


# Schedule of Accreditation issued by United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>4515</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>Jordan Design and Development Bureau</b>  <b>Issue No: 018    Issue date: 07 June 2021</b>	
	<b>JODDB</b> <b>Jabal Amman</b> <b>PO Box 928125</b> <b>Amman 11190</b> <b>Jordan</b>	<b>Contact: Dr.Eng.Riyad Ratrout</b> <b>Head of Test and Evaluation</b> <b>Tel: + 962 (2) 6256024 ext. (5012)</b> <b>Fax: + 962 (2) 6256024</b> <b>E-Mail: dr.riyad@joddb.com</b> <b>Website: www.joddb.com</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

Locations covered by the organisation and their relevant activities are detailed on the following 2 pages

Location details	Activity	Location code
<b>Address</b> King Hussein Main Workshops JODDB Test and Evaluation Centre Ballistic Testing Facilities (BTF)	<b>Local contact</b> Dr Riyad Ratrout  Head of Weapons, Ammunition and Armor Testing  Tel: + 962 (2) 6256024 ext. (5012)  Fax:+ 962 (2) 6256024	JODDB Ballistic Testing Facility  Indoor Range
Ballistic Testing Facilities (BTF) Live Firing Range	E-Mail: dr.riyad@joddb.com  Website: www.joddb.com	JODDB Ballistic Testing Facility  Outdoor Range
Blast Testing Facilities (BTF) Live Firing Range	E-Mail: dr.riyad@joddb.com  Website: www.joddb.com	JODDB Blast Testing Facility  Outdoor Range



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<b>Address</b> King Hussein Main Workshops JODDB Test and Evaluation Centre Automotive Testing Facilities (ATF)	<b>Local contact</b> Eng. Osama Al-Madani  Head of Automotive Testing  Tel: + 962 (2) 6256024 ext. (2326)  Fax: + 962 (2) 6256024  E-Mail: omadni@joddb.com  Website: www.joddb.com	Automotive Testing	JODDB Automotive Testing Facility  Indoor
Automotive Testing Facilities (ATF) Test Track		Automotive Testing	JODDB Automotive Testing Facility  Outdoor

<b>Address</b> King Hussein Main Workshops JODDB Test and Evaluation Centre Electrical Testing Facilities (ETF)	<b>Local contact</b> Eng. Nidal Al-qawabah  Head of Electrical Testing  Tel: + 962 (2) 6256024 ext. (3083)  Fax: + 962 (2) 6256024  E-Mail: nqawabah@joddb.com  Website: www.joddb.com	Electrical Testing	JODDB Electrical Testing Facility
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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Military Armoured Vehicle and Single Plate and Engineered Targets	<p><b>Ballistic Resistance</b> Kinetic Energy “Multi-Hit” Test. Level 1 (5.56mmX45 M193/SS109&amp;7.62 M80) Level 2 (7.62mmX39 API BZ) Level 3 (7.62mmx54R B32 API &amp; 7.62 WC AP8) Level 4 (14.5mmX114 API/B32) Level 5 (25mmX137 APDS-T, APFSDS-T) Level 6 (30mmX165 API &amp; 30mmX173 NM225)</p>	<p><b>NATO STANAG 4569 Edition 2 (18 Dec 2012)</b> Protection levels for occupants of armoured vehicles - (KE-Threat) <b>NATO STANDARD AEP-55 (Vol.1 Edition C)</b></p>	<p>JODDB Ballistic testing facility Indoor Range</p>
	<p><b>Mine Blast Resistance</b> Occupant Survivability (Safety) Tests Crew Casualty /Injury Criteria of Vehicle Occupants GRENADE AND BLAST MINE THREAT LEVELS: <b>Level 4:</b> 4b - Mine Explosion under belly “10 kg (explosive mass) Blast AT Mine” 4a - Mine Explosion pressure activated under any wheel or track location “10 kg (explosive mass) Blast AT Mine” <b>Level 3:</b> 3b - Mine Explosion under belly “8 kg (explosive mass) Blast AT Mine” 3a - Mine Explosion pressure activated under any wheel or track location “8 kg (explosive mass) Blast AT Mine” <b>Level 2:</b> 2b - Mine Explosion under belly “6 kg (explosive mass) Blast AT Mine” 2a - Mine Explosion pressure activated under any wheel or track location “6 kg (explosive mass) Blast AT Mine” <b>Level 1:</b> Hand grenades, unexploded artillery fragmenting sub-munitions, and other small anti personnel explosive devices detonated anywhere under the vehicle.</p>	<p><b>NATO STANAG 4569 Edition 2 (18 Dec 2012)</b> Protection levels for occupants of armoured vehicles (grenade and blast mine threat) <b>NATO STANDARD AEP-55 (Vol.2 Edition 2)</b></p>	<p>JODDB Ballistic testing facility Outdoor Range</p>



