

**3 Part CSI Formatted Specification Guide
Zandur Resilient Flooring Products
Zandur, Inc
888.397.2656
www.zandur.com**

Section 09.65.19

**RESILIENT RUBBER TILE FLOORING
SUSTAIN CORK RUBBER TILE, FLEX SOLID RUBBER**

DOCUMENT #042

THE FOLLOWING DOCUMENT IS A GUIDE FOR CREATING YOUR CSI FORMATTED 3-PART ARCHITECTURAL GUIDE SPECIFICATIONS.

ZANDUR ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR RELATED SPECIFICATIONS. PRIOR TO USE OF THIS DOCUMENT, ENSURE THAT YOU HAVE OBTAINED ALL UP TO DATE PUBLICATIONS AND SPECIFICATIONS FROM ZANDUR.

THE SPECIFIER IS RESPONSIBLE FOR PRODUCT SELECTION, ACCURACY OF ALL PROJECT SPECIFICATIONS AND USE OF PROPER SPECIFICATION DATA.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Rubber Tile Flooring
 - 2. Cork Rubber Tile Flooring

1.3 SUBMITTALS

- A. Product Data: Submit product data including manufacturers general specification sheet for each product specified.
- B. LEED Submittals:

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1. Product Data for each LEED credit where product meets qualifications: For adhesives, include printed statement of VOC content and chemical components.
 - C. Samples for Initial Selection: Submit representative selection of samples for finish, color and shade.
 - D. Product Schedule: For resilient products. Use same designations indicated on Drawings.
- 1.4 QUALITY ASSURANCE
- A. Mockups: Provide resilient products with mockups specified in other Sections.
 - B. Documents. Submit the following:
 1. Test reports showing compliance with specified performance and physical characteristics
 2. Installation and Maintenance instructions.
 - C. Samples for Verification: For each product specified, provide two samples in manufacturer's standard submittal size samples for site verification prior to installation of color, shade, texture, and pattern required.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Material shall be stored in a cool, dry, enclosed space with a minimum temperature of 45°F. Prior to installation, verify job site conditions are maintained between 65°F and 75°F with a relative humidity between 45% and 65%. These conditions must be maintained for 72 hours prior to, during and 72 hours after installation. Temporary heating may not be used during acclimation or installation.
- 1.6 PROJECT CONDITIONS
- A. Install resilient flooring after other finishing work, including painting and installation of ceiling systems has been completed.
 - B. Maintain ambient temperature and humidity on job site in the range between 65°F and 75°F with a relative humidity between 45% and 65%.
- 1.7 WARRANTY
- A. Manufacturer's Warranty: Submit manufacturers standard warranty documentation.

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1.8 ADDITIONAL MATERIALS

- A. Attic Stock: Deliver 5% additional materials from same production run to owner for use at a future time should repair and/or replacement of a damaged area of the floor be required.

PART 2 - PRODUCTS

2.0 RESILIENT FLOORING

A. CORK RUBBER TILE

1. SUSTAIN CORK RUBBER TILE

a. Manufactured By:

Zandur	Phone:	888.397.2656
80 Nottingham Dr.		610.932.4390
Nottingham, PA 19362	Tech:	888.397.2656
Web: www.zandur.com	Samples:	888.397.2656
email: sales@zandur.com	Fax:	610.932.4386

- b. Manufactured with a composition of 65% cork and SBR Rubber.
- c. Meets ASTM F 1344 Standard Specification for Rubber Tile Flooring Type IB
- d. Manufactured with environmentally compatible, fade resistant pigments and natural fillers.
- e. Warranty: 1 Year Manufacturing Defect, 10 Year Wear Through
- f. Overall thickness (Specify Thickness):
- 1) 2.5mm
 - 2) 3.5mm
 - 3) 6.0mm
 - 4) 9.0mm
- g. Tile size (Specify Size):
- 1) 1M x 1M (39.4" x 39.4")
 - 2) Specify other size as required
- h. Tile Edge (Specify)
- 1) Square edge
 - 2) Interlock (interlock available only in 1m x 1m tiles with thickness of 6.0mm or 9.0mm)
- i. Options (Specify)
- 1) Skate and Spike Resistant (6.0 and 9.0mm only)
 - 2) Heavy Duty
 - 3) Animal fat and grease resistant
- j. Color (Specify):
- 1) 36 Standard Colors (Specify Zandur Color Name and Numerical Reference)
 - 2) Custom Color (Specify color using Zandur custom sample code)
- k. ASTM E90/ASTM E413 Sound Rating (3.5mm Thickness): STC 67; IIC 71

