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Testing performed by the Organisation at the locations specified below

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

Location details		Activity	Location code
Address King Hussein Main Workshops JODDB Test and Evaluation Centre Ballistic Testing Facilities (BTF)	Local contact Eng. Issa Rawashdeh Head of Weapons, Ammunition and Armor Testing Tel: + 962 (2) 6256024 ext. (5014) Eax:+ 962 (2) 6256024	Ballistics Testing	JODDB Ballistic Testing Facility Indoor Range
Ballistic Testing Facilities (BTF) Live Firing Range	E-Mail: irawashdeh@joddb.com	Ballistics Testing	JODDB Ballistic Testing Facility Outdoor Range
Blast Testing Facilities (BTF) Live Firing Range	www.joddb.com	Blast Firing	JODDB Blast Testing Facility Outdoor Range



Location details		Activity	Location code
Address King Hussein Main Workshops JODDB Test and Evaluation Centre Automotive Testing Facilities (ATF)	Local contact Eng. Osama Al-Madani Head of Automotive Testing Tel: + 962 (2) 6256024 ext. (2326) Fax:+ 962 (2) 6256024	Automotive Testing	JODDB Automotive Testing Facility Indoor
Automotive Testing Facilities (ATF) Test Track	E-Mail: omadni@joddb.com Website: www.joddb.com	Automotive Testing	JODDB Automotive Testing Facility Outdoor
Address King Hussein Main Workshops JODDB Test and Evaluation Centre Electrical Testing Facilities (ETF)	Local contact 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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Testing performed by the Organisation at the locations specified

Materials/Products tested Type of test/Properties measured/Range of Standard specifications/ Location Equipment/Techniques measurement Code used Military Armoured NATO STANAG 4569 JODDB **Ballistic Resistance** Vehicle Edition 2 (18 Dec 2012) Ballistic Kinetic Energy "Multi-Hit" Test. and Single Plate and testina Level 1 Protection levels for **Engineered Targets** facility Level 2 occupants of armoured Level 3 vehicles - (KE-Threat) Indoor Level 4 NATO STANDARD Range Level 5 AEP-55 (Vol.1 Edition C) Level 6 Mine Blast Resistance NATO STANAG 4569 Occupant Survivability (Safety) Tests Crew Edition 2 (18 Dec 2012) Casualty /Injury Criteria of Vehicle Occupants JODDB Protection levels for GRENADE AND BLAST MINE THREAT Ballistic occupants of armoured LEVELS: testing vehicles (grenade and facility blast mine threat) Level 4: 4b - Mine Explosion under belly "10 kg Outdoor (explosive mass) Blast AT Mine" NATO STANDARD Range AEP-55 (Vol.2 Edition 2) 4a - Mine Explosion pressure activated under any wheel or track location "10 kg (explosive mass) Blast AT Mine" Level 3: 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" Level 2: 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" Level 1: Hand grenades, unexploded artillery fragmenting sub-munitions, and other small anti personnel explosive devices detonated

anywhere under the vehicle.

