## TESTING PERFORMED

ACCESSIBILITY OF SURFACE SYSTEMS

### Procedure

Sample material, Playmate Play Area Wood Chips, was installed in four-inch layers, and tamped using a 10 inch X 10 inch hand tamper until a depth of twelve inches was achieved. The sample material was tested, propelling the wheelchair with four even propulsion strokes, per trial, across the material 6.56 feet, within eight seconds. This process was repeated five times for each test, (straight and 90° turn).

Per ASTM F1951-14, section 5.1, no additional modification occurred between propulsion trials. Installation instructions were 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% ± 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% ± 2% (1:14).

### Conclusion

The average work force over one foot, in pound force-inch values, measured **less** when propelling the wheelchair over the Playmate Play Area Wood Chips than when propelling the wheelchair over a flat surface with a grade of 7.1%.

The material **met** the requirements of ASTM F1951-14.

### Sample Disposition

The sample material will be retained by TÜV SÜD America, Inc., for fifteen (15) days, then disposed of at the discretion of TÜV SÜD America, Inc., unless otherwise requested by Ever-Green Landscape Nursery and Supply, Inc.

TÜV SÜD America Inc.
Product Safety Services
1755 Atlantic Blvd.
Auburn Hills, MI 48326
Phone: (616) 546-4600

# SURFACING MATERIAL REPORT – ASTM F1292-18E1

Client: Ever-Green Landscape Nursery and Supply, Inc.
Manufacturer: Ever-Green Landscape Nursery and Supply, Inc.
Manufacturing Location: Cedar Rapids, IA

Phone: Cedar Rapids, IA
Commercial Name of product: Playmate Play Area Wood Chips
Date of Manufacture: Unknown
No. of samples submitted: Approx.12.Cubic. Ft.

Project No.: 72167714-2
Report Date: 3/26/2021
Test Date: 3/25/2021 and 3/26/2021
Initial Test: ☑
Follow up Test: ☐ Ref Job:
Sample Receipt Date: 3/12/2021
Ambient Air Temperature: 22.8°C
Humidity: 24.0%

## Test Equipment:

| | | | |
|---|---|---|---|
| Alpha Automation, Triax, TUV System 5: | ☑ | Environmental Chamber ID: | AE029 |
| Alpha Automation, Triax, TUV System 7: | ☐ | Calibration Due Date: | 9/8/2021 |
| Accelerometer ID: | PLYP00144 | Environmental Chamber ID: | PLYP00096 |
| Accelerometer Calibration Date: | 6/9/2020 | Calibration Due Date: | 9/8/2021 |

## Loose Fill Material Sample Description:

Engineered Wood Fiber: ☐
Loose Fill Wood ☑
Rubber: ☐
Sand: ☐
Gravel: ☐
Other: ☐

Un-compacted Depth: 11 Inches

Compacted Depth: 9 Inches

## Unitary Sample Description:

Tiles ☐
Poured in Place ☐
Other ☐

Total Thickness: _____
Top Layer: _____
Base Layer: _____

**Comments:**

**The maximum critical fall height of the above described sample was determined to be: 16 Ft.**

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification.

Sample in compliance with ASTM F1292-18e1 at the temperature and rating specified? Yes ☑ No ☐

Signature: Sabrina Naqvi Title: Project Coordinator Date: 3/26/2021

Reviewed by: _____ Title: Regional Manager Date: 3/26/2021

TÜV SÜD America Inc.
Product Safety Services
1755 Atlantic Blvd.
Auburn Hills, MI 48326
Phone: (616) 546-4600

# SURFACING MATERIAL REPORT – ASTM F1292-18E1

Client: **Ever-Green Landscape Nursery and Supply, Inc.**
Manufacturer: **Ever-Green Landscape Nursery and Supply, Inc.**
Manufacturing Location: **Cedar Rapids, IA**

Phone: **Cedar Rapids, IA**
Commercial Name of product: **Playmate Play Area Wood Chips**
Date of Manufacture: **Unknown**
No. of samples submitted: **Approx.12.Cubic. Ft.**

Project No.: **72167714-3**
Report Date: **3/26/2021**
Test Date: **3/25/2021 and 3/26/2021**
Initial Test: ☑
Follow up Test: ☐ **Ref Job:**
Sample Receipt Date: **3/12/2021**
Ambient Air Temperature: **22.8°C**
Humidity: **24.0%**

## Test Equipment:

| | | | |
|---|---|---|---|
| Alpha Automation, Triax, TUV System 5: | ☑ | Environmental Chamber ID: | AE029 |
| Alpha Automation, Triax, TUV System 7: | ☐ | Calibration Due Date: | 9/8/2021 |
| Accelerometer ID: | PLYP00144 | Environmental Chamber ID: | PLYP00096 |
| Accelerometer Calibration Date: | 6/9/2020 | Calibration Due Date: | 9/8/2021 |

## Loose Fill Material Sample Description:

Engineered Wood Fiber: ☐
Loose Fill Wood ☑
Rubber: ☐
Sand: ☐
Gravel: ☐
Other: ☐

Un-compacted Depth: 15 Inches

Compacted Depth: 12 Inches

## Unitary Sample Description:

Tiles ☐
Poured in Place ☐
Other ☐

**Total Thickness:** _____
Top Layer: _____
Base Layer: _____

**Comments:**

**The maximum critical fall height of the above described sample was determined to be:** 18 Ft.

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification.

**Sample in compliance with ASTM F1292-18e1 at the temperature and rating specified?** **Yes** ☑ **No** ☐

Signature: Sabrina Naqvi Title: Project Coordinator Date: 3/26/2021

Reviewed by: _____ Title: Regional Manager Date: 3/26/2021

## LIMITED WARRANTY

EVER-GREEN LANDSCAPE CONSTRUCTION SUPPLY INC., warrants that Playmate® Play Area Wood Chips® are always processed from 100% virgin hardwood material. EVER-GREEN further warrants that this product has been ASTM head impact attenuation tested five times and ASTM wheelchair accessibility tested four times. Our most recent test for head impact attenuation is dated **March 2021** and was performed in accordance with ASTM F1292-13. Our most recent wheelchair accessibility test is also dated **March 2021** and was performed in accordance with ASTM F1951-14. A copy of these test results is available upon request. EVER-GREEN LANDSCAPE CONSTRUCTION SUPPLY, INC. makes no further warranty expressed or implied on Playmate® Play Area Wood Chips®.

## 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."

**"Doing our very best to provide quality and service second to none on Iowa's playgrounds"**

## Important information to think about:

Research has shown that more than 70 percent of all injuries that occur on the playground involve falls. It is critical to understand the role that adequate and appropriate surfacing materials play in the prevention of injuries. Playmate® Play Area Wood Chips® has a 30 year history of being the safest natural EWF on the market with no reported injuries. With regard to your liability protection, having our top quality product on your playground and our Playmate® Play Area Wood Chips® test results in your file, proves that you have done, what you reasonably can, to mitigate the chances of injury on playgrounds that you are responsible for.

**Be Aware** that test results are not transferable between products. Any other EWF product other than Playmate® Play Area Wood Chips® that is on your playground will make Ever-Green's, Playmate® Play Area Wood Chips® test results **invalid**.

Always make sure that your safety surfacing is not a recycled product. There are many products that contain dirt, rocks, tree trimmings, plastic, rubber, wire, garbage etc. Some recycled products may contain treated wood chemicals. Ever-Green's, Playmate® Play Area Wood Chips®, has become the "Gold Standard" in EWF loose fill safety surfacing. It is ALWAYS made fresh from NATURAL, Clean Debarked Virgin Hardwood.