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- l. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
- m. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring: Exceeds Federal Standards and A.D.A. requirements for slip-resistance.
- n. ASTM F 970, Standard Test Method for Static Load Limit – Exceeds Requirement.
- o. ASTM E 648, Standard Test method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source – Class I
- p. ASTM D2240, Shore A Hardness: Min 85
- q. ASTM F 925, Chemical Resistance: No more than slight: change in surface color, dulling or attack.
- r. ASTM E 662, Smoke Density: <340
- s. ASTM G 21, Mold Growth: Anti-Microbial
- t. Meets California Section 01350 indoor air quality test
- u. PVC, Phthalate, chlorine and halogen-free.
- v. Meets qualification criteria for LEED credits MR4.1, MR4.2, MR 6.0 and IEQ4.3.
- w. Oil and Grease Resistance: No
- x. Initial Maintenance: Following manufacturer’s instructions clean floor with Zandur #12 deep cleaner prior to use to remove any manufacturing residues that may keep floor from performing optimally.
- y. Regular Maintenance: Following manufacturer’s instructions, clean floor using Zandur Z-Clean detergent free system or using a recommended neutral cleaner.
- z. Floor Finishes: Finishes are not required or recommended for use where auto scrubbers are used. For applications where only mopping and infrequent scrubbing occur or where exposure to potential staining hazards is possible a finish is advisable as specified by manufacturer’s instructions.

1. SUSTAIN CORK RUBBER LANDING TILE

a. Manufactured By:

Zandur	Phone:	888.397.2656
80 Nottingham Dr.		610.932.4390
Nottingham, PA 19362	Tech:	888.397.2656
Web: www.zandur.com	Samples:	888.397.2656
email: sales@zandur.com	Fax:	610.932.4386

- a. Manufactured with a composition of 65% cork and SBR Rubber.
- a. Meets ASTM F 1344 Standard Specification for Rubber Tile Flooring Type IB
- b. Manufactured with environmentally compatible, fade resistant pigments and natural fillers.
- c. Warranty: 1 Year Manufacturing Defect, 10 Year Wear Through
- d. Surface Texture: Textured with 0.5mm low profile round studs to aid in product cleanability.
- e. Overall thickness (Specify Thickness):
 - 1) 2.7mm

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- f. Tile size (Specify Size):
 - 1) 500mm x 500mm (19.7" x 19.7")
- g. Color (Specify):
 - 1) 36 Standard Colors (Specify Zandur Color Name and Numerical Reference)
 - 2) Custom Color (Specify color using Zandur custom sample code)
- h. ASTM E90/ASTM E413 Sound Rating (3.5mm Thickness): STC 67; IIC 71
- i. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
- j. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring: Exceeds Federal Standards and A.D.A. requirements for slip-resistance.
- k. ASTM F 970, Standard Test Method for Static Load Limit – Exceeds Requirement.
- l. ASTM E 648, Standard Test method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source – Class I
- m. ASTM D2240, Shore A Hardness: Min 85
- n. ASTM F 925, Chemical Resistance: No more than slight: change in surface color, dulling or attack.
- o. ASTM E 662, Smoke Density: <450
- p. ASTM G 21, Mold Growth: Anti-Microbial
- q. Meets California Section 01350 indoor air quality test
- r. PVC, Phthalate, chlorine and halogen-free.
- s. Meets qualification criteria for LEED credits MR4.1, MR4.2, MR 6.0 and IEQ4.3.
- t. Oil and Grease Resistance: No
- u. Initial Maintenance: Following manufacturer's instructions clean floor with Zandur #12 deep cleaner prior to use to remove any manufacturing residues that may keep floor from performing optimally.
- v. Regular Maintenance: Following manufacturer's instructions, clean floor using Zandur Z-Clean detergent free system or using a recommended neutral cleaner.
- w. Floor Finishes: Finishes are not required or recommended for use where auto scrubbers are used. For applications where only mopping and infrequent scrubbing occur or where exposure to potential staining hazards is possible a finish is advisable as specified by manufacturer's instructions.

