



## APPLICATION

Conwed Designscape® Reflective Wall Panels are designed for theaters, auditoriums and listening environments requiring acoustical reflection; usually to balance other absorption elements.

## CONSTRUCTION

Core construction comes in two basic formats. First is MDO (Medium Density Overlay) plywood which is available in either a gel-coat or fabric finish. Second is a dimensionally stable 6-7 PCF glass fiberboard with resin hardened edge protection, faced with a 1/16" resilient co-polymer sheet, all covered with fabric. Fabric finishes are completely adhered to the face of the panel and returned to the back for a full finished, fully tailored edge.

## SIZE AVAILABILITY

Available MDO thickness is 3/4" with optional built up wood edges, maximum size 4' x 8'. Fiberglass-based reflectors: thicknesses include 1 1/16", 1 9/16" and 2 1/16". Widths are up to 53" and lengths to 10'.

## EDGE DETAIL

Standard edge details are square and bevel.  
Built up edges are available to hide mounting hardware.

## FINISH

Gel-Coat is standard with MDO, often with the back painted black. A wide variety of fabrics are also available from all major brands, including Guilford, Maharam, Knoll, Carnegie, and Designtex.

## MOUNTING

Standard mounting for MDO is Z-bar to Z-bar. Fiberglass based reflectors are also available in adhesive, Z-Clip, concealed splines, impaling clips (with adhesive) or hook and loop.

## FIRE PERFORMANCE

Components, with the exception of the MDO plywood have been tested according to ASTM E 84\* and have a Class I/A rating.

## WARRANTY (3-YEAR LIMITED)

Reflective Wall 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. 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 wall panels shall be: Reflective Wall Panels manufactured by Conwed Designscape.
- 2.2** Reflective Wall Panels shall be constructed of a ¾" MDO – Medium Density Overlay plywood. Optional fiberglass-based reflectors will be constructed of a composite core of dimensionally stable rigid fiberglass of 6-7 PCF density covered with ¼" co-polymer of 1 ¼", 1 ½", 2 ¼" or custom thickness \_\_\_\_\_ (specify).
- 2.3** Sizes: \_\_\_\_\_ width and \_\_\_\_\_ high or as shown on drawings. Standard maximum size is 48" wide x 96" high (nominal) for MDO. Standard maximum is 53" wide x 10' high for fiberglass-based reflectors. Custom or larger sizes available; consult manufacturer. Panels are to be manufactured according to field dimensions supplied by the installing contractor. Standard tolerances are ± ¼" in width and length.
- 2.4** Edge profile shall be: Square, full bevel, half-bevel, miter, or custom \_\_\_\_\_ (specify). Corner detail shall be: Square, radius or custom \_\_\_\_\_ (specify).
- 2.5** Panel finish shall be gel-coat (MDO only) or \_\_\_\_\_  
\_\_\_\_\_ (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 to provide a full finished edge. All corners are fully tailored.

- 2.6** Standard MDO mounting is Z-bar to Z-bar. Fiberglass mounting shall be adhesive / resin spots, adhesive no resin, Impaling / adhesive, spline, VELCRO®, z-clip to double wall clip, Z-bar to Z-bar, z-clip / VELCRO® or custom \_\_\_\_\_ (specify). Adhesive, miscellaneous fasteners, (i.e. nails, screws, etc.) and additional hanging hardware are to be supplied by the contractor.
- 2.7** Flammability – All panel components except MDO plywood shall have a Class "A" fire rating in accordance with ASTM E-84..

## ENVIRONMENTAL AND SUSTAINABILITY

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

**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.*

## NOTES

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via [www.conweddesignscape.com](http://www.conweddesignscape.com).

## DISCLAIMER OF LIABILITY

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**Conwed Designscape**  
1445 Holland Rd.  
Maumee OH, 43537  
419-871-9085  
[www.conwed.com](http://www.conwed.com)

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