

PLAYGROUND SURFACING

APRIL 3, 2018 CITY COUNCIL PRESENTED BY: JOANNE PLUMMER, PARKS & RECREATION MANAGER DEPARTMENT OF NEIGHBORHOOD SERVICES & PUBLIC SAFETY



HISTORY OF PLAYGROUND SAFETY

- 1981 First Consumer Product Safety Commission Handbook for Public Playground Safety
- 1991 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment
- 1993 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use (revisions every 3 to 4 years)
- 2008 Most recent updates to handbook



GOLETA IMPORTANCE OF PLAYGROUND SURFACING MATERIALS

- Safety: A fall onto a shock absorbing surfaces is less likely to cause a serious head injury than a fall onto a hard surface
- Accessibility: Access from path to equipment for participants with disabilities
- Maintenance: How often and how much?



RESOURCES FOR PUBLIC AGENCIES

- U.S. Consumer Product Safety Commission's Public Playground Safety Handbook
- Professional Peers/Vendors
- Studies conducted by multi-agency (EPA, ASTDR, CDC and Department of Health & Human Services and CPSC), and/or California Office of Environmental Health Hazard Assessment. Draft report will be sent for peer review Spring of 2018, release of final report expected later 2018
- Federal Research Action Plan on Recycled Tire Crumb Used on Playing Fields and Playgrounds

FALL HEIGHT REQUIREMENTS GOLETA FOR LOOSE FILL PRODUCTS

Handbook for Public Playground Safety

Inches	Of (Loose-Fill Material)	Protects to Fall Height (feet)
6*	Shredded/recycled rubber	10
9	Sand	4
9	Pea Gravel	5
9	Wood mulch (non-CCA)	7
9	Wood chips	10



UNITARY SURFACING

- Rubber surfacing that is a combination of energyabsorbing materials held in place by a binding agent and cured to create a unitary shock absorbing surface.
- Common forms: Poured in place and cured, or tiles that are premanufactured and assembled/locked in place.





GOLETA ENGINEERED WOOD FIBER SURFACING

- A natural safety surfacing product created from the inside of trees, not the bark.
- Certified for impact attenuation, ADA accessible for wheelchairs and strollers, slip resistant and it is free of chemicals, hazards, etc.







PROS & CONS UNITARY SURFACE

Can have creative designs, fun colors

- Debris is easily visible, cleaned easily by blowing off or hosing down
- Maintains attenuation rates for at least five years





- Can be three to four times more expensive to install than EWF
- Health related studies have not identified conclusive results

Can be costly to repair and/or replace

CITY OF OLETA PROS & CONS GOLETA ENGINEERED WOOD FIBER

- Costs for installation are typically three to four times lower than a rubberized surface
- The product is clean and natural
- The product meets all accessibility and safety criteria



- Requires ongoing maintenance to ensure compliance with safety criteria
- Requires annual replenishment of materials
- Debris can be difficult to see during visual inspections



WHAT ARE OUR NEIGHBORS DOING?

CITY OF SANTA BARBARA

7 sites – All Unitary (PIP)

- 16 sites Some PIP w/other product
 - 13 sites Some engineered wood fiber
 - 6 sites Some sand

CITY OF LOMPOC

2 sites - All Unitary 6 sites – Engineered wood fiber

3 sites - Sand

CITY OF BUELLTON

3 sites – Wood Chips currently, looking to change to engineered wood fiber

<u>CITY OF SANTA MARIA</u>

5 Sites – All Unitary

1 Site – Some PIP w/other product

16 sites – Engineered wood fiber

4 Sites – Artificial Turf



- 1. Move forward with a unitary surface for the current playground renovations and continue to monitor ongoing studies
- 2. Move forward with an Engineered Wood Fiber for the current playground renovations, understanding the financial and risk management obligations
- 3. Movie forward with a unitary surface below the high traffic areas (slides, swings) and utilize engineered wood fiber for the majority of the play area



OPTION #3 BOTH UNITARY & EWF



Places rubber surfaces in high traffic areas, utilizing chips for the remainder of the play surface area