

26 Timber Lane, Reedsville, PA 17084

Phone: (717)667-2924

Fax: (717)667-9769

www.metzlerforestproducts.com

# PLAYGROUND SURFACING INFORMATION BOOKLET 2023-2024

**Corporate Contact Person** 

Randy Hettinger

Phone: (717)667-2924

randy.hettinger@metzlerfp.com

#### PROCEDURE TO PROCESS ORDERS

- CALL RECEIVED INTO THE OFFICE.
- 2. INQUIRY FOR THE PRICING EMAILED TO THE SALES REPRESENTATIVE.
- 3. SALES REPRESENTATIVE RESPONDS WITH A QUOTE.
- 4. ORDER GIVEN TO SALES REPRESENTATIVE.
- 5. MATERIAL IS SCHEDULED FOR DELIVERY AND SHIPPED.

#### PROCESS TO MANUFACTURE MATERIAL

- 1. POLEWOOD IS DEBARKED AND PROCESSED THROUGH A CHIPPER DISC CREATING A CHIP OF THE PROPER SIZE.
- 2. THE CHIPS ARE THEN PROCESSED THROUGH A HORIZONTAL GRINDER FOR FURTHER MANUFACTURING.
- 3. MATERIAL IS SEGREGATED ON A FINISHED PILE AWAITING SHIPMENT.

#### **EQUIPMENT TO MANUFACTURE MATERIALS**

- 1. ALL MANUFACTURING EQUIPMENT IS INSPECTED THREE TIMES PER DAY TO ENSURE THAT IT IS OPERATING IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS.
- 2. ALL WEAR PARTS ON BOTH THE DISC CHIPPER AND HORIZONTAL GRINDER ARE INSPECTED EACH TIME.
- 3. THE CHIPPER KNIVES AND THE GRINDER HAMMERS ARE KEPT IN GOOD OPERATING CONDITION. THE END OF THE DAY MAINTENANCE INCLUDES PROPER LUBE AND SERVICE.
- 4. ALL MANUFACTURING EQUIPMENT IS CLEANED OF ALL DEBRIS ON A DAILY BASIS.

#### **Metzler Forest Products**

#### **Material Handling Procedures:**

#### \*Raw Material:

Logs are delivered and segregated in our yard.

Logs are then chipped and that product is hauled to our onsite storage area.

#### \*Chipped Product:

The chipped product is then reground into our final product (playground mulch).

#### \*Playground Mulch:

The finished product is then stored in a separate area until shipping.

#### \*Delivery:

Playground mulch is then loaded and shipped via truck to customer site.

Metzler Forest Products, LLC 26 Timber Lane Reedsville, PA 17084 Phone: (717)667-2924

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#### PLAYGROUND SURFACING MULCH

#### **Installation Notes:**

- 1. Excavate an area to allow for a depth of 12" compacted of safety surface material. To ensure proper drainage, a minimum grade of 1% 1 ½ % of drop needs to be established.
- 2. The above area should then be compacted and proper grade established.
- 3. Drainage stone approximately two three inches should be installed along with drainage fabric. (See attached diagram.)
- 4. If required, any containment systems should now be put into place and secured.
- 5. Twelve inches of wood fiber may now be brought in and installed.
- 6. If you have any questions or concerns, call (717)667-2924.

Metzler Forest Products, LLC recommends using the services of a qualified engineer or landscape architect when installing your surfacing material.

A depth of 14"-15" of material will be needed to reach a compacted depth of 12 inches. The 12" depth will need to be monitored regularly to insure the required 12" depth.

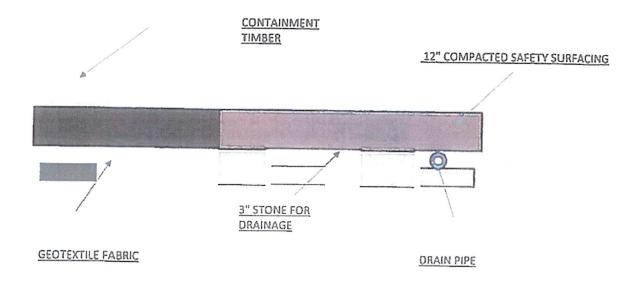
Please refer to ASTM for fall zones, etc. on all equipment.

#### **Maintenance Tips:**

- 1. Inspect and remove any foreign matter that has accumulated on the fiber.
- 2. Rake level any spots where surfacing has been disturbed.
- 3. Dig down into the surfacing and measure the depth to insure the necessary material is still maintained.
- 4. Top dress where needed.

