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SportLastic®
Pre-Fabricated Vulcanized Rubber Athletic Surface Guide Specifications
Division 9 – Indoor Resilient Athletic Surfacing

PART 1 – GENERAL

1.1 *SECTION INCLUDES*

- A. Supply and installation of the SPORTLASTIC® pre-fabricated vulcanized rubber athletic surface.
- B. Application of the game lines.

1.2 *SUBMITTALS*

- A. Product Data:
 - 1. Submit one (1) set of SPORTLASTIC® “Pre-Fabricated Vulcanized Rubber Athletic Surface Guide Specifications”.
 - 2. Submit one (1) chain set of standard color options and one (1) game line standard paint color chart.
 - 3. Submit adhesive and line paint product data.
- B. Samples:
 - 1. Submit one (1) sample of specified system.
- C. Closeout Submittals:
 - 1. Submit one (1) copy of the SPORTLASTIC® maintenance instructions.
 - 2. Submit one (1) copy of the SPORTLASTIC® material and installation warranties as specified.
 - 3. Provide “attic stock” of each type and color (as specified by the architect).

1.3 *QUALITY ASSURANCE*

- A. Qualifications/Certifications
 - 1. The pre-fabricated vulcanized rubber athletic surface shall be manufactured in an ISO 9001 certified plant.
 - 2. The pre-fabricated vulcanized rubber athletic surface shall be manufactured in an ISO 14001 certified plant.
 - 3. The pre-fabricated vulcanized rubber athletic surface shall be an established firm experienced in the field and appointed as a distributor by the manufacturer of the indoor resilient multipurpose athletic surfacing.
 - 4. The complete installation of the flooring system shall be carried out by an experienced & certified flooring contractor approved by the supplier and the work shall be performed in accordance with the supplier’s installation instructions.

1.4 *DELIVERY, STORAGE AND HANDLING*

- A. Delivery:
 - 1. SPORTLASTIC® shall not be delivered until all related work is in place and finished and/or proper storage facilities and conditions can be provided and guaranteed stable according to Moose Sport’s Surfaces, Ltd. recommendations.
- B. Storage:
 - 1. Store the material in a secure, clean and dry location maintaining a minimum of 65° - 80° F. Ideal installation and storage conditions are the same as those which prevail when building is occupied. Store buckets and rolls upright.

1.5 *PROJECT / SITE CONDITIONS*

- A. It is the responsibility of the general contractor/construction manager to maintain clean, secure, weather tight project site conditions acceptable for the installation of the SPORTLASTIC®.
- B. Concrete sub floors on or below grade shall be adequately waterproofed beneath and at the perimeter walls and on earth side of below grade walls. It is the responsibility of the architect/engineer to determine the extent of this need.
- C. The general contractor shall furnish and install the concrete sub floors, depressing the slab sufficiently to accommodate the floor system. Slab depression shall be thickness of the SPORTLASTIC®.
- D. It is NOT recommended to use any concrete curing agents or hardening / parting compounds. If used, it may be necessary to sand, grind or shot-blast the concrete for the adhesive to bond to the concrete substrate. A bond test is also recommended.
- E. The slab shall be steel troweled and finished smooth to a tolerance of 1/8" in any 10' radius. This tolerance should be measured in accordance with ASTM E1155. Floor Flatness and Floor Levelness numbers are not recognized. The general contractor/construction manager should provide a certificate of compliance with the above recommendations. High spots shall be ground level, and low spots filled in with an approved leveling compound. Filling low spots is cosmetic only, not considered a structural repair.
- F. Cracks, grooves, voids, saw cuts, construction joints, saw joints, and expansion joints need to be addressed to provide a smooth surface per the architect's recommendations.
- G. Permanent light and electrical power shall be installed and operating prior to the installation.
- H. HVAC shall be installed and operating two weeks prior to installation, during and 72 hours after installation. The temperature must be between 65-80° F.
- I. Do not install athletic flooring over new concrete until concrete has been cured and is dry. A minimum of 90 days is required. Typically, a new concrete slab will not meet the vapor emissions requirements listed below unless the slab has been installed and the area is sealed off to outside air (all windows, doors, roof, etc. are installed) for approximately 6 months or more.
- J. Prior to vapor emission / moisture testing, the HVAC must be up and running for a minimum of 72 hours (one week preferable) to condition the building.
- K. Vapor emission / moisture testing MUST be performed prior to installation of the SPORTLASTIC® materials. For the Relative Humidity test, moisture content must be less than 85 % RH when tested per ASTM F2170. The installation area shall be closed to all traffic and activity for a period to be set by the flooring contractor.
- L. SPORTLASTIC® shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the SPORTLASTIC® floor areas. All sub-contract work which would cause damage, dirt, dust or interruption of normal installation will be completed prior to the installation of SPORTLASTIC®. Suspension of other trades' work may be authorized providing their work will not interfere with the installation or damage the newly installed flooring.
- M. Once the flooring has been installed, the installation area shall be closed to all traffic and activity for 72 hours to allow for curing/drying.
- N. Sub floors shall be clean, dry, and free from dirt, dust, oil, grease, paint, alkali, concrete curing agents, hardening and parting compounds, old adhesive residue or other foreign materials.
- O. Concrete subfloor surface pH level must be within the 7 to 8.5 range.

