

## ASTM F1292 Test Report

Date: September 4, 2009

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 Marina Station 17	Manufacturer/Supplier/Installer of Surface
Name Norall Group	Name Paddle to the Sea	Name EVERPLAY Installation Inc.
Address 229 Pearl St., Suite 101	Address	Address 18 Automatic Rd., Unit 12
City Thunder Bay Prov Ont	City Nipigon State/Prov Ont	City Brampton State/Prov Ont
Postal P7B 1E3 Country	Zip/Postal Country	Zip/Postal L6S 5N5 Country
Contact name Carl Gustafson, P.Eng	Contact name	Contact name Henry Helps
Contact phone 807-346-0346	Contact phone	Contact phone 416-410-3056

Date of test:	25-8-09	Name of test apparatus:	Triax2000
Description of surface(s):	Poured in place EPDM surface		
Type:	Unitary	Product name:	EVERPLAY
Date installed:	August 2009	Critical height:	>2.5m
Thickness of surface material:	80mm	maximum:	100mm
Minimum:	80mm	average:	85mm
Evenness (comment on wear patterns and disruption):	Even across surface and colour changes and edges		
Seams: location:	gaps and condition:	level across seams:	
Fasteners:	type:	condition:	
Weather condition of test:	Clear and warm	frozen:	No
dry:	Yes	wet:	No
Surface condition:	New		
Temperature: ambient air:	24C	surface temperature taken 6" depth for loose fill or 1/2" depth for unitary:	32C
Other conditions or observations:			
Mats, walkways or ramps;	number:	condition:	requires impact test: yes/no
Pictures (file names); general playground	See each drop	test locations:	As directed by client

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 cm/sec	Gmax	HIC
1	2.35m	North side of high entrance	DSC3975	673	56	278
2				673	57	265
3				676	54	245
Av. 2&3					56	255
Drop #	Drop height	Drop location in relation to structure	Picture	Velocity	Gmax	HIC
1	2.35m	East side of track ride	DSC3976	676	72	359
2				676	75	366
3				673	75	348
Av. 2&3					75	357
Drop #	Drop height	Drop location in relation to structure	Picture	Velocity	Gmax	HIC
1	2.35m	West side of track ride	DSC3977	676	59	298
2				676	56	275
3				673	60	293
Av. 2&3					58	284

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:	
--------------------	------------	-----------------------	--