

3D CORK BRICKS - CSI Spec (Sustainable Materials)

CORK WALL TILES/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 tiles/paneling to project site, or fabrication site, not less than 3 days prior to start of installation (to allow for suitable 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. Cork Bricks (select one, or multiples based on design):
 - a. Natural
 - b. Ivory
 - c. Brown
 - d. Terracota
 - e. Green
 - f. Black

- g. Grey
- C. Installation Methodology:
 - a. Commercial
 - i. Water-based contact cement
 - b. DIY
 - i. Adhesive-backed
- D. Substitutions: None Permitted.

2.02 MATERIALS

A. Cork Bricks:

1. Species: Cork
2. Size:
 - a. 3D - Commercial:
 - 100mmx 100mm x 14mm (approx. 4" x 4" x 0.55")
 - 100mmx 200mm x 11mm (approx. 4" x 8" x 0.43")
 - 100mmx 300mm x 7mm (approx. 4" x 12" x 0.28")
 - b. 3D - Residential:
 - 70mm x 150mm x 11mm (approx. 2.76" x 5.9" x 0.43")
 - 70mmx 300mm x 8mm (approx. 2.76" x 11.81" x 0.32")
 - 70mmx 450mm x 6mm (approx. 2.76" x 17.72" x 0.24")
3. Physical Property Performance Requirements:
 - a. Composition: 100% cork (natural and agglomerated)
 - b. Dimensional Stability: $\leq 0.4\%$ (per EN 434)
 - c. Thermal Resistance: 0.46 m²C/W
 - d. Thermal Conductivity: 0.0541 W/mC
 - e. Sound Absorption: NRC = 0.15
 - f. Fire-rating Class C; considered Class B is 'sprinkled assemblies' (per NFPA 2015)

B. Installation Adhesive: water-based contact cement

C. Finish: Through-color granulation with protective finish

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrate(s) to which Cork Bricks 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 suitable bond with contact cement
- B. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.
- C. If either of the above needs attendance, coordinate with responsible entity to correct unsatisfactory conditions.

3.02 PREPARATION

A. Acclimatization: Open all Cork Bricks packaging to allow the material to acclimate for a minimum of 48 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.

B. Follow the Manufacturer's installation instructions of the adhesive selected.

C. Install in pattern suitable based on specification plans.

D. 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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