1.6 *WARRANTY*

- A. Moose Sports Surfaces, Ltd. (Moose) hereby warrants its SPORTLASTIC® materials to be made to manufacturer's specifications and to be free from defects for a period of three (3) years commencing on the date of substantial completion. This warranty shall be given in lieu of all other warranties or guarantees, expressed or implied, including, but not limited to any warranty of merchantability or fitness for a particular purpose, and/or any other obligation on the part of Moose. The liability of Moose shall be limited to repair or replacement of materials supplied by Moose and proven to be defective in manufacture. It shall not include any other damages either direct or consequential.
- B. Warranty excludes damage caused in whole or in part by normal wear and tear, abuse, faulty construction of the building including settlement, lack of a moisture barrier for on grade or below grade construction, the failure of associated trades to adhere to specifications, separation of the concrete slab, any movement of the sub-base, moving/expansion/contraction of construction joints, saw joints, expansion joints, and other saw cuts, excessive dryness or moisture from humidity, spillage, migrations through the slab or wall, or any other source. Additionally, the warranty shall not cover accidental damage.

1.7 LEED™ CREDIT CONTRIBUTIONS

- A. SPORTLASTIC® can contribute to seven (7) points towards LEED® certification.
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|---------------------------------|-------------------------------|--------------|
| 1. Materials & Resources | credit reference MR 2 | (1-2 points) |
| 2. Material & Resources | credit reference MR 4 | (1-2 points) |
| 3. Material & Resources | credit reference MR 5 | (1-2 points) |
| 4. Indoor Environmental Quality | credit reference EQ 4.1 & 4.2 | (1 point) |

PART 2 – PRODUCTS

2.1 SUPPLIER

- A. The basis of the design for the pre-fabricated vulcanized rubber athletic surface is Moose Sports Surfaces Ltd., SPORTLASTIC®. All other installation accessories and related components must be either made or approved by the pre-fabricated vulcanized rubber athletic surface supplier. Other products may be approved as equal if deemed qualified and submitted in accordance with the General Conditions.

