery truck, check it for any obvious shipping damage. If no evidence of damage is present on the crate, offload it onto a dry/controlled area and inspect it for dents, breakage, or any lesser-noticeable crate damage that may affect enclosed panels or trim. If damage has been identified on the crate itself, record it/photograph it, and open the crate to inspect for concealed damage. If damage from the crate was transferred onto the panels or trim, document/photograph the issues.

**The Bill of Lading (BOL) must be signed as “Damaged” if any type of claim is required.** Failure to do so will disqualify the project for any type of claim, and the provided product will be considered accepted as delivered. Furthermore, do not simply estimate the number of damaged goods; receiving parties are responsible for verifying the actual count of damaged product(s) and noting the information on the BOL after checking for exact quantities. After signing the BOL as “Damaged”, please accept the delivery and contact ASI immediately regarding the occurrence. Be prepared to provide a detailed description of the issue(s), an accurate count of what was affected, information regarding identifiers (panel tags or numbers, etc.), and photographic documentation. *Do not install damaged product.* Instead, get in touch with ASI as soon as possible so that we may address the issue and provide a working plan for potential solutions and replacements.

If any panel or trim pieces appear to have manufacturing defects, *do not install.* ASI’s only obligation is replacing materials proved to be defective and that are returned for credit within the terms and conditions of the sale. Damaged material must remain crated and in customer’s possession until a decision on the claim is reached. At that time, the carrier responsible for the delivery will pick up the damaged product at the delivery site. Do not dispose of damaged product unless otherwise expressly instructed to do so by an ASI representative. In the event this occurs, documented acknowledgment will be required from all parties involved.

If no damage is observed, verify that all materials ordered for the job have been received and are in the proper style(s) and correct quantities.

### **ACCLIMATION AND STORAGE**

All wood products purchased from ASI must be acclimated to site conditions before installation. Failure to acclimate product will void the warranty. This is particularly important in Northern United States climates where low atmospheric humidity typically cause more wood movement than the higher humidity of Southern climates.

Once the installation site has been acclimatized to the temperature and humidity levels that will be the norm when occupied, all wood products should be moved into the site installation area for a minimum of 72 hours prior to any installation activity. Panels should be stored in a dry, fully-conditioned interior space

on a flat surface in opened cartons. Relative humidity should be maintained between 25% and 55%. Temperatures should be maintained between 55 and 80 degrees Fahrenheit. To acclimate wood products, remove all packaging materials from the outside of the crate, leaving only the wood products. Exposure to conditions outside of this range will void the warranty. Panels should be handled with care and set on protective cushions while cutting. Product should be carefully stacked face to face and back to back.

#### **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.

#### **CLASS A VARNISH 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.

#### **MOUNTING AND NRC**

Most conventional woodworking techniques are acceptable for working with ASI panels. Special mounting techniques are required to install perforated acoustical panels including perforated Fusion, Microperf and Audition planks. In all of these cases the space behind the panel, including the insulation or acoustically absorptive materials, work in conjunction with the panel to provide the noise reduction performance anticipated. The architect's details and/or shop drawings must be followed to achieve the look and NRC specified.

#### **INSTALLATION**

Good wood working tools are needed to install wood panels. Care needs to be taken when cutting and fitting around windows, light switches and other fixtures. To achieve this, the following tools are recommended:

- Trim Nailer
- Table Saw
- Miter Saw
- Jig Saw
- Router
- Biscuit Jointer
- Hole Saw
- Iron
- Edge Band Trimmer
- Standard Details pamphlet

Blades and bits need to be sharpened, fine-tooth carbide. Jigsaw blades a medium tooth.

Panels should be cut face up when cutting on the table saw and miter box. When cutting with a circular saw or up cut jig saw blade, cut face down. Blade teeth should always cut into the face of the veneer. All panels need to be handled as fine furniture would be handled. Padded material should be used to avoid scratching or marring the face of the panels. Pilot holes are not necessary in microperf panels, but may be included by manufacturer to show clip locations. Care needs to be taken not to overtighten screws.

Overtightening will lessen the holding power of the screw and may damage the face of the panel. Always use the provided torqueing screwdriver on the lowest torque setting and tighten screws until the screw head is tight to the clip and the driver will no longer twist the screw on that setting. It will make a ratcheting sound when it is torqued tight.

Penetrations in product (i.e. sprinklers, lighting, light switches, and outlets) should be cut with a jigsaw, router, or hole saw using sharp blades or bits (see sheets 9-13 of the standard details). Test cuts should be made on scrap panels to determine the proper tool speeds for cutting and routing. Field cuts should be sealed with finish material provided.

Care should be taken so as not to damage edges or corners. Refer to the tools recommended for installation of wood panels. All field cuts should be sealed with the finish materials provided.

ASI recommends painting the walls or ceilings black at the perimeter to help conceal the expansion joints at the edges of the wall or ceiling system.

## **WALL INSTALLATION**

Wood naturally varies in color and grain characteristics. It is recommended that panels be presorted before installation to assure a uniform final appearance. Plan the panel layout using the centerline of the ceiling such that the cut planks or reveals will be equal in width on both sides.

Microperf Panels are designed to be installed on a substrate of sufficient structural capacity to support the product. Wall spline and z-bar provided may be installed at architect specified locations (see architectural drawings or shop drawings if provided). Wall spline may be finish nailed to substrate. Z-bar fasteners are to be determined by installer depending on the substrate.

Once z-bar and wall spline are properly installed, z-clips can be attached to panel backs such that all reveals land on center of 2" wall spline; are located no more than 4" from the panel edge; and are 2' OC max. Be sure to use the provided torque driver so as to not overtighten the screws. Fully prepped panels may then be hung by setting panel on wall such that z-clips land above the z-bar. Slide the panel down such that the z-clips hook into z-bar. Silicone should be added to at least one clip to secure ¼" reveal.

## **SPECIAL HANDLING INSTRUCTIONS**

When handling product, care must be taken to not damage edges. Handle all edges with care. To avoid damage to the veneer, do not twist or bow the panels during installation.