

DTL REPORT NUMBER
091280011



Since 1903

DETROIT TESTING LABORATORY, INC.

PREPARED FOR
GRANUBAND MACON, INC.
612 BLEES INDUSTRIAL DRIVE
MACON, MO 63552

ATTENTION
BERT KOSTERS

CUSTOMER PURCHASE ORDER NUMBER
60620

REPORT DATE
JANUARY 5, 2010

DTL

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REPORTED / APPROVED BY:

DETROIT TESTING LABORATORY, INC.

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CERTIFICATION TEST PROGRAMS

Approved by: *David Splane*
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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)

Determine the maximum critical fall height of a one (1) inch rubber tile in accordance with ASTM F1292-04, Standard Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment.

TEST SEQUENCE

Testing was performed on 12/29/09.

SAMPLE DESCRIPTION

A total of nine (9) Granuband Rubber Tiles were presented for testing.



TESTING PERFORMED

IMPACT ATTENUATION

Procedure

Sample material, one (1) in. rubber tile, was tested to determine the maximum critical fall height at temperatures -6°C, 23°C, and 49°C. An impact test consists of three (3) impacts at the same impact site, at each temperature and height. Calculate the average HIC and G-max values using the second and third impact data.

Requirements

ASTM F1292-04, using an average of the last two (2) of three (3) impacts, no value shall exceed 200 G-max or 1000 HIC.

Conclusion

The maximum critical fall height of a one inch (1) in. rubber tile was determined to be two feet (2) ft.

SAMPLE DISPOSITION

The samples material will be retained by Detroit Testing Laboratory, Inc., for fifteen (15) days then disposed of at the discretion of DTL unless otherwise requested by County Conservation Company.



TEST EQUIPMENT

Detroit Testing Laboratory, Inc.'s calibration system meets the requirements of ISO 17025:2005.

DTL ID	Description	Manufacturer	Model	Calibration Due
System 2	Surface Impact Tester	Alpha Automation	Triax 2000	Verified prior to use
13046	Tri-axial accelerometer	Dytran	3014M2	06/10
12003	Reference Pad	Alpha Automation	N/A	NCR
13017	Hemispherical Missile	Alpha Automation	Per figure 1	02/10
10613	Micro P Display	Unimeasure	MR-0-JR-2MV13	02/10
10616	Pancake Load Cell	Sensotec	BL114DL30A	02/10
10633	Digital Thermometer	Omega	HHII	04/10
11820	Penetration Probe	Omega	88311	04/10
11476Z	Measurement Rod	Surveyors	1	10/10
EC106	Environmental Chamber	Thermotron	S-16 Mini-Max	01/10
EC133	Environmental Chamber	Cincinatti Sub Zero	ZS-16-3-H/WC	05/10

NCR – No Calibration Required

APPENDICES: Appendix A: Test Data

