

## *Certified Playground Chips*

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P.R. Russell's Playground Chips have two important certifications, the *ASTM F1292-04* and the *ASTM F2075*, which guarantee that you are making the best choice for your play areas!

- **ASTM F1292-04 Standard Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment-** The purpose of this specification is to establish minimum impact attenuation requirements for playground surfaces in order to reduce the risk of severe head injury from falls. This is most commonly referred to as an impact test.
- **ASTM F2075 Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment-** The performance requirements to receive this certification include (1) sieve test analysis, (2) hazardous metal test (for antimony, arsenic, barium, cadmium, chromium, lead, mercury, and selenium), and (3) magnetic and nonmagnetic tramp metal tests are specified. In other words our Playground Chips are the correct size and are free of all chemicals and metals.

# NORTHWEST LABORATORIES *of Seattle, Incorporated*

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Technical Services for: Industry, commerce, Legal Profession & Insurance Industry

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Report To: P.R. Russell

Date: May 24, 2012

Report On: Sieve Analysis

Lab No.: E86076-3

## PRODUCT

**DESCRIPTION:** Playground Chips Made From Softwood Pulp

**TEST METHOD:** ASTM F2075 Section 7

## **TEST RESULTS:**

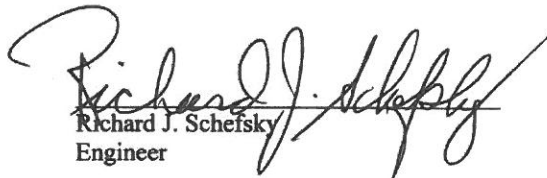
### **Sieve Analysis**

	<b><u>Wt. Grams</u></b>	<b><u>(%)</u></b>	<b><u>Passing Through</u></b>	<b><u>Passing Through Limits</u></b>
" +3/4 Inch"	0.00	0.00%	100.00%	
" -3/4 Inch"			98.26%	99% to 100%
" +3/8 Inch"	78.58	9.15%		
" -3/8 Inch"	765.56	89.11%	89.11%	75% to 100%
" -#16 Sieve"	14.93	1.74%	1.74%	0% to 15%
	859.07	100.00%		

This report applies only to the actual samples tested. Northwest Laboratories does not certify, warrant, or guarantee any products manufactured by others. Samples will be discarded within **thirty (30) days** unless otherwise requested in writing by you.

Sincerely,

NORTHWEST LABORATORIES, INC.

  
Richard J. Schefsky  
Engineer

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Report To: P.R. Russell

Date: May 11, 2012

Report On: Playground Chips

Lab No.: E86076-2

**TEST STANDARD:** ASTM F1292-04

**TITLE:** Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment

**PRODUCT NAME:** Playground Chips

**PRODUCT DESCRIPTION:**

Playground Chips Made from Softwood Pulp

**TEST RESULTS:**

<u>Temperature</u>	<u>Drop Height (Feet)</u>	<u>Drop</u>	<u>Gmax</u>	<u>HIC</u>
25°	11	1	103	601
	11	2	110	632
	11	3	117	663
		Avg. (Drop 2 & 3)	113.5	647.5
70°	11	1	130	710
	11	2	135	760
	11	3	159	963
		Avg. (Drop 2 & 3)	147	861.5
120°	11	1	92	433
	11	2	105	517
	11	3	101	511
		Avg. (Drop 2 & 3)	103	514
25°	12	1	89	495
	12	2	103	594
	12	3	107	467
		Avg. (Drop 2 & 3)	105	530.5
70°	12	1	119	700
	12	2	130	792
	12	3	153	1025
		Avg. (Drop 2 & 3)	141.5	908.5

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P.R. Russell  
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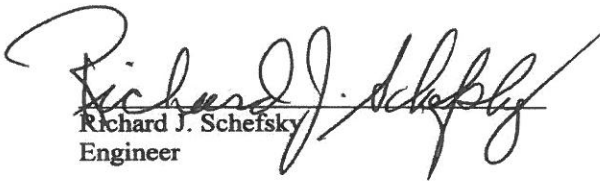
<u>Temperature</u>	<u>Drop Height (Feet)</u>	<u>Drop</u>	<u>Gmax</u>	<u>HIC</u>
120°	12	1	91	542
	12	2	137	599
	12	3	139	605
		Avg. (Drop 2 & 3)	138	602

## CONCLUSION:

In accordance with ASTM F1292-04, this product qualifies for a fall height of twelve (12) feet.

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NORTHWEST LABORATORIES, INC.

  
Richard J. Schefsky  
Engineer

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