B. SOLID RUBBER TILE

2. FLEX SOLID RUBBER TILE AND FLEX SPORT TILE

a. Manufactured By:

Zandur	Phone:	888.397.2656
80 Nottingham Dr.		610.932.4390
Nottingham, PA 19362	Tech:	888.397.2656
Web: www.zandur.com	Samples:	888.397.2656
email: sales@zandur.com	Fax:	610.932.4386

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- b. Manufactured with SBR Rubber, environmentally compatible, fade resistant pigments and natural fillers..
- c. Meets ASTM F 1344 Standard Specification for Rubber Tile Flooring Type IB
- d. Warranty: 1 Year Manufacturing Defect, 12 Year Wear Through
- e. Overall thickness (Specify Thickness):
 - 1) 2.5mm
 - 2) 3.5mm
 - 3) 6.0mm
 - 4) 9.0mm
- f. Tile size (Specify Size):
 - 1) 39-3/8" x 39-3/8" (1m x 1m)
 - 2) Specify other size as required
- g. Tile Edge (Specify)
 - 1) Square edge
 - 2) Interlock Edge (available in 6.0mm and 9.0mm in 1m x 1m dimension)
- h. Color (Specify):
 - 1) 24 Standard Colors (Specify Zandur Color Name and Numerical Reference)
 - 2) Custom Color (Specify color using Zandur custom sample code)
- i. Options (Specify as required)
 - 1) Skate and Spike Resistant (6.0 and 9.0mm only)
 - 2) Animal Fat and Grease Resistant
 - 3) Heavy Duty
- j. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
- k. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring: Exceeds Federal Standards and A.D.A. requirements for slip-resistance.
- l. ASTM F 970, Standard Test Method for Static Load Limit – Exceeds Requirement.
- m. ASTM E 648, Standard Test method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source – Class I
- n. ASTM D2240, Shore A Hardness: Min 85
- o. ASTM F 925, Chemical Resistance: No more than slight: change in surface color, dulling or attack.
- p. ASTM E 662, Smoke Density: <340
- q. ASTM G 21, Mold Growth: Anti-Microbial
- r. Meets California Section 01350 indoor air quality test
- s. PVC, Phthalate, chlorine and halogen-free.
- t. Meets qualification criteria for LEED credits MR4.1, MR4.2, MR 6.0 and IEQ4.3.
- u. Oil and Grease Resistance: No
- v. Initial Maintenance: Following manufacturer's instructions clean floor with Zandur #12 deep cleaner prior to use to remove any manufacturing residues that may keep floor from performing optimally.
- w. Regular Maintenance: Following manufacturer's instructions, clean floor using Zandur Z-Clean detergent free system or using a recommended neutral cleaner.
- x. Floor Finishes: Finishes are not required for use where auto scrubbers are used. For applications where only mopping and infrequent scrubbing occur or where

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exposure to potential staining hazards is possible a finish is advisable as specified by manufacturer's instructions.

C.

2.3 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, **Portland** cement based or blended hydraulic cement based formulation.
- B. Adhesives: As recommended in current Zandur installation instructions.
 - 1. #10 Acrylic Adhesive for light traffic commercial
 - 2. #15 Two Part Urethane for moderate commercial traffic and exposure to elevated levels of surface moisture.
 - 3. #25 Releasable Adhesive for use over access flooring panels where releasable properties are desired.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.
- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks and other imperfections, are smooth and level within tolerance specified by Zandur and are free of oils, waxes, paint or other materials that might interfere with adhesion of resilient products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION & RESPONSIBILITIES

A. SITE REQUIREMENTS:

- 1. **WARNING:** Do not sand, dry sweep, dry scrape, drill, saw, bead-blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt "cutback" adhesive, or other adhesive. These products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content.
- 2. Floor Tile must be installed on a substrate that is permanently dry, clean, smooth and structurally sound. It must be free of contaminants such as paint, oil, wax, mold, adhesive residues, sealers or any other materials that may interfere with adhesive bonding.