\*In the interest of public playground safety, the International Play Equipment Manufacturers Association (IPEMA) provides a Third Part Certification service whereby an independent laboratory, TUVSUD America, validates a manufacturer's certification of conformance to ASTM F1292, "Standard Specification for Impact Attenuation Under and Around Playground Equipment." The use of IPEMA Playground Surfacing Certification Seal signifies that Metzler Forest Products, LLC has received written validation from TUVSUD America that a specified thickness of the product associated with the seal conforms with the requirements of ASTM F1292 at a specified critical height and has certified that the associated products is made with the same materials and in the same manner as the original representative produce sample validated by TUVSUD America. A list of current validated products, their thickness and critical height may be viewed at www.ipma.org.

#### PLAYGROUND INSTALLATION VIEW



#### **SITE PREPARATION:**

- 1. GRADE SOIL TO A 2% GRADE TOWARDS AN AREA YOU WOULD LIKE THE WATER TO DRAIN.
- 2. DIG A TRENCH AND PLACE DRAINE PIPE IN.
- 3. COVER PIPE AND INSTALL A LAYER OF GEO-FABRIC OVER TOPSOIL OVERLAPPING THE SEAMS.
- 4. COVER THE FABRIC WITH A 3" LAYER OF STONE THAT WILL ALLOW DRAINAGE.
- 5. ANY TIMBERS OR CONTAINMENT SYSTEMS WOULD HAVE PREVIOUSLY BEEN INSTALLED.
- 6. PLACE AN ADDITIONAL LAYER OF GEO-FABRIC OVER STONE, AGAIN OVERLAPPING.
- 7. BRING IN AND SPREAD APPROXIMATELY 6-8" OF PLAYGROUND MATERIAL.
- 8. WET MATERIAL DOWN ANDMECANICALLY COMPACT.
- 9. REPEAT STEP 7 WITH BALANCE OF MATERIAL NEEDED TO COMPACT TO 12".

#### **Procedure for Inspection of Raw Materials:**

- 1. Visual inspection of produced raw product (daily).
- 2. Visual inspection of finished product (during and after production).

#### **Quality Assurance Program:**

Metzler Forest Products, LLC guarantees that clean chips will be used and monitored by the control assurance person on a per load basis.

- 1. Visual inspection of raw material.
- 2. Visual inspection of finished product.

#### **Control Assurance Program:**

- 1. Samples will be taken and inspected at our weekly meetings. These meetings will be part of our regularly scheduled production meetings, which includes the control assurance person and all of the production personnel.
- 2. A team consisting of the control assurance person, mill and material sales person will be put into place to monitor quality and service-related issues.
- 3. The corporate level manager and quality assurance persons will also meet on a regular basis to discuss any problems or issues that may arise.

#### **Complaint Reviews:**

- 1. All complaints will be documented and reviewed. The control assurance and corporate level persons will address all issues when necessary.
- 2. All complaints or issues will be handled in a timely fashion until all parties are equally satisfied.
- 3. All complaints will also be addressed at our production and control assurance meetings.
- 4. The issues that have been documented and reviewed will be kept on file for future reference.

If you have an questions or concerns, please contact the control assurance person:

Randy Hettinger

Phone: (717)667-2924

Email: randy.hettinger@metzlerfp.com

#### **COMPLAINT FORM**

1.	Date of complaint:
2.	Nature of complaint:
_	
3.	Date of resolution:
4.	Resolution of complaint:
	Quality Assurance Person Signature (Metzler Forest Products, LLC, rep)

Date

#### **CORRECTIVE ACTIONS DOCUMENTATION**

- 1. ANY QUALITY OR MATERIAL PROBLEMS WILL BE DOCUMENTED ON PAPER AND FILED IN THE IPEMA FOLDER.
- 2. INTERNAL CORRECTIVE ACTIONS WILL BE NOTED AND FILED INTO THE IPEMA FOLDER AS WELL AS ANY CORRECTIVE ACTIONS REQUIRED BY IPEMA.

#### PROCEDURE FOR NON-CONFORMING PRODUCT

1. ANY MATERIAL THAT DOES NOT CONFORM TO THE STANDARDS REQUIRED BY METZLER FOREST PRODUCTS AND IPEMA WILL BE SEGREGATED FOR RE-PROCESSING OR STOCKPILED AND USED FOR ALTERNATIVE TYPES OF LANDSCAPE PRODUCTS.

