

Specifications for LANDSAFE poured-in-place rubber surfacing

1.0 General

- 1.1 Section Includes: Resilient safety surfacing poured-in-place system
- 1.2 Related Work: Sub-base and Playground Equipment
- 1.3 Description: Provide all material, equipment, and labour for the installation of the poured-in-place rubber surfacing
- 1.4 Quality Assurance: The manufacturer shall have installed poured-in-place rubber safety surfacing for a minimum of five (5) years in the province of British Columbia. Manufacturer shall provide three (3) installation references. Manufacturer shall have independent fall height data according to ASTM 1292 and all installations shall be done by manufacturer certified technicians.
- 1.5 Installers: Rubber safety surfacing installer shall be a Canadian Certified Playground Inspector (CCPI) and be present on site at time of installation. Installer must have references for installing ground stabilization products.
- 1.6 Bonding: Installer shall have capability in providing Performance Bond and Labour Material Bond

2.0 Submittals

- 2.1 Manufacturer product literature, installation specifications, fall height testing, and MSDS specifications.

3.0 Products

- 3.1 Product: **LANDSAFE**
- 3.2 Manufacturer: Marathon Surfaces Inc.: Surrey, BC Canada, 604-878-0625
- 3.3 Description: Poured-in-place safety surface which consists of a base mat and a wearing course. The base mat is composed of 100% SBR recycled rubber. The wearing course is composed of 1mm to 3mm EPDM rubber granulars. Both the base mat and the wearing course are bound together by a 100% MDI moisture cured polyurethane binder.
- 3.4 Materials: **LANDSAFE** is manufactured from SBR rubber and EPDM rubber which are mixed with 100% MDI moisture cured polyurethane binder.

4.0 Installation

4.1 Base Mat: Rubber is mixed in a mechanical mixer with the binder. The mixing ratio of binder to rubber is 15% by weight. The mixed product is trowled to depth on a prepared sub-base. Thickness of rubber will depend on the fall height requirements.

4.2 Wearing Course: Rubber is mixed in a mechanical mixer with the binder. The mixing ratio of binder to rubber is 21% by weight. The mixed product is trowled on top of the base mat, which has been primed with a 2-1 binder-xylene mixer, to a depth of 13mm.

4.3 Quality Control: The surface level shall not vary more than 5mm over 3m and the rubber blend shall be even and consistent.

5.0 Testing

5.1 Poured-in-place rubber safety surfacing material in the protective surfacing zone shall have a **g**-max not exceeding 200 and a HIC not exceeding 1000 when tested for the defined fall height.

5.2 The test methods specified in ASTM F1292 or CEN EN 1177 shall be used for testing protective surfacing and shall conform to the latest version as endorsed by CSA Z614:20

5.3 A minimum of one (1) test for each fall zone location is required to confirm that the rubber surface meets the requirements for safety as defined.

5.4 Testing to ensure compliance with this specification shall be completed within seven (7) days of installation and the report (including photos of the test locations) shall be provided to the Owner's representative within 48 hours of testing.

5.5 Testing shall be performed in the presence of the Owner's representative and test readings shall be submitted within 48 hours of testing. The Owner's representative shall be notified immediately in the event of failure.

5.6 Failure of the testing may require replacement of the safety surface to meet the above specifications and safety requirements at no cost to the Owner.

5.7 Any installation not tested as set out above may be subject to complete removal and reinstallation at no cost to the Owner.

6.0 Warranty

6.1 The Manufacturer will provide a three (3) year warranty against, delaminating, premature wear, and colorfastness.