



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



<b>CLIENT:</b>	International Mulch	<b>REPORT NUMBER:</b>	40167
	1 Mulch Lane	<b>LAB TEST NUMBER:</b>	1891-1982-1
	Bridgeton, MO 63044	<b>DATE:</b>	January 30, 2008

**Test Material**                    The following sample was submitted by the Client as: **2" Rubber Mat**

**Sub Base:**                        Concrete

**Date of Receipt:**                January 10, 2008

**Testing Period:**                 January 21, 2008

**Authorization:**                 Tim Miller

**Test Requested:**                The submitted sample was evaluated for Shock Absorbing Properties in Accordance with the procedures outlined in *ASTM F 1292-04, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.*

**Test Results:**                    Continued on the following pages ...

Prepared and signed by:

\_\_\_\_\_  
 Erle Miles, Jr. VP  
 Testing Services Inc.



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**Report #:** 40167  
**Date:** January 30, 2008  
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**Client:** International Mulch  
 1 Mulch Lane  
 Bridgeton, MO 63044

**Results:**

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**Sample:** 2" Rubber Mat over concrete  
**Tested Dimension:** 18" X 18" x 2"  
**Test Procedure:** ASTM F 1292-04  
**Impact Location:** Center of Sample  
**Missile:** ANSI C Hemispherical Headform in Crown Position  
 Total Drop Assembly Weight 4.6kg (10 lbs)  
**Test Equipment:** Triax 2000 Surface Impactor  
 Date of Last Calibration: 4/25/06 by Alpha Automation  
**Sample Pre-Condition:** 50±10% RH, 72F±5F for a minimum of 24 hrs prior to testing

<u>Temperature:</u>	<u>Maximum Drop Height That Gives a G<sub>max</sub> of 200 or Less and a HIC of 1000 or less</u>
Ambient, 72°F (23°C)	4'
Hot, 120°F (49°C)	Not Tested
Cold, 25°F (-3.89°C)	Not Tested
<b><u>Critical Fall Height (CFH):</u></b>	<b>4'</b>



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Client: International Mulch  
 1 Mulch Lane  
 Bridgeton, MO 63044

Results: \_\_\_\_\_

Temperature: 72°F 23°C

Sample Condition: Dry

Drop #	Velocity ft/sec	Angle	Drop Ht. / Actual	Drop Ht. / Theoretical	G <sub>max</sub>	HIC
1	14.4	4	3'	3.22'	106	403
2	14.5	3	3'	3.27'	112	460
3	14.5	7	3'	3.27'	111	436
Average			Drops 2,3		112	448

Drop #	Velocity ft/sec	Angle	Drop Ht. / Actual	Drop Ht. / Theoretical	G <sub>max</sub>	HIC
1	16.6	8	4'	4.28'	141	708
2	16.7	6	4'	4.33'	141	725
3	16.7	8	4'	4.33'	136	669
Average			Drops 2,3		139	697

Drop #	Velocity ft/sec	Angle	Drop Ht. / Actual	Drop Ht. / Theoretical	G <sub>max</sub>	HIC
1	18.3	3	5'	5.20'	171	1059
2	18.3	2	5'	5.20'	168	1040
3	18.4	1	5'	5.26'	169	1042
Average			Drops 2,3		169	1041

\*\*\*\* End of Report\*\*\*\*