

## Project architect responsibility:

This is a general specification guide, intended to be used by experienced construction professionals, in conjunction with good construction practice and professional judgment. This guide is to aid in the creation of a complete building specification that is to be fully reviewed and edited by the architect of record (specifier). Sections of this guide should be included, edited, or omitted based on the requirements of a specific project. It is the responsibility of both the specifier and the purchaser to determine if a product or system is suitable for its intended use. Neither Conwed, nor any of its subsidiary or affiliated companies, assume any responsibility for the content of this specification guide relative to actual projects and specifically disclaim any and all liability for any errors or omissions in design, detail, structural capability, attachment details, shop drawings or other construction related details, whether based upon the information provided by Conwed or otherwise.

## SECTION 098410 – Sound absorptive ceilings

### PART 1 - General

#### 1.1 — SUMMARY

**A. Section includes:**

Sound absorptive ceilings.

**B. Related work:**

The following items are not included in this Section and are specified under the designated Sections:

- 1. Section 092100 – PLASTER AND GYPSUM BOARD ASSEMBLIES** for plaster and gypsum board walls and ceilings

#### 1.2 — SUBMITTALS

**A. Product data:**

Submit manufacturer's product data including certified laboratory test reports and other data required to show compliance with these specifications.

**B. Samples:**

Submit 11-½ by 11-½ inch samples of representative panel with factory detailed edge, and representative samples of mounting devices

#### 1.3 — QUALITY ASSURANCE

**A. Pre-installation conference:**

Conduct conference at Project site to comply with requirements in Division 01.

#### 1.4 — DELIVERY, STORAGE, AND HANDLING

**A. Project conditions:**

Protect system components from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation. Do not deliver material to building until wet conditions such as concrete, plaster, paint, and adhesives have been completed and cured to a condition of equilibrium.



## 1.5 — LIMITED WARRANTY

### A. Limited warranty:

Provide manufacturer's standard limited 3-year warranty against manufacturing defects in material or workmanship.

## PART 2 - Products

### 2.1 — SOUND ABSORPTIVE PANELS:

#### A. Basis-of-Design: Conwed Respond® IR Series Ceiling Panels.

1. **Construction:** Composite core of dimensionally stable rigid fiberglass, laminated with impact resistant 16-20 pcf molded glass fiber.
2. **Fiberglass density:** 6 - 7 pcf.
3. Cores laminated with 1/8 inch layer of 16 - 20 pcf molded glass fiber.
4. **Recycled content:** For fiberglass, 52 percent pre-consumer and 5 percent post-consumer recycled content.
5. **Core thickness:** 5/8 inch.
6. **Core thickness:** 7/8 inch.
7. **Core thickness:** 1 inch.
8. **Core thickness:** 1-1/8 inches.
9. **Core thickness:** 1 5/8 inches.
10. **Core thickness:** 2 1/8 inches.
11. **Core thickness:** 3 1/8 inches.
12. **Core thickness:** 4 1/8 inches.
13. **Width:** 24-60 inches and custom.
14. **Length:** 24-120 inches and custom.
15. **Corners:** Square.
16. **Corners:** Radiused.
17. **Edge profile:** Square.
18. **Edge profile:** Radius.
19. **Edge profile:** Half-bevel.
20. **Edge profile:** Full-bevel.
21. **Edge profile:** Miter for corner conditions.
22. **Edge treatment:** Resin hardened.
23. **Edge treatment:** Aluminum.
24. **Edge treatment:** High-pressure laminate, for square edge only.
25. **Edge treatment:** Wood.
26. **Fabric finish:** Manufacturer, pattern and color as selected; applied directly over face and edges of panels to provide full finished edge, fully tailored corners.
27. **Mounting type:** Adhesive / Resin.
28. **Mounting type:** Adhesive No Resin.

29. **Mounting type:** Impaling / Adhesive.
30. **Mounting type:** Lay-in.
31. **Mounting type:** Magnet.
32. **Mounting type:** Spline.
33. **Mounting type:** Velcro.
34. **Mounting type:** Panel Clip to Z-Bar.
35. **Mounting type:** Panel Clip to Double Wall Clip.
36. **Mounting type:** Z-Bar to Z-Bar.
37. **Mounting type:** Aluminum Z-Clip.
38. **Mounting type:** Panel Clip / Velcro.
39. **Flammability (ASTM E 84):** Panel components shall have a Class “A” rating per ASTM E 84.
40. **Resistivity to heat or cold:** R-factor of 4.16 per inch of thickness.
41. **Acoustical performance:** Values below are for panels mounted in accordance with ASTM C 423 (Type D5 Mounting) and vary by panel thickness and finish.
  - a. **Noise reduction coefficient (NRC)** for  $\frac{5}{8}$  inch Thickness: 0.70.
  - b. **Noise reduction coefficient (NRC)** for  $\frac{7}{8}$  inch Thickness: 0.80.
  - c. **Noise reduction coefficient (NRC)** for  $1-\frac{1}{8}$  inch Thickness: 0.90.
  - d. **Noise reduction coefficient (NRC)** for  $1-\frac{5}{8}$  inch Thickness: 1.00.
  - e. **Noise reduction coefficient (NRC)** for  $2-\frac{1}{8}$  inch Thickness: 1.05.
  - f. **Noise reduction coefficient (NRC)** for  $3-\frac{1}{8}$  inch Thickness: 1.05.

## PART 3 - Execution

### 3.1 — INSTALLATION:

- A. Verify wet work such as plastering and concrete is complete and dry. Verify building is enclosed and under standard occupancy conditions (60 - 85°F and not more than 70% relative humidity) prior to start of installation. Commencement of installation constitutes Installer’s acceptance of surfaces and conditions.
- B. Install products in accordance with manufacturer’s written instructions and in proper relationship with adjacent construction, including the following:
  1. For adhesive installation to substrate, provide temporary support to prevent panel slippage.  
**Note:** Impaling clips are designed to help hold panels in place until adhesive dries.
- C. Touch-up, repair or replace damaged units until satisfactory results are obtained.

## End of Section

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