#### **MAINTENANCE RECOMMENDATIONS**

#### **DAILY:**

1. VISUALLY INSPECT PLAYGROUND AND REMOVE ANY FOREIGN OBJECTS.

#### **WEEKLY:**

- 1. RAKE ANY DISPLACED MATERIAL AROUND SWINGS AND EQUIPMENT TO MAINTAIN THE SUFFICIENT DEPTH OF MATERIAL IN FALL AREAS.
- 2. KEEP ALL WHEELCHAIR ENTRANCES AND EXITS PACKED AND FREE OF ANY OBSTACLES.

#### **MONTHLY**

- 1. CHECK FOR SUFFICIENT DRAINAGE ON SITE.
- 2. REPLACE MATERIAL TO ENSURE PROPER DEPTH REQUIREMENTS.

#### **NOTES:**

- 1. THE ABOVE INFORMATION IS BASED ON NORMAL OR AVERAGE PLAYGOUNRDS. IN HIGHER USE SITES THESE STEPS MAY NEED PERFORMED ON A MORE FREQUENT SCHEDULE.
- 2. IN DRY CLIMATES THE SURFACING MAY NEED TO BE WATERED TO MAINTAIN ITS RESISTANCE TO FIRE AND DUST AND TO KEEP THE MATERIAL PLIABLE.

# **Training Record**

Company:	Location:	
Training Topic:		
Data	<del>-</del>	
Date:	Trainer:	
Description of Training:		
Notes:		
Attendance:		
		-
		-



# **Sieve Analysis Data Collection Form** ASTM F2075-20 per Section 4.4 and Section 7

TUV SUD America, Inc 1755 Atlantic Blvd.

Auburn Hills, MI 48326 Ph: (616) 546-4600

Customer/Particip	oant: Metzler Forest Produc	8	Test_Date: 11/04/2022			
Main Office Addr	ess: 26 Timber Lane		Project No.: 72183324-2			
(City, State,	Zip): Reedsville, PA 17084		Ambie	Ambient Air Temp.: 20.3°C		
Location	n ID: Reedsville, PA			ive Humidity: 42%		
Commercial Name of Prod	duct: Playground Mulch			,= ,		
		Test Equipme	nt Used		_	
TUV Asset No.:	Equipment Type	Manufacturer	Mode	ı		
PLYP00100	Environmental Chamber	Russells	RB-8-1-1, (C			
PLYP00163	Data Logger	Omega	OM-CP-RHTE			
PLYP00216	Hygro-thermometer	Extech Instruments				
PLYP00211	Hygro-thermometer	Extech Instruments				
PLYP00055	Test Sieve	W.S. Tyler	No. 16 (1.19			
PLYP00056	Test Sieve	W.S. Tyler	3/8" (9.53			
PLYP00057	Test Sieve	W.S. Tyler	3/4" (19.05			
PLYP00059	Sieve Shaker	W.S. Tyler	RX 81:			
PLYP00083	Balance	Denver Instruments	184536	42		
		<u>Data</u>				
Initial Sample and Cont	ainer Weight	725.7				
Tare weight of Containe	er	179.0				
Initial Sample Dry Weig	ht (g)	546.7				
Sample and Container \	Weight for 3/4" Sieve	179.9		Min / Max		
Tare weight of Containe		179.9	Sieve Size	<u>Requirements</u>	<u>% Passing</u>	
Sample Remaining on 3	3/4" Sieve (g)	0.0	3/4" (19.05 mm)	99 - 100%	100.0	
Sample and Container \	Neight for 3/8" Sieve	203.5				
Tare weight of Containe		178.5	3/8" (9.53 mm)	78 - 100%	95.4	
Sample Remaining on 3	3/8" Sieve (g)	25.0	No. 16 (0.0469 in.)	0 -15%	4.2	
Sample and Container \	Weight for #16 Sieve	676.9	- 4A			
Tare weight of Containe		178.0				
Material Remaining on #	# 16 Sieve (g)	498.9				
Sample in compliance	with ASTM F2075-20 for	· Sieve Analysis S	Section 4.4 per 7.4	Yes 🗸	No	
	iners verified prior to tes			.00		
	ed at TÜV SÜD America i		11.			
Performed By: 7im Lock	éstein	Title: Projec	ct Engineering Tec	hnician Date:	11/4/2022	
Reviewed By: Jimethy	T/	Title: Project	et Engineering Tool	hnician D.	12/22/2022	
Neviewed by. <u>Simully</u>	y Loulia	· · · · · · · · · · · · · · · · · · ·	t Engineering Tec	Date:	12/23/2022	
The results reported herein	n reflect the performance of th	ne above described s	samples at the time of	testing and at the tempe	erature(s)	
reported. The results are s	pecific to the described samp	oles. Samples of sur	facing materials that o	lo not closely match the	described samples	

will perform differently. The following data sheet provides an accurate representation of the test results.