DETAIL OF ACCREDITATION



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Special Protected Vehicles (Armored) Ballistic Shelters and Guard Rooms	Bullet-Resistance - VR 1 & SR 1 - VR 2 & SR 2 - VR 3 & SR 3 - VR 4 & SR 4 - VR 5 & SR 5 - VR 6 & SR 6 - VR 7 & SR 7 - VR 8 & SR 8 - VR 9 & SR 9 - VR10 & SR 10	Testing guideline special protected vehicles - standards, classifications and testing methods VPAM-BRV Edition 3 Version: 15 March 2021 – levels defined in VPAM- APR 2006, VPAM BSR 2020	JODDB Ballistic testing facility Indoor Range
Special Protected Vehicles (Blast Resistance)	 Side Blast Test 4m from the test vehicle 2m from the test vehicle Under Vehicle (Floor) Dm51 Qty.1 Dm51 Qty.2 HG85 (CH) Qty.1 HG85(CH) Cty.2 DM31 (Surrogate) Qty.1 Roof Protection Dm51 Qty.1 Dm51 Qty.2 HG85 (CH) Qty.1 HG85 (CH) Qty.1 	Special Protected Vehicle (Blast Resistance) VPAM ERV 2010 STAND: 18.05.2011	JODDB Blast Testing Facility Outdoor Range
Civilian Armoured Vehicle	 Ballistic (BA) test method & levels BA-A / BA-B / BA-C BA-F / BA-G / BA-H / BA-J BA-L / BA-M / BA-N / BA-P / BA-SG Fragment (FR) test method & levels FR-A / FR-B / FR-C / FR-D FR-E / FR-F Side blast (SB) test method & levels SB-A / SB-B / SB-C / SB-D / SB-E Under vehicle (UB) blast test method & levels UB-A / UB-B Roof blast (RB) test method & levels RB-A / RB-B 	PAS 300:2018 Civilian armoured vehicle – Test methods for ballistic and blast protection	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
Ballistic Helmets	Ballistic Penetration – Type I – Type II-A – Type II – Special Type Ballistic Impact Attenuation – Type I – Type II-A – Type II – Special Type	NIJ Standard 0106.01 for Ballistic Helmets. VPAM HVN 2009 Status 04.04.2017 Bullet Resistance Anchorage Points Residual Energy VPAM - APR 2006 levels defined in VPAM- APR 2006	JODDB Ballistic testing facility Indoor Range
Personal Body Armor (Flexible Vests and Jackets, Hard Armors and Plate Inserts) Male and Female	Ballistic Penetration and Backface Signature Test (P-BFS) – Type IIA – Type II – Type IIIA – Type III – Type IV Special Type	NIJ Standard–0101.04 Ballistic Resistance of Personal Body Armor VPAM BSW 2006 Stand: 14.05.2009 levels defined in VPAM- APR 2006	JODDB Ballistic testing facility Indoor Range
Personal Body Armor (Flexible Vests and Jackets, Hard Armors and Plate Inserts) Male and Female	Baseline Ballistic Limit – Type I – Type IIA – Type II – Type IIIA – Type III – Type IV Special Type	NIJ Standard–0101.04 Ballistic Resistance of Personal Body Armor VPAM BSW 2006 Stand: 14.05.2009 levels defined in VPAM- APR 2006	JODDB Ballistic testing facility Indoor Range
Personal Body Armor (Flexible Vests and Jackets, Hard Armors and Plate Inserts) Male and Female	Perforation - Backface Signature (P-BFS) and Deformation (P-BFD) tests. – Type IIA & BL Test Level 1 (NIJ HG1) – Type II & BL Test Level 2 (NIJ HG2) – Type IIIA & BL Test Level 3 (NIJ RF1) – Type III & BL Test Level 4 (NIJ RF2) – Type IV & BL Test Level 5 (NIJ RF3) – Special Type	NIJ Standard–0101.06 Ballistic Resistance of Body Armor VPAM BSW 2006 Stand: 14.05.2009 levels defined in VPAM- APR 2006 NIJ Standard–0101.07 Ballistic Resistance of Body Armor	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
Composite Armour	Ballistic Deformation Test V50 Ballsitic Limit Protection Test	MIL-PRF-46103E 6 January 1998 NIJ Standard–0101.06	JODDB Ballistic testing facility
Personal Body Armour (Flexible Vests and Jackets, Hard Armors and Plate Inserts) Male and Female	Ballistic Limit (BL) Determination – Type IIA & BL Test Level 1 (NIJ HG1) – Type II & BL Test Level 2 (NIJ HG2) – Type IIIA & BL Test Level 3 (NIJ RF1) – Type III & BL Test Level 4 (NIJ RF2) – Type IV & BL Test Level 5 (NIJ RF3) – Special Type	NIJ Standard–0101.06 Ballistic Resistance of Body Armor NIJ Standard–0101.07 Ballistic Resistance of Body Armor VPAM BSW 2006 Stand: 14.05.2009 levels defined in VPAM- APR 2006	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)	NIJ Standard-0115.00 March 2020 Stab Resistance of Personal Body Armor	JODDB Ballistic Testing Facility Indoor Range



