Accredited test laboratory for qualification tests (PLQ) of IABG mbH

The official accreditation certificate **D-PL-12001-01-00** issued by DAkkS is dated **07-Feb-2020**.

A current overview of all accredited test methods, including those test methods added under the flexible accreditation, is published at www.iabg.de.

Test methods added as part of the **flexible accreditation** (* denoting flexible approach according to DAkkS category III) are highlighted using GREEN background colour.

Approved test methods under accreditation according to DIN EN ISO/IEC 17025:

Section	Test method / Issue	Title of test method	Type of test / limitation
Electromagnetic compatibility (EMC)			
Standards: Civil aviation			
EMC*	RTCA DO-160A, Sec. 15 25-Jan-1980	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160A, Sec. 16 25-Jan-1980	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160A, Sec. 17 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160A, Sec. 18 25-Jan-1980	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160A, Sec. 19 25-Jan-1980	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160A, Sec. 20 25-Jan-1980	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	none
EMC*	RTCA DO-160A, Sec. 21 25-Jan-1980	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none
EMC*	RTCA DO-160B, Sec. 15 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160B, Sec. 16 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160B, Sec. 17 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160B, Sec. 18 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160B, Sec. 19 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160B, Sec. 20 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	none
EMC*	RTCA DO-160B, Sec. 21 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none

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EMC*	RTCA DO-160B, Sec. 22 20-Jul-1984	Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility	none
EMC*	RTCA DO-160C, Sec. 15 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160C, Sec. 16 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160C, Sec. 17 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160C, Sec. 18 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160C, Sec. 19 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160C, Sec. 20 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	none
EMC*	RTCA DO-160C, Sec. 21 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none
EMC*	RTCA DO-160C, Sec. 22 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility	none
EMC*	RTCA DO-160C, Sec. 25 04-Dec-1989	Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)	none
EMC*	RTCA DO-160D, Sec. 15 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160D, Sec. 16 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160D, Sec. 17 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160D, Sec. 18 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160D, Sec. 19 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160D, Sec. 20 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	none

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EMC*	RTCA DO-160D, Sec. 21 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none
EMC*	RTCA DO-160D, Sec. 22 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility	none
EMC*	RTCA DO-160D, Sec. 25 Change 1, 14-Dec-2000 Change 2, 21-Jun-2002 Change 3, 12-May-2002	Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)	none
EMC*	RTCA DO-160E, Sec. 15 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160E, Sec. 16 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160E, Sec. 17 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160E, Sec. 18 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160E, Sec. 19 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160E, Sec. 20 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	chapter 20.5 RS w/o CAT L (PM)
EMC*	RTCA DO-160E, Sec. 21 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none
EMC*	RTCA DO-160E, Sec. 22 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility	none
EMC*	RTCA DO-160E, Sec. 25 09-Dec-2004	Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)	none
EMC*	RTCA DO-160F, Sec. 15 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160F, Sec. 16 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160F, Sec. 17 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160F, Sec. 18 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160F, Sec. 19 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160F, Sec. 20 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	chapter 20.5 RS w/o CAT L (PM)

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EMC*	RTCA DO-160F, Sec. 21 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none
EMC*	RTCA DO-160F, Sec. 22 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility	none
EMC*	RTCA DO-160F, Sec. 25 06-Dec-2007	Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)	none
EMC*	RTCA DO-160G, Sec. 15 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect	none
EMC*	RTCA DO-160G, Sec. 16 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input	none
EMC*	RTCA DO-160G, Sec. 17 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike	none
EMC*	RTCA DO-160G, Sec. 18 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs	none
EMC*	RTCA DO-160G, Sec. 19 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility	none
EMC*	RTCA DO-160G, Sec. 20 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)	chapter 20.5 RS w/o CAT L (PM)
EMC*	RTCA DO-160G, Sec. 21 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy	none
EMC*	RTCA DO-160G, Sec. 22 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility	none
EMC*	RTCA DO-160G, Sec. 25 08-Dec-2010	Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)	none
EMC	ABD0100.1.2D Dec-2000	AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements	none
EMC	ABD0100.1.2E Sep-2002	AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements	none
EMC	ABD0100.1.2F Oct-2007	AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements	none
EMC	ABD0100.1.2G Dec-2008	AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements	none

