

Specifying Art Diffusion

The Art Diffusion product offers the customer an extremely broad variety of patterns, materials, finishes and installation choices. In order to translate a customer requirement into an accurate product specification, it is important to understand all of the product options and terms used to describe these options.

Product specification terms and options are discussed below along with helpful illustrations. A product specification form is included at the end of this section.

It is important to first select a core material based on specific project needs, such as contribution towards "Leed" credits, Class A fire rating, formaldehyde emissions or moisture resistance. Core materials are available to fit most special needs such as radius or serpentine installations, opaque wall dividers or exterior applications.

Not all core materials are available in all sizes and patterns. Consult the material matrix to determine standard thickness and sheet size for each individual core.

Core material options

Arreis –SDF

SierraPine, the leader in sustainable and environmentally preferable composite panels for nearly two decades is proud to announce the introduction of a new breed of No-Added Formaldehyde medium density fiberboard...Arreis. Engineered to meet the growing demand for sustainable products, Arreis SDF, also known as Sustainable Design Fiberboard, has the same performance characteristics of standard MDF yet is produced with a formaldehyde-free adhesive system and 100% post-industrial recycled wood fiber.

Arreis contributes to the following LEED Credits:

- Materials & Resources (4.1, 4.2, 5.1, 5.2)
- Indoor Environmental Quality (4.4)

Medite – FR2

SierraPine's flame retardant Medite FR2 is designed for applications where Class 1 flame retardant material is required. FR2 leads the industry with its low flame spread and smoke development. This panel is also SCS certified for 100% recovered and recycled wood fiber content. Medite FR2 is used in schools, libraries, hospitals, theatres, office buildings, public buildings, medical facilities, laboratories and museums.

Use Medite FR2 for your next LEED building project and achieve Credits for Material & Resources (4.1 & 4.2 and 5.1 & 5.2)

Medite- 3D

Medite 3D is the superior choice for multi-level machining applications because of its strength and consistent core. It can be laminated or painted for a beautiful finish.

Medex

Medex is an SCS certified, no-added formaldehyde, moisture resistant MDF panel engineered for interior high moisture areas. Used in place of sanded plywood and solid wood in non-structural applications, Medex gives you the versatility of a composite panel with the emissions of solid wood.

Use Medex for your next LEED building project and achieve Credits for Material & Resources (4.1 & 4.2 and 5.1 & 5.2) and Indoor Environmental Quality (4.4)

CelTec

Celtec Displayboard is a foamed polyvinyl chloride (PVC) sheet whose extraordinary combination of features makes it ideal for signage, exhibits, store displays, POP, Kiosks, screen printing and more. Celtec also has good screw and staple retention which makes it ideal for stage prop design, cabinetry and other wood replacement projects. Sheets are tough, high-strength and lightweight, and can be ordered in a wide range of sizes, thicknesses and colors. Celtec sheets are free of lead, cadmium, barium and zinc and have passed all three UL 1975 requirements*. Celtec is recommended for industrial and commercial usage. It readily accepts virtually any form of graphic overlay (print, paint and photo mounting). Celtec is also easy to cut and shape, making it a strong choice for three-dimensional exhibits, displays and stage sets.



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Extira

Extira is a revolutionary new-to-the-world material that is unique in three ways: Extira is a panel product that resists moisture, rot and termites and offers excellent performance in exterior environments. Extira can be used in any non-structural paint-grade EXTERIOR application. It also works well for high moisture interior environments. Extira has a 5-year limited warranty, unprecedented in its product category. The Extira panel product is available in a variety of sizes and thicknesses with Essentially no formaldehyde emissions

Valchromat

Through colored MDF

Standard HDF

Cast acrylic sheets

Pattern Number

Every pattern has an identifying number such as "SOT-001", "W1208" or "POP001". The pattern choice is the second step after choosing a material for the core. There is a full page dedicated to each pattern, complete with pattern characteristics and photos of the actual product. Most patterns will have downloadable JPEGs of the patterns shown in vertical and horizontal pattern direction for use with rendering software. (JPEGs are shown in 4 x 8 standard size, custom rendered JPEGs are available upon request by the design professional)

Panel Size

The standard panel size is 48" x 96" (4 x 8). Custom panels can be produced up to 60" wide and up to 120" long. Not all core materials are available in the larger sizes. Please contact Interlam to determine material availability for custom projects. For multiple panel cut-to-size projects, please forward a dimensioned layout via e-mail to interlamsupport@hughes.net in any of the following formats: dxf, dwg, or PDF files. DWG files are preferred.

