



## PURPOSE

The purpose of this test report is to present the test results obtained during the performance of a test program. This report includes a brief description of the samples presented for test, a list of the documents presented as test instructions, and a summary of the testing performed and the results obtained. Applicable requirements and conclusions are based on the criteria provided by our client, or as specified in the reference document(s).

## WORK REQUESTED / REFERENCE DOCUMENT(s)

Perform testing in accordance with ASTM F1951-14, Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.

## TEST SEQUENCE

1. Wheelchair work measurement method – straight propulsion with no material on a flat surface with a grade of 7.1%.
2. Wheelchair work measurement method – straight propulsion with material and no grade.
3. Wheelchair work measurement method – turning 90° with no material on a flat surface with a grade of 7.1%.
4. Wheelchair work measurement method – turning 90° with material and no grade.

Testing was performed December 10, 2015.

## SAMPLE DESCRIPTION

Ever-Green Landscape Nursery and Supply, Inc., submitted approximately 50 cubic feet of loose fill wood material identified as Playmate Play Area Wood Chips.



## TESTING PERFORMED

### ACCESSIBILITY OF SURFACE SYSTEMS

#### Procedure

Sample material, Playmate Play Area Wood Chips, was installed in TÜV SÜD America, Inc.'s test fixture in four inch increments, and tamped using a 10 inch X 10 inch hand tamper, until a depth of 12 inches was achieved. The sample material was tested, propelling the wheelchair with four even propulsion strokes, per trial, across the material 5.56 feet, within eight seconds. This process was repeated five times for each test, (straight and 90° turn propulsions).

Per ASTM F1951-14, section 5.1, no additional compaction or modification occurred between propulsion trials. Installation instructions were not provided by the manufacturer.

#### Results

The average work force over one foot, in pound force-inch values, for straight propulsion and for turning with material surface in place, shall be less than the average work per foot values for straight propulsion and for turning, respectively, on a hard, smooth, surface with a grade of 7.1%  $\pm$  2% (1:14).

Discard the high and low work per foot values and average the remaining three trials to determine the average work per foot required to negotiate the test surface and the hard, smooth surface with a grade of 7.1%  $\pm$  2% (1:14).

#### Conclusion

The average work force over one foot, in pound force-inch values, measured lower when propelling the wheelchair over the Playmate Play Area Wood Chips sample material than when propelling the wheelchair over a flat surface with a grade of 7.1%. The material met the requirements of ASTM F1951-14.

#### DISCLAIMER

Per the head impact attenuation and wheelchair accessibility test reports for Playmate® Play Area Wood Chips®, "Meeting the requirements set forth by the specification does not imply that an injury cannot be incurred." Furthermore, "ASTM, as well as the producer, distributor, and independent testing lab stress that the ATSM F1292-13 / F1292-14 standards do not purport to address the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use."

#### Note

A complete copy of each updated test from December 2015 including all testing data is available upon request.