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Materials/Products tested Type	e of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Personal ArmourProtection(Hard Armour, Helmets, Face and Eye Protection System)Bullets and Fragme RE Three A, Lead (A1, A2)KE Three (A1, A2)B, Mild (B2, B3)C, Hard (C4, C5)D, Tung 	ion Against: Threats "KE" entation Threats "FSP" reat: 4 Core Projectiles 5, A3, A5 & A Special) Steel Core Projectiles 6, B4, B5 & B Special) dened Steel Core Projectiles 5, C6, C7 & C Special) gsten Cobalt (WC) Core Projectiles 8, D5 & D Special) meat: hisel Nose Cylinders Fragments 1, F3, F4, F5 & F6) hisel Nose Cylinders Fragments 5, G8 & G9) ght Circular Cylinders Fragments 2, R3, R4, R5, R6 & R7)	STANAG 2920 (Edition 3) / June 2015 CLASSIFICATION OF PERSONAL ARMOUR NATO AEP-2920 (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







	measurement	Equipment/Techniques used	Code
Security Glazing Systems Against Explosive Threats Continued	Hand-carried satchel bombs - SB1(X) - SB2(X) - SB3(X) - SB4(X) - SB5(X) - SB6(X) - SB7(X) Special Type:	ISO 16933:2007(E) First edition 2007-07-01 Glass in building — Explosion-resistant security glazing — Test and classification for arena air-blast loading	JODDB Blast Testing Facility Outdoor Range
Protective Materials (Metals, Ceramics, Transparent Glazing, Fabric, and Fabric- Reinforced Plastics)	Ballistic Resistance - Type I - Type IIA - Type II - Type III-A - Type III - Type IV - Special Requirement	NIJ Standard 0108.01 for Ballistic Resistant Protective Materials.	JODDB Ballistic testing facility Indoor Range



-PM 8

-PM 9

-PM 10



		used	0000
Plate Materials (Armored)	Multi-Hit Test - PM 1 - PM 2 - PM 3 - PM 4 - PM 5 - PM 6 - PM 7 - PM 8 - PM 9 - PM 10	Test guideline, Bullet Resistant Plate Materials VPAM PM Edition 3 15 March 2021. levels defined in VPAM- APR 2006 ISO 6509-1 15-8-2016 Edition 4 Metallic Materials – Rockwell hardness test Part 1.	JODDB Ballistic testing facility Indoor Range
Logistic and Light Armored Vehicles (Single Plate Targets) / Glass	Ballistic Resistance Kinetic Energy Only "Partial" Using Non- Fragmenting Ammunition. – Level 1 – Level 2 – Level 3	STANAG 4569 Land (Edition 2) - Protection Levels for Occupants of Logistic and Light Armoured Vehicles Aep-55, Volume 1 Edition 2 Procedures for Evaluating the Protection Level of Logistic and Light Armoured Vehicles	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
C.I.P. Small Arms Ammunition	 Pressure measurements Velocity Kinetic energy 	C.I.P. 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	 Visual Inspection Dimensional Function Firing Drop Safety Drop Function 	NIJ Standard-0112.03 Autoloading Pistols For Police Officers	JODDB Ballistic testing facility Indoor Range
Pistol, Semi automatic, Compact, 9 mm	 Headspace Trigger Pull High Pressure Resistance Functioning Accuracy and Dispersion Reliability Durability Safety Maintainability Environmental (High Temperature) Environmental (Low Temperature) Rough Handling 	MIL-P-71012A(AR) MILITARY SPECIFICATION PISTOL, SEMIAUTOMATIC, COMPACT, 9 MM	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
Carbine, 5.56 mm	 Firing Pin Indents Trigger Pull High Pressure Resistance Function Firing Cyclic Rate of Fire Targeting and Accuracy Endurance 	MIL-DTL-71186A DETAIL SPECIFICATION CARBINE, 5.56 MILLIMETER	JODDB Ballistic testing facility Indoor Range
Machine Gun, 7.62 mm	 Headspace Firing Pin Indent Trigger Pull High Pressure Resistance Functioning Targeting and Accuracy Endurance Reliability 	MIL-M-45013E (AR) Military Specification Machine Gun, 7.62 mm	JODDB Ballistic testing facility Indoor Range



