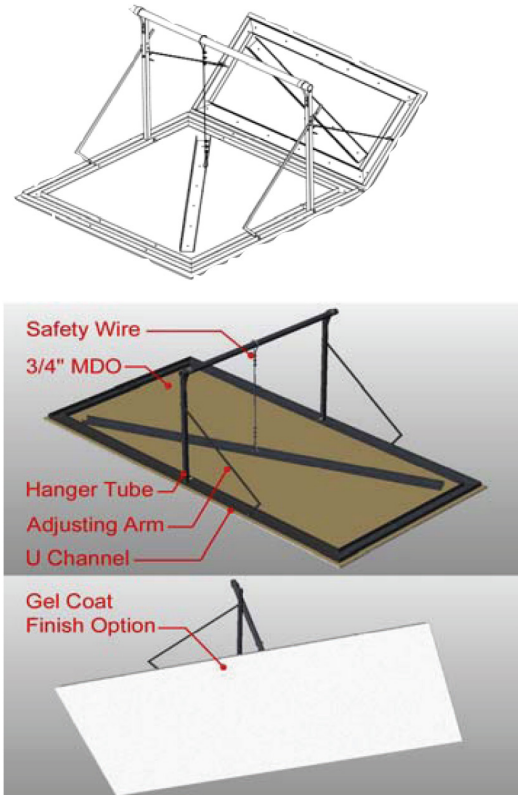


**RESPOND® REFLECTOR  
CEILING CLOUDS, FLAT**


## APPLICATION

Conwed Designscape® Reflector Ceiling Clouds are designed for theaters and auditoriums requiring tunable reflection to enhance sound quality in a performance environment.

## CONSTRUCTION

The core construction is an MDO (Medium Density Overlay) plywood, sometimes backed with dimensionally stable 6-7 PCF fiberglass board. Finishes are completely adhered to the face of the panel and returned to the back for a full finished edge. All corners are fully tailored. Also, Reflector panels can be provided with a gel-coat finish. If required for tunability, a full-length piano hinge is utilized.

## SIZE AVAILABILITY

Available thickness is ¾" or custom with added fiberglass backing. Widths are up to 4' and lengths to 8'.

## EDGE DETAIL

Standard edge details are square, and bevel. Edges can be built up to hide mounting hardware.

## FINISH

A wide variety of fabrics are available from all major brands, including Guilford, Maharam, Knoll, Carnegie, and Designtex. A comprehensive selection of vinyl coverings is available from Webcore, Designtex and Maharam. Gel-Coat is also available.

## MOUNTING

Reflector Hardware is standard for Flat Reflectors.

## EXCELLENT ACOUSTICAL PERFORMANCE

Reflector Ceiling Clouds provide excellent acoustical performance designed for, theaters, auditoriums or other venues requiring sound reflection.

### Absorptive Sabins 4' x 8' CLOUD

HZ	125	250	500	1000	2000	4000	NRC
Sabins	2.70	1.75	1.32	1.75	4.14	6.85	0.95

### Reflection 4' x 8' CLOUD

HZ	125	250	500	1000	2000	4000	NRC
Transmission Loss	27	28	31	32	27	35	31

## FIRE PERFORMANCE

Each component has been tested according to ASTM E 84\* and has a Class I/A rating, except for the MDO plywood. A fire-rated MDF panel is also available.

## WARRANTY (3-YEAR LIMITED)

Reflector Ceiling Clouds 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.

## 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 Clouds shall be: Reflector Ceiling Clouds as manufactured by Conwed Designscape®.
- 2.2** Reflector Ceiling Clouds shall be constructed of a MDO – Medium Density Overlay plywood and may be backed by dimensionally stable rigid fiberglass of 6-7 pcf. MDO thickness (choose one) ½" or ¾". Optional fiberglass thickness of 1", 1 ½", 2", 3", 4" or custom \_\_\_\_\_ (specify).
- 2.3** Sizes: \_\_\_\_\_ width and \_\_\_\_\_ high or as shown on drawings. Standard maximum size is 48" wide x 120" high (nominal). 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 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 mounting is Cloud Angle for Flat Reflectors, and Reflector Hardware for Hinged panels. 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.

**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.*

## 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).

## 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

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](http://www.conwed.com)

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