SECTION 09 84 00

Acoustic Room Components

[Specifier Notes] – This document uses hidden text to guide the specifier through various options while editing the document. Hidden text may be turned on by quickly clicking on the “Show/Hide” symbol “¶” in the ribbon or “File” above the ribbon at the top left, then to “Options” at the very lower left, then to “Display” on the left side of the menu pop-up, and then check the box next to “Hidden Text.”

Please delete this note before printing.

1. General
   1. Section Includes

[Specifier Note] - Retain only those products required for this project and delete all others.

* + 1. Acoustic wall panels.
    2. Acoustic ceiling tiles.
  1. Related Sections

[Specifier Note] - Retain the sections that are related to the Work specified in this project and the products specified in this section.

* + 1. Section 09 29 00 – Gypsum Board.
    2. Section 09 51 23 – Acoustic Tile Ceilings.
  1. Definitions:
     1. NRC: Noise Reduction Coefficient.
     2. PET: Polyethylene Terephthalate; the commercial name for polyester.
     3. SAA: Sound Absorption Average.
     4. Sabin: A sound measurement of the ability of one square foot of any surface texture in a room to absorb sound reflections.
  2. Submittals
     1. Submit in accordance with requirements of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's technical data sheets, specifications, performance data and installation instructions for all products referenced in the scope of work defined in this section.
     3. Shop Drawings: Submit shop drawings required to depict the requirements for fabrication and installation. Include the following drawings as applicable:
        1. Reflected ceiling plan to coordinate acoustic ceiling units with HVAC and any other items mounted in the ceiling.
        2. Details such as sections, elevations, or isometric views of individual parts including location and appropriate detailing methods for transitions, terminations, penetrations, installation tolerances, and relationships to adjacent work.
        3. Where the installation is required to comply with specific design criteria, include all details required to perform proper analysis.
        4. Manufacturer’s standard fixture schedule coordinated with project requirements and the fixture schedule on the drawings.

[Specifier Note] – Retain the following paragraph if required for LEED or other sustainable criteria.

* + 1. Selection Samples: Provide 6 by 6 inch samples depicting the manufacturer’s full range of options for selection of color and finish.
    2. Verification Samples: Provide samples to verify specified finishes, profiles, and accessories.

[Specifier Note] – Retain the following paragraph if required for LEED or other sustainable criteria.

* + 1. Sustainable Submittals:
       1. Product data for PET material; indicating materials are red-list free.
       2. Product data for PET material; indicating materials are 50% post-consumer content.
    2. Warranty: Manufacturer’s sample warranty document, outlining its terms, conditions, limitations, and duration.
  1. Quality Assurance
     1. Manufacturer Qualifications: Primary products in this section to be provided by a manufacturer with no less than Five (5) years of experience producing the products specified in this section at a facility in the United States.
     2. Installer's Qualifications: All work specified in this section is to be completed by a firm with demonstrated experience installing systems similar in scope and complexity to those specified.
     3. Mock-Up: Arrange for the construction of a mock-up of the products specified in this section. Example must include one of each type specified, including the selected color and finish. Owner and Architect will verify acceptance of products and workmanship.
        1. Accepted mockups may be incorporated into the work.
        2. Provide mockups as indicated on the drawings.
  2. Delivery, Storage and Handling
     1. Deliver, store and handle materials and products in accordance with the manufacturer's instructions and recommendations and industry standards.
     2. Store all materials in the manufacturer’s original packaging until ready for installation. Protect all products from damage or exposure to adverse environmental conditions, including weather, humidity, and dust.
     3. Coordinate pallet sizes, weights, and delivery schedule with manufacturer.
  3. Project Conditions
     1. Begin installation only after spaces are enclosed and weather-tight, and after all wet work and overhead work has been completed.
     2. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. CoorDInation and Scheduling
     1. Coordinate locations of acoustic ceiling units with walls, ceilings, ceiling mounted components, fire partitions, and cabinets.
  5. Warranty
     1. Manufacturer’s Warranty: Manufacturer agrees to replace products that fail within the specified warranty period. Includes resistance to warping, delamination, and color fading under standard interior conditions.
        1. Duration: One year from date of Substantial Completion.