	 Functioning Belt pull Cyclic Rate of Fire Targeting and Accuracy Endurance Barrel Erosion 		
12-Gauge Shotguns	 Visual Inspection Test Dimensional Measurement Test Functional Tests Safety Test Firing Tests Drop-Safety Test Drop-Function Test 	12-Gauge Shotguns for Police Use NIJ Standard- 0113.00	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
Shotguns	 Dimensions Test Proof of the Weapons Test 	C.I.P. 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.	C.I.P. 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	 Bullet Extraction Residual Stress Waterproofness Accuracy Function & Casualty Chamber Pressure and Velocity Primer Sensitivity 	MIL-C-70508	JODDB Ballistic testing facility Indoor Range





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Military 12.7mm Ammunition - M33	 Bullet Extraction Residual Stress Waterproofness Accuracy Function & Casualty Chamber pressure 	MIL-C-10190D	JODDB Ballistic testing facility Indoor Range
Small Arms - Hand and Shoulder Weapons and Machineguns	 Initial Inspection Test (Excluding spring tests) Cookoff Test Reliability and Durability Test Accuracy and Dispersion Test Adverse Conditions (Extreme Temperature - High T. Test up to +52 C) Adverse Conditions (Humidity Test) Adverse Conditions (Water Spray (rain) Test) Flash Test Smoke Test Rough Handling Test Accessory Compatibility Test Accessory Compatibility Test Logistic Supportability Test Post-Fire Inspection Test Excluding spring tests) Proof Firing Test Parts Interchange Test 	TOP 3-2-045 17 September 2007 Test Operations Procedure - Small Arms - Hand and Shoulder Weapons and Machineguns	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: -	NATO M-C MOPI ACC225 NATO UNCLASSIFIED	JODDB Ballistic testing facility
	- Cold Test	Releasable to IP and Singapore (152 - 221)	Indoor
Handguns	- High Temperature Test		Range
Submachineguns	- Temperature & Humidity Test		
Assault Rifles	- Mud Test		
Precision Rifles	- Dynamic Sand & Dust Test		
Machine Guns	- Accelerated Water Spray Test		
Grenade Launchers	- Safety Drop Test: 1.5 Meter (5 Feet)		
Shotguns	- Cook-Off and Barrel Heating Test		







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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical Road Vehicles	Maximum Speed Test Maximum Thirty Minute Speed Test Acceleration Ability 0 to 50 km/hr Test Acceleration Ability 0 to 80 km/hr Test	ISO 8715:2001 Electrical Road vehicles / Road Operating characteristics ISO 8714:2002 Electrical Road Vehicles /	JODDB Automotive Testing Facility Outdoor
	Hill Starting Ability Test Reference Energy Consumption and Range Test	Test Procedures for passenger cars and light commercial vehicles	
Ground Vehicles	 5.6.2 Vehicle Seat System 5.6.2.1 Dimensions and Clearances 5.6.2.2 Seat Clearances 5.6.2.2 Seat Clearances 5.6.2.2 Body clearance in the fore- aft direction 5.6.2.2.3 Body clearance in the horizontal direction 5.6.2.2.4 Body clearance in the vertical direction 5.6.2.8 Spacing Between Seats 5.6.2.8.1 Bench seating 5.6.2.8.2 Discrete seating 5.6.3 Controls 5.6.3.1 Vehicle Controls 5.6.3.1.4 Steering mechanism 5.6.3.1.5 Braking 5.6.3.1.6 Pedals 5.6.4 Displays 5.6.4.1 Driver's Display 5.6.4.1.1 Fore/aft 5.6.4.1.2 Horizontal 5.6.4.1.3 Vertical 5.6.5 Visibility 5.6.5.2 Ground intercept. 5.6.10 Stowage 5.6.10.1 Stowed gear and equipment 	In house Procedure JODDB/TEST/ATF/TP/ MIL 1472H_1 in accordance with the detail of MIL STD 1472H	