Panel Thickness

Panel thickness refers to the thickness of the raw stock prior to machining. After machining, the thickest area of the panel will be slightly less than this nominal panel thickness. Panel stock thickness ranges from $\frac{1}{8}$ " to 1 $\frac{1}{2}$ ". Many factors will determine the final panel thickness such as Pattern choice, installation methods and material availability. See "Installation Methods" for further information on thickness specifications.

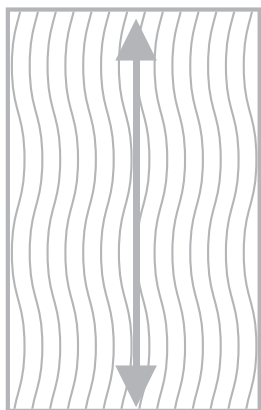
Pattern Depth

The pattern depth refers to the deepest cut that is made in the raw stock in order to produce the pattern. Most patterns are offered in only one depth, however a few have multiple depth options as indicated on the specific pattern page.

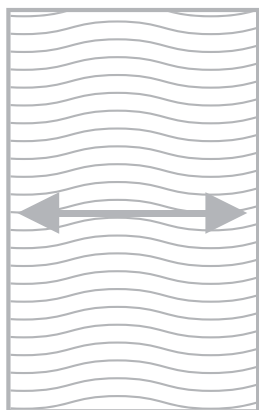
Pattern Direction

Most patterns can be produced in either vertical or horizontal orientation. Referring to the illustration at right, a pattern is said to be horizontal if the tool marks run generally the short direction and vertical if the tool marks run generally in the long direction. Please note that the vertical and horizontal designations have nothing to do with the installed orientation. For multiple panel layouts or panels that are approximately square, orientation should be indicated in an attached layout sketch. The direction of some patterns is not always obvious, so please refer to individual pattern photos in the catalogue to determine the preferred orientation.

Pattern Repeat Type



Verticle



Horizontal

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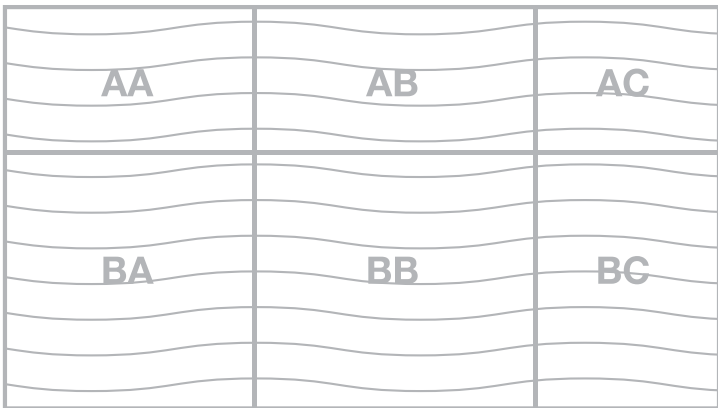
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Most patterns can be manufactured so that the pattern continues smoothly from panel to panel in all directions creating a monolithic appearance. Depending on the pattern and customer requirements, this continuity can be achieved in a number of different ways. The way in which the pattern continues from panel to panel is called the pattern “repeat type.” The repeat type for each pattern is indicated in the pattern detail section of the catalogue. The different repeat types are discussed below.

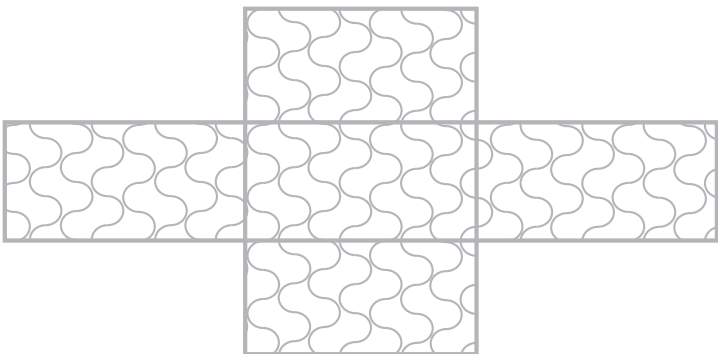
Continuous flow pattern type - A continuous flow pattern does not necessarily repeat in any direction. This type of pattern is generated by computer to flow over a project area of any size and requiring any number of panels. Each panel is unique and is labeled in order to simplify assembly in the field. When joined together the panels create a monolithic appearance.