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Special Protected Vehicles (Armored)	<p><b>Bullet-Resistance</b></p> <ul style="list-style-type: none"> <li>- VR 1</li> <li>- VR 2</li> <li>- VR 3</li> <li>- VR 4</li> <li>- VR 5</li> <li>- VR 6</li> <li>- VR 7</li> <li>- VR 8</li> <li>- VR 9</li> <li>- VR10</li> <li>- VR11</li> </ul>	Testing guideline special protected vehicles - standards, classifications and testing methods <b>VPAM - BRV 2009</b>	JODDB Ballistic testing facility  Indoor Range
Special Protected Vehicles (Blast Resistance)	<ul style="list-style-type: none"> <li>- <b>Side Blast Test</b></li> <li>- 4m from the test vehicle</li> <li>- 2m from the test vehicle</li> <li>- <b>Under Vehicle (Floor)</b></li> <li>- Dm51 Qty.1</li> <li>- Dm51 Qty.2</li> <li>- HG85 (CH) Qty.1</li> <li>- HG85(CH) Cty.2</li> <li>- DM31 (Surrogate) Qty.1</li> <li>- <b>Roof Protection</b></li> <li>- Dm51 Qty.1</li> <li>- Dm51 Qty.2</li> <li>- HG85 (CH) Qty.1</li> <li>- HG85(CH) Cty.2</li> </ul>	Special Protected Vehicle (Blast Resistance)  <b>VPAM ERV 2010</b> <b>STAND: 18.05.2011</b>	JODDB Blast Testing Facility  Outdoor Range
Civilian Armoured Vehicle	<ul style="list-style-type: none"> <li>- <b>Ballistic (BA) test method &amp; levels</b> BA-A / BA-B / BA-C BA-F / BA-G / BA-H / BA-J BA-L / BA-M / BA-N / BA-P / BA-SG</li> <li>- <b>Fragment (FR) test method &amp; levels</b> FR-A / FR-B / FR-C / FR-D FR-E / FR-F</li> <li>- <b>Side blast (SB) test method &amp; levels</b> SB-A / SB-B / SB-C / SB-D / SB-E</li> <li>- <b>Under vehicle (UB) blast test method &amp; levels</b> UB-A / UB-B</li> <li>- <b>Roof blast (RB) test method &amp; levels</b> RB-A / RB-B</li> </ul>	<b>PAS 300:2015</b> Civilian armoured vehicle – Test methods for ballistic and blast protection	JODDB Ballistic Testing Facility  Indoor Range



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Ballistic Helmets	<b>Ballistic Penetration</b> – Type I – Type II-A – Type II – Special Type <b>Ballistic Impact Attenuation</b> – Type I – Type II-A – Type II Special Type	<b>NIJ Standard 0106.01</b> for Ballistic Helmets.	JODDB Ballistic testing facility  Indoor Range
Personal Body Armor (Flexible Vests and Jackets, Hard Armors and Plate Inserts)	<b>Ballistic Penetration and Backface Signature Test (P-BFS)</b> – Type IIA – Type II – Type IIIA – Type III – Type IV Special Type	<b>NIJ Standard–0101.04</b> Ballistic Resistance of Personal Body Armor	JODDB Ballistic testing facility  Indoor Range
Personal Body Armor (Flexible Vests and Jackets, Hard Armors and Plate Inserts)	<b>Baseline Ballistic Limit</b> – Type I – Type IIA – Type II – Type IIIA – Type III – Type IV Special Type	<b>NIJ Standard–0101.04</b> Ballistic Resistance of Personal Body Armor	JODDB Ballistic testing facility  Indoor Range
Personal Body Armor (Flexible Vests and Jackets, Hard Armors and Plate Inserts)	<b>Perforation and Backface Signature Test (P-BFS)</b> – Type IIA – Type II – Type IIIA – Type III – Type IV Special Type	<b>NIJ Standard–0101.06</b> Ballistic Resistance of Body Armor	JODDB Ballistic testing facility  Indoor Range



