

PLAY SURFACING

1 General

1.1 RELATED WORK

.1 Coordinate the requirements of this section with all other sections, including but not limited to:

- .1 Section 02210 Rough Grading
- .2 Section 02712 Landscape Drainage
- .3 Section 02871 Play Equipment

1.2 QUALITY CONTROL

.1 **City of Saskatoon, Parks Branch** to approve play surfacing material used for construction of play areas.

.2 Submit one (1) litre sample of specified play surfacing material before start of Work.

.3 Specific to Engineered Wood applications:

- .1 Manufacturer's Instructions: Strictly adhere to the manufacturer's instructions where applicable.
- .2 Contractor must have experience in the installation of engineered wood safety surfacing if applying engineered wood surfacing.
- .3 Engineered Wood safety surface products to meet ASTM F1292-01.
- .4 Provide manufacturer's materials warranty for all safety surfacing systems materials.
- .5 Provide documentation showing products meet requirements for Universal Accessibility per ADA guidelines.

1.3 INSPECTION

.1 Notify **Consultant** for inspection of:

- .1 Play area sub grade prior to installation of play surfacing material.
- .2 Filter cloth and pinning prior to installation of play surfacing material.

1.4 TESTING

.1 For granular products, submit product information from supplier or sieve analyses.

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1.5 SUBMITTALS

- .1 For engineered wood applications.
 - .1 Submit material samples that are to be used.
 - .1 Submit a two (2) litre sample of wood chips.
 - .2 Submit test results for impact attenuation in accordance with ASTM F1292-01.
 - .2 For wear mats.
 - .1 Submit a 300 x 30 sample of wear mats.

2 Products

2.1 GRANULAR PLAY SURFACING

- .1 Sand: Clean, washed torpedo sand, free from injurious quantities of soft or flaky particles, shale, loam and organic matter or other deleterious material. Tested according to ASTM Designation C135, Method for Sieve Analysis, sand to meet the following gradation requirement:

SIEVE	% PASSING BY WEIGHT
10 mm	100%
5 mm	85 - 100%
2.5 mm	80 - 90%
1.25 mm	60 - 70%
0.63 mm	40 - 50%
0.315 mm	15 - 25%
0.16 mm	5 - 10%
0.08 mm	0 - 5%

- .2 Acceptable Equivalents: Other play surfacing material including pea gravel or safety stone may be approved for use.

2.2 WOOD FIBER PLAY SURFACING

- .1 Shock attenuation not to exceed 200g and 1000 HIC for an eight foot (8') height per ASTM F1292.

2.3 WEAR MATS

- .1 All wear mats per manufacturer's specifications and recommendations.
- .2 Wear mats to be manufactured from recycled rubber materials (Shercom Industries or equivalent).

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- .3 Provide (1) 915 x 1200 x 50 (3' x 4' x 2") mat at each slide exit and (1) 1200 x 1800 x 50 (4' x 6' x 2") mat at each swing seat.
- .4 Anchor hardware: (4) Model 40 Duckbill anchors per mat with cable clamps and fasteners format.

2.4 DRAINAGE

- .1 Granular drainage to be 20 diam. washed granular.
- .2 Filter cloth to be non woven geotextile, 30 mil thick, roll width min. 4.5m (15 ft.). Geotex 311 by Propex or equivalent.
- .3 Play surfacing system must be free draining to allow for positive flow of the sub-surface drainage system.

3 Execution

3.1 LAYOUT

- .1 Establish and maintain line and grade controls using appropriate survey personnel and equipment.
 - .1 Contractor is responsible for layout accuracy.
 - .2 Provide ample clearance on all sides for proper execution of the work.
- .2 Establish the layout of the play area accurately to dimensions noted and to depth per drawings.

3.2 SUB GRADE PREPARATION

- .1 See Section 02210 - Rough Grading.
- .2 Slope sub-grade at 1% to low side of site or drain.
- .3 Approval of sub-grade is required before installation of play surfacing material.
 - .1 Remove all loose material and compact with equipment suitable for the Work.

3.3 DRAINAGE

- .1 See Section 02712 – Landscape Drainage.

3.4 FILTER FABRIC INSTALLATION

- .1 See Section 02712 – Landscape Drainage.

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3.5 PLAY EQUIPMENT

- .1 See Section 02871 - Play Equipment.

3.6 PLAY SURFACING

- .1 Ensure required support posts and play equipment is correctly installed and inspected prior to placement of play surface material.
- .2 Install surfacing to specified compacted depth, allowing for 25% settling and compaction.
- .3 Contamination of play surfacing with foreign materials is prohibited.
- .4 Evenly distribute play surfacing throughout the site.

3.7 WEAR MATS

- .1 Coordinate mat installation with installation of play surfacing.
- .2 Set mat depth to approximately 300 below finished grade.
- .3 Anchor with 4 Duckbill anchors per mat.

3.8 CLEAN UP

- .1 Clean adjacent walks, roads, and other surfaces at the end of each working day.
- .2 Remove all materials not required off site.

END OF SECTION