

# Deutsche Akkreditierungsstelle

## Annex to the Accreditation Certificate D-PL-12001-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 29.04.2024

**Date of issue:** 29.04.2024

Holder of accreditation certificate:

**Industrieanlagen-Betriebsgesellschaft mbH (IABG)**  
**Einsteinstraße 20, 85521 Ottobrunn**

with the location

**Industrieanlagen-Betriebsgesellschaft mbH (IABG)**  
**Prüflabor für Qualifikationstests des Raumfahrt-Testzentrums der IABG mbH**  
**Einsteinstraße 20, 85521 Ottobrunn**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the general with the principles of DIN EN ISO 9001.

Tests in the fields:

**Electromagnetic Compatibility (EMC), Electrotechnics (Environmental tests)**

*This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.*

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Within the scope of accreditation marked with \*), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing procedures within the flexible scope of accreditation.

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| Department                                 | Standard /<br>in house procedure /<br>Version | Title of standard or in house procedure   | Test area /<br>Reductions |
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| <b>Electromagnetic Compatibility (EMC)</b> |   |   |                           |
| <b>1 Standards: Civil Aviation</b>         |   |   |                           |
| EMC*                                       | RTCA DO-160A, Sec. 15<br>25-Jan-1980          | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 15: Magnetic<br>Effect |                           |
| EMC*                                       | RTCA DO-160A, Sec. 16<br>25-Jan-1980          | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 16: Power<br>Input     |                           |
| EMC*                                       | RTCA DO-160A, Sec. 17<br>20-Jul-1984          | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 17: Voltage<br>Spike   |                           |

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|------------|---|---|---------------------------|
| EMC*       | RTCA DO-160A, Sec. 18<br>25-Jan-1980          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs |                           |
| EMC*       | RTCA DO-160A, Sec. 19<br>25-Jan-1980          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility                           |                           |
| EMC*       | RTCA DO-160A, Sec. 20<br>25-Jan-1980          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted) |                           |
| EMC*       | RTCA DO-160A, Sec. 21<br>25-Jan-1980          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy                      |                           |
| EMC*       | RTCA DO-160B, Sec. 15<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect   |                           |
| EMC*       | RTCA DO-160B, Sec. 16<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input   |                           |
| EMC*       | RTCA DO-160B, Sec. 17<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike   |                           |
| EMC*       | RTCA DO-160B, Sec. 18<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs |                           |
| EMC*       | RTCA DO-160B, Sec. 19<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility                           |                           |
| EMC*       | RTCA DO-160B, Sec. 20<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted) |                           |

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|------------|---|---|---------------------------|
| EMC*       | RTCA DO-160B, Sec. 21<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy                      |                           |
| EMC*       | RTCA DO-160B, Sec. 22<br>20-Jul-1984          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility              |                           |
| EMC*       | RTCA DO-160C, Sec. 15<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect   |                           |
| EMC*       | RTCA DO-160C, Sec. 16<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input   |                           |
| EMC*       | RTCA DO-160C, Sec. 17<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike   |                           |
| EMC*       | RTCA DO-160C, Sec. 18<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs |                           |
| EMC*       | RTCA DO-160C, Sec. 19<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility                           |                           |
| EMC*       | RTCA DO-160C, Sec. 20<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted) |                           |
| EMC*       | RTCA DO-160C, Sec. 21<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy                      |                           |
| EMC*       | RTCA DO-160C, Sec. 22<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility              |                           |
| EMC*       | RTCA DO-160C, Sec. 25<br>04-Dec-1989          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)                           |                           |

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|------------|--|--|---------------------------|
| EMC*       | RTCA DO-160D, Sec. 15<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 15: Magnetic<br>Effect  |                           |
| EMC*       | RTCA DO-160D, Sec. 16<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 16: Power<br>Input  |                           |
| EMC*       | RTCA DO-160D, Sec. 17<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 17: Voltage<br>Spike  |                           |
| EMC*       | RTCA DO-160D, Sec. 18<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 18: Audio<br>Frequency Conducted Susceptibility – Power<br>Inputs |                           |
| EMC*       | RTCA DO-160D, Sec. 19<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 19: Induced<br>Signal Susceptibility                              |                           |
| EMC*       | RTCA DO-160D, Sec. 20<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 20: Radio<br>Frequency Susceptibility (Radiated and<br>Conducted) |                           |
| EMC*       | RTCA DO-160D, Sec. 21<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 21: Emission of<br>Radio Frequency Energy                         |                           |
| EMC*       | RTCA DO-160D, Sec. 22<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 22: Lightning<br>Induced Transient Susceptibility                 |                           |
| EMC*       | RTCA DO-160D, Sec. 25<br>Change 1, 14-Dec-2000<br>Change 2, 21-Jun-2002<br>Change 3, 12-May-2002 | Environmental Conditions and Test Procedures<br>of Airborne Equipment, Section 25:<br>Electrostatic Discharge (ESD)                              |                           |