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Personal Body Armour (Flexible Vests and Jackets, Hard Armors and Plate Inserts)	<b>Ballistic Limit (BL) Determination</b> – Type IIA – Type II – Type IIIA – Type III – Type IV Special Type	<b>NIJ Standard–0101.06</b> Ballistic Resistance of Body Armor	JODDB Ballistic testing facility  Indoor Range
Stab Resistant Body Armor System	Stab Resistant Protection Level Strike Energies  Engineered Knife Blade P1/S1 & Engineered Spike  “E1” Strike Energy  Level 1 (Low Threats: 24 ± 0.5 J)  Level 2 (Medium Threats: 33 ± 0.6 J)  Level 3 (High Threats: 43 ± 0.6 J)  “E2” Over Test Strike Energy  Level 1 (Over test condition: 36 ± 0.60 J)  Level 2 (Over test condition: 50 ± 0.70 J)  Level 3 (Over test condition: 65 ± 0.80 J)	<b>NIJ Standard–0115.00</b> September 2000  Stab Resistance of Personal Body Armor	JODDB Ballistic Testing Facility  Indoor Range



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Personal Armour  (Hard Armour, Soft Armour, Helmets, Face and Eye Protection System)	Protection Against:  Bullets Threats "KE" and Fragmentation Threats "FSP"  <b>KE Threat:</b>  A, Lead Core Projectiles (A1, A2, A3, A5 & A Special)  B, Mild Steel Core Projectiles (B2, B3, B4, B5 & B Special)  C, Hardened Steel Core Projectiles (C4, C5, C6, C7 & C Special)  D, Tungsten Cobalt (WC) Core Projectiles (D1, D3, D5 & D Special)  <b>FSP Threat:</b>  C.1, Chisel Nose Cylinders Fragments (F1, F2, F3, F4, F5 & F6)  C.2, Chisel Nose Cylinders Fragments (G5, G6, G8 & G9)  C.3, Right Circular Cylinders Fragments (R1, R2, R3, R4, R5, R6 & R7)	<b>STANAG 2920</b> (Edition 3) / June 2015  CLASSIFICATION OF PERSONAL ARMOUR  <b>NATO AEP-2920</b> (Edition A Version 1)/June 2015  PROCEDURES FOR THE EVALUATION AND CLASSIFICATION OF PERSONAL ARMOUR  (BULLET AND FRAGMENTATION THREATS)	JOddb Ballistic Testing Facility  Indoor Range



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Glass in Building Security Glazing (Armoured)	<p><b>Resistance Against Bullet Attack</b></p> <ul style="list-style-type: none"> <li>- BR1</li> <li>- BR2</li> <li>- BR3</li> <li>- BR4</li> <li>- BR5</li> <li>- BR6</li> <li>- BR7</li> <li>- SG1</li> <li>- SG2</li> </ul>	<p><b>EN 1063: 2000</b> Glass in building-Security glazing-Testing and classification of resistance against bullet attack.</p>	<p>JODDB Ballistic testing facility  Indoor Range</p>
Glass and Glazing system (Armoured)	<p>Classification of bullet-resistance Handguns, Rifles, Shotguns &amp; Open Class</p> <ul style="list-style-type: none"> <li>- HG1</li> <li>- HG2</li> <li>- HG3</li> <li>- R1</li> <li>- R2</li> <li>- SG1</li> <li>- SG2</li> <li>- SG3</li> <li>- Open class</li> </ul>	<p><b>ISO 16935:2007</b> Glass in building .— Bullet-resistant security glazing .— Test and classification</p> <p>Testing the bullet-resistance of glazing at extreme temperatures.</p> <p>(Within the range: - 20 °C to + 40 °C)</p>	<p>JODDB Ballistic testing facility  Indoor Range</p>





