

Supreme Forest Products

D.B.A. New England Playground Surfacing

49 DePaolo Dr. Southington CT, 06489

1 – 800 – 888 - PLAY (7529)

Any IPEMA Certified Playground Safety Surfacing
supplied for a public playground should be supplied
with Certification Documents from the
Actual Manufacturing Site of the
Playground Safety Surfacing;

Minimum Manufacturing Site Playground Safety Surfacing
Documentation should include:

1. Impact Attenuation ASTM 1292-09
2. Tramp Metal Test ASTM 2075-10a Section 4.6.1 Per 9.4.2.3
3. Sieve Analysis ASTM 2075-10a Section 4.4 Per 7.4
4. Hazardous Metal Test ASTM 2075-10a Section 4.5.2 Per 8.0
5. Accessibility Testing ASTM 1951
6. 25 Year Performance Warranty (Warranties should not require additional purchases such as Mats)



IPEMA Certificate of Compliance



To verify product certification,
visit www.ipema.org

MANUFACTURER

Supreme Forest Products, Inc. dba New England Play
49 De Paolo Road
Southington, CT 06489

PRODUCT NBR	PRODUCT LINE
PSF12	Playground safety fiber 12"/12'

DESCRIPTION
Engineered Wood Fiber

ISSUE DATE: 7/28/14 -
In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to the ASTM F1292-13, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment Standard.

The manufacturer listed below has received written validation from TÜV SÜD America that the products listed below conform with the requirements of ASTM F1292-13.

You may verify this certificate by visiting IPEMA's website at <http://ipema.org>



America

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Supreme Forest Products, Inc. dba New England Play
49 De Paolo Road
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In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's conformance to the ASTM F 2075-10a Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment.

The manufacturer listed below has received written validation from TÜV SÜD America that the products listed below conform with the requirements of ASTM F 2075-10a

INTERNATIONAL
PLAY EQUIPMENT
MANUFACTURERS
ASSOCIATION

You may verify this certificate by visiting IPEMA's website at <http://ipema.org>



America



TÜV SÜD America Inc.
Product Safety Services
47523 Clipper Drive
Plymouth, MI 48170
Phone: 734.455.4841

IPEMA Impact Attenuation Report – ASTM F1292-13

Participant: Supreme Forest Products dba New England Playground Surfacing TUV Report No.: QI1406435-3
Main Office Address: 49 DePaulo Drive Report Date: 7/11/2014
Southington, CT Test Date: 7/10/2014 & 7/11/2014
Phone: 800 888 7529 Selection: ☒ Initial: ☐
Manufacturing Location ID: Southington, CT 06489 Follow up ☐ Ref Job:
Commercial Name of product: Playground Safety Fiber Sample Receipt Date: 7/9/2014
Date of Manufacture: Unknown Ambient Air Temperature: 23.3°C
No. of samples submitted: 12 cu ft Humidity: 35.0%

Test Equipment:

Triax System 4:	<input checked="" type="checkbox"/>	Environmental Chamber No.:	PLYP00101
Triax System 1:	<input type="checkbox"/>	Calibration Due Date:	6/17/15
Accelerometer ID:	PLYP00121	Environmental Chamber No.:	PLYP00069
Accelerometer Calibration Due Date:	1/22/2015	Calibration Due Date:	6/17/15

Loose fill Material Sample Description:

Engineered Wood Fiber:	<input checked="" type="checkbox"/>	Un-compacted Depth:	<u>15</u> Inches
Loose Fill Wood	<input type="checkbox"/>		
Rubber:	<input type="checkbox"/>		
Sand:	<input type="checkbox"/>	Compacted Depth:	<u>12</u> Inches
Gravel:	<input type="checkbox"/>		
Other:	<input type="checkbox"/>		

Unitary Sample Description:

Tiles	<input type="checkbox"/>	Total Thickness:	_____
Poured in Place	<input type="checkbox"/>	Top Layer:	_____
Other	<input type="checkbox"/>	Base Layer:	_____

Comments:

The above described sample was tested at : 12 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.

Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes ☒ No ☐

Signature: [Signature]

Title: Project Coordinator Date: 7/11/2014

Reviewed by: [Signature]

Title: Regional manager Date: 7/15/2014

Client: Supreme Forest Products dba New England Playground SurfacingTUV Report No. Q11406435-3Manufacturer: Supreme Forest Products dba New England Playground SurfacingTest Date: 7/10/2014 & 7/11/2014

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1	12	77	331	27.9	12.101	64	273	28.0	12.188	53	192	27.9	12.101
2	12	101	527	28.1	12.275	79	361	28.2	12.363	64	255	28.2	12.363
3	12	111	618	28.2	12.363	86	391	28.2	12.363	82	358	28.2	12.363
Average		106	572.5			82.5	376			73	306.5		
Measured Surface Temperature		-6°C	Max. Change from reference + 5°C, (5°F)			23°C	Max. Change from reference ± 3°C, (5°F)			°C 49°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:		DRY				DRY				DRY			

Drop	One foot over (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1					0.000				0.000				0.000
2					0.000				0.000				0.000
3					0.000				0.000				0.000
Average		0	0			0	0			0	0		
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													

Drop	One foot under (FL)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1					0.000				0.000				0.000
2					0.000				0.000				0.000
3					0.000				0.000				0.000
Average		0	0			0	0			0	0		
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													



America



TÜV SÜD America Inc. Product Safety Services

47523 Clipper Drive, Plymouth, MI 48170

Phone: 734.455.4841 Fax: 734.455.6590

Tramp Metals Test Results - ASTM F 2075

ASTM F 2075-10a

Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment, Section 4.6 and Section 9

Customer/Participant: Supreme Forest Products dba New

Report Date: 7/2/2014

England Playground Surfacing

Main Office Address: Southington, CT

Test Date: 6/24/2014

All testing performed at location ID: Southington, CT

Job No.: Q11406435-1

Product Brand Name/Number: Playground Safety Fiber

4.6.1 Per 9.4.2.3 Tramp Metals

Level – 0" – 15"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Level – 15" – 30"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Level – 30" – 45"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Level – 45" – 60"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Pass ☒

Fail ☐

Comments:

Signature: [Signature]

Reviewed By: [Signature]

Title: Project Coordinator

Title: Project Coordinator

Date: 7/2/2014

Date: 7/2/14



America

Sieve Analysis Data Collection Form
ASTM F2075-10a per Section 4.4 and Section 7

TUV SUD America, Inc.
47523 Clipper Street
Plymouth, MI 48170
Ph: (734) 455-4841

Customer/Participant: Supreme Forest Products, Inc. dba New England Playground Surfacing
Main Office Address: Southington, CT
Location ID: Southington, CT
Product Brand Name: Playground Safety Fiber
Test Date: 7/10/14
Job#: Q11406435-2

Initial Sample Dry Weight (g) = 620.0

3/4" Sieve

Material remaining 0.0 g ÷ Initial sample weight (g) = 620.0 × 100 = 0.0 % not passing 3/4" sieve

100% - 0.0 % not passing 3/4" Sieve = 100.0 % Passing Sieve

3/8" Sieve

Material remaining 15.2 g ÷ Initial sample weight (g) = 620.0 × 100 = 2.5 % not passing 3/8" sieve

100% - 2.5 % not passing 3/8" Sieve = 97.5 % Passing Sieve

#16 Sieve

Material remaining 532.4 g ÷ Initial sample weight (g) = 620.0 × 100 = 85.9 % not passing #16 sieve

100% - 85.9 % not passing #16 Sieve = 14.1 % Passing Sieve

Sieve Size	Min / Max Requirements	% Loss by Sieve (Percent Passing)
3/4" (19.05 mm)	99 - 100 %	100.0
3/8" (9.53 mm)	75 - 100 %	97.5
No. 16 (0.0469 in.)	0 - 15 %	11.7

Sample in compliance with ASTM F2075-10 for Sieve
Analysis Section 4.4 per 7.4

Yes ☒ No ☐

Test Performed By: [Signature] Title: Regional Manager Date: 7/10/2014
Reviewed By: [Signature] Title: Regional Manager Date: 7/10/2014

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.