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EMC	SPX 902 A0002 E01 Revision: E 29-Jun-2006	Environmental Requirements for Equipment Installed on Eurocopter Helicopter Chapter 6, Electromagnetic Environment	w/o VFR severe RS
EMC	SPX 902 A0002 E01 Revision: E 29-Jun-2006	Environmental Requirements for Equipment Installed on Eurocopter Helicopter Chapter 7, Lightning Effects	w/o 7.2
EMC	SPX 902 A0002 E01 Revision: E 29-Jun-2006	Environmental Requirements for Equipment Installed on Eurocopter Helicopter Chapter 8, Electrostatic Discharge (ESD)	none
EMC	D6-16050-4 Revision: D 24-Jul-2002	Electromagnetic Interference Control Requirements	none
EMC	D6-16050-5 Revision: C 06-Sep-2006	Electromagnetic Interference Control Requirements for Composite Airplanes	none
EMC	IATA Gefahrgutvorschrift 55. Ausgabe 01-Jan-2014	Verpackungsanweisung 953 Magnetisierte Stoffe und Gegenstände für den Transport in Passagier- und nur Frachtflugzeugen	none
EMC*	DIN EN 2282 Mai-1992	Eigenschaften der elektrischen Stromversorgung von Luftfahrzeugen	none
EMC	ABD0100.1.8C Jan-2001	Airbus Directives (ABD) and Procedures Module: 0100.1.8 Electrical and Installation Requirements	none
EMC	ABD0100.1.8D Aug-2002	AIRBUS Equipment-Design-General Requirements for Suppliers: - Electrical and Installation Requirements	none
EMC	ABD0100.1.8E Apr-2005	AIRBUS Equipment-Design-General Requirements for Suppliers: - Electrical and Installation Requirements	none
EMC	ABD0100.1.8.1B Sep-2007	AIRBUS – A350 Equipment-Design-General Requirements for Suppliers: Electrical and Installation Requirements Electrical Characteristics of A350 AC and DC Equipment	none
EMC	ABD0100.1.8.1C Jul-2008	AIRBUS – A350 Equipment-Design-General Requirements for Suppliers: Electrical and Installation Requirements Electrical Characteristics of A350 AC and DC Equipment	none
EMC	D6-37851 Revision C 19-Feb-1998	Electric Power Characteristics for items of equipment installed on the 737-300, -700 Airplanes	none
EMC	D200Z001 Revision F 11-Dec-1990	General Electrical Requirements for Electrical and Electronic Equipment - 777	none
EMC	787B3-0147 Revision C 06 October 2006	787 Electrical Power Quality and Design Requirements Document	none

Section	Test method / Issue	Title of test method	Type of test / limitation
Standards, military: Air force / Army / Navy			
EMC*	MIL-STD-461A 01-Aug-1968 Notice 3, 01-May-1970 Notice 4, 09-Feb-1971	Military Standard - Electromagnetic Interference Characteristics Requirements for Equipment	none
EMC*	MIL-STD-461B 01-Apr-1980	Military Standard - Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference	none
EMC*	MIL-STD-461C 04-Aug-1986	Military Standard - Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference	none
EMC*	MIL-STD-461D 11-Jan-1993	Military Standard – Requirements for the Control of Electromagnetic Interference Emission and Susceptibility	w/o RS105
EMC*	MIL-STD-461E 20-Aug-1999	Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment	w/o RS105
EMC*	MIL-STD-461F 10-Dec-2007	Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment	w/o RS105
EMC*	MIL-STD-461G 11-Dec-2015	Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment	w/o RS105
EMC*	MIL-STD-462 Notice 1, 31-Jul-1967 Notice 2, 01-Aug-1968 Notice 3, 09-Feb-1971 Notice 4, 01-Apr-1980 Notice 5, 04-Aug-1986 Notice 6, 30-Aug-1999	Military Standard - Electromagnetic Interference Characteristics, Measurement of Electromagnetic Interference Characteristics	none
EMC*	MIL-STD-462D 11-Jan-1993	Military Standard - Measurement of Electromagnetic Interference Characteristics	none
EMC	SP-P-90 010 Issue 1 21-Nov-1995	Tornado EMC Specification for Equipment	none
EMC	SPE-J-000-E-1000 Issue: 1 Feb-1991	Electromagnetic Compatibility Specification for Equipment	w/o LEMP-EFA1 LEMP-EFA2
EMC	SPE-J-000-E-1006 Issue: 2 Oct-1996	Electromagnetic Compatibility Specification for Aerospace Ground Equipment	none
EMC	D6-16050-6 Revision: A 18-Apr-201	Electromagnetic Interference Control Requirements 767-2C	none
EMC*	DEF-STAN-59-411 Part 3 Issue: 1, 23-Jan-2007 Amdt 1, 31-Jan-2008	Ministry of Defence Electromagnetic Compatibility Part 3 – Test Methods and Limits for Equipment und Sub Systems	w/o DCS04, DCS08