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4515 Accredited to	Issue No: 026 Issue da	te: 15 January 2025	
100/120 11023.2011	Testing performed by the Organisation at the location	ns specified	
Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Road Vehicles	Acoustics – Interior Vehicle Noise	ISO 5128:2023	JODDB Automotive
	Exhaust Gas Emissions	ISO 3929:2003	Testing Facility



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Accredited to ISO/IEC 17025:2017

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Enclosures for electrical equipment with a rated voltage not exceeding 1 000 V ac. and 1 500 V dc.)	 IP1X: protection of persons against access to hazardous parts inside the enclosure with the back of the hand. IP1X: protection of the equipment inside the enclosure against ingress of solid foreign objects of ≥ 50mm Ø. IP2X: protection of persons against access to hazardous parts inside the enclosure with a finger. IP2X: protection of the equipment inside the enclosure against ingress of solid foreign objects of ≥ 12.5mm Ø. IP3X: protection of persons against access to hazardous parts inside the enclosure with a tool. IP3X: protection of persons against access to hazardous parts inside the enclosure with a tool. IP3X: protection of the equipment inside the enclosure against ingress of solid foreign objects of ≥ 2.5mm Ø. IP4X: protection of persons against access to hazardous parts inside the enclosure with a wire IP4X: protection of persons against access to hazardous parts inside the enclosure with a wire IP4X: protection of the equipment inside the enclosure against ingress of solid foreign objects IP5X: protection of persons against access to hazardous parts inside the enclosure. IP6X: protection of persons against access to hazardous parts inside the enclosure. IP5X: protection of persons against access to hazardous parts inside the enclosure. IP5X: protection of persons against access to hazardous parts inside the enclosure. IP5X: protection of persons against access to hazardous parts inside the enclosure. IP5X: protection against water drip 1mm/min water flow IPX2: Protection against water drip 3mm/min water flow IPX3: Protection against Water Spray +/- 60° from vertical IPX5: Protection against water jet Nozzle 6.3mm IPX6: Protection against water jet Nozzle 6.3mm IPX6: Protection against water jet Nozzle 6.3mm IPX6: Protection of the equipment inside the enclosure against the effects of temporary immersion in water. 	Degrees of protection provided by enclosures (IP Code) 2013-08 Edition 2.2	JODDB Electrical Testing Facility



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical and Electronic Equipment and materials.	HIGH TEMPERATURE Max temp: +150°C Max chamber size 2.0 m x 1.0 m x 1.0 m	IEC 60068-2-2 2007 Test Ab, Ad & Ae MIL STD 810 H Method 501.7 MIL STD 810 G Method 501.5 ISO 16750-4:2023 ISO 16750-4:2012 Clause 5.1	JODDB Electrical Testing Facility
	LOW TEMPERATURE Min temp: -40°C Max chamber size 2.0 m x 1.0 m x 1.0 m Min temp: -60°C Max chamber size 0.8 m x 0.85 m x 0.6 m	IEC 60068-2-1 2007 Test Bb, Bd & Be MIL STD 810 H Method 502.7 MIL STD 810 G Method 502.5 ISO 16750-4:2023 ISO 16750-4:2012 Clause 5.1	
	CHANGE OF TEMPERTAURE Min temp: -60°C Max temp: +150°C	IEC 60068-2-14:2023 Test Na MIL STD 810H Method 503.7 ISO 16750-4:2023 ISO 16750-4:2012 Clauses 5.2, 5.3.1	
	HUMIDITY TESTS Temperature from -40°C to +150°C Humidity from 10 to 98 % rh	IEC 60068-2-30 2005 Test Db IEC 60068-2-78 2012 Test Cab	
	Max chamber size 2.0 m x 1.0 m x 1.0 m	MIL STD 810 H Method 507.6 MIL STD 810 G Method 507.5 ISO 16750-4:2023 Clauses 5.6.2.2 , 5.7	



