

ORGANIC BLOCKS Acoustical Panels – CSI Spec: 09 72 00

CORK WALL PANELS

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications:

- a. Use of cork sourced from the *Quercus Suber* tree as found only in Southwest Europe and North Africa
- b. Use of low-VOC, E0 Compliant, and CARB compliant components, adhesives and finishes in manufacturing production process.
- b. Prior production of material for no less than 3 years.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver wall tile/paneling to project site, or fabrication site, not less than 5 days prior to start of installation (to allow for suitable acclimation). Open boxes to increase acclimation.

1.05 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Installation spaces, flooring and adhesive must be maintained at normal occupancy temperature and humidity levels (HVAC working) for minimum of 48 hours prior to installation.

1.06 WARRANTY

A. Special Warranty:

1. Sustainable Materials' Structural Warranty: 10 years against delamination or Separation as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Vasco Emanuel Lda. (ie: Muratto)
Rua Pedro Homem de Melo, 432, 1 esq
Porto 4150-598
Portugal

Distributor (North America):
Sustainable Materials LLC
5403 Western Ave #C
Boulder, CO 80301
USA

Tel: (720) 449-3063
e-mail: info@sustainablematerials.com
Website: <http://www.sustainablematerials.com/muratto>
- B. Organic Acoustical Panels:
 - a. Undertone
 - b. Buzzer

- C. Colors (select one, or multiples based on design):
 - a. Natural
 - b. Ivory
 - c. Yellow
 - d. Red
 - e. Bordeaux
 - f. Olive
 - g. Turquoise
 - h. Emerald
 - i. Aubergine
 - j. Black
 - k. Taupe
 - l. Grey
 - m. Copper

D. Substitutions: None Permitted.

2.02 MATERIALS

A. Organic Acoustical Panels:

1. Species: Cork

2. Size:

- a. Undertone and Buzzer
 - 1. 500mmx 500mm x 29mm (approx. 19-5/8" x 19-5/8" x 1-1/16")
 - 2. Tongue and Groove on edges tile
 - 3. Coverage = 2.69 sq.ft./tile
 - 4. 4 panels per box (10.76 sq. ft. per box)
- b. Buzzer
 - 1. 500mmx 500mm x 29mm (approx. 19-5/8" x 19-5/8" x 1-1/16")
 - 2. Tongue and Groove on edges tile
 - 3. Coverage = 2.69 sq.ft./tile
 - 4. 4 panels per box (10.76 sq. ft. per box)

3. Physical Property Performance Requirements:

- a. Composition: 100% cork (natural and agglomerated)
- b. Dimensional Stability: $\leq 0.4\%$ (per EN 434)
- c. Thermal Resistance: $0.47 \text{ m}^2\text{C/W}$
- d. Thermal Conductivity: 0.0488 W/mC
- e. Sound Absorption:
 - Buzzer NRC = 0.80** (installed using clips attached to furring strips. Air Gap behind panel filled with acoustical fabric)
 - Undertone NRC = .70** (installed using clips attached to furring strips. Air Gap behind panel filled with acoustical fabric)
- c. Fire-rating (per ASTM E84): Class B; considered Class A is 'sprinkled assemblies' (per NFPA 2015)

B. Installation Methods (select one): [*Note: predicated on NRC rating desired and/or substrate conditions for installation*]

- 1. "Air-Gap" installation: install panels using recommended 'clip system', allowing for 'Air-gap' between back of panels and substrate (see "Acoustical Panels – Air-Gap Installation Method" instructions for detailed information).
- 2. 'Direct-Glue' installation: use recommended 'D3540', water-based contact cement adhesive. (This type of installation would reduce NRC by approx. .40 from what is listed above)

C. Finish: Through-color granulation with protective finish

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrate(s) to which Organic Acoustical Panels will be applied:
 - 1. Components must be clean, dry, and free of contaminants that would interfere with adhesive bond.
 - 2. Drywall or other wall substrate will need 'priming' (or sealing) to ensure suitability for either method of installation.
- C. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.
- D. If either of the above conditions are not met, coordinate with responsible entity to correct unsatisfactory conditions.

3.02 PREPARATION

- A. Acclimatization: Open all Organic Acoustical packaging to allow the material to acclimate for a minimum of 72 hours prior to the start of the installation.
- B. Fix substrate if needed (as per Examination needs and those relating to the adhesive bond per the instructions of the adhesive selected for use).

3.03 INSTALLATION

- A. Find Center: using a chalk line, find the symmetrical axes of the wall sides to determine starting point. Measure from the middle to ensure that the edge pieces (those against the adjacent walls) are identical in size and greater than 2" in width.
- E. Follow the Recommended installation instructions based on installation method chosen (either for "Direct-glue" or "Air-Gap" installation). *[Note: contact distributor if there are any questions].*
- F. Install in pattern suitable based on specification plans.
- G. Press tiles into place (per adhesive Manufacturer's instructions and dry time requirements)

3.04 CLEANING and MAINTENANCE

- A. Clean and maintain in accordance with guidelines presented in Installation Guidelines.

With any questions, or for this in a digital format, contact:

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