



Balistic Insert Plate FDBIVF-WD02 Commission Test

Test Report BJZ(2019) 1146

Name	Ballistic insert plate	Type	FDBIVF-WD02
Client	Black Mandrake Defense		
Address	Kopčianska 10, 85101 Bratislava, Slovakia	Telephone	+48 664 136 274
Manufacturer	Black Mandrake Defense	Test Sort	Commission Test
Test Date	Oct. 14, 2019	Brand	
Lot Number	201910	Sample Quantity	1
Sample Number	YP191014-7	Sample State	Good
Standard			
Test item	Bulletproof Performance		
Test Conclusion	Type FDBIVF-WD02 ballistic insert plate (sample), which is provided by Black Mandrake Defense has been tested by ball firing at normal temperature. The bulletproof performance conforms to the requirements of Level IV of Standard-0101.06 Ballistic Resistance of Body Armor. See the table and Figure 1-2.		
Remarks			



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Test place, environment (special requirement of environment) and test equipments	
Test place	Quality Supervision and Inspection Center for Special Production of China Ordnance Equipment
Test environment (special requirement of environment)	Indoor: temperature 22°C, humidity 42%RH
Test equipments	Universal standard Measure Tools Ballistic Analytic System (No. 328000212) Electro-balance (No.CSJL-00122) Testing weapon: 7.62mm ballistic trajectory gun Testing ammunition: type 53 7.62mm API (hand loads)
Character & Structure of sample	The sample is made of 10.0 mm aluminium oxide and 10.0mm PE plate.

Test Table of Type FDBIV-WD02 Ballistic Insert plate

Sample Number	Sample Weight (kg)	Protected Area (m ²)	Sample Condition	Shooting Distance (m)	Angle Incidence	Shooting Sequence	Muzzle Velocity (m/s)	Penetration	BFS	Depth
									Requirement (mm)	Measured Value (mm)
YP191014-7	3.08	0.072	Normal Temperature			1	877	NP	<44.0	19.8
						2	872	NP		23.4
						3	875	NP		22.9



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Figure 1 Impact Side

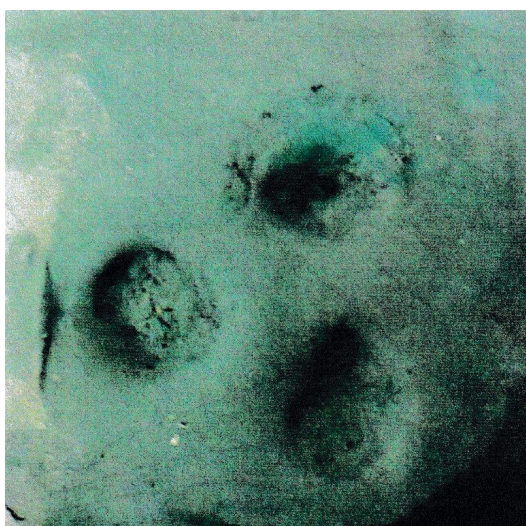


Figure 2 Backing Material