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TEST REPORT

CLIENT: Sportexe
1809 Merrittville Hwy
Fonthill Ontario Canada LOS 1E6

TEST REPORT: 29491

LAB NUMBER: 1569-0654

DATE: January 24, 2005

INTRODUCTION: Mr. Jim Shinkel, representing the client , submitted *Momentum 41 Oz.* , a synthetic playground turf, for wheelchair accessibility testing. Submitted also was Rubber and Sand infill to be premixed and installed at 2.9-lb/ ft^2 Rubber and 1.25- lb/ft^2 Sand.

TEST METHOD: ASTM F 1951-99, *Standard Specification for Determination of Accessibility of Surface Under and Around Playground Equipment.*

REQUIREMENT: A surface in place shall have average work per foot (work per meter) values for straight propulsion and for turning ***less*** than the average work per foot (work per meter) values for straight propulsion and for turning, respectively, on a hard, smooth surface with a grade of 1:14 (7.1 %).

PROCEDURE: **Turf Surface Preparation:** Tests were conducted on 1/24/05 indoors at 68F and 37% R.H. The *Momentum 41 Oz.* was installed in a wooden box (44'' x 117"). The infill was premixed using 2.9 lb/ft^2 Rubber and 1.25 lb/ft^2 Sand . The system, prior to testing, was slightly compacted using a water-filled lawn roller to simulate foot traffic.

Wheelchair/Operator: The wheelchair used in these tests was manufactured by *Invcare,* model Action Xtra, serial Number 98J84142. This wheelchair is totally adjustable, a necessity for these tests. The pneumatic tires were inflated to 60 psi on the rear and 32 psi on the front. The weight of the wheelchair was 24.25 pounds and the operator's weight was 165 pounds for a total of 189 pounds. His weight distribution was adjusted to 60% on the rear wheels and 40 % on the front.

Torque Measuring System: A certified *Dillion Electronic Force Gauge*, Model BFG 500N, S/N 98-2277-07 was used as an interface between a *Dell* Laptop and a certified *Dillon Smart Torque Wrench*, S/N 97-0085-01. Software, also from Dillon, logged the load vs. time and integrated the area under the resulting curves. The adapters and accessories needed to attach the instrumentation were fabricated locally. This total package added 10 pounds to the total weight bringing the total to 199 pounds.

TEST RESULTS: See the accompanying data sheet recap and graph printouts.

CONCLUSION: **The *Momentum 41 Oz.* System described above met or exceeded the standard.**

Testing Services Inc

Erle Miles, President
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