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3. Prior to installation an adhesive bond test must be performed by gluing a 12" X 12" or larger piece of product to the substrate. Allow adhesive to cure overnight. If bond is sufficient, product will be laying flat and it will not be possible to remove by hand.
4. Floor Tile is not intended to be installed over existing floor coverings and is not warranted for such use. Existing flooring or Treads must be removed or (if installed on a wood subfloor) covered with 1/4" or 1/2" plywood.
5. All Sub-floors shall be flat to within 3/16" in 10' and shall be patched or skim coated with a hard setting underlayment compound to ensure substrate is completely smooth. Only Ardex brand or equal products are approved and must have a minimum compressive strength of 3,000 psi. Do not apply patching material over existing adhesives. Manufacturer is not responsible for any claims submitted on floors where patching materials have been applied over adhesive residue or existing floor coverings regardless of manufacturer instructions. After patching or skimming is complete, floor must be sanded or scraped to remove any trowel marks or other inconsistencies which may telegraph through the finished flooring material. Follow manufacturers guidelines for product mixing and use instructions. Gypsum products are not approved for use.
6. Preparation of Wood Sub-Floors
 - a. Prepare wood sub-floor per ASTM F 710, *Standard practice for installation and preparation of panel type underlayment to receive resilient flooring*, as it relates only to approved wood underlayments.
 - b. Floor covering products may be installed over 3/8" or greater A/C grade plywood or underlayment board such as Tecply or Halex (Arctic or Baltic Birch).
 - c. Products are not approved for installation over panel underlayments such as Masonite, luan, particle board, OSB, cementitious underlayment panel, wood underlayment with knots or coated wood.
 - d. Follow manufacturers' instructions for installation regarding fastening pattern and joint spacing. Do not install underlayment with screws.
 - e. Once installed, patch subfloor with cementitious material as instructed in current manufacturers' instructions.
7. Preparation of Concrete Sub-Floors
 - a. Concrete sub-floors shall be prepared in accordance with ASTM F 710 *Standard practice for preparing concrete sub-floors to receive resilient flooring*.
 - b. Concrete sub-floors must be clean as specified. Pay specific attention to possible presence of a sealer which must be removed. It is highly recommended to shot blast or bead blast existing concrete sub-floors prior to installation to remove sealers, adhesives and/or any other surface contaminants.
 - c. Concrete sub-floors on or below grade must have a moisture retarder and all concrete subfloors, regardless of age, must be tested for the moisture vapor emission rate and relative humidity to ensure the sub-floor is suitable for floor covering installation.
 - d. Testing of concrete shall be performed **ONLY** when the building is enclosed and when the HVAC system has been in operation for at least 7 days. Furthermore, job-site temperature and humidity must be at the level expected during normal use or in the range of 65°F to 85°F and 45% to 55% relative humidity.

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- e. Moisture tests must be performed at a rate of 3 for the first 1,000 square feet and then 1 additional test per additional 1,000 square feet.
- f. Moisture Vapor Emission Rate shall not exceed 3 lbs./1,000 square feet/24 hours as tested in accordance with ASTM F 1869 (Calcium Chloride Test).
- g. Concrete Relative Humidity shall not exceed 75% as tested in accordance with ASTM F 2170 (Relative Humidity Probe Test).
- h. Sub-Floor pH must be tested with wide range pH paper and verified to be no greater than 9. Test as per ASTM F-710.
- i. Level sub-floor as specified
- j. Allow patching materials to dry naturally without the use of direct air or temporary HVAC.
- k. Zandur flooring may be installed over terrazzo floors, however terrazzo must be bead or shot blasted to ensure adhesion.
- j. Zandur Rubber Flooring products may be installed over in-floor, hot water radiant heat systems. Specific installation instructions shall be obtained from Zandur and implemented accordingly.

3.3 RESILIENT TILE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient rubber tile flooring.
- B. Install with the appropriate adhesive depending upon use and exposure to surface moisture. Follow up to date instructions recommendations and for proper use.
- C. Roll the flooring in both directions using a 100 pound three-section roller.

3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.
- B. Perform the following operations immediately after completing resilient product installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Sweep and vacuum surfaces thoroughly.
 - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Limit traffic for 24 hours after installation.
- E. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.
- F. Wait 72 hours after installation before performing initial cleaning.
- G. A regular maintenance program must be started after the initial cleaning.

END OF SECTION 09.65.19