1. Products
   1. MANUFACTURERS

[Specifier Notes] – Retain the following Paragraph if this document is a PROPRIETARY Specification, with Focal Point’s products listed as the Basis of Design. Delete if not required.

* + 1. Basis of Design Manufacturer: Qwel By Genesis Products.
       1. Address: 1853 Eisenhower Dr. S Goshen, IN 46526.
       2. Phone: (877) 266-8292.
       3. Website: [www.qweltiles.com](http://www.qweltiles.com/)
       4. Email: example@email.com

[Specifier Notes] – Retain the following Paragraph if this document is written as a PERFORMANCE specification, without listing a manufacturer as a basis of design. Insert manufacturers that sell products comparable to those specified in this section. Delete if not required.

* + 1. Manufacturer List:
       1. Manufacturer:
    2. Substitution Limitations:
       1. Submit substitution requests in accordance with provisions of Section 01 60 00.
       2. Single manufacturer to provide, from a single source, primary products and accessories specified in this section.
  1. PERFORMANCE REQUIREMENTS
     1. Sustainability Standards:
        1. Recycled Content: Postconsumer recycled content not less than 50 percent for PET materials.
        2. Certified Non-Toxic Materials: Provide PET materials Declare Labelled to be free of Red List Materials as defined by Living Building Challenge.
        3. Third Party Certifications:

[Specifier Notes] – Retain the following subparagraph according to project requirements.

* + - * 1. Intertek Clean Air Gold certified.
        2. USGBC LEEDS EQ Low-Emitting Materials credits & WELL credits.
        3. Conformance to ANSI/ BIFMA e3 standard credits 7.6.1, 7.6.2 and/or credit 7.6.3.
        4. California Department of Public Health (CDPH) Standard Method v1.2: Private Office and School Classroom.
    1. Fire Performance Characteristics: Provide products with manufacturer’s standard PET acoustic housing complying with the following:
       1. Surface Burning Characteristics: Tested in accordance with ASTM E84 Class A.
          1. Flame Spread Index: 25
          2. Smoke Developed Index: 450

[Specifier Notes] – Retain the following subparagraph according to project requirements.

* + - 1. Compliant with CAN/ULC S102 for Canadian installations. (as applicable)
    1. Acoustic Characteristics:
       1. Noise Reduction Coefficient (NRC):  Not less than 0.75, when tested in accordance with ASTM C423 Standard Test Method for Sound Absorption.
  1. Acoustic wall panels.

[Specifier Notes] – Retain the following Paragraph if this document is a PROPRIETARY Specification, with Qwel products listed as the Basis of Design. Delete if not required.

