

Appendix  
5101:2-12-11

Depth of Protective, Resilient Surface Needed for Playground Equipment Adapted  
from the Consumer Product Safety Commission

↓ Material	Equipment Height		
	1'1" to 4'	4'1" to 9'	9'1" to 11'
Woods Chips	6"	9"	12"
Double Shredded Bark Mulch	6"	9"	12"
Engineered Wood Fibers	6"	12" (9" for equipment up to 7 ft.)	12"
Fine Sand	6"	12"	Not suitable
Coarse Sand	6"	12" (for equipment up to 6 ft. )	Not suitable
Fine Gravel	6"	12"	12" (for equipment up to 10 ft.) <b>(not suitable for equipment higher than 10 ft.)</b>
Medium Gravel	6"	12" (for equipment up to 6 ft. )	Not suitable
Shredded Tires	6"	6"	6"

**Description of Loose-Fill Surfacing Materials in Table**

1. **Wood Chips**- Random sized wood chips, twigs, and leaves collected from a wood chipper being fed tree limbs, branches, and brush.
2. **Double Shredded Bark Mulch** - Similar to shredded mulch commonly used by homeowners to mulch shrubs and flower beds.
3. **Engineered Wood Fibers** - Relatively uniform sized shredded wood fibers from recognized hardwoods.
4. **Fine Sand** - White sand purchased in bags marked "play sand."
5. **Coarse Sand** - Sand typically used for landscaping and construction.
6. **Fine Gravel** - Usually obtained from a supplier to the residential landscaping market. Gravel particles are rounded and generally less than 3/8 inch in diameter.
7. **Medium Gravel** - Rounded as found in river washed or tumbled stone.
8. **Shredded Tires** - The size of the particles and the method by which they are produced may vary from one manufacturer to another. If such materials are used the supplier should provide test data showing the critical height of the material when tested. In addition, a guarantee should be obtained from the supplier that the material is free from steel wires or other contaminants.

**Additional information can be obtained at [www.cpsc.gov](http://www.cpsc.gov)**