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## I. Description of Components

### A. *Hangers:*

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

### B. *Suspension System:*

The Geopanel Symfonia shall be installed in accordance with applicable Architect's drawings, and manufacturer's shop drawings and installation instruction.

### C. *Panel Components:*

Made from premium grade natural hardwood and softwood veneers (as specified for the project), on a pressed wood substrate core. The face veneer is finished to customer requirements. The Wood Panels are manufactured in custom sizes and shapes as specified.

### D. *Perimeter Trims:*

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

## II. Product Types

Geopanel Symfonia is supplied in two types:

- Symfonia I – Acoustic Reflector; helps to improve sound distribution in large concert halls & auditoriums, and increase early reflections in fan-shaped rooms.
- Symfonia II – Acoustic Absorptive Panel; helps to control sound reflection and most commonly used for curved wall applications.

Geopanel Symfonia I & II can be manufactured in three shapes:

- Convex
- Concave
- Flat

Geopanel Symfonia I & II are supplied as factory cut to size and shape required.

Please contact our technical support team 1-888-306-0024 for more information.

### III. Wood Selection

#### A. *Wood Species:*

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

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

Other species are available upon request.

#### B. *Texture:*

The standard surface texture is smooth.

#### C. *Color variation:*

Due to 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.

### V. 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.

## VI. 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.

## VII. Acoustical Properties

Geopanel Symfonia I Acoustical Wood Panels are acoustic reflectors. The wood panels are installed above the sound source and over the audience sitting area. Panel size, layout and positioning are critical in order to provide efficient early sound reflections. The ceiling reflectors are usually positioned at angel. Shallow vertical angel is used to re-direct sound to seating area behind reflectors. Steeper vertical angels will re-direct sound down to seating just below reflectors.

Geopanel Symfonia II Acoustical 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.

## 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)