## TÜV SÜD America, Inc., Product Safety Services

1755 Atlantic Blvd., Auburn Hills, MI 48326

Phone: (616) 546-4600

#### **Tramp Metals Test Results**

#### **ASTM F2075**

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/Pa	articipant: Metzler Forest F	Products, LLC	Report Date:October 1	17, 2022				
Main Office	Address: 26 Timber Lane I	Reedsville, PA 17084	Test Date: October 1	7, 2022				
All testing performed at location ID: Reedsville, PA Project No.:72183324-1								
Commercial Name of	Product: Playground Mul	lch						
<b>4.6.1 Per 9.4 Tramp Metals</b> <u>Level – 0in. – 15in.</u>								
Quadrant 1 <u>Pass</u> <u>Fail</u> Level – 15in. – 30in.	Quadrant 2 <u>Pass</u> <u>Fail</u>	Quadrant 3 <u>Pass</u> <u>Fail</u>	Quadran <u>Pass</u>	t 4 <u>Fail</u>				
Quadrant 1 Pass Fail  Level – 30in. – 45in.	Quadrant 2 <u>Pass</u> <u>Fail</u> ⊠ □	Quadrant 3 Pass Fail ⊠ □	<u>Quadrant</u> <u>Pass</u> <u>F</u> ⊠	<u>t 4</u> F <u>ail</u> □				
Quadrant 1 Pass Fail  Level – 45in. – 60in.	<u>Quadrant 2</u> <u>Pass</u> <u>Fail</u> ⊠ □	Quadrant 3 Pass Fail ⊠ □	<u>Quadrant</u> <u>Pass</u> <u>F</u> ⊠	<u>t 4</u> <u>Fail</u>				
Quadrant 1 Pass Fail	Quadrant 2 Pass Fail ⊠ □	Quadrant 3 Pass Fail ⊠ □	<u>Quadrant</u> <u>Pass</u> <u>[</u> ⊠	<u>:4</u> <u>Fail</u> □				
Pass 🗵	Fail 🗌							
The results reported herein reflect the perform surfacing materials that do not closely match the surface of th	ance of the above described sample he described samples will perform of	les at the time of testing. The re differently. This data sheet provi Reviewed By:	sults are specific to the descri	bed samples. Samples of on of the test results.				
Title: Product Safety Eng	gineer	Title: Re	egional Manager					
Date: October 17, 2022		 Date: 10	0/18/2022					

PSS\_F\_09.33 Tramp Metals Test Results - ASTM F2075 Rev. 6 Effective: 4/26/22



### TÜV SÜD America Inc.

**Product Safety Services** 

1755 Atlantic Blvd. Auburn Hills, MI 48326

Phone: (616) 546-4600

# IPEMA IMPACT ATTENUATION REPORT - ASTM F3351-19E1

Participant: Metzler Forest Products, I  Main Office Address: 26 Timber Ln.  Reedsville, PA 17084  Phone: (717) 667-2924  Manufacturing Location ID: Reedsville, PA  Commercial Name of product: Playground Mulch  Date of Manufacture: Unknown  No. of samples submitted: Approx. 8 Cu. Ft.  Alpha Automation, Triax, TUV System 5: Alpha Automation, Triax, TUV System 7: Accelerometer ID: PLYPO	Report Date: 11/21/2022  Test Date: 11/17/22 and 11/21/2022  Selection: Initial: Follow up: Ref Job:  Sample Receipt Date: 11/2/2022  Ambient Air Temperature: 23.0 °C  Humidity: 25 %  Test Equipment:  Environmental Chamber ID: AE-029  Calibration Due Date: 8/31/2022						
Accelerometer Calibration Date: 4/7/20	Calibration Due Date: 8/31/2022						
<u>Loose Fi</u>	II Material Sample Description:						
Engineered Wood Fiber:   Loose Fill Wood:   Rubber Nuggets:   Rubber Buffings:   Sand:   Gravel:   Other:	Un-compacted Depth: 14 Inches  Compacted Depth: 12 Inches						
<u>Uni</u>	tary Sample Description:						
Tiles:☐ Poured in Place:☐ Other:☐	Total Thickness: Top Layer: Base Layer:						
	ystem Sample Description:						
Turf:□ Pad:□ Aggregate:□ Infill:□	Turf Pile Height: Inches Pad Thickness: Inches Aggregate: Inches Infill Amount: Lbs./Sq. Ft. Infill Type:						
Comments:	ппп туре.						
·	C performance criteria of ASTM F1292, Section 4.2.						
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 the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides accurate representation of the test results.  The above described sample was tested at: 12 Ft.  The results are specific samples will perform differently. The following data sheet provides accurate representation of the test results.  The above described sample was tested at: 12 Ft.  The results are specific samples will perform differently. The following data sheet provides accurate representation of the test results.							
Signature: 7imothy Fouchia	Title: Project Engineering Technician Date: 11/21/2022						
Reviewed by:	Title: Regional Manager Date: 12/22/2022						