TÜV America Inc.
47523 Clipper St.
Plymouth, MI 48170

Phone: (734) 455-4841
Fax: (734) 455-6590
E-mail: info@tuvam.com
www.TUVamerica.com



Hazardous Metals Test
ASTM F2075-10a, Section 4.5.2 per 8.0

Manufacturer Supreme Forest Products dba New England Playground Surfacing
Main Office Address 49 DePaulo Drive, Southington, CT 06489
Manufacturing Location ID Southington, CT
Product Brand Name Playground Safety Fiber

PURCHASE ORDER: # 20000010054

TÜV JOB# QI1406435-4

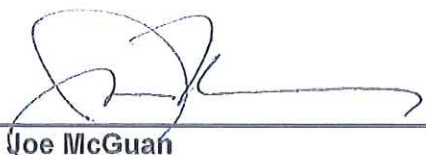
The following ISO 17025-accredited Laboratory performed testing:

St. Louis Testing Laboratories, Incorporated
2810 Clark Avenue
St. Louis, MO 63103

St. Louis Testing Laboratory report attached (1 page).

Test Result: Pass X Fail

Prepared By:



Joe McGuane

7/21/14

Date

Project Coordinator

Title

Reviewed and Approved By:



Timothy Fouchia

7/21/14

Date

Project Coordinator

Title



2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085
Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

TUV SUD AMERICA, INC
47523 Clipper St
Plymouth, MI 48170

Attention: Janice Gudenau

July 18, 2014
Lab No. 14C-1429
Invoice No. 185785
P.O. No. 2000010054
Page 2 of 2

REPORT OF ANALYSIS

MATERIAL: QI1406435-4
SUBJECT: Soluble Heavy Metals Analysis
STANDARD: ASTM F2075-10a
TEST METHOD: ASTM F2075-10a
UNITS: Soluble Heavy Metals - Parts per Million (ppm)
RESULTS:

Substance	QI1406435-4	Maximum Allowable Limit	Method Detection Limit
Soluble Antimony	<50	60	50
Soluble Arsenic	<15	25	15
Soluble Barium	<900	1000	900
Soluble Cadmium	<65	75	65
Soluble Chromium	<50	60	50
Soluble Lead	<80	90	80
Soluble Mercury	<50	60	50
Soluble Selenium	<400	500	400

The soluble heavy metal content of the tested product is in compliance with the requirements of the above-indicated standard.

Identification of tested specimens provided by the client.

RES/g/kg

Robin E. Sinn
Laboratory Director



AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST.
NOT OFFICIAL WITHOUT THE RAISED SEAL OF ST. LOUIS TESTING LABORATORIES, INC.
SEE REVERSE FOR CONDITIONS.





REPORT NUMBER
QI1407131



America

PREPARED FOR
SUPREME FOREST PRODUCTS
DBA: NEW ENGLAND PLAYGROUND SURFACING
49 DePAOLO DRIVE
SOUTHINGTON, CT 06489

ATTENTION
MR. NICK MCGUFFIE

REPORT DATE
JULY 17, 2014

TÜV SÜD America, Inc.
47523 Clipper Street
Plymouth, Michigan 48170 USA
Phone: 734.455.4841
Fax: 734.455.6590
www.TUVAmerica.com

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Report Number: QI1407131
July 17, 2014

REPORTED / APPROVED BY:

TÜV SÜD America, Inc.

A handwritten signature in black ink, appearing to read 'Joe McGuan'.

Reported by: Joe McGuan, Project Coordinator
CERTIFICATION TEST PROGRAMS

A handwritten signature in black ink, appearing to read 'David Splane'.

Approved by: David Splane, Regional Manager
CERTIFICATION TEST PROGRAMS



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 F1951-09b, 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 July 17, 2014.

SAMPLE DESCRIPTION

Supreme Forest Products; Db: New England Playground Surfacing, Submitted approximately 60 cubic feet of loose fill wood material identified as Playground Safety Fiber.



TESTING PERFORMED

ACCESSIBILITY OF SURFACE SYSTEMS

Procedure

Sample material 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 F1951-09b, 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 sample material "Playground Safety Fiber" met the requirements of ASTM F1951-09b.

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 Supreme Forest Products; Dba New England Playground Surfacing.



TEST EQUIPMENT

TÜV SÜD America, Inc.'s calibration system meets the requirements of ISO 17025:2005.

