



## APPLICATION

Foundations Acoustical walls are designed for areas requiring excellent acoustical absorption with a 'soft drywall' look. Use in conference rooms, auditoriums, churches, entry-ways, and similar areas. Panels are paintable up to 3 times (spray application) without losing acoustical absorption!

## CONSTRUCTION

The core construction is a dimensionally stable 6-7 PCF glass fiberboard laminated with a 1/8" 16-20 pcf molded glass fiber, all covered with a specially formulated fiberglass mat. Edges are protected with resin hardening. The acoustically transparent finish completely covers the face and exposed edges.

## SIZE AVAILABILITY

Available thicknesses are 1", 1½", 2", plus the 1/16" molded glass fiberboard. Maximum sizes is 4' x 10'. Custom size is our standard!

## EDGE DETAIL

All edges are resin hardened, unless otherwise specified. Available shapes include: square, radius, and bevel. For square-edged abutting panels, a kerf and spline is strongly recommended for accurate face alignment. Another fine option is to introduce a small reveal between panels.

## FINISH

Foundations Acoustical walls come factory-finished with a proprietary white, acoustically transparent and if desired, paintable covering.

## MOUNTING

Our products are constantly modified to achieve their maximum acoustical performance while providing the aesthetics desired in their applications. Panels are available in a variety of thickness, and their performances are tested in accordance to ASTM procedures in a NVLAP accredited laboratory.

Please consult with your Sales Representative, or the Company's Technical Services Department for assistance in determining the proper panels, and their acoustical specifications, for your application.

## ACOUSTICAL PERFORMANCE

Foundations Acoustical walls provide excellent acoustical performance for auditoriums, theaters, offices, libraries, classrooms and virtually anywhere sound absorption is required.

Thickness	NRC
1 ¼"	0.85
2 ¼"	0.90

The noise reduction coefficients were derived from tests conducted according to ASTM C423 on a Type E400 mounting by a NVLAP accredited laboratory.

**Note:** Testing with 4 layers of paint showed an NRC of .80 for a 1½" product, so reduction was minimal!

## FIRE PERFORMANCE

Each component has been tested according to ASTM E84\* and has Class I/A rating.

## R-VALUE

The R-Value is resistivity to heat or cold, and is an important factor in choosing a finish.

1"	4.1
1 ½"	6.2
2"	8.3
3"	12.5
4"	16.6

## RECYCLED CONTENT

Foundations Acoustical walls can utilize an Conwed Designscape fiberglass board core that is third-party certified for recycled content. The board is certified by SCS to contain at least 57% recycled glass. And for your LEED® project, our acoustical panels can help you qualify for recycled content points under the Materials and Resources section. Other LEED® categories may also apply depending upon the project requirements.

## WARRANTY (3-YEAR LIMITED)

The panels are warranted to be free from defects in material and workmanship for a period of three years from the date of purchase.

*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. Values are reported to the nearest 5 rating.

## 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 panels shall be Foundations Wall as manufactured by Conwed Designscape.
- 2.2** Acoustical Panels shall be constructed of a composite core construction of dimensionally stable rigid fiberglass of 6-7 pcf density laminated to ½" 16-20 pcf molded glass fiber. Thickness (choose one) ¾", 1", 1½", 2", 3", 4" plus ¼" or custom \_\_\_\_\_ (specify).
- 2.3** Sizes: \_\_\_\_\_ width and \_\_\_\_\_ high or as shown on drawings. Standard maximum size is 48" wide x 120" high. Custom or larger sizes available; consult manufacturer. Panels are to be manufactured according to field dimensions supplied by the installing contractor. Standard tolerances are ± 1/16" in width and length.
- 2.4** Edge profile shall be: Square, radius, full bevel, half-bevel, miter, or custom \_\_\_\_\_ (specify). Corner detail shall be: Square or custom \_\_\_\_\_ (specify). Edge treatment shall be: resin hardened, aluminum or high-pressure laminate (with square edge only) or custom \_\_\_\_\_ (specify).
- 2.5** Panel finish shall be Respond Soft Texture/Foundations Acoustical ceilings acoustically transparent finish. Finish shall be applied directly over the face and edges of the panel to provide a full finished edge. All corners are fully tailored.
- 2.6** Mounting shall be: Lay-in, Wall Bar to Wall Bar or custom \_\_\_\_\_ (specify). 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 C423 (Type "A" Mounting).
- 2.8** Flammability – All panel components shall have a Class "A" fire rating in accordance with ASTM E84.
- 2.9** R-Value is \_\_\_\_\_. (Calculated using the R-factor of 4.16 per inch of thickness).

**Thank you for choosing Conwed Designscape®  
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.*

## 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 Designscape 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.



**Conwed Designscape**  
1445 Holland Rd.  
Maumee OH, 43537  
419-871-9085  
www.conwed.com

©2018 Conwed Designscape  
LEED is a registered trademark  
of U.S. Green Building Council