

ATHLETIC TRACK SURFACING

[Notes like this one help the specifier identify and make selections. Remove all notes when editing is complete. You can remove them quickly by selecting all text in "Specifier Notes" style and deleting it.]

[Option: Metric equivalents can be removed globally by deleting the text in style "Metric".]

[Note: Please re-number articles and paragraphs after editing is complete. This document is not written using automatic paragraph numbering so that it is compatible with many formats.]

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes: Exterior athletic track surfacing, Decoflex™ D14:
 - 1. Type: Two prefabricated elastomeric layers
 - 2. Lane line paint

1.2 REFERENCES

- A. International Association of Athletics Federations, IAAF; Technical Requirements for Sports Surfaces.
- B. DIN Standards 18035 Part 6, "Synthetic Surfacing for Sports Facilities, Requirements and Testing," developed by The Otto-Graf Institute, Stuttgart, Germany.

1.3 SYSTEM DESCRIPTION

- A. Design Requirements: Exterior athletic track surface designed to reduce fatigue and injuries, and with the following characteristics:
 - 1. Non slip surface
 - 2. Designed for spiked running shoes
 - 3. Ultraviolet color fast top material
 - 4. Repairable surface.
- B. Performance Requirements: Athletic flooring system shall comply with IAAF Technical Requirements and DIN 18035-6, including the following:
 - 1. Force Reduction: 36%
 - 2. Modified Vertical Deformation: 1.4 mm
 - 3. Surface Friction: 0.70 / 62
 - 4. Tensile Strength: 0.53 N/mm²
 - 5. Elongation at Break: 52%
 - 6. Permeability: Impermeable

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Certified testing reports indicating compliance with performance requirements.
- B. Shop Drawing: track and lane line layout plan; indicate line widths and colors; indicate reference points, benchmarks and elevations.

- C. Samples for Initial Selection: For each type of product indicated.
- D. Samples for Verification: 600mm x 600 mm complete system using selected top coat color and example of game line.

[Note: Delete the following if project is not LEED certified or delete points that are not required]

- E. LEED Submittals:
 - 1. Credits MR 4.1 and MR 4.2: Product Data indicating percentages by weight of postconsumer and preconsumer recycled content and statement indicating costs for each product having recycled content.
- F. Installer's certification and experience.
- G. Maintenance Data: For maintenance manual.

1.5 QUALITY ASSURANCE

- A. Manufacture's Qualifications: Experience manufacturing and warranting rubber athletic flooring systems.

[Note: The following testing is optional and adds nominal cost to the project. Delete QMP if additional cost is not warranted. If QMP at site is required, retain 3.4 Field Quality Control]

- 1. Quality Monitoring Program (QMP): testing by an independent lab at source (manufacturer) or site. Test product(s) for compliance with Performance Requirements.
- B. Installer's Qualifications: Trained and certified by Manufacturer.
- C. Performance Testing: Written reports of tests conducted by a testing laboratory accredited by International Association of Athletics Federations (IAAF).
- D. Environmental: Products shall contain no halogen, formaldehyde, or PVC. Flooring products shall be fully recyclable without generating harmful byproducts at end of use.
[Note: Mockup is optional. Specify requirements. Mockups can be expensive and have an impact on the construction schedule. A small isolated area could be used for an in-place mockup and, if accepted, may be part of the finished project.]
- E. Mockup: Area for mockup is indicated in Drawings. Demonstrate proposed protection and installation methods.
 - 1. Mockup will be judged for aesthetic effects and workmanship. Approval of mockup does not relieve Contractor from complying with performance, product and execution requirements.
 - 2. Approved mockup may be incorporated in final work.
 - 3. Do not proceed with installation until mockup is approved.*[Note: Pre-installation conference is recommended. Coordinate specific requirements with mockups in Quality Assurance requirements in Division 1.]*
- F. Pre-Installation Conference: Include Manufacturer's representative. Comply with Division 1 requirements including discussion of the following:
 - 1. Coordination with other work
 - 2. Acceptance of substrates.

3. Acceptance of Mockup.
4. Protection of other work during installation
5. Protection of coated rubber athletic flooring during and after installation.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in manufacturer's original, unopened wrappings and containers.
- B. Protect products from weather, frost and excessive heat.

1.7 PROJECT CONDITIONS

[Note: Coordinate requirements in paragraphs A and B with project design. Delete requirement that does not apply.]

- A. Concrete Substrate: Engineered design and mix, cured for not less than 28 days.
- B. Asphalt Substrate: Engineered design and mix, cured for not less than 14 days.
- C. Substrate Surface: Designed and in compliance with applicable IAAF (or applicable athletic rules) technical requirements for running track, and the following:
 1. Slope: equal or less than 1.0% throughout
 2. Flatness: No variation greater than 4 mm under a 4 m straightedge.
 3. When flooded with water, no remaining water shall pond deeper than 1 mm
- D. Restrict access to work area 24 hours before installation, during installation and 60 hours after installation is complete.
 1. Work in area by other trades during restricted access period is not allowed.