Section	Test method / Issue	Title of test method	Type of test / limitation
EMC*	VG 95373: Teil 10 Nov-1987	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Messverfahren für Störströme	none
EMC*	VG 95373-10 Nov-2008	Elektromagnetische Verträglichkeit (EMC) Elektromagnetische Verträglichkeit von Geräten Teil 10: Prüfverfahren für leitungsgeführte Störströme;	none
EMC*	VG 95373: Teil 11 Nov-1993	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Messverfahren für Störspannungen	none
EMC*	VG 95373: Teil 12 Aug-1989	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Messverfahren für Störfeldstärken	none
EMC*	VG 95373-12 Nov-2008	Elektromagnetische Verträglichkeit (EMC) Elektromagnetische Verträglichkeit von Geräten Teil 12: Prüfverfahren für Störfeldstärken	none
EMC*	VG 95373: Teil 13 Sep-1993	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Messverfahren für Störfestigkeit gegen Felder	none
EMC*	VG 95373-13 Nov-2008	Elektromagnetische Verträglichkeit (EMC) Elektromagnetische Verträglichkeit von Geräten Teil 13: Prüfverfahren für Störfestigkeit gegen Felder	none
EMC*	VG 95373: Teil 14 Jul-1998	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Messverfahren für Störfestigkeit gegen leitungsgeführte Störsignale	none
EMC*	VG 95373-14 Nov-2008	Elektromagnetische Verträglichkeit (EMC) Elektromagnetische Verträglichkeit von Geräten Teil 14: Prüfverfahren für Störfestigkeit gegen leitungsgeführte Störsignale	none
EMC*	VG 95373: Teil 15 Feb-1997	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Messverfahren für Kopplungen und Schirmung	none
EMC*	VG 95373:Teil 15 Jul-2004	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von Geräten Teil 15: Messverfahren für Kopplungen und Schirmungen	none
EMC*	VG 95370: Teil 10 Jan-2003	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von und in Systemen Teil 10: Messverfahren für Störströme	none
EMC*	VG 95370: Teil 11 Feb-2003	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von und in Systemen Teil 11: Messverfahren für Störspannungen	none
EMC*	VG 95370: Teil 12 Jan-2003	Elektromagnetische Verträglichkeit Elektromagnetische Verträglichkeit von und in Systemen Teil 12: Messverfahren für Störfeldstärken	none