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Windows, Doors, Shutters and Blinds (Armoured)	<p><b>Bullet Resistance</b></p> <ul style="list-style-type: none"> <li>- FB1</li> <li>- FB2</li> <li>- FB3</li> <li>- FB4</li> <li>- FB5</li> <li>- FB6</li> <li>- FB7</li> <li>- FSG</li> <li>- Ammunition (Other Type &amp; Calibres)</li> </ul>	<p><b>BS EN 1522 : 1999</b> Windows, doors, shutters and blinds- Bullet Resistance- Requirements and classification.</p> <p><b>BS EN 1523 :1999</b> Windows, doors, shutters and blinds Bullet resistance - Test method.</p>	<p>JODDB Ballistic testing facility</p> <p>Indoor Range</p>
Protective Materials (Metals, Ceramics, Transparent Glazing, Fabric, and Fabric-Reinforced Plastics)	<p><b>Ballistic Resistance</b></p> <ul style="list-style-type: none"> <li>- Type I</li> <li>- Type IIA</li> <li>- Type II</li> <li>- Type III-A</li> <li>- Type III</li> <li>- Type IV</li> <li>- Special Requirement</li> </ul>	<p><b>NIJ Standard 0108.01</b> for Ballistic Resistant Protective Materials.</p>	<p>JODDB Ballistic testing facility</p> <p>Indoor Range</p>



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Plate Materials (Armoured)	<b>Triangle Shooting</b> – Class 1 – Class 2 – Class 3 – Class 4 – Class 5 – Class 6 – Class 7 – Class 8 – Class 9 – Class 10 – Class 11	TEST GUIDELINE, Bullet Resistant Plate Materials <b>VPAM PM 2007</b> , Edition: 2008-05-08.	JODDB Ballistic testing facility  Indoor Range
Plate Materials (Armored)	<b>Calculation of Ballistic Limit V50</b> – Class 1 – Class 2 – Class 3 – Class 4 – Class 5 – Class 6 – Class 7 – Class 8 – Class 9 – Class 10 – Class 11	Test guideline, Bullet Resistant Plate Materials <b>VPAM PM 2007</b> , Edition: 2008-05-08.	JODDB Ballistic testing facility  Indoor Range



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Plate Materials (Armored)	<p><b>Multi-Hit Test</b></p> <ul style="list-style-type: none"> <li>- Class 1</li> <li>- Class 2</li> <li>- Class 3</li> <li>- Class 4</li> <li>- Class 5</li> <li>- Class 6</li> <li>- Class 7</li> <li>- Class 8</li> <li>- Class 9</li> <li>- Class 10</li> <li>- Class 11</li> </ul>	Test guideline, Bullet Resistant Plate Materials <b>VPAM PM 2007</b> , Edition: 2008-05-08.	<p>JODDB Ballistic testing facility</p> <p>Indoor Range</p>
Logistic and Light Armored Vehicles (Single Plate Targets) / Glass	<p><b>Ballistic Resistance</b> Kinetic Energy Only "Partial" Using Non-Fragmenting Ammunition.</p> <ul style="list-style-type: none"> <li>- Level 1</li> <li>- Level 2</li> <li>- Level 3</li> </ul>	<p><b>STANAG 4569</b> Land (Edition 2) - Protection Levels for Occupants of Logistic and Light Armoured Vehicles</p> <p><b>Aep-55, Volume 1</b> Edition 2 Procedures for Evaluating the Protection Level of Logistic and Light Armoured Vehicles</p>	<p>JODDB Ballistic testing facility</p> <p>Indoor Range</p>



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NATO Weapons & Ammunition of Calibers 5.56 mm , 7.62 mm, 9mm, 12.7 mm		<b>NATO STANDARD / AEP-97</b> Edition A Version 1 / 14 Feb 2014 MULTI CALIBRE MANUAL OF PROOF AND INSPECTION (M-C MOPI) for 5.56 mm, 7.62 mm, 9 mm and 12.7 mm Ammunition	JODDB Ballistic testing facility  Indoor Range
	Bullet Extraction	M-C MOPI Section No. 25 of <b>AEP-97Ed.A</b>	
	Primer Sensitivity	M-C MOPI Section No. 24 of <b>AEP-97Ed.A</b>	
	Waterproof	M-C MOPI Section No. 27 of <b>AEP-97Ed.A</b>	
	Combination Electronic Pressure , Velocity & Action Time (EPVAT)	M-C MOPI Section No. 12 of <b>AEP-97Ed.A</b>	
	Precision	M-C MOPI Section No. 18 of <b>AEP-97Ed.A</b>	
	Function and Casualty	M-C MOPI Section No. 14 of <b>AEP-97Ed.A</b>	
	Trajectory Match Test using target simulation	M-C MOPI Section No. 20 of <b>AEP-97Ed.A</b>	
	Residual Stress Test	M-C MOPI Section No. 23 of <b>AEP-97Ed.A</b>	
	Terminal Effects Test	M-C MOPI Section No. 19 of <b>AEP-97Ed.A</b>	
	Smoke and Flash Test	M-C MOPI Section No. 17 of <b>AEP-97Ed.A</b>	
Link Test	M-C MOPI Section No. 15 of <b>AEP-97Ed.A</b>		