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|------------|---|---|------------------------------------|
| EMC*       | RTCA DO-160E, Sec. 15<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect   |                                    |
| EMC*       | RTCA DO-160E, Sec. 16<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input   |                                    |
| EMC*       | RTCA DO-160E, Sec. 17<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike   |                                    |
| EMC*       | RTCA DO-160E, Sec. 18<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs |                                    |
| EMC*       | RTCA DO-160E, Sec. 19<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility                           |                                    |
| EMC*       | RTCA DO-160E, Sec. 20<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted) | Chapter 20.5 RS<br>ohne CAT L (PM) |
| EMC*       | RTCA DO-160E, Sec. 21<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy                      |                                    |
| EMC*       | RTCA DO-160E, Sec. 22<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility              |                                    |
| EMC*       | RTCA DO-160E, Sec. 25<br>09-Dec-2004          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)                           |                                    |
| EMC*       | RTCA DO-160F, Sec. 15<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect   |                                    |
| EMC*       | RTCA DO-160F, Sec. 16<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input   |                                    |

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| EMC*       | RTCA DO-160F, Sec. 17<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike   |                                    |
| EMC*       | RTCA DO-160F, Sec. 18<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs |                                    |
| EMC*       | RTCA DO-160F, Sec. 19<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility                           |                                    |
| EMC*       | RTCA DO-160F, Sec. 20<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted) | Chapter 20.5 RS<br>ohne CAT L (PM) |
| EMC*       | RTCA DO-160F, Sec. 21<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy                      |                                    |
| EMC*       | RTCA DO-160F, Sec. 22<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility              |                                    |
| EMC*       | RTCA DO-160F, Sec. 25<br>06-Dec-2007          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)                           |                                    |
| EMC*       | RTCA DO-160G, Sec. 15<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 15: Magnetic Effect   |                                    |
| EMC*       | RTCA DO-160G, Sec. 16<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 16: Power Input   |                                    |
| EMC*       | RTCA DO-160G, Sec. 17<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 17: Voltage Spike   |                                    |
| EMC*       | RTCA DO-160G, Sec. 18<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 18: Audio Frequency Conducted Susceptibility – Power Inputs |                                    |

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| EMC*       | RTCA DO-160G, Sec. 19<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 19: Induced Signal Susceptibility   |                                    |
| EMC*       | RTCA DO-160G, Sec. 20<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 20: Radio Frequency Susceptibility (Radiated and Conducted)   | Chapter 20.5 RS<br>ohne CAT L (PM) |
| EMC*       | RTCA DO-160G, Sec. 21<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 21: Emission of Radio Frequency Energy  |                                    |
| EMC*       | RTCA DO-160G, Sec. 22<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 22: Lightning Induced Transient Susceptibility  |                                    |
| EMC*       | RTCA DO-160G, Sec. 25<br>08-Dec-2010          | Environmental Conditions and Test Procedures of Airborne Equipment, Section 25: Electrostatic Discharge (ESD)   |                                    |
| EMC        | ABD0100.1.2D<br>Dec-2000                      | AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements |                                    |
| EMC        | ABD0100.1.2E<br>Sep-2002                      | AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements |                                    |
| EMC        | ABD0100.1.2F<br>Oct-2007                      | AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements |                                    |
| EMC        | ABD0100.1.2G<br>Dec-2008                      | AIRBUS Equipment-Design-General Requirements for Suppliers: - Environmental Conditions and Test Requirements Associated to Qualification, Section 3: Electromagnetic Environment Requirements |                                    |

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|------------|--|--|---------------------------|
| EMC        | SPX 902 A0002 E01<br>Revision: E<br>29-Jun-2006                | Environmental Requirements for Equipment<br>Installed on Eurocopter Helicopter<br>Chapter 6, Electromagnetic Environment   | ohne VFR Severe<br>RS     |
| EMC        | SPX 902 A0002 E01<br>Revision: E<br>29-Jun-2006                | Environmental Requirements for Equipment<br>Installed on Eurocopter Helicopter<br>Chapter 7, Lightning Effects   | ohne 7.2                  |
| EMC        | SPX 902 A0002 E01<br>Revision: E<br>29-Jun-2006                | Environmental Requirements for Equipment<br>Installed on Eurocopter Helicopter<br>Chapter 8, Electrostatic Discharge (ESD)   |                           |
| EMC        | D6-16050-4<br>Revision: D<br>24-Jul-2002                       | Electromagnetic Interference Control<br>Requirements   |                           |
| EMC        | D6-16050-5<br>Revision: C<br>06-Sep-2006                       | Electromagnetic Interference Control<br>Requirements for Composite Airplanes   |                           |
| EMC        | IATA Dangerous Goods<br>Regulation<br>55. Issue<br>01-Jan-2014 | PACKING INSTRUCTION 953<br>Magnetized material on passenger aircraft and<br>Cargo Aircraft Only  |                           |
| EMC        | DIN EN 2282<br>Mai-1992  | Aerospace series; characteristics of aircraft<br>electrical supplies   |                           |
| EMC        | ABD0100.1.8C<br>Jan-2001                                       | Airbus Directives (ABD) and Procedures<br>Module: 0100.1.8 Electrical and Installation<br>Requirements   |                           |
| EMC        | ABD0100.1.8D<br>Aug-2002                                       | AIRBUS Equipment-Design-General<br>Requirements for Suppliers: - Electrical and<br>Installation Requirements   |                           |
| EMC        | ABD0100.1.8E<br>Apr-2005                                       | AIRBUS Equipment-Design-General<br>Requirements for Suppliers: - Electrical and<br>Installation Requirements   |                           |
| EMC        | ABD0100.1.8.1B<br>Sep-2007                                     | AIRBUS – A350 Equipment-Design-General<br>Requirements for Suppliers:<br>Electrical and Installation Requirements<br>Electrical Characteristics of A350 AC and DC<br>Equipment |                           |