Section	Test method / Issue	Title of test method	Type of test / limitation
EMC*	AECTP 500 Edition 2 Jan-2006	Electrical / Electromagnetic Environmental Tests	w/o NRS03
EMC*	MIL-STD-704A 09-Aug-1966 Notice 2: 05-May-1970 Notice 3: 11-Apr-1973	Military Standard – Electric Power, Aircraft Characteristics	none
EMC*	MIL-STD-704E	Military Standard – Aircraft Electric Power Characteristics	none
EMC*	MIL-STD-704F 12-Mar-2004	Department of Defense Interface Standard – Aircraft Electric Power Characteristics	none
EMC*	MIL-HDBK-704-8 09-Apr-2004	Department of Defense Handbook - Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics 28 VDC (Part 8 of 8 Parts)	none
EMC*	MIL-STD-1275A 17-Sep-1976 Notice 1: 08-Feb-1980 Notice 2: 23-Apr-1981	Military Standard – Characteristics of 28 Volt DC Electrical Systems in Military Vehicles	none
EMC*	MIL-STD-1275B 20-Nov-1997	Department of Defense Interface Standard – Characteristics of 28 Volt DC Electrical Systems in Military Vehicles	none
EMC*	MIL-STD-1275C 23-Jun-2006	Department of Defense Interface Standard – Characteristics of 28 Volt DC Electrical Systems in Military Vehicles	none
EMC*	MIL-STD-1275D 29-Aug-2006	Department of Defense Interface Standard – Characteristics of 28 Volt DC Electrical Systems in Military Vehicles	none
EMC*	MIL-STD-1275E 22-Mar-2013	Department of Defense Interface Standard – Characteristics of 28 Volt DC Electrical Systems in Military Vehicles	none
EMC*	MIL-STD-1399 (Navy) 13-Oct-1987	Department of Defense Interface Standard – Characteristics of 28 Volt DC Electrical Systems in Military Vehicles	none
EMC*	STANAG 1008 Edition 8 21-Feb-1994	STANAG 1008 NAV (Edition 8) – Characteristics of Shipboard Electrical Power Systems in Warships of the North Atlantic Treaty Navies	none
EMC	AMD-24 Issue: B 17-Dec-2003	A400M Directive Electrical Characteristics of aircraft AC and DC Systems	none
EMC	AMD-24 Issue: C 22-Mar-2005	A400M Directive Electrical Characteristics of aircraft AC and DC Systems	none
Standards: Space			
EMC	ECSS-E-ST-20-07C 31-Jul-2008	European Cooperation for Space Standardization Space Engineering – Electromagnetic Compatibility	none
EMC	ECSS-E-ST-20-07C_Rev.1 07-Feb-2012	European Cooperation for Space Standardization Space Engineering – Electromagnetic Compatibility	none
EMC	ECSS-E-ST-20-07C, Rev.2 03-Jan-2022	European Cooperation for Space Standardization – Space engineering – Electromagnetic compatibility	none

Section	Test method / Issue	Title of test method	Type of test / limitation
General Standards			
EMC*	DIN EN 61000-6-2 (VDE 0839-6-2):03-2006	Elektromagnetische Verträglichkeit (EMC) Teil 6-2: Fachgrundnormen - Störfestigkeit für Industriebereiche (IEC 61000-6-2:2005); Deutsche Fassung EN 61000-6-2:2005	none
EMC*	DIN EN 61000-6-1 (VDE 0839-6-1):10-2007	Elektromagnetische Verträglichkeit (EMC) - Teil 6-1: Fachgrundnormen - Störfestigkeit für Wohnbereich, Geschäfts- und Gewerbebereiche sowie Kleinbetriebe (IEC 61000-6-1:2005); Deutsche Fassung EN 61000-6-1:2007	none
EMC*	DIN EN 61000-4-2; VDE 0847-4-2:2009-12	Elektromagnetische Verträglichkeit (EMC) - Teil 4-2: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen die Entladung statischer Elektrizität (IEC 61000-4-2:2008); Deutsche Fassung EN 61000-4-2:2009	none
EMC*	DIN EN 61000-4-3; VDE 0847-4-3:2011-04	Elektromagnetische Verträglichkeit (EMC) - Teil 4-3: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen hochfrequente elektromagnetische Felder (IEC 61000-4-3:2006 + A1:2007 + A2:2010); Deutsche Fassung EN 61000-4-3:2006 + A1:2008 + A2:2010	none
EMC*	DIN EN 61000-4-4; VDE 0847-4-4:2013-04	Elektromagnetische Verträglichkeit (EMC) - Teil 4-4: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen schnelle transiente elektrische Störgrößen/Burst (IEC 61000-4-4:2012); Deutsche Fassung EN 61000-4-4:2012	none
EMC*	DIN EN 61000-4-5; VDE 0847-4-5:2015-03	Elektromagnetische Verträglichkeit (EMC) - Teil 4-5: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen Stoßspannungen (IEC 61000-4-5:2014); Deutsche Fassung EN 61000-4-5:2014	none
EMC*	DIN EN 61000-4-6; VDE 0847-4-6:2014-08	Elektromagnetische Verträglichkeit (EMC) - Teil 4-6: Prüf- und Messverfahren - Störfestigkeit gegen leitungsgeführte Störgrößen, induziert durch hochfrequente Felder (IEC 61000-4-6:2013); Deutsche Fassung EN 61000-4-6:2014	w/o EM Koppelstrecke
EMC*	DIN EN 61000-4-8; VDE 0847-4-8:2010-11	Elektromagnetische Verträglichkeit (EMC) - Teil 4-8: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen Magnetfelder mit energietechnischen Frequenzen (IEC 61000-4-8:2009); Deutsche Fassung EN 61000-4-8:2010	none
EMC*	DIN EN 61000-4-11; 2005-02 VDE 0847-4-11:2005-02	Elektromagnetische Verträglichkeit (EMC) - Teil 4-11: Prüf- und Messverfahren - Prüfungen der Störfestigkeit gegen Spannungseinbrüche, Kurzzeitunterbrechungen und Spannungsschwankungen (IEC 61000-4-11:2004); Deutsche Fassung EN 61000-4-11:2004	none