* + 1. Basis of Design Product: Qwel Rectangular Wall Tiles by Genesis Products.
       1. Physical Requirements:
          1. Size: **[**12 inches by 24 inches (305 mm by 610 mm)**][**4 inches by 24 inches (102 mm by 610 mm)**]**
          2. Depth: 1 inch (25 mm).
          3. Edge Profile: **[**Beveled Edge**][**Straight Edge**]**.
          4. Mounting: Peel-and-Stick Mount.
    2. Basis of Design Product: Qwel Square Wall Tiles by Genesis Products.
       1. Physical Requirements:
          1. Size: **[**4 inches by 4 inches (102mm by 102 mm)**] [**8 inches by 8 inches (204mm by 204 mm)**] [**12 inches by 12 inches (305 mm by 305 mm)**] [**16 inches by 16inches (408mm by 408 mm)**] [**24 inches by 24 inches (610 mm by 610 mm)**]**.
          2. Depth: 1 inch (25 mm).
          3. Edge Profile: **[**Beveled Edge**][**Straight Edge**]**.
          4. Mounting: Peel-and-Stick Mount.
    3. Basis of Design Product: Qwel Hexagon Wall Tiles by Genesis Products.
       1. Physical Requirements:
          1. Size: **[**8 inch (204mm) diameter**] [**16 inch (408mm) diameter**] [**24 inch (610 mm) diameter**]**.
          2. Depth: 1 inch (25 mm).
          3. Edge Profile: **[**Beveled Edge**][**Straight Edge**]**.
          4. Mounting: Peel-and-Stick Mount.
    4. Materials:
       1. Composition: 100% non-woven polyester fiber (PET), up to 50% post-consumer recycled content
       2. Finish: No added chemical treatments; inherently fire-resistant, mildew- and mold-resistant
       3. Color: **[**Avocado Green**] [**Black**] [**Charcoal**] [**Chili Red**] [**Dandelion Yellow**] [**Light Brown**] [**Light Grey**] [**Ocean Blue**] [**Sandstone**] [**White**]**.
  1. Acoustic Ceiling panels.
     1. Basis of Design Product: Qwel Ceiling Tiles by Genesis Products.
        1. Physical Requirements:
           1. Size: Nominally 24 x 24 inches.
           2. Edge Profile: **[**Beveled Edge**][**Straight Edge**]**.
           3. Noise Reduction Coefficient (NRC): **[**0.75**] [**0.80**]**.
           4. Profile:

1/4” Drop

Thickness:

Drop below grid: 1/4 inch (6mm).

1” Drop

Thickness:

Drop below grid: 1 inch (25mm).

Deep Dish

Thickness:

Drop below grid: 3 inches (76mm).

Flat Tile.

Thickness:

Drop below grid: None.

Linear Wave

Thickness:

Drop below grid: 1/4 inch to 3 inches (6mm to 76mm).

Recessed Square

Thickness:

Drop below grid: 3 inches (76mm).

Quad Circle

Thickness:

Drop below grid: 1/4 inch to 3 inches (6mm to 76mm)

Wedge

Thickness:

Drop below grid: /4 inch to 2 inches (6mm to 50mm).

* + - * 1. Mounting: Drop-in, grid mounted, for use with [9/16] [15/16] inch wide exposed grid ceiling suspension system.
    1. Materials:
       1. Composition: 100% non-woven polyester fiber (PET), up to 50% post-consumer recycled content
       2. Finish: No added chemical treatments; inherently fire-resistant, mildew- and mold-resistant
       3. Color: **[**Black**] [**Charcoal**] [**Light Brown**] [**Light Grey**] [**Sandstone**] [**White**]**.
    2. Suspension Grid System:
       1. ASTM C635, intermediate duty.
       2. Grid type: Exposed T. 3. Material: Galvanized steel.
       3. Runners: **[**9/16**] [**15/16**]** inch exposed face width, flush profile
       4. Perimeter molding: Angle shape.
       5. Finish: Factory applied enamel, **[**insert color**] [**to be selected from manufacturer’s full color range**]**.

1. Execution
   1. Examination
      1. Do not begin work until adjacent substrates have been properly prepared to receive work specified in this section.
      2. Verify that locations of concealed reinforcements have been clearly marked for the installer.
      3. Locate reinforcement points and clearly mark their locations if not already done.
   2. Preparation
      1. Clean surfaces prior to installation.
      2. Protect all adjacent surfaces from possible damage during installation of units.
      3. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. Installation
      1. Install in accordance with manufacturer’s current installation instructions, industry recognized best practices, and all code bodies having jurisdiction; do not install damaged products.
      2. Test for proper operation and adjust until satisfactory results are obtained.
      3. Adjust fixture suspension heights to match RCP and submittal drawings.
      4. Protect finishes from damage during installation using manufacturer’s recommendations.
   4. Cleaning and Protection
      1. Remove dust and debris with a clean, soft lint-free cloth or vacuum.
      2. Damaged products must be repaired or replaced prior to substantial completion.
      3. Protect installed products until completion of work specified in this section.

End of Section