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|---|---|--|---------------------------|
| EMC   | ABD0100.1.8.1C<br>Jul-2008  | AIRBUS – A350 Equipment-Design-General Requirements for Suppliers:<br>Electrical and Installation Requirements<br>Electrical Characteristics of A350 AC and DC Equipment |                           |
| EMC   | D6-37851<br>Revision C<br>19-Feb-1998   | Electric Power Characteristics for items of equipment installed on the 737-300, -700 Airplanes   |                           |
| EMC   | D200Z001<br>Revision F<br>11-Dec-1990   | General Electrical Requirements for Electrical and Electronic Equipment - 777  |                           |
| EMC   | 787B3-0147<br>Revision C<br>06 October 2006                                   | 787 Electrical Power Quality and Design Requirements Document  |                           |
| <b>2 Standards, Military: Air Force / Army / Navy</b> |   |  |                           |
| EMC*  | MIL-STD-461A<br>01-Aug-1968<br>Notice 3, 01-May-1970<br>Notice 4, 09-Feb-1971 | Military Standard - Electromagnetic Interference Characteristics Requirements for Equipment  |                           |
| EMC*  | MIL-STD-461B<br>01-Apr-1980   | Military Standard - Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference   |                           |
| EMC*  | MIL-STD-461C<br>04-Aug-1986   | Military Standard - Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference   |                           |
| EMC*  | MIL-STD-461D<br>11-Jan-1993   | Military Standard – Requirements for the Control of Electromagnetic Interference Emission and Susceptibility   | ohne RS105                |
| EMC*  | MIL-STD-461E<br>20-Aug-1999   | Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment                      | ohne RS105                |
| EMC*  | MIL-STD-461F<br>10-Dec-2007   | Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment                      | ohne RS105                |

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|------------|---|---|-----------------------------|
| EMC*       | MIL-STD-461G<br>11-Dec-2015   | Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment | ohne RS105                  |
| EMC*       | MIL-STD-462<br>Notice 1, 31-Jul-1967<br>Notice 2, 01-Aug-1968<br>Notice 3, 09-Feb-1971<br>Notice 4, 01-Apr-1980<br>Notice 5, 04-Aug-1986<br>Notice 6, 30-Aug-1999 | Military Standard - Electromagnetic Interference Characteristics, Measurement of Electromagnetic Interference Characteristics                       |                             |
| EMC*       | MIL-STD-462D<br>11-Jan-1993   | Military Standard - Measurement of Electromagnetic Interference Characteristics   |                             |
| EMC        | SP-P-90 010<br>Issue 1<br>21-Nov-1995   | Tornado EMC Specification for Equipment   |                             |
| EMC        | SPE-J-000-E-1000<br>Issue: 1<br>Feb-1991  | Electromagnetic Compatibility Specification for Equipment   | ohne LEMP-EFA1<br>LEMP-EFA2 |
| EMC        | SPE-J-000-E-1006<br>Issue: 2<br>Oct-1996  | Electromagnetic Compatibility Specification for Aerospace Ground Equipment  |                             |
| EMC        | D6-16050-6<br>Revision: A<br>18-Apr-2011  | Electromagnetic Interference Control Requirements 767-2C  |                             |
| EMC*       | DEF-STAN-59-411 Part 3<br>Issue: 1, 23-Jan-2007<br>Amdt 1, 31-Jan-2008  | Ministry of Defence Electromagnetic Compatibility Part 3 – Test Methods and Limits for Equipment und Sub Systems                                    | ohne DCS04,<br>DCS08        |
| EMC*       | VG 95373: Part 10<br>Nov-1987   | Electromagnetic compatibility (EMC) - Electromagnetic compatibility of equipment - Part 10: Test procedure for conducted emissions (current)        |                             |

