

## Architectural Specification

061629

09618

### CORK UNDERLAYMENT

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A.Noise-reducing impact insulation system for vinyl, linoleum and VCT floors
- B.Sound-reducing underlayment for nail down' solid and semi-solid wood floor systems
- C.Noise-reducing impact insulation system for wood laminate and engineered wood floors
- D.Sound-reducing underlayment for glue-less, interlocking "click and fit" laminate flooring.
- E.Sound-reducing underlayment for ceramic tile and natural stone floor systems
- F.Noise-reducing impact insulation system for carpet and carpet tiles

##### 1.2 RELATED SECTIONS

- A.Section 09300 - Tile: ceramic tile and natural stone floors
- B.Section 09640 - Wood Flooring: Wood floor systems
- C.Section 09650 - Resilient Flooring: Vinyl, linoleum and VCT floors
- D.Section 09680 - Carpet: Carpet and carpet tiles

##### 1.3 SUBMITTALS

- A.Submit under provisions of Section 01300.
- B.Manufacturer's data sheets on each product to be used, including:
  - 1.Preparation instructions and recommendations
  - 2.Storage and handling requirements and recommendations
  - 3.Documentation that materials proposed for use meets building code requirements in the jurisdiction of the Project.
- C.Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, represent actual product, color, and patterns.

##### 1.4 QUALITY ASSURANCE

- A.Manufacturer Qualifications: The manufacturer shall be a firm with a minimum of ten years of successful experience in manufacture of products with similar requirements.
- B.Installer Qualifications: The installer shall be a firm with a minimum of five years of successful experience in installation of products with similar requirements.

##### 1.5 DELIVERY, STORAGE, AND HANDLING

- A.Store products in manufacturer's unopened packaging until ready for installation

##### 1.6 PROJECT CONDITIONS

- A.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 absolute limits.

#### PART 2 PRODUCTS

##### 2.1 MANUFACTURERS

- A.Acceptable Manufacturer: USF Contract Natural Cork® , 3580 Corporate Drive, Dalton, GA 307, 21 877-929-4044
- B.Substitutions: Not permitted
- C.Requests for substitutions considered in accordance with provisions of Section 01600

##### 2.2 SOUND-REDUCING UNDERLAYMENT FOR GLUE-LESS, INTERLOCKING "CLICK AND FIT" LAMINATE FLOORING

##### 2.3 UNDERLAYMENT FOR CERAMIC TILE AND NATURAL STONE FLOOR SYSTEMS

##### 2.4 NOISE-REDUCING IMPACT INSULATION SYSTEM FOR WOOD LAMINATE AND ENGINEERED WOOD FLOORS SOUND

##### 2.5 REDUCING UNDERLAYMENT FOR NAIL DOWN SOLID AND SEMI-SOLID WOOD FLOOR SYSTEMS SOUND-REDUCING

##### 2.6 NOISE-REDUCING IMPACT INSULATION SYSTEM FOR CARPET AND CARPET TILES

- A.Acceptable Product: Natural Cork® Corkshield™
  - 1. Acoustical Properties
    - a. ASTM-E413-87 STC 57
    - b. ASTM-E989-89 IIC54
  - 2. Physical Properties
    - a. Sizes: 39" x 370"