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EMC*	DIN EN 61000-3-2; VDE 0838-2:2015-03	Elektromagnetische Verträglichkeit (EMC) - Teil 3-2: Grenzwerte - Grenzwerte für Oberschwingungsströme (Geräte-Eingangsstrom <= 16 A je Leiter) (IEC 61000-3-2:2014); Deutsche Fassung EN 61000-3-2:2014	none
EMC*	DIN EN 61000-3-3; VDE 0838-3:2014-03	Elektromagnetische Verträglichkeit (EMC) - Teil 3-3: Grenzwerte - Begrenzung von Spannungsänderungen, Spannungsschwankungen und Flicker in öffentlichen Niederspannungs-Versorgungsnetzen für Geräte mit einem Bemessungsstrom <= 16 A je Leiter, die keiner Sonderanschlussbedingung unterliegen (IEC 61000-3-3:2013); Deutsche Fassung EN 61000-3-3:2013	none
EMC*	DIN EN 61000-3-11 VDE 0838-11:2001-04	Elektromagnetische Verträglichkeit (EMC) - Teil 3-11: Grenzwerte; Begrenzung von Spannungsänderungen, Spannungsschwankungen und Flicker in öffentlichen Niederspannungs-Versorgungsnetzen; Geräte und Einrichtungen mit einem Bemessungsstrom <= 75 A, die einer Sonderanschlussbedingung unterliegen (IEC 61000-3-11:2000); Deutsche Fassung EN 61000-3-11:2000	none
EMC*	DIN EN 61000-3-12; VDE 0838-12:2012-06	Elektromagnetische Verträglichkeit (EMC) - Teil 3-12: Grenzwerte - Grenzwerte für Oberschwingungsströme, verursacht von Geräten und Einrichtungen mit einem Eingangsstrom > 16A und <= 75A je Leiter, die zum Anschluss an öffentliche Niederspannungsnetze vorgesehen sind (IEC 61000-3-12:2011); Deutsche Fassung EN 61000-3-12:2011	none
EMC*	DIN EN 55024:2011-09; VDE 0878-24:2011-09	Einrichtungen der Informationstechnik - Störfestigkeitseigenschaften - Grenzwerte und Prüfverfahren (CISPR 24:2010); Deutsche Fassung EN 55024:2010	none
Vibration and Shock (VUS)			
Environmental tests*	DIN EN 60068-2-6; 2008-10	Umgebungseinflüsse; Teil 2-6; Prüfverfahren – Prüfung Fc Schwingen (sinusförmig)	none
Environmental tests*	DIN EN 60068-2-64; 2009-04	Umgebungseinflüsse; Teil 2-64; Prüfverfahren – Prüfung Fh Schwingen Breitbandrauschen	none
Environmental tests*	DIN EN 60068-2-64; 2020-09	Umgebungseinflüsse; Teil 2-64; Prüfverfahren – Prüfung Fh Schwingen Breitbandrauschen	none
Environmental tests*	DIN EN 60068-2-80; 2006-05	Umgebungseinflüsse; Teil 2-80; Prüfverfahren – Prüfung Fi Mixed Mode Vibrationsprüfung	none
Environmental tests*	DIN EN 60068-2-53; 2011-02	Umgebungseinflüsse; Teil 2-53; Prüfverfahren – Kombinierte klimatische und dynamische Prüfungen	w/o humidity
Environmental tests*	DIN EN 60068-2-27; 2010-02	Umgebungseinflüsse; Teil 2-27; Prüfverfahren – Prüfung Ea Schocken	none
Environmental tests*	DIN EN 60068-2-31; 2009-04	Umgebungseinflüsse; Teil 2-31; Prüfverfahren – Prüfung Ec Schocks durch raue Handhabung	none