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|------------|--|---|---------------------------|
| EMC*       | VG 95373-10<br>Nov-2008  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 10: Test procedure for conducted<br>emissions (current) |                           |
| EMC*       | VG 95373: Part 11<br>Nov-1993                                  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment –<br>Part 11: Test procedure for interference voltage             |                           |
| EMC*       | VG 95373: Part 12<br>Aug-1989                                  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 12: Test procedures for radiated emissions              |                           |
| EMC*       | VG 95373-12<br>Nov-2008  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 12: Test procedures for radiated emissions              |                           |
| EMC*       | VG 95373: Part 13<br>Sep-1993 VG 95373:<br>Part 13<br>Sep-1993 | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 13: Test procedures for radiated<br>susceptibility      |                           |
| EMC*       | VG 95373-13<br>Nov-2008  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment –<br>Part 13: Test procedures for radiated<br>susceptibility      |                           |
| EMC*       | VG 95373: Part 14<br>Jul-1998                                  | Electromagnetic Compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 14: Test procedures for conducted<br>susceptibility     |                           |
| EMC*       | VG 95373-14<br>Nov-2008  | Electromagnetic Compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 14: Test procedures for conducted<br>susceptibility     |                           |
| EMC*       | VG 95373: Teil 15<br>Feb-1997                                  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 15: Test procedures for coupling and<br>shielding       |                           |

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|------------|--|---|---------------------------|
| EMC*       | VG 95373: Part 15<br>Jul-2004  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of equipment -<br>Part 15: Test procedures for coupling and<br>shielding   |                           |
| EMC*       | VG 95370: Part 10<br>Jan-2003  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of and in<br>systems - Part 10: Test procedure for<br>conducted emissions (current)  |                           |
| EMC*       | VG 95370: Part 11<br>Feb-2003  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of and in<br>systems - Part 11: Test procedures for<br>interference voltage  |                           |
| EMC*       | VG 95370: Part 12<br>Jan-2003  | Electromagnetic compatibility (EMC) -<br>Electromagnetic compatibility of and in<br>systems - Part 12: Test procedures for radiated<br>emissions of systems   |                           |
| EMC*       | AECTP 500 Edition 2<br>Jan-2006  | Electrical / Electromagnetic Environmental<br>Tests   | ohne NRS03                |
| EMC*       | MIL-STD-704A<br>09-Aug-1966<br>Notice 2: 05-May-1970<br>Notice 3: 11-Apr-1973  | Military Standard – Electric Power, Aircraft<br>Characteristics   |                           |
| EMC*       | MIL-STD-704E   | Military Standard – Aircraft Electric Power<br>Characteristics  |                           |
| EMC*       | MIL-STD-704F<br>12-Mar-2004  | Department of Defense Interface Standard –<br>Aircraft Electric Power Characteristics   |                           |
| EMC*       | MIL-HDBK-704-8<br>09-Apr-2004  | Department of Defense Handbook - Guidance<br>for Test Procedures for Demonstration of<br>Utilization Equipment Compliance to Aircraft<br>Electrical Power Characteristics 28 VDC (Part 8<br>of 8 Parts) |                           |
| EMC*       | MIL-STD-1275A<br>17-Sep-1976<br>Notice 1: 08-Feb-1980<br>Notice 2: 23-Apr-1981 | Military Standard – Characteristics of 28 Volt<br>DC Electrical Systems in Military Vehicles  |                           |

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|----------------------------------|---|---|---------------------------|
| EMC*                             | MIL-STD-1275B<br>20-Nov-1997                  | Department of Defense Interface Standard –<br>Characteristics of 28 Volt DC Electrical Systems<br>in Military Vehicles                    |                           |
| EMC*                             | MIL-STD-1275C<br>23-Jun-2006                  | Department of Defense Interface Standard –<br>Characteristics of 28 Volt DC Electrical Systems<br>in Military Vehicles                    |                           |
| EMC*                             | MIL-STD-1275D<br>29-Aug-2006                  | Department of Defense Interface Standard –<br>Characteristics of 28 Volt DC Electrical Systems<br>in Military Vehicles                    |                           |
| EMC*                             | MIL-STD-1275E<br>22-Mar-2013                  | Department of Defense Interface Standard –<br>Characteristics of 28 Volt DC Electrical Systems<br>in Military Vehicles                    |                           |
| EMC*                             | MIL-STD-1399 (Navy)<br>13-Oct-1987            | Department of Defense Interface Standard –<br>Characteristics of 28 Volt DC Electrical Systems<br>in Military Vehicles                    |                           |
| EMC*                             | STANAG 1008<br>Edition 8<br>21-Feb-1994       | STANAG 1008 NAV (Edition 8) – Characteristics<br>of Shipboard Electrical Power Systems in<br>Warships of the North Atlantic Treaty Navies |                           |
| EMC                              | AMD-24<br>Issue: B<br>17-Dec-2003             | A400M Directive<br>Electrical Characteristics of aircraft AC and DC<br>Systems  |                           |
| EMC                              | AMD-24<br>Issue: C<br>22-Mar-2005             | A400M Directive<br>Electrical Characteristics of aircraft AC and DC<br>Systems  |                           |
| <b>3 Standards: Space Flight</b> |   |   |                           |
| EMC                              | ECSS-E-ST-20-07C<br>31-Jul-2008               | European Cooperation for Space<br>Standardization<br>Space Engineering – Electromagnetic<br>Compatibility                                 |                           |
| EMC                              | ECSS-E-ST-20-07C_Rev.1<br>07-Feb-2012         | European Cooperation for Space<br>Standardization<br>Space Engineering – Electromagnetic<br>Compatibility                                 |                           |