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C.I.P. Small Arms Ammunition	<ul style="list-style-type: none"> <li>- Pressure measurements</li> <li>- Velocity</li> <li>- Kinetic energy</li> </ul>	<b>C.I.P.</b> Permanent International Commission for the Proof of Small-arms / Comprehensive Edition of Adopted C.I.P. Decisions / Edition 2011.	JODDB Ballistic testing facility  Indoor Range
Auto-loading Pistols For Police Officers	<ul style="list-style-type: none"> <li>- Visual Inspection</li> <li>- Dimensional</li> <li>- Function</li> <li>- Firing</li> <li>- Drop Safety</li> <li>- Drop Function</li> </ul>	<b>NIJ Standard-0112.03</b> Autoloading Pistols For Police Officers	JODDB Ballistic testing facility  Indoor Range
Pistol, Semi automatic, Compact, 9 mm	<ul style="list-style-type: none"> <li>- Headspace</li> <li>- Trigger Pull</li> <li>- High Pressure Resistance</li> <li>- Functioning</li> <li>- Accuracy and Dispersion</li> <li>- Reliability</li> <li>- Durability</li> <li>- Safety</li> <li>- Maintainability</li> <li>- Environmental (High Temperature)</li> <li>- Environmental (Low Temperature)</li> <li>- Rough Handling</li> </ul>	<b>MIL-P-71012A(AR)</b> MILITARY SPECIFICATION PISTOL, SEMIAUTOMATIC, COMPACT, 9 MM	JODDB Ballistic testing facility  Indoor Range



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Carbine, 5.56 mm	<ul style="list-style-type: none"><li>- Firing Pin Indents</li><li>- Trigger Pull</li><li>- High Pressure Resistance</li><li>- Function Firing</li><li>- Cyclic Rate of Fire</li><li>- Targeting and Accuracy</li><li>- Endurance</li></ul>	<b>MIL-DTL-71186A</b> DETAIL SPECIFICATION CARBINE, 5.56 MILLIMETER	JODDB Ballistic testing facility  Indoor Range
Machine Gun, 7.62 mm	<ul style="list-style-type: none"><li>- Headspace</li><li>- Firing Pin Indent</li><li>- Trigger Pull</li><li>- High Pressure Resistance</li><li>- Functioning</li><li>- Targeting and Accuracy</li><li>- Endurance</li><li>- Reliability</li></ul>	<b>MIL-M-45013E (AR)</b> Military Specification Machine Gun, 7.62 mm	JODDB Ballistic testing facility  Indoor Range



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Gun, Machine; Caliber 0.50	<ul style="list-style-type: none"> <li>- Headspace</li> <li>- Timing</li> <li>- Firing Pin Release</li> <li>- Firing Pin Indent</li> <li>- High Pressure Resistance</li> <li>- Functioning</li> <li>- Belt pull</li> <li>- Cyclic Rate of Fire</li> <li>- Targeting and Accuracy</li> <li>- Endurance</li> <li>- Barrel Erosion</li> </ul>	<b>MIL-DTL-001298D (AR)</b> Detail Specification Gun, Machine; Caliber .50, Browning, M2, Heavy Barrel	JODDB Ballistic testing facility  Indoor Range
12-Gauge Shotguns	<ul style="list-style-type: none"> <li>- Visual Inspection Test</li> <li>- Dimensional Measurement Test</li> <li>- Functional Tests</li> <li>- Safety Test</li> <li>- Firing Tests</li> <li>- Drop-Safety Test</li> <li>- Drop-Function Test</li> </ul>	12-Gauge Shotguns for Police Use <b>NIJ Standard-0113.00</b>	JODDB Ballistic testing facility  Indoor Range



