



New Dimensions Baffles: Solid Core

New Dimensions Baffles are designed for areas requiring excellent sound absorption with a custom painted finish. With the entire Sherwin-Williams catalog at your disposal, and custom color matching available to you, New Dimensions can meet even your most challenging design requirements. Use in conference rooms, auditoriums, churches, entryways, etc.

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 098436 – Sound-Absorbing Ceiling Units

PART 1 - General

1.1 — SUMMARY

A. Section includes:

Sound-absorbing ceiling units.

B. Related work:

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

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 8 ¾ x 11 inch (for thicknesses up to 1 ½ inches) or 11 ½ x 11 ½ inch (for thicknesses larger than 1 ½ inches) 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 New Dimensions Ceiling Panels.

1. **Construction:** Composite core construction of dimensionally stable rigid fiberglass.
2. **Fiberglass Density:** 6 – 7 pcf.
3. **Assembly accessories:** Provide optional kerfs/splines for abutting square-edge panels.
4. **Recycled content:** For fiberglass, 52 percent pre-consumer and 5 percent post-consumer recycled content.
5. **Core thickness:** 1 ½ inches.
6. **Core thickness:** 2 inches.
7. **Width:** Max of 48 inches and custom.
8. **Length:** Max of 120 inches and custom.
9. **Corners:** Square.
10. **Edge profile:** Square.
11. **Edge treatment:** Resin hardened.
12. **Finish type and color:** Soft texture finish, white. Custom paint color.
13. **Mounting type:** Conwed Express Hanging System.
14. **Flammability (ASTM E 84):** Panel components shall have a Class "A" rating per ASTM E 84.
15. **Resistivity to heat or cold:** R-factor of 4.16 per inch of thickness.
16. **Acoustical performance:** Values below are standard Sabins per baffle panel mounted in accordance with ASTM C 423 (Type J Mounting) 2", 24 x 48 Baffle. Average Sabins = 1.54 per sf.
 - a. **Standard Sabins per baffle at 125 Hz:** 1.62
 - b. **Standard Sabins per baffle at 250 Hz:** 5.14
 - c. **Standard Sabins per baffle at 500 Hz:** 11.13
 - d. **Standard Sabins per baffle at 1000 Hz:** 16.71
 - e. **Standard Sabins per baffle at 2000 Hz:** 16.43
 - f. **Standard Sabins per baffle at 4000 Hz:** 15.46

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.

C. Touch-up, repair or replace damaged units until satisfactory results are obtained.

– End of Section –