

DESCRIPTION

This work shall consist of furnishing and installing playground safety surfacing tiles in accordance with the contract documents and as directed by the Engineer.

MATERIALS

Playground safety surfacing tiles shall be:

SofTILE KrosLOCK
Manufactured by
SofSURFACES, Inc.,
4393 Discovery Line
PO Box 239, Petrolia,
Ontario N0N 1R0, Canada

Or equal as approved by the Regional Landscape Architect.

Materials shall meet or exceed CPSC guidelines for impact attenuation. Materials shall be compression-molded, recycled rubber and binding agents. Tiles shall const of tile locking U-shaped male and female configuration on all 4 sides to lock tiles to adjacent tiles. Top Edges shall be chamfered and tile bottom shall have a hollow core stanchion pattern. Stanchions shall have density equivalent to wear layer. Wear Layer shall be elongated SBR rubber buffing. Pigmentation used to achieve color shall be a minimum 0.952 mm thick. Virgin EPDM rubber granules shall be a Minimum 6.35 mm thick. Tile size shall be 50.8 mm by 50.8 mm thickness of 101.6 mm or as indicated in the drawings, based on the critical fall height. Colors shall be as indicated on the drawings.

Standers. Playground safety surfacing tiles shall meet the latest suggested guidelines published in the "Handbook for Public Playground Safety" by The U.S. Consumer Product Safety Commission (C.P.S.C) and The American Society for Testing and Materials (ASTM) as outlined blow.

Adhesive, shall be single-component, 100 percent solids, polyurethane, waterproof and in a tube format. Adhesive shall be approved by manufacturer.

Submittals. The Contractor shall submit two samples of all materials to be used in the project, except adhesives already approved by this specification, to the Regional Landscape Architect for approval prior to purchasing the materials. In addition, the contractor shall submit two samples of manufacturer's installation instructions for all materials to be used in the project, including adhesives, to the Regional Landscape Architect for approval prior to purchasing the materials.

Samples of playground surfacing tiles shall be no larger than 50.8 mm s by 50.8 mm and shall represent the colors, composition and thicknesses that will be used at each specific location in the project. Samples shall be accompanied by manufacturer's installation instructions and supporting certified test data showing that the material meets or exceeds the test requirements of this specification.

The installer must be trained and certified by the manufacturer as indicated by letter of certification from the manufacturer, on the manufacturer's letterhead, submitted to the Engineer.

Shop Drawings. The Contractor shall submit two (2) copies of the following shop drawings to the Regional Landscape Architect a minimum of four (4) weeks prior to proposed installation. The plan drawn at a scale of 1:50 (unless specified otherwise by the Regional Landscape Architect) and shall clearly show the following details: actual size of modular tiles; size of transition pieces, size of cut pieces, if any; type of adhesive to be used; and exact location of all play equipment, posts, springs or other support systems.

CONSTRUCTION DETAILS

The contractor is to examine areas to receive playground safety surfacing tiles. Notify Engineer if areas are not acceptable, and shall not begin installation until unacceptable conditions have been corrected. The concrete subsurface shall be sound with no loose material or cracks over 3.175 mm wide. The contractor shall ensure concrete is a minimum of 28 days old and test concrete for moisture in accordance with manufacturer's instructions to ensure it has sufficiently cured and is dry.

Instillation. The Contractor shall install all types of playground safety surfacing tiles, adhesives, and hardware in accordance with the approved manufacturer's instructions and U.S. Consumer Product Safety Commission (P.S.C.) Guidelines at locations indicated on the Drawings. The safety surfacing installation shall not create new hazards; hence, all installations shall be done as carefully as possible in a neat and skillful manner.

The contractor shall ensure prepared subsurface and tiles are dry and clean. The contractor shall layout tile surface in accordance with manufacturer's instructions. Install tiles in a single installation session. Layout in advance tiles to be installed in single installation session. The contractor shall apply adhesive in accordance with manufacturer's instructions for tile-to-tile and perimeter tile-to-base installation.

Molded rubber mat installation shall be by mechanical means of each individual tile. Adhesives to hold small, cut pieces of mat to pavement surface are unacceptable. . Shop drawings shall clearly show that every piece is connected by mechanical means. The installation shall be vandal resistant and be firmly secured so that it cannot be pulled up from the playground surface.

The contractor shall remove adhesive spills from playground safety surfacing tiles in accordance with manufacturer's instructions and clean tiles in accordance with manufacturer's instructions. Protect playground safety surfacing tiles from foot traffic for a minimum of 12 hours after installation and protect completed tiles from damage during construction. Test the surface grade using a water flood coat and repair areas of standing water in excess thickness of 6 mm.

Special Conditions. Where the surfacing of playground safety surfacing tiles cover a drain opening, the surfacing shall be drilled in a pattern matching the basin openings to allow for drainage. Where surfacing covers a basin or manhole, the Contractor shall drill 55 mm diameter weep holes every 900 mm at the low point to provide a vent for the basin or manhole. Surfacing shall be funned around tree pits and shall not cover granite block unless these elements are within the fall zone.

METHOD OF MEASUREMENT

This work will be measured as the number of square meters of playground surfacing tiles satisfactorily furnished and installed. No deduction will be made for safety surfacing cut and removed for installation of posts.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work in accordance with the contract documents and the directions of the Engineer.

DISAPPROVED BY EI 12-001