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**PRODUCT: GEOPANEL MICROPERFO S**

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**I. Description of Components****A. *Hangers:***

Uses #12 – gauge hanging wire (supplied by the installer).

**B. *Suspension System:***

To install wood ceiling panels use a heavy duty 15/16” Chicago Metallic T-bar grid system (supplied by installer).

**C. *Connection Hardware:***

1. Geometrik design Torsion Spring assembly; Made from galvanized steel, with phosphate pretreatment and a corrosion-resistant coating. The torsion spring clip assembly allows individual panels to be removed for above ceiling access; Approved for seismic installation; Mostly used to install oversized panels.

2. Geometrik design Z-Hanger suspension system; Made from galvanized steel, with phosphate pretreatment and a corrosion-resistant coating. The Z-hanger system allows individual panels to be removed for above ceiling access; Suitable for non-seismic installation; Mostly used to install oversize panels. C-channel is required in lieu of T-Bar grid system for Z-hanger type of installation.

3. Wood furring strips; Made from premium grade plywood, factory applied to back side of panels. The wood furring is typically 3/4” thick, with widths determined by the ceiling style selected. Attachment occurs with black screws at the perforation holes, into the furring strips and then into T-bar grid. The wood furring strips allows individual boards to be removed for above ceiling access. This type of suspension is commonly used when the plenum above the ceiling is less than 6 in.

4. Blind Holes; The ceiling or wall panels can be suspended using direct screw attachment through “Blind” holes into the T-bar grid or wall furring strips.

5. Panel ‘Z’-Clips; Designed by Monarch Metals, made from aluminum. The clips provide for concealed mounting of wall panels and allows for demountable panels.

**D. *Panel Components:***

Made from premium grade natural hardwood and softwood veneers (as specified for the project), on a pressed wood substrate core and balancing veneer on the back. The face veneer is finished to customer requirements. Acoustically rated black non-woven fabric is factory applied to the back of the panels. The Wood Panels are manufactured in standard or custom sizes as specified; up to 4’-0” wide x 8’-0” long.

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**E. *Perimeter Trims:***

Perimeter Trims, if required, are typically supplied by the manufacturer. Custom sizes and configurations are also available upon request.

**II. Product Styles:**

Geopanel MicroPerfo S is manufactured in three styles:

- Perforated Ø0.5mm / 2 mm on center / diagonal pattern

Please refer to our brochure and binder for more detailed description.

**III. Wood Selection****A. *Wood Species:***

Geometrik wood panels may be specified in a variety of wood types. Current standard wood species are:

- |                 |                   |
|-----------------|-------------------|
| • Alder         | • Western Cedar   |
| • Anegre        | • Western Hemlock |
| • Ash           | • White Maple     |
| • Steamed Beech | • Bamboo          |
| • Cherry        | • Red Oak         |
| • Douglas Fir   | • White Oak       |
| • Mahogany      | • Padauk          |
| • Birch         | • Walnut          |

Other species are available upon request.

**B. *Texture:***

The standard surface texture is smooth.

**C. *Color variation:***

Due to the nature of real wood (variation in grain, texture and color) the finished product may range from light to dark affecting the look of the panels.

**IV. Wood Finishes**

The standard finish is a high grade, 20 sheen, low VOC water-based clear sealer. Water based wood stains are available in a variety of shades. Opaque or semi-transparent color treatments are available with low VOC.

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**V. LEED & Green Building Standards**

Building materials typically considered to be 'green' include lumber from forests that have been certified to a third-party forest standard, rapidly renewable plant materials like bamboo and other products that are non-toxic, reusable, and renewable. Building materials should be extracted and manufactured locally to the building site to minimize the energy embedded in their transportation. Where possible, building elements are manufactured off-site and delivered to site, to maximize benefits of off-site manufacture including minimizing waste, maximizing recycling (because manufacture is in one location), high quality elements, better OHS management, less noise and dust.

As part of our ongoing commitment, we put every effort in preserving our forest for future generations. We actively promote panels made of engineered wood that is environmentally friendly, easy to recycle, made of recycled fiber and have low impact on the environment. Geometrik is offering wood ceiling and wall panels manufactured using environmentally preferable products (EPP) such as low emitting sustainable design fiberboard (SDF) that contains high percentage of pre-consumer recycled fiber and have no added urea formaldehyde. We use low VOC finishes to further contribute to sustainable design.

If specified, Geometrik wood panels can contribute to the following LEED credits:

- **MR 4 Recycled Content**  
Recycled wood fibre core board is used for veneered products. All Geometrik veneered product can contribute towards this credit.
- **MR 5 Regional Materials**  
Dependent on product selection and project location.
- **MR 6 Rapidly Renewable Materials**  
Example: Solid Bamboo.
- **MR 7 Certified Wood**  
FSC Pure & Mixed Credit Certified – available option.
- **EQ 4.2 Low-Emitting Materials, Paints and Coatings**  
Geometrik finishes supplied for on-site use are water-based and Low-VOC.  
Geometrik uses a state-of-the-art 100% water-based Low-VOC finishing process.
- **EQ 4.4 Low-Emitting Materials, Composite Wood and Agrifiber Products**  
No added Urea Formaldehyde cores are used for veneered product.

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**VI. Fire Retardancy**

Treatment of the Wood Panels with fire retardant materials is available. Factory treated Wood Panels attain a Class 1, or A rating, when tested in accordance with ASTM E-84 and Canadian Standards CAN/ULC S102.

**VII. Acoustical Properties**

Geopanel MicroPerfo S Wood Panels are acoustically absorptive panels. Acoustical performance is achieved by creating openings by means of perforation in certain sequences to achieve various NRC rating. Acoustically rated black non-woven fabric is applied to the back of the panels to help dissipate sound energy. The placement of a fiberglass blanket above the ceiling plane enhances the acoustical value of the ceiling.

**VIII. Shipping and Storage**

Geometrik Wood Ceiling Panels are generally shipped on 4'-0"W x 8'-0"L pallet with protective cardboard, corner protections and shrink wrap packaging for additional protection. Cardboard safety cones are placed on top of all pallets to ensure no stacking of other pallets occurs.

The Wood Ceiling Panels should be delivered in original, unopened packages to project site and stored flat and level in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other mistreatment.

Before installing Wood Ceiling Panels; ensure room temperature and moisture content are stabilized a minimum of seventy-two (72) hours prior to installation per AWI Standards. Maintain uniform temperature of minimum 20°C [68°F], and maximum humidity of 55 percent prior to, during, and after Wood Panel installation.

**IX. Technical Assistance**

Our Geometrik team of experienced professionals are available to assist you in the design and construction phases of your project, whether new construction, or renovation.

For additional information and assistance please contact us at;

Toll Free: 1-888-306-0024 or Fax: (250) 769-1520 or Website: [www.geometrik.com](http://www.geometrik.com)