

## ASTM F1292 Test Report

Date: November 7, 2007

There shall be one report for each play structure or functionally linked play structures and for each type of surface material. Each test shall comprise of a minimum of 3 impact locations per playspace or type of surfacing material with three drops from the same height to the same point. The report shall be descriptive enough to assist the user of the report in determining compliance with contracts and Standards. The CSA Z614-03 and the ASTM F1292 set minimum values as the Gmax shall not exceed 200 and the HIC shall not exceed 1000 from the drop height stipulated by the owner/operator prior to purchase.

Agency requesting the tests	Playground Site West Swings	Manufacturer/Supplier/Installer of Surface
Name KEO & Associates, Inc.	Name Adams/Butzel Playgrounds	Name EVERPLAY Installation Inc.
Address 18286 Wyoming Ave.	Address Lyndon	Address 18 Automatic Rd., Unit 12
City Detroit State MI	City Detroit State MI	City Brampton Prov ON
Zip 48221 Country USA	Zip/Postal Country	Postal L6S 5N5 Country Canada
Contact name Andrew Heffner	Contact City of Detroit	Contact name Henry Helps
Contact phone 313-340-5000	Contact phone 313-224-1109	Contact phone 416-410-3056

Date of test:	November 7, 2007	Name of test apparatus:	Triax2000
Description of surface(s):	Poured-in-place surface with EPDM top layer in red, yellow, green & blue		
Type:	Unitary	Product name:	EVERPLAY
Date installed:	October 2007	Critical height:	>8'
Thickness of surface material:	85mm	maximum:	100mm
minimum:	80mm	average:	85mm
Evenness (comment on wear patterns and disruption):			
Seams: location:	At colour changes	gaps and condition:	No
level across seams:	Yes		
Fasteners:	No	type:	Na
condition:			
Weather condition of test:	Cloudy and cool	frozen:	No
dry:	Yes	wet:	No
Surface condition:	New with some dirt and gravel on the surface from the construction site around the playground		
Temperature: ambient air:	45F	surface temperature taken 6" depth for loose fill or 1/2" depth for unitary:	49F
Other conditions or observations:			
Mats, walkways or ramps;	number:	condition:	requires impact test: yes/no
Pictures (file names); general playground	test locations:		

The drop height each test location shall be the greater of the critical height for the surface material, the fall height for the play structure as stated in the relevant playground Standard or the height specified by the owner/operator prior to purchase. The drop height is physically measured. The drops are performed from the same drop height to the same point on the surface.

Drop #	Drop height	Drop location in relation to structure	Picture	Velocity ft/sec	Gmax	HIC
1	7.9'	East side north swing bay	DSC8820	23.0	80	422
2				22.3	81	399
3				22.3	82	406
Av. 2&3					82	403
Drop #	Drop height	Drop location in relation to structure	Picture	Velocity	Gmax	HIC
1	7.9'	East side south swing bay	DSC8821	22.3	75	427
2				22.3	74	391
3				22.3	74	388
Av. 2&3					74	390
Drop #	Drop height	Drop location in relation to structure	Picture	Velocity	Gmax	HIC
1	7.9'	West side north swing bay	DSC8822	22.4	72	375
2				22.3	73	361
3				22.3	71	339
Av. 2&3					72	350

The results herein reflect the performance of the tested playground surface at the time of testing and at the temperature(s) and ambient conditions reported. Performance will vary with temperature, moisture content and other factors.

Test performed by:	Rolf Huber	Authorized signature:	
--------------------	------------	-----------------------	--