

Groundcover Comparison for Play Areas

Loose fill	Organic	Inorganic Loose Fill Materials
Material	Wood chips, shredded bark nuggets, engineered wood fiber	Sand, pea gravel, shredded/recycled rubber
Advantages	<ul style="list-style-type: none"> • Low initial cost • Ease of installation • Less abrasive than sand 	<ul style="list-style-type: none"> • Ease of installation • Does not promote microbial growth • Does not decompose • Generally non-flammable
Issues to consider	<ul style="list-style-type: none"> • Materials decompose/compress over time & lose cushioning effect • Susceptible to microbial growth • Displaced by strong winds or playing action of children • Can be thrown by children • May be allergenic • Often spread outside the containment area • Frequent maintenance needed to ensure proper depth of materials 	<ul style="list-style-type: none"> • May be displaced by playing children • Can be thrown by children • Spreads outside the containment area • Pea gravel can present a choking hazard for small children • May compact &/or lose cushioning ability when wet or frozen • Sand and dark colored rubber may get hot/cause burns in hot climates • Initial cost of shredded/recycled rubber can be high

Unitary materials (rubber mats/tiles or poured in place)

Advantages	<ul style="list-style-type: none"> • Does not displace or decompose • Does not promote microbial growth • Low maintenance
Issues to consider	<ul style="list-style-type: none"> • Initial cost is high • Manufacturer's directions must be followed closely, may require professional installation • Dark colors may get hot/cause burns in hot climates

Minimum Depth for Loose Fills

Type	Depth	Protects to fall height
Shredded/recycled rubber	6 inches	10 feet
Wood chips	9 inches	10 feet
Wood mulch	9 inches	7 feet
Pea gravel	9 inches	5 feet
Sand	9 inches	4 feet

Ground Cover Recommendations for Play Areas

Recommended

Sand
Shredded/recycled rubber
Engineered wood fiber, wood chips
Unitary materials

Cautionary

Pea Gravel

- Choking hazard for small children
- Avoid gravel with sharp edges

Not Recommended

Concrete/patio brick

- Does not absorb shock

Grass or sod

Bark mulch

- Microbial growth
- Decomposes readily