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|---------------------------|--|--|---------------------------|
| EMC                       | ECSS-E-ST-20-07C, Rev.2<br>03-Jan-2022                           | European Cooperation for Space<br>Standardization –<br>Space engineering – Electromagnetic<br>compatibility  |                           |
| <b>4 Common Standards</b> |  |  |                           |
| EMC*                      | DIN EN 61000-6-2<br>(VDE 0839-6-2):03-2006<br>IEC 61000-6-2:2005 | Electromagnetic compatibility (EMC) -<br>Part 6-2: Generic standards -<br>Immunity for industrial environments<br>(IEC 61000-6-2:2005);<br>German Version EN 61000-6-2:2005  |                           |
| EMC*                      | DIN EN 61000-6-1<br>(VDE 0839-6-1):10-2007<br>IEC 61000-6-1:2005 | Electromagnetic compatibility (EMC) -<br>Part 6-1: Generic standards -<br>Immunity for residential, commercial and light-<br>industrial environments<br>(IEC 61000-6-1:2005);<br>German Version EN 61000-6-1:2007  |                           |
| EMC*                      | DIN EN 61000-4-2; VDE<br>0847-4-2:2009-12<br>IEC 61000-4-2:2008  | Electromagnetic compatibility (EMC) -<br>Part 4-2: Testing and measurement techniques<br>Electrostatic discharge immunity test<br>(IEC 61000-4-2:2008);<br>German Version EN 61000-4-2:2009  |                           |
| EMC*                      | DIN EN 61000-4-3; VDE<br>0847-4-3:2011-04<br>IEC 61000-4-3:2009  | Electromagnetic compatibility (EMC) -<br>Part 4-3: Testing and measurement techniques<br>Radiated, radio-frequency, electromagnetic<br>field immunity test<br>(IEC 61000-4-3:2006 + A1:2007 + A2:2010);<br>German version EN 61000-4-3:2006 + A1:2008<br>+ A2:2010 |                           |
| EMC*                      | DIN EN 61000-4-4; VDE<br>0847-4-4:2013-04<br>IEC 61000-4-4:2012  | Electromagnetic compatibility (EMC) -<br>Part 4-4: Testing and measurement techniques<br>Electrical fast transient/burst immunity test<br>(IEC 61000-4-4:2012);<br>German Version EN 61000-4-4:2012  |                           |

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|------------|---|--|---------------------------|
| EMC*       | DIN EN 61000-4-5; VDE<br>0847-4-5:2015-03<br>IEC 61000-4-5:2014               | Electromagnetic compatibility (EMC) -<br>Part 4-5: Testing and measurement techniques<br>Surge Immunity Test<br>(IEC 61000-4-5:2014);<br>German Version EN 61000-4-5:2014  |                           |
| EMC*       | DIN EN 61000-4-6; VDE<br>0847-4-6:2014-08<br>IEC 61000-4-6:2013               | Electromagnetic compatibility (EMC) -<br>Part 4-6: Testing and measurement techniques<br>Immunity to conducted disturbances, induced<br>by radio-frequency fields<br>(IEC 61000-4-6:2013);<br>German Version EN 61000-4-6:2014           | Without EM Clamp          |
| EMC*       | DIN EN 61000-4-8; VDE<br>0847-4-8:2010-11<br>IEC 61000-4-8:2009               | Electromagnetic compatibility (EMC) -<br>Part 4-8: Testing and measurement techniques<br>Power frequency magnetic field immunity test<br>(IEC 61000-4-8:2009);<br>German Version EN 61000-4-8:2010                                       |                           |
| EMC*       | DIN EN 61000-4-11;<br>2005-02<br>VDE 0847-4-11:2005-02<br>IEC 61000-4-11:2004 | Electromagnetic compatibility (EMC) -<br>Part 4-11: Testing and measurement<br>techniques -<br>Voltage dips, short interruptions and voltage<br>variations immunity tests<br>(IEC 61000-4-11:2004);<br>German Version EN 61000-4-11:2004 |                           |
| EMC*       | DIN EN 61000-3-2; VDE<br>0838-2:2015-03<br>IEC 61000-3-2:2014                 | Electromagnetic compatibility (EMC) -<br>Part 3-2: Limits -<br>Limits for harmonic current emissions<br>(equipment input current < 16 A per phase)<br>(IEC 61000-3-2:2014);<br>German Version EN 61000-3-2:2014                          |                           |