- b. Thickness: 4.8mm
  - c. Composition: Homogenous 100% quercus suber cork Composition of cork granules Size 1 - 3
  - d. Anti-allergenic Cork- quercus suber is a bacteria and spore resistant product
  - e. Insect Resistance Cork- quercus suber is a natural insect
  - f. Anti-microbial Quercus Suber inhibits mold and bacteria in binder - standard
  - g. Backing: Aluminum Foil moisture barrier
  - h. Density: 190 kg/m<sup>3</sup> - 210 kg/m<sup>3</sup> [11.7lb/ft<sup>3</sup> – 12.5 lb/ft<sup>3</sup>]
3. Accessories:
- a. 6-8 mil polyethylene sheet
  - b. Perimeter isolation material
  - c. Polyethylene tape
  - d. Acoustical caulk
- B. Acceptable Product: Natural Cork® Fenda Guard™
1. Physical Properties
- a. Sizes: 39" x 370"
  - b. Thickness: 1.2 mm
  - c. Composition: Homogenous 100% quercus suber cork Composition of cork granules – recycled rubber
  - d. Anti-allergenic Cork- quercus suber is a bacteria and spore resistant product
  - e. Density 35lb/ft<sup>3</sup>
  - f. Anti-microbial Quercus Suber inhibits mold and bacteria in binder – standard
2. Accessories:
- a. 6-8 mil polyethylene sheet
  - b. Perimeter isolation material
  - c. Polyethylene tape
  - d. Acoustical caulk
- C. Acceptable Product: Natural Cork® Underlayment 125
1. Acoustical Properties
- a. ASTM-E413-87 STC 60
  - b. ASTM-E989-89 IIC53
2. Physical Properties
- a. Sizes: 36" x 24" sheets, 48" x600" rolls
  - c. Thickness:3.2mm
  - d. Composition: Homogenous 100% quercus suber cork Composition of cork granules Size 1 - 3
  - e. Anti-allergenic Cork- quercus suber is a bacteria and spore resistant product
  - f. Insect Resistance Cork- quercus suber is a natural insect
  - g. Anti-microbial Quercus Suber inhibits mold and bacteria in binder - standard
  - h. Density: 190 kg/m<sup>3</sup> - 210 kg/m<sup>3</sup> [11.7lb/ft<sup>3</sup> – 12.5 lb/ft<sup>3</sup>]
3. Accessories:
- a. 6-8 mil polyethylene sheet
  - b. Perimeter isolation material
  - c. Polyethylene tape
  - d. Acoustical caulk
- D. Acceptable Product: Natural Cork® Underlayment 250
1. Acoustical Properties
- a. ASTM-E413-87 STC59
  - b. ASTM-E989-89 IIC54
2. Physical Properties
- a. Sizes: 36" x 24" sheets, 48" x600" rolls
  - c. Thickness:6.4mm
  - d. Composition: Homogenous 100% quercus suber cork Composition of cork granules Size 1 - 3
  - e. Anti-allergenic Cork- quercus suber is a bacteria and spore resistant product
  - f. Insect Resistance Cork- quercus suber is a natural insect
  - g. Anti-microbial Quercus Suber inhibits mold and bacteria in binder - standard
  - h. Density: 190 kg/m<sup>3</sup> - 210 kg/m<sup>3</sup> [11.7lb/ft<sup>3</sup> – 12.5 lb/ft<sup>3</sup>]

- 3. Accessories:
  - a. 6-8 mil polyethylene sheet
  - b. Perimeter isolation material
  - c. Polyethylene tape
  - d. Acoustical caulk
- E. Acceptable Product: Natural Cork® Underlayment 500
  - 1. Acoustical Properties
    - a. ASTM-E413-87 STC 57
    - b. ASTM-E989-89 IIC54
  - 2. Physical Properties
    - a. Sizes: 36" x 24" sheets
    - b. Thickness: ½" [12.7 mm]
    - c. Composition: Homogenous 100% quercus suber cork Composition of cork granules Size 1 – 3
    - d. Anti-allergenic Cork- quercus suber is a bacteria and spore resistant product
    - e. Insect Resistance Cork- quercus suber is a natural insect
    - f. Anti-microbial Quercus Suber inhibits mold and bacteria in binder – standard
    - g. Backing: Aluminum Foil moisture barrier
    - h. Density: 190 kg/m<sup>3</sup> - 210 kg/m<sup>3</sup> [11.7lb/ft<sup>3</sup> – 12.5 lb/ft<sup>3</sup>]
  - 3. Accessories:
    - a. 6-8 mil polyethylene sheet
    - b. Perimeter isolation material
    - c. Polyethylene tape
    - d. Acoustical caulk

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

### 3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.