

SECTION 09 80 00
ACOUSTIC TREATMENT

PART 1 GENERAL

1.1 SUMMARY

A. SECTION INCLUDES

1. Sound-absorptive ceiling baffles
2. Sound-absorptive suspended screens
3. Sound-absorptive wall panels

B. RELATED SECTIONS

1. Section 09 51 00 – Acoustical Ceilings
2. Section 09 51 13 – Acoustical Panel Ceilings
3. Section 09 51 23 – Acoustical Tile Ceilings
4. Section 09 53 00 – Acoustical Ceiling Suspension Assemblies
5. Section 09 84 00 – Acoustic Room Components
6. Section 09 84 13 – Fixed Sound-Absorptive Panels
7. Section 09 84 14 – Acoustic Stretched-Fabric Wall Systems
8. Section 09 84 23 – Moveable Sound-Absorptive Panels
9. Section 09 84 33 – Sound-Absorbing Wall Units
10. Section 09 84 36 – Sound-Absorbing Ceiling Units
11. Section 10 22 00 – Partitions
12. Section 10 22 23 – Portable Partitions, Screens, and Panels

1.2 REFERENCES

- A. ASTM C423-09a – Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2009.
- B. CAN/ULC-S102.2-10 – Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies; 2010.

1.3 SUBMITTALS

- A. General: Submit in accordance with provisions of Section 01 30 00 – Administrative Requirements.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
 1. Certified test reports indicating compliance with specified tests and standards
 2. Handling and storage instructions and recommendations
 3. Installation instructions and recommendations
 4. Cleaning and maintenance instructions and recommendations
- C. Shop Drawings: Submit shop drawings to indicate dimensions, placement and attachment methods required for installation of the products.
- D. Samples: Submit two complete sets of colour samples, minimum 100 mm x 100 mm (4" x 4") representing manufacturer's full range of available colours.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 2-year experience installing projects of similar complexity.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver product in original, unopened containers undamaged to project site.
- B. Storage and Protection: Store products in original, unopened containers in a well-ventilated area until ready for installation.
 - 1. Lay products flat on their faces; do not stand products on their edges.
 - 2. Protect from moisture, heat, direct sunlight, and the elements.
- C. Handling: Handle products to avoid folding the product, chipping the edges of the product, or indenting the faces of the product.

1.6 PROJECT CONDITIONS

- A. Do not install products until spaces are enclosed, wet work is complete, and environmental conditions approximate those of the space when occupied by its end users.
 - 1. Temperature levels should be stabilized between 5 degrees C to 50 degrees C (40 degrees F to 120 degrees F).
 - 2. These levels must be maintained throughout the duration of the warranty.
- B. Let products acclimatize to the environmental conditions of the space prior to installation.

1.7 WARRANTY

- A. Submit warranty from manufacturer agreeing to repair or replace units that fail in material or workmanship within the duration of the warranty.
 - 1. Warranty is valid through 1 year from date of substantial completion.

1.8 EXTRA MATERIALS

- A. Provide not less than **[5%]** of the quantity of each acoustical unit, taking into account each type and colour or print.
 - 1. Package with protective covering, identified with appropriate labels.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Akustus, 518 East Kent Avenue South, Vancouver, BC V5X 4V6 Canada; Tel: 604-638-0813; Email: info@akustus.com; Web: <https://akustus.com/>
- B. Distributed by Sound Solutions Inc., 389 Deerhurst Drive, Brampton ON, L6T 5K3, 800-667-2776, 416-740-0303; Email: nbayat@soundsolutions.ca; Web: <https://soundsolutions.ca>
- C. Substitutions: Not permitted.
- D. Substitutions: Requests will be considered in accordance with provisions of Section 01 60 00 – Product Requirements.

2.2 PRODUCTS

- A. Wall Panels
 - 1. Model: **Rectangle Wall Panel**
 - 2. Design: **Plain/Solid**
 - 3. Edge Detail: Square
 - 4. Dimensions: per drawings
 - 5. Thickness: 12mm
 - 6. Colour: ACP1: Desert Sage SP78, ACP2: Dark Turquoise SP71, ACP3: Deep Sea Blue SP 83, ACP4: Chartreuse SP 43, ACP5: Moss SP 89, ACP6: Olive SP 88, ACP7: Blush Pink, ACP 8: Sandstone SP 12, ACP 9: Plum SP 72

7. Installation: **Concealed mechanical fasteners with PET plugs + adhesive on 20mm thick wood strapping fixed to deck above**

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that site conditions are acceptable for product installation in accordance with ideal Project Conditions detailed above.
 1. Do not proceed until unacceptable conditions have been corrected.

3.2 PREPARATION

- A. Establish layout of products on site in accordance with the architect's design.
- B. Clean surfaces thoroughly prior to installation, especially ensuring that surfaces to which panels will be applied are smooth, level, and free of dust, dirt or other residue that could prevent a strong bond from developing.

3.3 INSTALLATION

- A. Comply with the manufacturer's instructions and recommendations for installation found in product data sheets and installation guides.
- B. Comply with governing regulations, fire resistance rating requirements, and industry standards applicable to work.

3.4 CLEANING

- A. Clean with warm water and mild, non-toxic soap to remove spills. Test solution on an inconspicuous spot before applying to more visible areas. Blot with a dry cloth after applications to avoid saturating the material. Avoid applying too much pressure.
- B. Lightly brush with dusters or soft bristle brushes or gently vacuum with brush attachments to remove dust and dirt. Avoid applying too much pressure.

3.5 PROTECTION

- A. Protect installed work from damage due to subsequent construction activity.
- B. Repair or replace damaged products before completion of project.

END OF SECTION