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|---|--|--|--|
| EMC*  | DIN EN 61000-3-3; VDE<br>0838-3:2014-03<br>IEC 61000-3-3:2013    | Electromagnetic compatibility (EMC) -<br>Part 3-3: Limits -<br>Limitation of voltage changes, voltage<br>fluctuations and flicker in public low-voltage<br>supply<br>systems, for equipment with rated current < 16<br>A per phase and not subject to conditional<br>connection<br>(IEC 61000-3-3:2013);<br>German Version EN 61000-3-3:2013 |  |
| EMC*  | DIN EN 61000-3-11<br>VDE 0838-11:2001-04<br>IEC 61000-3-11:2000  | Electromagnetic compatibility (EMC) -<br>Part 3-11: Limits - Limitation of voltage<br>changes, voltage fluctuations and flicker<br>in public low-voltage supply systems -<br>Equipment with rated current < 75 A and<br>subject to conditional connection<br>(IEC 61000-3-11:2000);<br>German Version EN 61000-3-11:2000                     |  |
| EMC*  | DIN EN 61000-3-12; VDE<br>0838-12:2012-06<br>IEC 61000-3-12:2011 | Electromagnetic compatibility (EMC) -<br>Part 3-12: Limits-<br>Limits for harmonic currents produced by<br>equipment connected to public low-voltage<br>systems<br>with input current > 16 A and < 75 A per phase<br>(IEC 61000-3-12:2011);<br>German Version EN 61000-3-12:2011   |  |
| EMC*  | DIN EN 55024:2011-09;<br>VDE 0878-24:2011-09                     | Information technology equipment -<br>Immunity characteristics -<br>Limits and methods of measurement<br>(CISPR 24:2010);<br>German Version EN 55024:2010  |  |
| <b>5                    Vibration and Shock (VUS)</b> |  |  |  |
| Environment<br>al testing*                            | DIN EN 60068-2-1;<br>2008-01<br>IEC 60068-2-1: 2007              | Environmental testing - Part 2-1: Tests - Test<br>A: Cold  | only Procedure A;<br>only in<br>combination with<br>vibration and<br>shock |

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|------------------------|---|---|--|
| Environmental testing* | DIN EN 60068-2-2;<br>2008-05<br>IEC 60068-2-2: 2007   | Environmental testing - Part 2-2: Tests - Test B: Dry Heat  | only Procedure Pb;<br>only in combination with vibration and shock |
| Environmental testing* | DIN EN 60068-2-6;<br>2008-10<br>IEC 60068-2-6:2007    | Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)   |  |
| Environmental testing* | DIN EN 60068-2-7;<br>1995-03<br>IEC 60068-2-7: 1993   | Basic environmental testing procedures - Part 2: Tests; Test Ga and guidance: Acceleration, steady                                  |  |
| Environmental testing* | DIN EN 60068-2-14;<br>2010-04<br>IEC 60068-2-14:2009  | Environmental testing - Part 2-14: Tests - Test N: Change of temperature  | only Procedure Nb;<br>only in combination with vibration and shock |
| Environmental testing* | DIN EN 60068-2-27;<br>2010-02<br>IEC 60068-2-27:2009  | Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock  |  |
| Environmental testing  | DIN EN 60068-2-31;<br>2009-04<br>IEC 60068-2-31:2008  | Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens                   |  |
| Environmental testing* | DIN EN 60068-2-53;<br>2011-02<br>IEC 60068-2-53:2010  | Environmental testing - Part 2-53: Tests and guidance: Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests | without damp heat (cyclic and constant)                            |
| Environmental testing* | DIN EN 60068-2-64;<br>2009-04<br>IEC 60068-2-64:2008  | Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance  |  |
| Environmental testing* | DIN EN 60068-2-80;<br>2006-05<br>IEC 60068-2-80:2005  | Environmental testing - Part 2-80: Tests - Test Fi: Vibration - Mixed mode  |  |
| Environmental testing* | DIN EN 60068-2-81;<br>2004-07<br>IEC 60068-2-81: 2003 | Environmental testing - Part 2-81: Tests - Test Ei: Shock - Shock response spectrum synthesis                                       |  |