Example of continuous flow over a six panel project area

When ordering continuous flow panels, the customer must provide a layout indicating the dimensions of the project area as well as the dimensions of all of the individual panels. Most patterns are available as continuous flow. Contact Interlam, Inc. for specific applications.

Repeating pattern type - Repeating patterns allow the customer to fill a project area of any size using identical standard 4' X 8' panels. The standard panels fit together top-to-bottom and side-to-side creating a monolithic appearance. In the illustration below, 5 identical repeating panels are shown to match on all edges. Repeating panels are only available in full 4' X 8' sheets. If nonstandard panel sizes are required, even for a repeating pattern type, panels must be ordered as continuous flow at an additional cost.



Single panel pattern type - Single panels are available as shown in the catalogue photos, or as a



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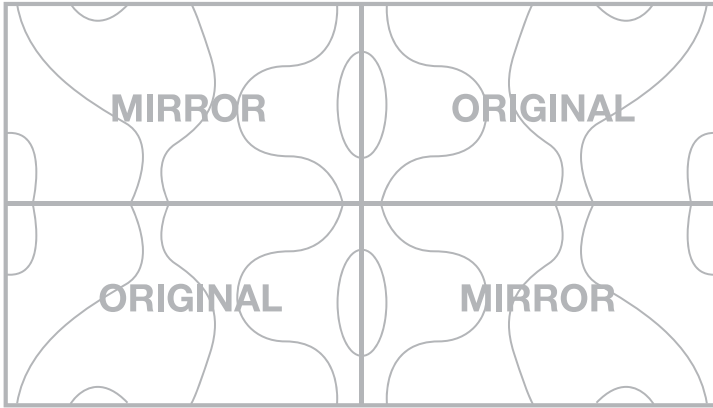


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mirror image. By mirroring across the panel seams, a continuous project area can be filled with a pattern reminiscent of book matched veneers. Single panels are available in standard 4' X 8' sizes. Many patterns can be mirrored for custom applications. Contact Interlam, Inc. for specific applications.



Example of a four panel mirrored pattern

Fixed set pattern type - Fixed sets are two or more non-repeating 4' X 8' panels that fit together only one way. Single panels may be selected out of a set, or the entire set may be used in a project. Fixed set panels may also be mirrored.

A-B repeat type - This type of pattern repeats every other panel. Because of this an "A" and a "B" version of the pattern is manufactured and labeled accordingly. The two versions of the panel are then alternated in the final installation in order to achieve a monolithic appearance.

Minimum recommended thickness

The minimum thickness given for each pattern refers to the thinnest material from which the pattern can be cut. Panels of minimum thickness should be specified only when panels are to be attached directly to a sound surface with adhesive or when panels will have screw cleats or a backer attached with adhesive at the installation site.

If the product is to be installed by screwing directly into the Art Diffusion panel, then panel thickness should be increased by a minimum of 1/2".

Please see "installation methods" or contact Interlam, Inc. for information and guidance.

Disclaimers

Notice

All Art Diffusion panels and literature are pending patent and copyright.

Installation Methods

Due to the manufacturing methods used to produce Art Diffusion, most panels will have a slight "bow" or "warping" in them. This is considered normal and can easily be removed using the installation methods below. If a higher degree of flatness is required, Baltic Birch Plywood can be bonded to back of panels prior to manufacture. This reduces but will not completely eliminate warping. The maximum size of Baltic Birch is 5' x 10'.

Please contact Interlam, Inc. for recommendations regarding your specific installation.

Z-Clips

Z-Clips may only be used if there is sufficient material thickness to allow screw attachment of the clips to the Art Diffusion panel. Ideally, the panels should be specified thick enough or with a thick enough backer to accommodate the screws that are to be used. Panels of minimum recommended thickness can be used for Z-Clip installation, but the installer must first glue wood screw cleats to the back of the panel.