1.8 WARRANTY

- A. Manufacturer's standard five-year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Approved Manufacturer:
Rehouse Europe BV
Ohmweg 59
2952 BB Alblasserdam, The Netherlands
Tel : +31 78 699 55 00
Fax: +31 78 691 42 00
- B. Approved Product: Rehouse Decoflex™ D14 Outdoor Track Surfacing System.

2.2 SYSTEM COMPONENTS

- A. Base Mat: Prefabricated rubber mat of recycled black rubber particles and polyurethane binder.
 1. Density: 650 kg/m³
 2. Recycled Content: At least 80%
 3. Form: Rolls, 1.22 meter wide by full length for job, but normally less than 28 meters.
 4. Thickness: 10 mm

- B. Top Layer: Prefabricated EPDM mat of integrally colored EPDM particles and polyurethane binder.
 - 1. Density: 1,000 kg/m³
 - 2. Form: 1.22 meter wide by full length for job, but normally less than 28 meters.
 - 3. Color: Selected from full range of at least 12 colors
 - 4. Thickness: 4 mm
- C. Line Paint: Rephouse two-component pigmented polyurethane line paint.
[Note: Select one of two color options below.]
 - 1. Colors: Selected from full range [Custom colors, match Architect's samples]

2.3 INSTALLATION MATERIALS

- A. Adhesive: Rephouse PU88 two-part polyurethane adhesive.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Substrate Surface: Smooth with no compaction or trowel ridges and shall not vary from smooth by more than 4 mm] measured under a 4 m straight edge, measured in any direction.
- B. No Ponding Water: Flood surface with water. Verify that water does not pond deeper than 1 mm.
 - 1. Dry substrate before proceeding with installation.
- C. Remove all foreign matter including dust, dirt, oil or any kind of spills.
 - 1. Remove concrete curing agent, other coatings and lattice by sand blasting or shot blasting.
 - 2. Remove contaminates that will interfere with adhesive bond.
- D. Do not proceed with installation until unacceptable conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate.
- B. Unroll and layout prefabricated rubber mat to “relax” prior to installation.

3.3 INSTALLATION

- A. General: comply with Manufacturer's written installation instructions, approved during Submittals.
- B. Application of Adhesive: Mix adhesive per instructions and apply with recommended notched trowel to entire substrate at recommended rate:
 - 1. Smooth Concrete: 0.65 kg/sqm
 - 2. Smooth Asphalt: 1.10 kg/sqm
- C. Installation of Base Mat: When the adhesive is tacky, place the mat onto the surface making sure that each sheet is placed in a straight line or curved in the bends following the track lanes. Stagger butt joints.
 - 1. Roll out mat using a trolley so that all entrapped air is removed.

2. Assure seams and butt joints are to be level and not pinched.
 3. Roll entire surface with a 45 kg hand-held flooring roller.
 4. Place weights as necessary to hold the mat in place.
 5. Remove any excess adhesive that protrudes above the seams and joints.
- D. Installation of Top Layer: Establish reference points, master layout lines, and roll lines per manufacturer's instructions. Layout rolls and adhere to base mat with specified adhesive in compliance with manufacturer's instructions.
1. Application of Adhesive: Mix adhesive per instructions and apply with recommended notched trowel to asphalt for entire black rubber base mat at recommended rate of 0.65 kg/sqm
 2. Assure seams and butt joints are to be level and not pinched.
 3. Roll entire surface with a 45 kg hand-held flooring roller.
 4. Place weights as necessary to hold the mat in place.
 5. Remove any excess adhesive that protrudes above the seams and joints.
- E. Application of Line Paint: Allow sufficient time for top coat to dry before layout game lines. Layout game line per approved Shop Drawings. Mask edges. Mix and apply line paint per IAAF guidelines and requirements.
1. Layout Tolerances: comply with applicable athletic association rules.
 2. Allow line paint to dry and cure prior to installing protective cover. Close area to traffic.

[Note: Delete the following article if field quality control is not required. Change the word "Provide" to "Owner will pay for" or another phrase appropriate to assign source of funds for field testing.]

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Provide the tests by a qualified testing and inspection agency. Testing personnel shall be familiar with running tracks and testing requirements.
- B. Testing Service: Test installed and fully cured running track for specified performance characteristic, employing tests and methods of DIN 18035-6 including:
 1. Force Reduction
 2. Modified Vertical Deformation
 3. Surface Friction.
- C. Reports: Submit written reports to A/E, Owner and General Contractor.

3.5 PROTECTION

- A. Do not move heavy and sharp objects directly over completed sports surfaces. Place hardboard or plywood panels over sports surface and under objects while they are being moved.

END OF SECTION