



LTR PRODUCTS, LLC.  
**PINNACLE RUBBER MULCH**  
Planting Preparation – Section 32 91 00  
Playground Protective Surfacing – Section 32 18 16.13

**PART I GENERAL**

**1.1 WORK INCLUDED**

The contractor shall provide all labor, materials and appurtenances necessary for installation of rubber mulch.

**1.2 RELATED WORK**

Site preparation.

**1.3 QUALITY ASSURANCE**

The contractor shall provide laborers and supervisors who are thoroughly familiar with the installation of mulch products.

**1.4 REFERENCES**

- A. ASTM 1292-04 – Head Impact Protection
- B. ASTM 1951-99 – Wheel Chair Accessibility

**1.5 SUBMITTAL**

The manufacturer's literature shall be submitted prior to installation.

**1.6 DELIVERY, STORAGE, AND HANDLING**

Rubber mulch shall be delivered to the site in palletized super sacks or poly bags capable of transfer by fork lift.

**PART 2 MATERIALS**

**2.1 PINNACLE RUBBER MULCH**

- A. DESCRIPTION - Pinnacle Rubber Mulch is a loose fill, recycled rubber playground safety surface and landscaping material.
- B. MATERIAL - The core substrate used in Pinnacle Rubber Mulch is shredded auto and truck tires.
- C. SIZE RANGE – the particle size range for Pinnacle Rubber Mulch is 5/16" to 7/8". Rubber nuggets are irregular in shape and size.
- D. METAL CONTENT – Pinnacle Rubber Mulch contains less than 99.99% metal. This is based on the number of pieces of rubber with exposed metal and includes both ferrous and non-ferrous metals.
- E. COATING - Non-toxic, polyurethane coating bonded to the rubber.

**2.2 GEOTEXTILE FABRIC**

**PART 3 EXECUTION**

**3.1 PRE-INSTALLATION**

**A. Ground Preparation**

- 1. Playground – The area where Pinnacle Rubber Mulch will be installed must be graded for proper drainage with a substrate that is compacted to provide a firm, even base.
- 2. Landscaping – The area where Pinnacle Rubber Mulch will be installed must be cleared of loose debris and leveled.

**B. Application of geotextile fabric**

- 1. Installation of a contractor grade geotextile landscape fabric is recommended.
- 2. Seam overlap needs to be a minimum of three inches and all seams need to be properly secured to prevent dirt or other substrate material from mixing with the safety surfacing.
- 3. Landscape fabric needs to be properly secured at the perimeter and around all installed equipment posts and polls.

**C. Installation of Pinnacle Rubber Mulch**

**1. Playground**

- a. Install Pinnacle Rubber Mulch at a uniform level throughout the playground. This can be accomplished through a variety of methods, including blowing, shoveling and raking.
- b. The amount of Pinnacle Rubber Mulch used per square foot is dependent upon the required fall height rating.
  - i. To achieve a 12' critical fall height rating per ASTM 1292-04, 5" of Pinnacle Rubber Mulch should be compacted to a 4" depth.
  - ii. To achieve a 16' critical fall height rating per ASTM 1292-04, 7" of Pinnacle Rubber Mulch should be compacted to a 6" depth.

**2. Landscaping**

- a. Install Pinnacle Rubber Mulch at a uniform level throughout the area.
- b. Recommended depth of Pinnacle Rubber Mulch for landscaping applications is 1.5" to 2".

**D. Maintenance of Pinnacle Rubber Mulch.**

- Playground – in order to provide a consistent head impact protection and accessibility of the playground, maintenance is required.
- a. Upon discovery of a thin, un-compacted or non-level condition, the surface of the playground area must be raked and compacted to ensure consistent and proper installed depths.
  - b. Periodic replenishment may be required if Pinnacle Rubber Mulch has migrated outside of the play area, cannot be reclaimed and a level compact depth for required fall height protection cannot be achieved.

**E. Warranty**

Rubber mulch product coating should warranty that product will retain at least 50% of its color based on opacity at 12 years.