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Shotguns	<ul style="list-style-type: none"> <li>- Dimensions Test</li> <li>- Proof of the Weapons Test</li> </ul>	<b>C.I.P.</b> Permanent International Commission for the Proof of Small-arms / Comprehensive Edition of Adopted C.I.P. Decisions / Edition 2011. / "Testing of Smoothbore Weapons - C.I.P. Calibre 12 Gauge	JODDB Ballistic testing facility  Indoor Range
Shot Cartridges	Dimensions to Check Test. Maximum Average Pressure Test.	<b>C.I.P.</b> Permanent International Commission for the Proof of Small-arms / Comprehensive Edition of Adopted C.I.P. Decisions / Edition 2011. / "Testing of Ammunition for Smoothbore Firearms - C.I.P. Calibre 12 Gauge"	JODDB Ballistic testing facility  Indoor Range
Military 9mm Ammunition - XM882	<ul style="list-style-type: none"> <li>- Bullet Extraction</li> <li>- Residual Stress</li> <li>- Waterproofness</li> <li>- Accuracy</li> <li>- Function &amp; Casualty</li> <li>- Chamber Pressure and Velocity</li> <li>- Primer Sensitivity</li> </ul>	<b>MIL-C-70508</b>	JODDB Ballistic testing facility  Indoor Range





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Military 5.56mm Ammunition - M855	<ul style="list-style-type: none"> <li>- Bullet Extraction</li> <li>- Residual Stress</li> <li>- Waterproofness</li> <li>- Penetration</li> <li>- Accuracy</li> <li>- Matching</li> <li>- Function &amp; Casualty</li> <li>- Velocity, chamber pressure, port pressure</li> </ul>	<b>MIL-C-63989</b>	JODDB Ballistic testing facility  Indoor Range
Military 7.62mm Ammunition - M80	<ul style="list-style-type: none"> <li>- Bullet Extraction</li> <li>- Residual Stress</li> <li>- Waterproofness</li> <li>- Accuracy</li> <li>- Function &amp; Casualty</li> <li>- Velocity, chamber pressure, port pressure</li> </ul>	<b>MIL-C-46931F</b>	JODDB Ballistic testing facility  Indoor Range



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Military 12.7mm Ammunition - M33	<ul style="list-style-type: none"> <li>- Bullet Extraction</li> <li>- Residual Stress</li> <li>- Waterproofness</li> <li>- Accuracy</li> <li>- Function &amp; Casualty</li> <li>- Chamber pressure</li> <li>- Initial Inspection Test (Excluding spring tests)</li> <li>- Cookoff Test</li> <li>- Reliability and Durability Test</li> <li>- Accuracy and Dispersion Test</li> </ul>	<b>MIL-C-10190D</b>	JODDB Ballistic testing facility  Indoor Range
Small Arms - Hand and Shoulder Weapons and Machineguns	<ul style="list-style-type: none"> <li>- Adverse Conditions (Extreme Temperature - High T. Test up to +52 C)</li> <li>- Adverse Conditions (Humidity Test)</li> <li>- Adverse Conditions (Water Spray (rain) Test)</li> <li>- Flash Test</li> <li>- Smoke Test</li> <li>- Rough Handling Test</li> <li>- Barrel Performance Test</li> <li>- Ammunition Compatibility Test</li> <li>- Accessory Compatibility Test</li> <li>- Logistic Supportability Test</li> <li>- Post-Fire Inspection Test Excluding spring tests)</li> <li>- Proof Firing Test</li> <li>- Parts Interchange Test</li> </ul>	<b>TOP 3-2-045</b> 17 September 2007  Test Operations Procedure - Small Arms - Hand and Shoulder Weapons and Machineguns	JODDB Ballistic testing facility  Indoor Range



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Ballistic testing of bullet-resisting equipment and materials Non-metallic Material Metallic Material Materials  Assemblies:  Gun Ports Speaking Apertures  Deal trays and package passers  Intercommunication systems  Barriers  Building components	<b>THREAT LEVELS:</b>  <b>Level 1</b> (9 mm full metal copper jacket with lead core, 124 Grain)  <b>Level 2</b> (.357 Magnum jacketed lead soft point, 158 Grain)  <b>Level 3</b> (.44 Magnum lead semi-wadcutter gas checked, 240 Grain)  <b>Level 4</b> (.30 caliber rifle lead core soft point, 180 Grain)  <b>Level 5</b> (7.62 mm Rifle lead core full metal copper jacket, military ball, 150 Grain)  <b>Level 6</b> (9 mm full metal copper jacket with lead core, 124 Grain)  <b>Level 7</b> (5.56 mm Rifle full metal copper jacket with lead core, 55 Grain)  <b>Level 8</b> (7.62 mm Rifle lead core full metal copper jacket, military ball, 150 Grain)  <b>Level 9</b> (Armor piercing .30 caliber Rifle steel core lead point filler full metal jacket, 166 Grain) <b>Level 10</b> (.50 caliber rifle lead core full metal copper jacket, military ball, 709.5 Grain)  <b>Supplementary Shotgun:</b> 12-Gauge rifled lead slug, 437 Grain and 00 lead buckshot (12 pellets), 650 Grain  <b>Special Type:</b> as supplied or defined by the customer	<b>UL 752 Edition 11</b> Bullet resisting equipment	JODDB Ballistic testing facility  Indoor Range