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Environmental tests*	DIN EN 60068-2-81; 2004-07	Umgebungseinflüsse; Teil 2-81; Prüfverfahren – Prüfung Ei Schocken – Synthese des Schockantwortspektrums	none
Environmental tests*	DIN EN 60068-2-7; 1995-03	Umgebungseinflüsse; Teil 2-7; Prüfverfahren – Prüfung Ga Gleichförmiges Beschleunigen	none
Environmental tests*	DIN EN 60068-2-1; 2008-01	Umgebungseinflüsse; Teil 2-1; Prüfverfahren – Prüfung A: Kälte	method Ab only; in combination with vibration and shock only
Environmental tests*	DIN EN 60068-2-2; 2008-05	Umgebungseinflüsse; Teil 2-2; Prüfverfahren – Prüfung B: Trockene Wärme	method Bb only; in combination with vibration and shock only
Environmental tests*	DIN EN 60068-2-14; 2010-04	Umgebungseinflüsse; Teil 2-14; Prüfverfahren – Prüfung N: Temperaturwechsel	method Nb only; in combination with vibration and shock only
Standards: Rail			
Environmental tests*	DIN EN 61373; 2011-04	Bahnanwendungen – Betriebsmittel von Bahnfahrzeugen – Prüfungen für Schwingen und Schocken	vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	DIN EN 61373; 1999-11	Bahnanwendungen – Betriebsmittel von Bahnfahrzeugen – Prüfungen für Schwingen und Schocken	vibration from 3 Hz and 4 Hz, resp.
Standards: Motor vehicles			
Environmental tests*	ISO 16750-3 2012-12	Straßenfahrzeuge – Umgebungsbedingungen und Prüfungen für elektrische und elektronische Ausrüstung – Teil 3 Mechanische Beanspruchungen	w/o 4.4 scratch and 4.5 gravel
Standards: Civil shipping			
Environmental tests*	GL 2012	Germanischer Lloyd – Richtlinien für die Durchführung von Baumusterprüfungen Kap. 9 Vibrationen	vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	ABS 2014	Rules for Building and Classing Steel Vessels Tab. 1; No. 5 Vibration	vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	ABS Part 4 Jul-2022	Rules for building and classing – Marine vessels Part 4: Vessel systems and machinery Chapter 9, Section 9, Table 1: 5. Vibration	vibration from 3 Hz and 4 Hz, resp.
Standards: Civil aviation			
Environmental tests*	RTCA/DO-160D Section 7 07-1997	Environmental Conditions and Test Procedures for Airborne Equipment – Section 7 - Operational Shocks and Crash Safety	none
Environmental tests*	RTCA/DO-160E Section 7 12-2004	Environmental Conditions and Test Procedures for Airborne Equipment – Section 7 - Operational Shocks and Crash Safety	none
Environmental tests*	RTCA/DO-160F Section 7 12-2007	Environmental Conditions and Test Procedures for Airborne Equipment – Section 7 - Operational Shocks and Crash Safety	none

