

ArenaFlex “S”

096500 RESILIENT ATHLETIC SURFACING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Spec. Note: List appropriate Sections for related work specific to project

Refer to written Manufacturer's Installation Manual for complete information on receiving, installing and maintaining ArenaFlex “S” Tile. Material not recommended for environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials.

1.02 SUBMITTALS

1. Submit samples in accordance with Section [] – [].
2. Submit supplicate 300 mm x 300 mm (12 in. x 12 in.) sample pieces of *ArenaFlex “S” Tile* flooring materials.
3. Submit Material Safety Data Sheets for installation adhesives, cleaners and sealers.
4. Submit layout drawing of flooring [tiles] to [Owner] [Consultant] [Engineer] for review prior to starting any work.

1.03 CLOSEOUT SUBMITTALS

1. Provide maintenance data for resilient flooring for incorporation into manual specified in Section [] – [].

1.04 EXTRA MATERIALS

1. Provide extra materials of resilient *ArenaFlex “S” Tile* flooring and adhesives in accordance with Section [] – [].
2. Provide [] m², (sq.ft) [] % of each [color], of flooring material required for project for maintenance use.
3. Extra materials to be in one piece and from same production run as installed materials.
4. Clearly identify each type of *ArenaFlex “S” Tile* flooring and each container of adhesive.
5. Deliver to [Owner] [Architect], upon completion of the work of this section.
6. Store where directed by [Owner] [Architect].

1.05 DELIVERY, STORAGE AND HANDLING

1. Deliver *ArenaFlex “S” Tile* resilient flooring materials undamaged with Manufacturer's labels intact.
2. Store *ArenaFlex “S” Tile* in a protected area on site a minimum of 48 hours prior to installation. (Extreme cold or hot climate may require additional time.)
3. Store *ArenaFlex “S” Tile* flat, blocked off floor.
4. Prevent damage or contamination to *ArenaFlex “S” Tile* from water, moisture, freezing, excessive heat, direct sunlight and construction dust or dirt.
5. Protect *ArenaFlex “S” Tile* from construction activities. Provide tarpaulins or plastic coverings blocked to allow ventilation and prevent contamination from dust or debris.
6. Inspect *ArenaFlex “S” Tile* for damage, color consistency, and conformity to specification prior to installation, notify the appropriate authority of any imperfections or irregularities, and do not proceed with installation if irregularities exist.

1.06 ENVIRONMENTAL REQUIREMENTS

1. Do not install when the moisture vapor emission rate (MVER) exceeds 2.27 kg per 92.9 m² (5 lbs per 1,000 sq. ft.) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
2. Do not install when the relative humidity of concrete slabs exceeds 75% (ASTM F2170).
3. Use only when the substrate temperature is between 10°C and 32°C (50°F and 90°F), and when the ambient relative humidity is below 65%.



1.07 WARRANTY

1. Supply Manufacturer's standard limited warranty against defects in materials or workmanship for five (5) years for *ArenaFlex "S" Tile* from date of purchase.
2. Supply Manufacturer's standard limited warranty against wear exceeding 2% per year when recommended installation and maintenance guidelines are followed.
3. Warranty is void if solvent based adhesive is used for the installation of *ArenaFlex "S" Tile*.
4. Warranty is void if damaged or irregular materials have been installed without prior notification and adjustments made by Manufacturer.

PART 2 - PRODUCTS

2.01 SOURCE QUALITY CONTROL

Spec. Note: Select appropriate product(s) and/or option listed in brackets

1. Solid Colored with Marbleized Pattern Rubber Flooring Tile, Square or Interlocking Tiles
 - .A Wearing Surface: 2mm (3/32 in) colored virgin blend rubber \pm 0.5mm (1/32 in).
 - .B Square Size: 900mm x 900mm (35.5 in x 35.5 in) \pm 0.5mm (1/32 in)
Interlocking Size: 864mm x 864mm (33.4 in x 33.4 in)
 - .C Backing: 40.87% natural/SBR rubber blend, 59.13% recycled rubber
 - .D Construction: Two layer calendared and vulcanized rubber
 - .E Pattern: 10% Accent marbling
 - .F Finish: Acid etched texture
 - .G Thickness: 10mm (3/8 in) \pm 0.2mm (1/64 in) tolerance
 - .H Color: [Mid Grey with Black] [Red with Black] [Black with Tan] [Dark Blue with Tan] [Forest Green with Tan] [Espresso with Black] [Sand with Chocolate] [Putty with Chocolate] [Purple with Tan] [Plum with Tan] [Earthtone – Black with mixed] [color indicated] selected by [Engineer] [Consultant].

