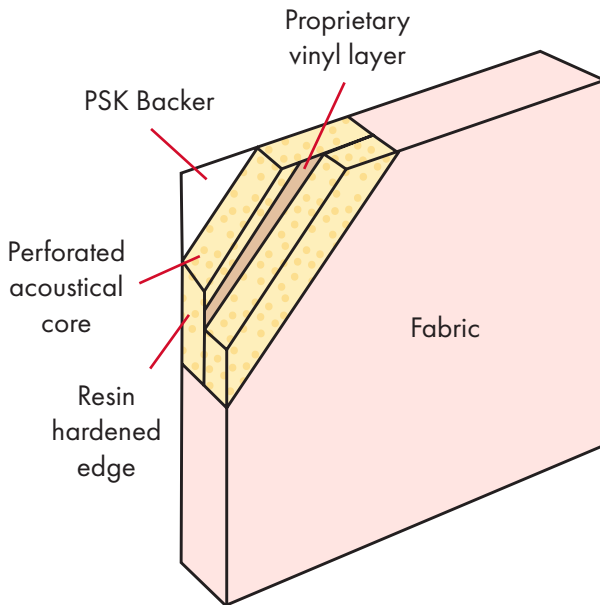


omni plane diffuser panel



Application

Conwed Omni Plane Diffuser Panel used for walls and ceilings combines absorption and diffusion into one acoustical panel. Used in any critical listening environment, the product is often combined with A100 Series sound panels which are similar in appearance.

Construction

The patented internal structure uses two layers of 6-7 PCF fiberglass board separated by a proprietary vinyl layer to form a low-profile, composite absorber/diffuser product.

The layers have a pattern of wells that yield a random distribution of absorptive and reflective regions, both vertically and horizontally. Their constructive and destructive interference with incident sound, produced by the varied hole-pattern combinations and varied hole-depth, creates significant sound scattering by the panel.

Panel is completed with resin hardened edge protection and fabric completely adhered to the face of the panel and returned to the back for a full finished edge. All corners are fully tailored.

Size availability

Available thicknesses are 1" and the standard 2". Maximum sizes are 3'x5' for ceiling panels and 4'x10' for walls.

Edge detail

All core edges are chemically hardened and square.

Finish

A wide variety of fabrics are available from all major brands, including Guilford, Maharam, Knoll, Carnegie, and Designtex.

Mounting

Standard mountings for ceilings include Z-Bar to Z-Bar and lay-in. Wall panel mounting includes Impaling clips with perimeter adhesive and Z-clip.

Fire performance

Each component has been tested according to ASTM E 84* and has a Class I/A rating.

Warranty (3-year limited)

The Omni Plane Diffuser Panels have a limited 3-year warranty starting from date of shipment. The panels are warranted to be free from defects in material. See product warranty for details and limitations.

* The ASTM E 84 standard should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment, which takes into account all of the factors, which are pertinent to an assessment of the fire hazard of a particular end use.

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PART 1 – General

- 1.1** Work in this section shall be subject to drawings, general conditions, schedules, addenda and other contract documents.
- 1.2** The extent of the acoustical panels is shown on the drawings and in the schedules.
- 1.3** Submit _____ (select quantity) samples of each type of acoustical panel as shown on the drawings and in schedules and include appropriate technical information including test data and maintenance instructions. Submit _____ (select quantity) fabric selector cards from manufacturer's standard finishes, or designer specified finishes.
- 1.4** Acoustical panels shall be installed according to manufacturer's recommendations and instructions.
- 1.5** Installation of acoustical panels shall not begin until all wet work (plastering, concrete, etc.) is completed and dry. Building shall be properly enclosed and under standard occupancy conditions (temperature of 60-85°F and not more than 70% relative humidity) before installation begins.
- 1.6** The contractor shall be responsible for the examination and acceptance of all surfaces and conditions prior to the acoustical panel installation.
- 1.7** Substitutions or changes will only be permitted by prior approval by the architect.

PART 2 – Materials

- 2.1** Acoustical ceiling panels shall be: The Omni Plane Diffuser Panel as manufactured by Conwed.
- 2.2** Acoustical Panels shall be constructed of a composite core with two layers of dimensionally stable rigid fiberglass of 6-7 pcf density separated by a proprietary vinyl layer. Thickness (choose one) 1" or 2".
- 2.3** Sizes: _____ width and _____ high or as shown on drawings. Standard maximum size is 36"x 60" for ceilings and 48" wide x 120" high for wall panels. Custom sizes within these limitations are standard. Panels are to be manufactured according to field dimensions supplied by the installing contractor. Standard tolerances are $\pm \frac{1}{16}$ " in width and length.
- 2.4** Edge profile shall be: Square.
- 2.5** Panel finish shall be _____ (specify finish manufacturer, pattern, color and specifier). Finish shall be applied directly over the face and edges of the panel and returned to the back of the panel to provide a full finished edge. All corners are fully tailored.
- 2.6** Mounting shall be: Z-Bar to Z-Bar or Lay-in for ceilings, Z-Clip or impaling clip / perimeter adhesive for walls. Adhesive, miscellaneous fasteners, (i.e. nails, screws, etc.) and standard continuous wall leveling angle are to be supplied by the contractor.
- 2.7** Acoustical Performance – panels shall have a minimum NRC of _____ (please specify) in accordance with ASTM C-423 (Type "A" Mounting).

- 2.8** Flammability – All panel components shall have a Class "A" flame spread rating of 25 or less in accordance with ASTM E-84.

**Thank you for choosing Conwed®
for your acoustical needs.**

The information provided above is correct to the best of our knowledge at time of printing. We reserve the right to make changes without prior notification.

Environmental and sustainability

Conwed is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Conwed is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.conwed.com.

Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via www.conwed.com.

Disclaimer of liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Conwed makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein.

