



**TESTING SERVICES, INC.**  
817 SHOWALTER AVE. • P.O. BOX 2041  
DALTON, GEORGIA 30722-2041  
PHONE: (706) 226-1400 • FAX: (706) 226-6118

## TEST REPORT

**CLIENT:** Rubber Wholesalers  
PO Box 128  
Ranger GA 30734

**REPORT NUMBER:** 25588

**LAB TEST NUMBER:** 1462-7116

**DATE:** October 1, 2003

**INTRODUCTION:** A sample of *Rubber Walk Safety Surface* was submitted for testing by Mr. Terry Harris who represented the client. TSi was instructed to determine the drop height at which  $G_{max}$  would not exceed 200 nor HIC 1000 using the system and test method described below.

**TEST METHOD:** ASTM F 1292, *Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.*

**PROCEDURE:** Representative playground surface systems or surfacing material samples, or both, are tested according to ASTM Test Method F 355, Procedure C (metal head-form) at various drop heights and temperatures. The test method will determine the maximum drop height at which the  $G_{max}$  does not exceed 200. The testing was performed in a lab environment on an 18"x 18" sample. The data presented below represents the average of drops 2 & 3 in the same location which was below 200  $G_{max}$  and a Head Injury Criteria (HIC) of 1000 or less. The first drop was for conditioning and is not a part of the average. Additional tests were conducted on the system after conditioning to 30F and 120F for 4 hours.

### MATERIAL TESTED:

<b>Pad</b>	<i>Rubber Walk Safety Surface</i>
<b>Thickness</b>	3.0"
<b>Base</b>	Concrete

### TEST RESULTS:

Test Date	Time	Location	Temp.	Drop Ht.	Drop#2-g's/HIC	Drop#3-g's/HIC	Av. $G_{max}$ /HIC
9/30/03	3:15P	Lab	23C/72F	7'0"	149 / 948	148 / 961	149 / 955
10/1/03	1:17P	Lab	1C/30F	7'0"	146 / 948	148 / 959	147 / 954
10/1/03	4:32P	Lab	48C/120F	7'0"	149 / 977	151 / 986	150 / 982

\* Tests were conducted using TRIAX 2000® Equipment.

**Comment:** *The test results reported herein reflect the conditions of the tested system at the time and temperature reported.*

Testing Services Inc

Erle Miles, President

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## TEST REPORT

**CLIENT:** Rubber Wholesalers  
PO Box 128  
Ranger GA 30734

**REPORT NUMBER:** 25587

**LAB TEST NUMBER:** 1462-7114

**DATE:** October 1, 2003

**INTRODUCTION:** A sample of *Rubber Walk Safety Surface* was submitted for testing by Mr. Terry Harris who represented the client. TSi was instructed to determine the drop height at which  $G_{max}$  would not exceed 200 nor HIC 1000 using the system and test method described below.

**TEST METHOD:** ASTM F 1292, *Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.*

**PROCEDURE:** Representative playground surface systems or surfacing material samples, or both, are tested according to ASTM Test Method F 355, Procedure C (metal head-form) at various drop heights and temperatures. The test method will determine the maximum drop height at which the  $G_{max}$  does not exceed 200. The testing was performed in a lab environment on an 18"x 18" sample. The data presented below represents the average of drops 2 & 3 in the same location which was below 200  $G_{max}$  and a Head Injury Criteria (HIC) of 1000 or less. The first drop was for conditioning and is not a part of the average. Additional tests were conducted on the system after conditioning to 30F and 120F for 4 hours.

### MATERIAL TESTED:

Pad	<i>Rubber Walk Safety Surface</i>
Thickness	2.0"
Base	Concrete

### TEST RESULTS:

Test Date	Time	Location	Temp.	Drop Ht.	Drop#2-g's/HIC	Drop#3-g's/HIC	Av. $G_{max}$ /HIC
9/30/03	3:07P	Lab	23C/72F	5'0"	173 / 991	178 / 1010	176 / 1000
10/1/03	1:09P	Lab	1C/30F	5'0"	173 / 950	176 / 988	175 / 969
10/1/03	4:48P	Lab	48C/120F	5'0"	164 / 925	168 / 958	166 / 942

\* Tests were conducted using TRIAX 2000® Equipment.

**Comment:** *The test results reported herein reflect the conditions of the tested system at the time and temperature reported.*

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## TEST REPORT

**CLIENT:** Rubber Wholesalers  
PO Box 128  
Ranger GA 30734

**REPORT NUMBER:** 25586

**LAB TEST NUMBER:** 1462-7115

**DATE:** October 1, 2003

**INTRODUCTION:** A sample of *Rubber Walk Safety Surface* was submitted for testing by Mr. Terry Harris who represented the client. TSi was instructed to determine the drop height at which  $G_{max}$  would not exceed 200 nor HIC 1000 using the system and test method described below.

**TEST METHOD:** ASTM F 1292, *Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment*.

**PROCEDURE:** Representative playground surface systems or surfacing material samples, or both, are tested according to ASTM Test Method F 355, Procedure C (metal head-form) at various drop heights and temperatures. The test method will determine the maximum drop height at which the  $G_{max}$  does not exceed 200. The testing was performed in a lab environment on an 18"x 18" sample. The data presented below represents the average of drops 2 & 3 in the same location which was below 200  $G_{max}$  and a Head Injury Criteria (HIC) of 1000 or less. The first drop was for conditioning and is not a part of the average. Additional tests were conducted on the system after conditioning to 30F and 120F for 4 hours.

**MATERIAL TESTED:**

<b>Pad</b>	<i>Rubber Walk Safety Surface</i>
<b>Thickness</b>	2.5"
<b>Base</b>	Concrete


**TEST RESULTS:**

Test Date	Time	Location	Temp.	Drop Ht.	Drop#2-g's/HIC	Drop#3-g's/HIC	Av. $G_{max}$ /HIC
9/30/03	3:03P	Lab	23C/72F	6'0"	159 / 961	164 / 1022	162 / 992
10/1/03	1:13P	Lab	1C/30F	6'0"	158 / 965	159 / 962	159 / 964
10/1/03	4:40P	Lab	48C/120F	6'0"	158 / 980	161 / 1004	160 / 992

\* Tests were conducted using TRIAX 2000® Equipment.

**Comment:** *The test results reported herein reflect the conditions of the tested system at the time and temperature reported.*

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