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Environmental tests*	RTCA/DO-160G Section 7 12-2010	Environmental Conditions and Test Procedures for Airborne Equipment – Section 7 - Operational Shocks and Crash Safety	none
Environmental tests*	RTCA/DO-160D Section 8 07-1997	Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration	none
Environmental tests*	RTCA/DO-160E Section 8 12-2004	Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration	none
Environmental tests*	RTCA/DO-160F Section 8 12-2007	Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration	none
Environmental tests*	RTCA/DO-160G Section 8 12-2010	Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration	none
Environmental tests	ABD0100.1.2 Issue E 09-2002	Airbus – Environmental Conditions and Test Requirements Associated to Qualification Chapter 1.5 Shocks Chapter 1.6 Vibration	w/o acoustic noise
Environmental tests	ABD0100.1.2 Issue F 10-2007	Airbus – Environmental Conditions and Test Requirements Associated to Qualification Chapter 1.5 Shocks Chapter 1.6 Vibration	w/o acoustic noise
Environmental tests	ABD0100.1.2 Issue G 12-2008	Airbus – Environmental Conditions and Test Requirements Associated to Qualification Chapter 1.5 Shocks Chapter 1.6 Vibration	w/o acoustic noise
Environmental tests	SPX 902 A 0002 E01 Issue E 06/1999	Environmental Requirements for Equipment installed on Eurocopter Helicopter Chapter 5	none
Environmental tests*	ISO 2669 04/1995	Luft- und Raumfahrt – Umweltprüfungen für Luftfahrt-Ausrüstungen – Gleichförmiges Beschleunigung	none
Standards: Military			
Environmental tests*	MIL-STD-810E Method 513.4 07/1989	Military Standard – Environmental Test Methods and Engineering Guidelines Acceleration	none
Environmental tests*	MIL-STD-810F Method 513.5 01/2000	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Acceleration	none
Environmental tests*	MIL-STD-810G Method 513.6 10/2008	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Acceleration	none

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Environmental tests*	MIL-STD-810G w/ Change 1 Method 513.7 04/2014	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Acceleration	centrifuge only
Environmental tests*	MIL-STD-810H Method 513.8 01/2019	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Acceleration	centrifuge only
Environmental tests*	MIL-STD-810E Method 514.4 07/1989	Military Standard – Environmental Test Methods and Engineering Guidelines Vibration	w/o loose cargo and large assembly vibration; vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	MIL-STD-810F Method 514.5 01/2000	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Vibration	w/o loose cargo and large assembly vibration; vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	MIL-STD-810G Method 514.6 10/2008	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Vibration	w/o loose cargo and large assembly vibration; vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	MIL-STD-810G w/ Change 1 Method 514.7 04/2014	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Vibration	w/o loose cargo and large assembly vibration; vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	MIL-STD-810E Method 516.4 07/1989	Military Standard – Environmental Test Methods and Engineering Guidelines Shock	w/o pendulum impact
Environmental tests*	MIL-STD-810F Method 516.5 01/2000	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Shock	w/o pendulum impact
Environmental tests*	MIL-STD-810G Method 516.6 10/2008	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Shock	w/o pendulum impact
Environmental tests*	MIL-STD-810G w/ Change 1 Method 516.7 04/2014	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Shock	w/o pendulum impact
Environmental tests*	MIL-STD-810H Method 516.8 01/2019	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Shock	w/o pendulum impact

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Environmental tests*	MIL-STD-810F Method 517 01/2000	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Pyroshock	none
Environmental tests*	MIL-STD-810G Method 517.1 10/2008	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Pyroshock	none
Environmental tests*	MIL-STD-810G w/ Change 1 Method 517.2 04/2014	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Pyroshock	none
Environmental tests*	MIL-STD-810E Method 519.4 07/1989	Military Standard – Environmental Test Methods and Engineering Guidelines Gunfire	none
Environmental tests*	MIL-STD-810F Method 519.5 01/2000	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Gunfire	none
Environmental tests*	MIL-STD-810G Method 519.6 10/2008	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Gunfire	none
Environmental tests*	MIL-STD-810G w/ Change 1 Method 519.7 04/2014	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Gunfire	none
Environmental tests*	MIL-STD-810G Method 528 10/2008	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Mechanical Vibrations of Shipboard Equipment	vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	MIL-STD-810G w/ Change 1 Method 528.1 04/2014	Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests Mechanical Vibrations of Shipboard Equipment	vibration from 3 Hz and 4 Hz, resp.
Environmental tests*	MIL-STD-167-1A 11/2005	Department of Defense Test Method Standard – Mechanical Vibrations of Shipboard Equipment	vibration from 3 Hz and 4 Hz, resp.
Standards: Space			
Environmental tests	ECSS-E-ST-10-03C 01-June-2012	European Cooperation for Space Standardization – Space engineering – Testing	vibration, shock, and acceleration only
Environmental tests	ECSS-E-ST-10-03C, Rev.1 31-May-2022	European Cooperation for Space Standardization – Space engineering – Testing	vibration, shock, and acceleration only