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Electrical and Electronic Equipment for Road Vehicles	ELECTRICAL TESTS D.C. Supply Voltage Test	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.2	JODDB Electrical Testing Facility
	Overvoltage Test	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.3	
	Slow Decrease and Increase of Supply Voltage	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.5	
	Discontinues in Supply Voltage	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.6.1 , 4.6.2	
	Reverse Voltage Test	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.7	
	Open Circuit Test	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.9	
	Short Circuit Test	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.10	
	Withstand Voltage	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.11	
	Insulation Resistance	ISO 16750-2:2023 ISO 16750-2:2012 Clause 4.12	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical, Electronic and Programmable Electronic Equipment and Systems to machines not portable by hand.	ELECTRICAL SAFETY TESTS Basic Protection (Protection by enclosure)	IEC 60204-1:2016(2021) Clauses 6.2.2.a, 6.2.2.b, 6.2.2.c	JODDB Electrical Testing Facility
	Supply disconnecting device	IEC 60204-1:2016(2021) Clause 5.3.5	
	Protection by insulation of live parts	IEC 60204-1:2016(2021) Clause 6.2.3	
	Over current protection	IEC 60204-1:2016(2021) Clauses 7.2.1, 7.2.2, 7.2.5, 7.2.6, 7.2.8, 7.2.10	
	Protection of motors against overheating	IEC 60204-1:2016(2021) Clauses 7.3.1, 7.3.2, 7.3.3	
	Protection against abnormal temperature	IEC 60204-1:2016(2021) Clause 7.4	
	Protection against the effects of supply interruptions, reduction and restoration	IEC 60204-1:2016(2021) Clause 7.5	
	Motor overspeed protection	IEC 60204-1:2016(2021) Clause 7.6	
	Control circuit voltages	IEC 60204-1:2016(2021) Clause 9.1.2	
	Exceeding operating limits	IEC 60204-1:2016(2021) Clause 9.3.2	
	Operation of auxiliary functions	IEC 60204-1:2016(2021) Clause 9.3.3	
	Suspension of safety functions and/or protective measures	IEC 60204-1:2016(2021) Clause 9.3.6	
	Operator Interfaces and machine mounted	IEC 60204-1:2016(2021)	
	Control devices	Clauses 10.1.2, 10.1.3	
	Actuators	IEC 60204-1:2016(2021) Clauses 10.2.1, 10.2.2	



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Electrical, Electronic and Programmable Electronic Equipment and Systems to machines not portable by hand.	ELECTRICAL SAFETY TESTS (cont.)	IEC 60204-1:2016(2021) Clauses 10.3.1, 10.3.2, 10.3.3	JODDB Electrical Testing Facility
	Illuminated push buttons	IEC 60204-1:2016(2021) Clause 10.4	
	Rotary Controls	IEC 60204-1:2016(2021) Clause 10.5	
	Start Devices	IEC 60204-1:2016(2021) Clause 10.6	
	Emergency Stop Devices	IEC 60204-1:2016(2021) Clauses 10.7.1, 10.7.2, 10.8.1, 10.8.3	
	Current carrying capacity in normal service	IEC 60204-1:2016(2021) Clause 12.4	
	Flexible cables	IEC 60204-1:2016(2021) Clause 12.6.3	
	Identification of conductors	IEC 60204-1:2016(2021) Clauses 13.2.1, 13.2.2, 13.2.3, 13.2.4	
	Socket-outlet for accessories	IEC 60204-1:2016(2021) Clause 15,1	
	Warning signs	IEC 60204-1:2016(2021) Clause 16.2	
	Functional identification	IEC 60204-1:2016(2021) Clause 16.3	
	Marking of enclosures of electrical equipment	IEC 60204-1:2016(2021) Clause 16.4	
	Technical documentation	IEC 60204-1:2016(2021) Clauses 17.1, 17.2	



END

Component packaging and handling test method

(unpowered test)

Vehicle Test Method