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|------------------------------------|---|---|--|
| <b>6 Standards: Railway</b>        |   |   |  |
| Environmental testing*             | DIN EN 61373;<br>2011-04                      | Railway applications - Rolling stock equipment<br>- Shock and vibration tests   | Vibration from 3 /<br>4 Hz                       |
| Environmental testing*             | DIN EN 61373;<br>1999-11                      | Railway applications - Rolling stock equipment<br>- Shock and vibration tests   | Vibration from 3 /<br>4 Hz                       |
| <b>7 Standards: Automotive</b>     |   |   |  |
| Environmental testing*             | ISO 16750-3<br>2012-12                        | Road vehicles - Environmental conditions and<br>testing for electrical and electronic equipment<br>- Part 3: Mechanical loads               | without Sec 4.4<br>Scratch and Sec 4.5<br>Gravel |
| <b>8 Standards: Civil Navy</b>     |   |   |  |
| Environmental testing*             | GL<br>2012                                    | Germanischer Lloyd – Rules for Classification<br>and Construction – Guidelines for the<br>Performance of Type Approvals<br>Sec. 9 Vibration | Vibration from 3/4<br>Hz                         |
| Environmental testing*             | ABS Part 4<br>Jul-2022                        | Rules for building and classing – Marine vessels<br>Part 4: Vessel systems and machinery<br>Chapter 9, Section 9, Table 1: 5. Vibration     | Vibration ab 3 Hz<br>bzw. 4 Hz                   |
| <b>9 Standards: Civil Aviation</b> |   |   |  |
| Environmental testing*             | RTCA/DO-160D<br>Change 3<br>12-May-2002       | Environmental Conditions and Test Procedures<br>for Airborne Equipment – Section 7 -<br>Operational Shocks and Crash Safety                 |  |
| Environmental testing*             | RTCA/DO-160E<br>09-Dec-2004                   | Environmental Conditions and Test Procedures<br>for Airborne Equipment – Section 7 -<br>Operational Shocks and Crash Safety                 |  |
| Environmental testing*             | RTCA/DO-160F<br>06-Dec-2007                   | Environmental Conditions and Test Procedures<br>for Airborne Equipment – Section 7 -<br>Operational Shocks and Crash Safety                 |  |
| Environmental testing*             | RTCA/DO-160G<br>08-Dec-2010                   | Environmental Conditions and Test Procedures<br>for Airborne Equipment – Section 7 -<br>Operational Shocks and Crash Safety                 |  |
| Environmental testing*             | RTCA/DO-160D<br>Change 3<br>12-May-2002       | Environmental Conditions and Test Procedures<br>for Airborne Equipment – Section 8 - Vibration  |  |

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|-------------------------------|---|---|--|
| Environmental testing*        | RTCA/DO-160E<br>09-Dec-2004                   | Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration   |  |
| Environmental testing*        | RTCA/DO-160F<br>06-Dec-2007                   | Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration   |  |
| Environmental testing*        | RTCA/DO-160G<br>08-Dec-2010                   | Environmental Conditions and Test Procedures for Airborne Equipment – Section 8 - Vibration   |  |
| Environmental testing         | ABD0100.1.2<br>Issue E<br>09-2002             | Airbus – Environmental Conditions and Test Requirements Associated to Qualification<br>Chapter 1.5 Shocks<br>Chapter 1.6 Vibration                                  | without Acoustics  |
| Environmental testing         | ABD0100.1.2<br>Issue F<br>10-2007             | Airbus – Environmental Conditions and Test Requirements Associated to Qualification<br>Chapter 1.5 Shocks, Chapter 1.6 Vibration                                    | ohne Akustik   |
| Environmental testing         | ABD0100.1.2<br>Issue G<br>12-2008             | Airbus – Environmental Conditions and Test Requirements Associated to Qualification<br>Chapter 1.5 Shocks, Chapter 1.6 Vibration                                    | ohne Akustik   |
| Environmental testing         | SPX 902 A 0002 E01<br>Issue E<br>06/1999      | Environmental Requirements for Equipment installed on Eurocopter Helicopter<br>Chapter 5  |  |
| Environmental testing*        | ISO 2669<br>04/1995                           | Environmental tests for aircraft equipment -<br>Steady-state acceleration   |  |
| <b>10 Standards: Military</b> |   |   |  |
| Environmental testing*        | AECTP 400<br>Edition 3<br>Jan-2006            | NATO standard – Mechanical environmental tests<br>Method 401: Vibration<br>Method 405: Gunfire  | Vibration ab 3 Hz<br>bzw. 4 Hz                           |
| Environmental testing*        | AECTP 400<br>Edition 3<br>Jan-2006            | NATO standard – Mechanical environmental tests<br>Method 403: Classical waveform shock<br>Method 415: Pyroshock<br>Method 416: Rail impact<br>Method 417: SRS shock | ohne pendulum<br>impact<br>Method 415 nur<br>Procedure 4 |
| Environmental testing*        | AECTP 400<br>Edition 3<br>Jan-2006            | NATO standard – Mechanical environmental tests<br>Method 404: Constant acceleration   | nur Zentrifuge   |

