

**REPORT NUMBER: 2211141-012**

Test Performed For:  
 Ambico Limited  
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 Ottawa, Ontario  
 Canada, K1J 7R8  
 (P) (613) 746-4663 x341  
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Test Performed By:  
 Bosik Technologies Limited  
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**TEST AND TEST MATERIAL IDENTIFICATION**

**Contract:** Contract Number 2211141

Purchase Order N/A

**Material Identification:** Panel Description  
 Ballistic Door Sample  
 Model Number N/A  
 Serial Number N/A  
 Size 18" x 18" x 1.75"

Lot Number N/A  
 Piece Number N/A  
 Panel Weight Dry (lbs.) 71.20  
 Panel Weight Wet (lbs.) N/A  
 Measured Thickness 1.771"  
 Date of Manufacture N/A  
 Date Tested October 10, 2013

**Laboratory Conditions:** Temperature (°C) 18  
 Relative Humidity (%) 44

Clay Calibration (mm) N/A  
 Target Base Line (m)  $V_1=1.51, V_2=1.01$

**Velocity Measurement Instrumentation:** 3 Oehler Model 57 Infrared Photoelectric Screens with Oehler Chronograph Model 30 (V1) and Hewlett Packard Model 5315A (V2) Universal Counter reading the bullet time of flight on a 2 and 1 metre distance.

**Firing Range:** Distance between the front face of the Test material and the muzzle of the test barrel **4.6 Meters**

**Test Barrel:** Calibre: .50 BMG Length: 45 inch Twist rate: 1-15 inch Manufacturer: H-S Precision

**Loading Components:** Case IVI .50 BMG Powder Hodgdon H870 Primer CCI 35 Bullet Manufacturer N/A

**Test Specification:**  $V_{proof}$  Ballistic Bullet-Resisting Equipment test in a dry condition in accordance with UL 752 Level X using .50 BMG (M2) 710 grain FMJ bullets with a velocity range between 856m/s and 942m/s and firing one shot located in the centre of the test article, with a corrugated cardboard witness plate (0.125") thick placed 18 inches behind the test specimen to determine penetration.

**BALLISTIC RESULTS**

Shot Number	Shot Load (grains)	Shot Angle (degrees)	Instrumentation Velocity (m/s) $[(V_1+V_2)/2]$	Penetration: Partial or Complete	Deformation Depth (mm)	Fair or Unfair Impact	Shot Counted (m/s)
1	238.6	0	877	Partial	N/A	Fair	877
2	260.5	0	959	Partial	N/A	Fair	959
3	250.4	0	940	Partial	N/A	Fair	940
Average velocity:							925

**Note:** Shot number, 3 was taken 1" from the edge.

Does this armour meet or exceed the specified requirements? **Yes**

Test Performed By: Daniel Lavallee

Test Results Checked By: Hailom Gebremeskel, B.Eng.