



Langhorn Flooring Concepts, Inc. -

PRODUCT SPECIFICATIONS

PART 1 - GENERAL

1.01 DESCRIPTION

A. Related Work Specified Under Other Sections:

1. Substructure Buildup
 - a. Asphalt for outdoor or indoor installations
 - b. Concrete for indoor installation.....Section 03300
2. Slab depression.
 - a. Depression shall be thickness of Rubberflex material specified – 9/64" (3.5mm), 5/32" (4mm), 1/4" (6mm), 3/8" (9mm), or 1/2" (12mm). Tolerance 1/8" in radius of 10'.

Surface-steel troweled.

3. Membrane waterproofing and damp-proofing.....Section 07100.
Concrete subfloors on or before grade shall be adequately water proofed beneath and on the perimeter of the slab and on the earth side of below-grade walls.
4. Thresholds: metals.....Section 08700
5. Game standard insertsSection 11500

1.02 QUALITY ASSURANCE

A. Supplier Qualifications: Supplier shall be an established firm, experienced in the field: LFCl or approved equal.

B. Installer Qualifications:

1. Flooring contractor shall be experienced in the flooring field and approved by the manufacturer.
2. Flooring contractor shall be factory-approved and have completed at least three projects of similar magnitude and complexity.
3. Submit three copies of manufacturer's recommendations for the correct preparation, finishing and testing of concrete (asphalt) sub-floor surface to receive rubber sport surface.

1.03 SUBMITTALS

A. Manufacturer's Product Data: Submit three copies of Physical Properties

B. Samples: Submit three samples of Rubberflex Impact – Gold, Diamond or Platinum Series - in thickness desired.

C. Maintenance Literature: Submit three copies of Rubberflex maintenance instructions.

1.04 DELIVERY, STORAGE AND HANDLING

A. Delivery of material

1. Material shall not be delivered or installed until all masonry, painting, plastering, tile work, marble and terrazzo work are completed and all overhead mechanical work, lighting, backstops, scoreboards are installed. Room temperature shall be at least 55 degrees Fahrenheit and moisture content of concrete slab 5% or lower.
2. Area where materials are to be stored should be maintained at 55° Fahrenheit and under 50% relative humidity by the General Contractor.

1.05 JOB CONDITIONS

A. Do not install floor system until concrete has been cured thirty (30) days and the requirements in Paragraph 1.04 are obtained.

B. After surface is installed and games lines painted, area is to be kept locked by General Contractor to allow curing time for paint and adhesive. No other trades are to be allowed on floor until it is accepted by owner or his agents.



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PART 2 - PRODUCT

2.01 MATERIALS

A. Description

1. Surface shall be rubber roll goods or rubber tiles. Rolls shall be 4' -0" width x 20'-95' total length x 9/64" (3.5mm), 5/32" (4mm), 1/4" (6mm), 3/8" (9mm), or 1/2" (12mm) thickness, determined by a combination of thickness and total roll weight. Materials shall be non-layered rubber product consisting of polymerically bound recycled rubber mixed with colored EPDM granules or pigmented SBR rubber. The colored rubber particles are homogeneously mixed throughout the entire roll or tile once and have no chance of wearing away.
2. The tiles shall be 24" x 24" or 36" x 36" or 48" x 48".

2.02 TECHNICAL DATA

A. Weight: Approx. 1.8 lbs/sq. ft. at 1/4" thickness

Approx. 2.5 lbs/sq. ft. at 3/8" thickness

Density: 63 lbs/cu. ft. rolls; 60 lbs/cu. ft. tiles

Shore A Hardness ASTM Test: 55

Compression at 100 psi: 5 to 15

Recovery: 85 min.

Electric Conductivity: 1.1 x 10.2

Chemical Resistance: Unaffected by most acids and chlorine.

Abrasion Resistance: (2100 cycl): .5150

Coefficient of Friction: 0.57 dry; 0.72 wet

Compression Endurance: 10,000 cycles with 4 - 9 ton load

Acoustic Rating: Superior

Colors: Gray, Green, Red, Brown, Beige, Blue and Custom Blended Colors

New York State Fire Gas Toxicity Test: #09300-900216-4006

B. Adhesive

1. Rubberflex adhesive shall be approved by manufacturer, no substitutions. Recommended adhesives are: Chemrex CX-941, APAC 989 and Regupol PU350. Adhesive shall be a single component POLYURETHANE adhesive over asphalt, wood or concrete. Use of any non-approved adhesive shall void warranty.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect concrete (or asphalt) sub-floor for proper tolerance (see pt. B-Sec. 1.04-1) and dryness (see pt. 1 -Sec. 1.04-1) and report any discrepancies to General Contractor in writing.
- B. All work required to put concrete (asphalt) sub-floor in acceptable condition shall be the responsibility of General Contractor
- C. Sub-floor shall be broom cleaned by General Contractor.

3.02 INSTALLATION

A. Rubberflex Impact

1. Product should be unrolled and allowed to relax before cutting and fitting.
2. After all above procedures are performed, begin application of the recommended one-component polyurethane adhesive, making sure to use the proper recommended trowel size.
 1. 3.2mm to 4mm - 1/32" V-Notched Trowel
 2. 6mm to 9mm - 1/16" x 1/16" Square Notched Trowel

RUBBERFLEX®

SPECIALTY FLOORING

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3. Unroll product into freshly applied adhesive. End seams will be single cut, edge seams overlapped, then snapped into place to insure tight seam.
 4. Roll the entire surface with steel roller to remove entrapped air. Wipe adhesive that oozes between seams with wood alcohol.
- B. Restrict foot traffic on the floor for at least 12 hours. Do not allow heavy traffic or rolling loads for 72 hours.
 - C. Perimeter Molding (Optional): Install a rubber base, anchored to walls with base cement.
 - D. Clean up all unused materials and debris and remove same from the premises.

PART 4 – WARRANTY

4.01 WARRANTY

- A. Warranty shall not cover damage caused in whole or in part by casualty, ordinary wear and tear abuse, use for which material is not designed, faulty construction of the building, settlement of the building walls, failure of the other contractors to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, mechanical failure, migration through the slab or wall, or any other source.
- B. Langhorn Flooring Concepts, Inc. (LFCI) hereby warrants the Rubberflex Impact Series to be free of manufacturing defects for a period of five (5) years. This warranty is in lieu of all other warranties, expressed or implied, including, but not limited to, any warranty or merchantability or fitness for a particular purpose, and of any other obligations on the part of LFCI. In the event of breach of any warranty, the liability of LFCI, shall be limited to replacing Rubberflex material as supplied by LFCI and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.
- C. LFCI requires that any noticeable defects detected during installation require that the install be terminated and the defective material be returned for replacement or credit. Our warranty covers replacement of material only, not installation.