Client: Metzler Forest Products, LLC

Manufacturer: Reedsville, PA

TUV Report No.: 72183324-3

Test Date: 11/17/22 and 11/21/2022

	Specified		Reference Temperature -4°C, (25°F)			Reference Temperature 23°C, (72°F)			Reference Temperature 49°C, (120°F)				
Drop	Impact Height (Ft.)	G-Max	НІС	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	61	266	27.8	12.01	61	251	27.8	12.01	67	281	27.9	12.10
2	12	84	435	28.0	12.19	82	391	27.9	12.10	88	453	28.1	12.28
3	12	95	512	28.1	12.28	88	412	27.9	12.10	102	571	28.2	12.36
Aver	rage	89.5	473.5			85.0	401.5			95.0	512.0		
Measured Surface Temperature		-3 ℃	Max. Change from reference + 5°C, (5°F)		23°C	23°C Max. Change from reference ± 3°C, (5°F)		<b>49</b> °C	49°C Max. Change from reference -3°C, (-5°F)				
Sample Condition: Dry			Dry			Dry							







America

TÜV America Inc. 1755 Atlantic Blvd. Auburn Hills, MI 48326

Phone: (616) 546-4600 E-mail: info@tuvam.com www.TUVamerica.com



# Hazardous Metals Test ASTM F2075, Section 4.5.2 per 8.0

Manufacturer: Metzler Forest Products,	, LLC	
Main Office Address: 26 Timber Lane, Reeds	ville, PA 17084	
Manufacturing Location ID:Reedsville, PA		
Commercial Name of Product: Playground Mulch		
PURCHASE ORDER: # 2000051467		PROJECT NO.: 72183324-4
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	Fail	
Prepared By:		
Ray Majszak	12/22/2022	
	Date	
Project Engineering Technician		
Title		
Reviewed and Approved By:		
Timothy Foulia	12/23/2022	_
V	Date	
Project Engineering Technician		
Title		

The results reported herein reflect the performance of the above described samples at the time of testing. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. This data sheet provides an accurate representation of the test results.



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.

TÜV SÜD AMERICA, INC 1755 Atlantic Blvd. Auburn Hills, MI 48326

Attention: Kaitlyn Macinnes

November 21, 2022 WO# C-0197656 Invoice No. INSTL26215 P.O. No. 2000051467 Page 1 of 1

> ob VV. Long ector, Chemical and fronmental Testing

REPORT OF ANALYSIS

**MATERIAL:** 

72183324-4

SUBJECT:

Soluble Heavy Metals Analysis

STANDARD:

ASTM F2075-20, Section 4.5, per 8.0 Hazardous Metal Test

Method

**TEST METHOD:** 

ASTM F2075-20

UNITS:

Soluble Heavy Metals - Parts per Million (ppm)

**RESULTS:** 

Substance	72183324-4	Maximum Allowable Limit	Method Detection Limit	
Soluble Antimony	<5	60	5	
Soluble Arsenic	<5	25	5	
Soluble Barium	18	1000	5	
Soluble Cadmium	<5	75	5	
Soluble Chromium	<5	60	5	
Soluble Lead	<5	90	5	
Soluble Mercury	<5	60	5	
Soluble Selenium	<5	500	5	

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

Identification of tested specimen(s) provided by the client

JWL/gs

St. Louis Testing Laboratories decision rule is "Simple Acceptance"