Colors will be matched to within \pm one tone on the pantone chart

.I Material Properties:

Shore Hardness	ASTM 2240	82 (top) 70 (bottom)
Co-Efficient of Friction	ASTM C1028	0.93 dry, 0.84 wet
Critical Radiant Flux	ASTM E648-03	0.92 watts/cm ² Class 1
Static Load Limit	ASTM F970-00	.005 @ 500 psi
Optical Density of Smoke	ASTM E662	< 450 PASS
VOC Compliance	ASTM D5116	Yes
Color Stability		Good
Light Reflection		Average
Chemical Resistance		Good

- .J Acceptable product: *ArenaFlex "S" Tile* as manufactured by Langhorn Flooring Concepts, Inc.
321 S. Main Street, PMB #536 Sebastopol, CA 95472 Phone: 707-823-4455 Fax: 707-823-1174
E-mail: info@langhornfci.com

2.02 ACCESSORIES

1. Beveled Edging: Black rubber or vinyl transition ramp edging as available from flooring Manufacturer.
2. Floor Filler: Cement based leveling compound. Recommend Mapei Planipatch, Planipatch-Plus or acceptable substitution.
3. Adhesive: Single Component Adhesive, solvent free urethane adhesives as recommended by Manufacturer. (Do not use solvent based adhesives).

See warranty re alternate adhesives.

4. Initial Cleaner: PH neutral bio-degradable cleaner, diluted in clean water to Manufacturer's specification.
 - Recommended product: Taski™ Profi® or similar product

5. Floor Finish (if required only):
 - *ArenaFlex "S" Tile* does not require an applied finish.
 - Recommended product (if required): Taski™ Wiwax® or similar product.
 - An applied finish may alter the surface characteristic of the floor.
6. Maintenance Cleaner: PH neutral bio-degradable cleaner, diluted in clean water to Manufacturer's specification.

PART 3 – EXECUTION

3.01 SITE VERIFICATION OF CONDITIONS

1. Installation of *ArenaFlex "S" Tile* should not begin until the work of all other trades has been completed, especially overhead trades.
2. Examine floor areas to be covered and report any deficiencies to the Contractor. Do not proceed with installation until substrates and conditions comply with Manufacturer's requirements for installation.
3. Ensure floor substrate is clean and dry by using test methods recommended by flooring Manufacturer.
4. Ensure building area for flooring application is maintained at minimum 15°C (60°F), maximum 24°C (75°F) and at maximum 65% relative humidity for minimum 48 hours before installation, during installation and for minimum 72 hours after completion of work.
5. Entire flooring shall be dry laid and inspected by installer under normal, occupied lighting conditions, to ensure proper color and fit prior to final adhesive installation.

Spec Note: Select appropriate substrate preparation

3.02 WOOD FLOOR PREPARATION

Prepare sub-floor in accordance with Manufacturer's instructions in the printed Installation Manual

3.03 CONCRETE FLOOR PREPARATION

Prepare sub-floor in accordance with Manufacturer's instructions in the printed Installation Manual
Moisture tests must be taken on all concrete floors regardless of age and grade level.

1. Test shall be in accordance with ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
2. One test should be conducted for every 92.9030m² (1,000 sq.ft.) of flooring and the results not exceed 1.36 kg (3 lbs) per 92.9030m² (1,000 sq. ft.) in 24 hours.

If test results exceed limitations or if hydrostatic pressure exists, the installation must not proceed until the problem has been corrected or an approved vapor barrier underlayment is installed.

**If lightweight concrete has been used in construction, do not use the F1869 test. Use ASTM F2170, the Relative-Humidity Test, as an alternate in these cases.*

If poured-gypsum underlayment has been used, check with the underlayment Manufacturer on how to test for dryness. **Never use calcium chloride testing with gypsum underlayment.*

3.04 APPLICATION: FLOORING

See Manufacturer's printed Installation Procedures

3.05 CLEANING AND MAINTENANCE

1. Initial Cleaning: *See Manufacturer's printed Installation Procedures for instructions.*
 - Do not proceed with cleaning until 72 hours minimum after installation if flooring has been glued down.
2. Floor Finishing: Complete if required in project. A finish may alter the surface characteristic of the tile. Apply floor finish for rubber flooring according to instructions and application rate recommended by Manufacturer.
3. Regular Cleaning: *See Manufacturer's printed Installation Procedures for regular cleaning instructions.*

3.06 PROTECTION

1. Protect and cover new floors from damage until final inspection.
2. Prohibit traffic on floor for 24 hours after installation.
3. Provide ventilation to installation area during installation and for minimum 72 hours after completion of work.