



APPLICATION

Conwed Designscape® Respond® IR Series (IR108/IR208/IR408) ceiling panels are designed for high traffic areas requiring impact-resistant tackable surfaces with excellent sound absorption. Use in corridors, lobbies, classrooms, gyms, and similar areas.

CONSTRUCTION

The core construction is a dimensionally stable 6-7 pcf fiberglass board with resin hardened edge protection laminated with a 1/8" 16-20 pcf molded glass fiber. 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. For thickness, the limit is 4' for 4'x6' or 24 square feet.

SIZE AVAILABILITY

Available in 1/2", 3/4", 1", 1 1/2", 2", 3" and 4" thicknesses, plus 1/8" fiberglass board. Maximum sizes for 1", 2", 3" are either 4'x12' or 5'x10'. For thickness, the limit is 4' maximum is 4'x6' or 24 square feet. Custom sizes are standard!

EDGE DETAIL

All core edges are resin hardened, unless otherwise specified. Available choices include: square, radius, bevel, and radius corners.

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 Santas Kalahari, Designtex and Maharam.

MOUNTING

. Z-Bar to Z-Bar is recommended for ceilings.

ACOUSTICAL PERFORMANCE

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

NOISE REDUCTION COEFFICIENT (NRC)

The NRC of the products were determined from an average of sound absorption coefficients obtained from tests conducted according to ASTM C 423 procedures in a NVLAP accredited laboratory.

HZ	125	250	500	1000	2000	4000	NRC
Thickness 1 1/8"	0.06	0.44	0.95	1.13	1.10	1.05	0.90
Thickness 2 1/8"	0.14	0.94	1.20	1.25	1.17	1.14	1.15

FIRE PERFORMANCE

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

WARRANTY (3-YEAR LIMITED)

Respond® IR Series (IR108/IR208/IR408) Ceiling 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.

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: Respond® IR Series Ceiling Panels 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 1/8" 16-20 pcf molded glass fiber. Thickness (choose one) 1/2", 3/4", 1", 1 1/2", 2", 3", 4" plus 1/8" or custom _____ (specify).
- 2.3** Sizes: _____ width and _____ high or as shown on drawings. Standard maximum size is 4' x 12' or 5' x 10' (nominal) for 1", 2" and 3". 4' x 10' is the maximum size for 1/2", 3/4" and 1 1/2". 4" is limited (by weight) to 24 square feet; either 4' x 6' or 2' x 12' or custom. Panels are to be manufactured according to field dimensions supplied by the installing contractor.
- 2.4** Edge profile shall be: Square, radius, full bevel, half-bevel, miter, or custom _____ (specify). Corner detail shall be: Square, radius or custom _____ (specify). Edge treatment shall be: resin hardened, aluminum or high-pressure laminate (with square edge only), wood (all profiles available) or custom _____ (specify).
- 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: Adhesive/Resin, Adhesive No Resin, Impaling/Adhesive, Lay-in, Magnet, Spline, VELCRO®, Panel Clip to Z-Bar, Panel Clip to Double Wall Clip, Z-Bar to Z-Bar, Aluminum Z-Clips, Panel Clips/VELCRO® 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).
- 2.8** Flammability – All panel components shall have a Class "A" fire rating in accordance with ASTM E-84.
- 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.

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.

NOTES

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

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