TUV ID#	Equipment Type	Manufacturer	Model	Calibration Due:
PLYP00047	Reaction Torque Sensor	Lebow	2110-110-2K	12/26/14
PLYP00043	Signal Conditioner	Daytronics	3370S	12/26/14
PLYP00151	Wheelchair	Quickie	Q2	NCR
PLYP00136	Scale/Balance	Toledo Scale	4181	06/26/15
PLYP00145	Air pressure gauge	Westward	2HKX9	03/21/15
PLYP0068	Digital Thermometer	Omega	HH11	12/26/14
PLYP00084	Thermocouple Probe	Omega	K Type	12/26/14
PLYP00015	Digital Protractor	Mitutoyo	Pro 360	06/19/15
PLYP00071	Thermohygrometer	Extech Instruments	445702	12/26/14

NCR – No Calibration Required

REMARKS, Deviation(s):

- Per ASTM F1951-09b, section 7.1.2 Test Wheelchair Rider; a 165 + 11, -4.4lb test wheelchair rider shall propel the wheelchair during testing. The rider's weight was measured at 174lbs prior to testing.
 - The wheelchair rider weight was 174 pounds, which combined with the wheelchair for a total of 222.7 pounds.
- Per section 7.1.3 Weight of Total System- The total weight of the wheelchair Rider System, including any distance measurement or data acquisition equipment residing on the wheelchair shall be a minimum of 187.2 lb and a maximum of 255 lb.



Material Name / Description: Playground Safety Fiber

Surface temperature: 24.7°C
Ambient lab temperature: 22.6°C
Ambient lab humidity: 40% RH

Trial #	No Material (work per foot) (lbf·in)	With Material (work per foot) (lbf·in)
Straight propulsion trial 1	139.65	152.73
Straight propulsion trial 2	141.43	142.82
Straight propulsion trial 3	137.52	131.85
Straight propulsion trial 4	138.77	128.64
Straight propulsion trial 5	137.71	134.03
Straight propulsion average	138.71	136.24

90° Turn propulsion trial 1	185.01	161.01
90° Turn propulsion trial 2	185.23	150.89
90° Turn propulsion trial 3	192.99	156.57
90° Turn propulsion trial 4	191.32	156.50
90° Turn propulsion trial 5	189.11	148.71
Turn propulsion average	188.55	154.65

Supreme Forest Products

D.B.A. New England Playground Surfacing

49 DePaolo Dr Southington CT, 06489

25 YEARS PERFORMANCE LIMITED WARRANTY

This limited warranty applies to the NEW ENGLAND PLAYGROUND SURFACING Material known as PLAYGROUND SAFETY FIBER.

PLAYGROUND SAFETY FIBER is warranted by NEW ENGLAND PLAYGROUND SURFACING to the original purchaser to meet or exceed Playground Surfacing Guidelines of U.S. Consumer Product Safety Commission published in 1997 using ASTM: Standard F1292-09 for a period of twenty (25) years from the certified date of delivery subject to the conditions and exclusions listed below.

WARRANTY: MATERIAL REPLACEMENT ONLY

The entire liability of NEW ENGLAND PLAYGROUND SURFACING and the Purchaser's sole remedy in the event the PLAYGROUND SAFETY FIBER does not conform to the Limited Warranty shall be limited to replacement of any defective material and shall not include removal, installation or consequential damages or any refund.

ACTS INVALIDATING WARRANTY:

Incorrect installation (including failure to provide adequate drainage), failure to install all material delivered, failure to maintain a minimum depth of 12", use of the Material with other products not provided by NEW ENGLAND PLAYGROUND SURFACING, abnormal use, lack of or improper maintenance, or vandalism shall void this Limited Warranty and NEW ENGLAND PLAYGROUND SURFACING shall have no responsibility with respect to damage or loss resulting there from.

In addition, changed impact attenuation characteristics created by sand or other materials tracked into the System are not covered by this Warranty.

DISCLAIMERS:

NEW ENGLAND PLAYGROUND SURFACING disclaims all other Warranties expressed or implied, including but not limited to implied Warranties of fitness or merchantability and fitness for a particular purpose.

In no event shall NEW ENGLAND PLAYGROUND SURFACING or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, claims for personal injury or property damage or other pecuniary loss) arising out of the use or inability to use the Material, even if NEW ENGLAND PLAYGROUND SURFACING has been advised of the possibility of such loss. Because some states do not allow the exclusion of limitations of liability for consequential or incidental damages, the above limitation may not apply to you.

Acceptance of the Material shall constitute acceptance of the terms of this LIMITED WARRANTY.

Surfacing Playgrounds since 1986

1 - 800 - 888 - PLAY (7529)