2.2 MATERIALS

- A. All components for SPORTLASTIC® shall be supplied by Moose Sports Surfaces, Ltd.
- B. SPORTLASTIC® is a prefabricated vulcanized rubber athletic surface highly resistant to UV rays and atmospheric agents, with system of differentiated elasticity between top surface and base.
- C. SPORTLASTIC® is manufactured in two layers which are vulcanized together. The surface layer must be free of recycled rubber granules and any different color fillers. The shore hardness of the top layer will be greater than that of the bottom layer with the shore hardness of layers to be recommended by the manufacturer and the limits specified.
- D. Finish: Embossed/lightly textured.
- E. Color: As chosen from the standard color selections. (Custom colors available at an additional charge.)
- F. Thicknesses: 6mm, 8mm, 10mm, 12mm, 13mm, and 14mm.
- G. Rolls. Maximum roll width: 1.22 meters (4'). Minimum roll width: .914 meters (3'). Roll length: 9 meters – 15 meters (approximately 29'6" – 49'3').
- H. Provide adhesive certified by Moose Sports Surfaces Ltd.
- I. Game Line Primer – As approved by the SPORTLASTIC® pre-fabricated vulcanized rubber athletic surface supplier.
- J. Game Line Paint – Select from standard colors as approved by the SPORTLASTIC® pre-fabricated vulcanized rubber athletic surface supplier.
- K. Optional Base (specify or delete) – Vinyl wall base; 4" high; select from standard colors.
- L. Technical information;
- | | |
|---------------------------------------------------|----------------------------------|
| 1. Hardness Shore A: Top/Bottom
(ASTM D 2240) | 55/40 (+/- 5) |
| 2. Resilience by Vertical Rebound
(ASTM D2632) | 68 |
| 3. Tensile Strength
(ASTM D-412-98) | ≥ 1.25 Mpa |
| 4. Elongation (%)
(ASTM D412-98) | ≥ 200% |
| 5. Critical Radiant Flux
(ASTM E 648) | 0.59 W/cm ² (Class 1) |
| 6. Optical Smoke Density
(ASTM E 662) | < 450, Class I |
| 7. Resistance to Fungi
(ASTM G 21) | Non-growth |
| 8. Coefficient of Friction
(ASTM D 1894) | >0.6 wet |
| 9. Static Load Limit
(ASTM F970 - 06) | 0.010 in. |

10. Spike Resistance	Light traffic only
11. Color Stability	Good
12. Chemical Resistance	Good
13. UV Resistance	Good

PART 3 - EXECUTION

3.1 *EXAMINATION*

- A. It is the responsibility of the general contractor/construction manager to ensure the project/site conditions are acceptable for the installation of SPORTLASTIC® per Section 1.5 – PROJECT / SITE CONDITIONS of this specification.
- B. Flooring contractor to report any above discrepancies per Section 1.5 – PROJECT / SITE CONDITIONS to general contractor/construction manager prior to commencement of installation.

3.2 *PREPARATION*

- A. Thoroughly sweep the concrete slab so as to remove all dirt and dust. If a sweeping compound is used, it must be a sweeping compound that does not contain oil or other items that may inhibit the adhesive bond.
- B. If necessary or specified, sand the entire surface of the concrete slab.
- C. Lightly tack the floor to remove all dirt and dust.
- D. Adhere to all MSDS requirements for materials employed in the building. Protect all persons from exposure to hazardous materials from other products/areas.
- E. Concrete slab preparation must be completed per the requirements of athletic flooring material supplier.
- F. Verification must be made on the type of product, the size, depth, color, quality, and any defects in the material. If any of these problems are observed, Moose Sports Surfaces Ltd must be contacted prior to installation. If contacted after this time, no claims will be accepted.

3.3 *INSTALLATION*

- A. Install SPORTLASTIC® per the requirements of athletic flooring material supplier.
- B. Mix and apply adhesive per the requirements of athletic flooring material supplier.
- C. Lines to be painted as per the requirements of athletic flooring material supplier.

3.4 *CLEANING*

- A. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.
 - 1. Refer to SPORTLASTIC® Care & Maintenance Guide for complete cleaning information.

3.5 *PROTECTION*

- A. Cure Time -- no traffic or trades shall be allowed on the surface for a period of 72 hours following completion to allow for complete and proper cure of the flooring.
- B. Cleaning – allow 72 hours before initial cleaning of the surface.
- C. Other Trades -- it is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.
- D. After SPORTLASTIC® is installed and the game lines painted, area to be kept locked by general contractor to allow curing time for system. No other trades or personnel are allowed on floor until accepted by owner.
- E. When subjecting the SPORTLASTIC® floor to significant rolling loads or heavy equipment such as scissor lifts, scaffolding, four wheel carts, etc., we recommend the following;
 - 1. Provide a protective cover to prevent marring of the flooring. This may be accomplished with 6 mill poly, kraft paper, red rosin paper or standard protective gym covers.
 - 2. Provide a double layer of 5/8" (minimum) thick plywood or masonite where equipment will travel across the floor system. Plywood may be "walked" across floor as equipment is moved to minimize number of sheets required. The upper and lower layers of the plywood must be staggered to eliminate end joints from aligning thereby reducing point loads to the system.