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Individual Weapons / Light - Medium - Heavy Support Weapons Testing:	Firing Tests Carried out under Non-normal Operational Conditions: -	<b>NATO M-C MOPI ACC225 NATO UNCLASSIFIED</b>	JODDB Ballistic testing facility  Indoor Range
Handguns	- Cold Test	Releasable to IP and Singapore (152 - 221)	
Submachineguns	- High Temperature Test		
Assault Rifles	- Temperature & Humidity Test		
Precision Rifles	- Mud Test		
Machine Guns	- Dynamic Sand & Dust Test		
Grenade Launchers	- Accelerated Water Spray Test		
Shotguns	- Safety Drop Test: 1.5 Meter (5 Feet) - Cook-Off and Barrel Heating Test		



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<p>Wheeled vehicle A limit of 4x4 vehicle with max weight 2000kg</p> <p>Tracked vehicle</p>	<p><b>Gradeability and side slope performance</b> <b>4.1 Longitudinal Grade Performance</b> 4.1.1 Braking system grade holding ability 4.1.2 Vehicle engine and transmission performance</p> <p><b>4.2 Side Slope performance</b> 54m track length</p> <p><b>Standard Obstacles</b> 5.1 Bridging 5.2 Wall climbing</p> <p><b>Wheeled vehicle centre of gravity</b> 4.4 Weight Method</p> <p><b>Weight Distribution and Ground Pressure</b> 4.1 Weight Distribution Test</p>	<p><b>TOP 02-2-610</b> <b>03 December 2009</b> Gradeability and side slope performance</p> <p><b>TOP 2-2-611</b> <b>25 June 1980</b> Standard Obstacles</p> <p><b>TOP 2-2-800</b> <b>31 December 1993</b> Wheeled vehicle centre of gravity</p> <p><b>TOP 2-2-801</b> <b>7 August 1981</b> Weight Distribution and Ground Pressure</p>	<p>JODDB Automotive Testing Facility</p> <p>Outdoor</p> <p>JODDB Automotive Testing Facility</p> <p>Indoor</p>
<p><b>Motor vehicle wheeled/ Vehicle of category: M:</b> Motor vehicles having at least four wheels or having ' three wheels when the maximum weight exceeds 1 metric ton, and used for the carriage of passengers</p> <p><b>Motor vehicle wheeled/ Vehicle of category: N:</b> Motor vehicles having at least four wheels or having three wheels when the maximum weight exceeds 1 metric ton, and used for the carriage of goods.</p>	<p>Braking Test And Performance Of Braking Devices Type O test with engine disconnected (ordinary performance with brakes cold).</p>	<p>COUNCIL DIRECTIVE of 26 July 1971 <b>(71/320/EEC) Annex II /section 1.2.).</b></p>	<p>JODDB Automotive Testing Facility</p> <p>Outdoor</p>



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Enclosures for electrical equipment with a rated voltage not exceeding 1 000 V ac. and 1 500 V dc.)	<p><b>IP4X:</b> protection of persons against access to hazardous parts inside the enclosure.</p> <p><b>IP4X:</b> protection of the equipment inside the enclosure against ingress of solid foreign objects.</p> <p><b>IP5X:</b> protection of persons against access to hazardous parts inside the enclosure.</p> <p><b>IP5X:</b> protection of the equipment inside the enclosure against ingress of solid foreign objects for enclosures <i>category 2</i>.</p> <p><b>IPX7:</b> Protection of the equipment inside the enclosure against harmful effects due to the ingress of water.</p>	<p>Degrees of protection provided by enclosures (IP Code)</p> <p><b>IEC 60529</b> 2013-08 Edition 2.2</p>	JODDB Electrical Testing Facility

END