

ASTM F1292 Test Report

Date: September 21, 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 Swings | Manufacturer/Supplier/Installer of Surface |
| Name City of Calgary | Name University Playground | Name EVERPLAY Installation Inc. |
| Address Parks Development Division 88 | Address Utah Rd | Address 18 Automatic Rd., Unit 12 |
| City Calgary State/Prov AB | City Calgary State/Prov AB | City Brampton State/Prov ON |
| Zip/Postal T2P 2M5 Country | Zip/Postal Country | Zip/Postal L6S 5N5 Country |
| Contact name Wayne Baptist | Contact name | Contact name Henry Helps |
| Contact phone 403-221-3808 | Contact phone | Contact phone 416-410-3056 |

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| Date of test: | September 20, 2007 | Name of test apparatus: | Triax2000 current references |
| Description of surface(s): | Poured in place surface in green | | |
| Type: | Unitary | Product name: | EVERPLAY |
| Date installed: | September 07 | Critical height: | >11' |
| Thickness of surface material: | 110mm | maximum: | 120mm |
| Minimum: | 100mm | average: | 110mm |
| Evenness (comment on wear patterns and disruption): | Even across the entire area | | |
| Seams: location: | Some cracking | gaps and condition: | Slight at cracks |
| level across seams: | Yes | | |
| Fasteners: | None | type: | |
| condition: | | | |
| Weather condition of test: | Variable cloud and temperature | frozen: | No |
| dry: | Damp | wet: | Damp |
| Surface condition: | New | | |
| Temperature: ambient air: | 12C | surface temperature taken 6" depth for loose fill or 1/2" depth for unitary: | 13C |
| Other conditions or observations: | There is one crack at the swing post, which must be repaired | | |
| 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 cm/sec | Gmax | HIC |
|---------|-------------|--|---------|-----------------|------|-----|
| 1 | 2.65M | Top of swing support north side of toddle seat | DSC8352 | 260 | 104 | 620 |
| 2 | | | | 260 | 96 | 551 |
| 3 | | | | 260 | 101 | 568 |
| Av. 2&3 | | | | | 99 | 560 |
| Drop # | Drop height | Drop location in relation to structure | Picture | Velocity | Gmax | HIC |
| 1 | 2.65M | Top of swing support north side of belt swing | DSC8353 | 261 | 90 | 508 |
| 2 | | | | 261 | 92 | 513 |
| 3 | | | | 261 | 92 | 519 |
| Av. 2&3 | | | | | 92 | 516 |
| Drop # | Drop height | Drop location in relation to structure | Picture | Velocity | Gmax | HIC |
| 1 | 2.65 | Top of swing support south side of belt swings | DSC8354 | 261 | 81 | 483 |
| 2 | | | | 260 | 81 | 473 |
| 3 | | | | 261 | 82 | 483 |
| Av. 2&3 | | | | | 82 | 478 |

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.

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