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|------------------------|---|--|--|
| Environmental testing* | AECTP-400<br>Edition D Version 1<br>Nov-2019  | NATO standard – Mechanical environmental tests<br>Method 401: Vibration<br>Method 405: Gunfire   | Vibration ab 3 Hz<br>bzw. 4 Hz                           |
| Environmental testing* | AECTP-400<br>Edition D Version 1<br>Nov-2019  | NATO standard – Mechanical environmental tests<br>Method 403: Shock testing<br>Method 415: Pyroshock<br>Method 416: Rail impact  | ohne pendulum<br>impact<br>Method 415 nur<br>Procedure 4 |
| Environmental testing* | AECTP-400<br>Edition D Version 1<br>Nov-2019  | NATO standard – Mechanical environmental tests<br>Method 404: Constant acceleration  | nur Zentrifuge   |
| Environmental testing* | Def Stan 00-35<br>Issue 4<br>18-Sep-2006      | Defence Standard – Environmental handbook for defence materiel; Part 3: Environmental test methods<br>Test M1 – General purpose vibration test<br>Test M2 – Multi-exciter vibration and shock test<br>Test M5 – Impact (vertical and horizontal) test            | Vibration ab 3 Hz<br>bzw. 4 Hz                           |
| Environmental testing* | Def Stan 00-35<br>Issue 4<br>18-Sep-2006      | Defence Standard – Environmental handbook for defence materiel; Part 3: Environmental test methods<br>Test M3 – Classical and sine waveform shock<br>Test M4 – Drop, topple and roll test<br>Test M6 – Operational shock simulation test<br>Test M12 – Bump test | ohne roll test   |
| Environmental testing* | Def Stan 00-35<br>Issue 4<br>18-Sep-2006      | Defence Standard – Environmental handbook for defence materiel; Part 3: Environmental test methods<br>Test M13 – Steady state acceleration test  | nur Zentrifuge   |
| Environmental testing* | MIL-STD-810E<br>14-Jul-1989                   | Military Standard – Environmental Test Methods and Engineering Guidelines<br>Method 513.4: Acceleration  |  |
| Environmental testing* | MIL-STD-810F<br>01-Jan-2000                   | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 513.5: Acceleration   |  |

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|------------------------|---|--|--|
| Environmental testing* | MIL-STD-810G<br>31-Oct-2008                   | Department of Defense Test Method Standard<br>– Environmental Engineering Considerations<br>and Laboratory Tests<br>Method 513.6: Acceleration |  |
| Environmental testing* | MIL-STD-810G<br>w/ Change 1<br>15-Apr-2014    | Department of Defense Test Method Standard<br>– Environmental Engineering Considerations<br>and Laboratory Tests<br>Method 513.6: Acceleration | nur Zentrifuge   |
| Environmental testing* | MIL-STD-810H<br>31-Jan-2019                   | Department of Defense test method standard –<br>Environmental engineering considerations and<br>laboratory tests<br>Method 513.8: Acceleration | nur Zentrifuge   |
| Environmental testing* | MIL-STD-810E<br>14-Jul-1989                   | Military Standard – Environmental Test<br>Methods and Engineering Guidelines<br>Method 514.4: Vibration  | ohne Loose Cargo<br>and Large<br>Assembly Vibra-<br>tion; Vibration ab 3<br>/ 4 Hz     |
| Environmental testing* | MIL-STD-810F<br>01-Jan-2000                   | Department of Defense Test Method Standard<br>– Environmental Engineering Considerations<br>and Laboratory Tests<br>Method 514.5: Vibration    | ohne Loose Cargo<br>and Large<br>Assembly Vibra-<br>tion; Vibration ab 3<br>/ 4 Hz     |
| Environmental testing* | MIL-STD-810G<br>31-Oct-2008                   | Department of Defense Test Method Standard<br>– Environmental Engineering Considerations<br>and Laboratory Tests<br>Method 514.6: Vibration    | ohne Loose Cargo<br>and Large<br>Assembly Vibra-<br>tion; Vibration ab 3<br>/ 4 Hz     |
| Environmental testing* | MIL-STD-810G<br>w/ Change 1<br>15-Apr-2014    | Department of Defense Test Method Standard<br>– Environmental Engineering Considerations<br>and Laboratory Tests<br>Method 514.7: Vibration    | ohne Loose Cargo<br>and Large<br>Assembly Vibra-<br>tion; Vibration ab 3<br>/ 4 Hz     |
| Environmental testing* | MIL-STD-810H<br>31-Jan-2019                   | Department of Defense test method standard –<br>Environmental engineering considerations and<br>laboratory tests<br>Method 514.7: Vibration    | ohne loose cargo<br>and large assembly<br>vibration;<br>Vibration ab 3 Hz<br>bzw. 4 Hz |

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|------------------------|--|--|-----------------------------------|
| Environmental testing* | MIL-STD-810E<br>14-Jul-1989                            | Military Standard – Environmental Test Methods and Engineering Guidelines<br>Method 516.4: Shock                                       | ohne Pendulum Impact              |
| Environmental testing  | MIL-STD-810F<br>01-Jan-2000                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests,<br>Method 516.5: Shock     | ohne Pendulum Impact              |
| Environmental testing* | MIL-STD-810G<br>31-Oct-2008                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests,<br>Method 516.6: Shock     | ohne Pendulum Impact              |
| Environmental testing* | MIL-STD-810G<br>w/ Change 1<br>15-Apr-2014             | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 516.7: Shock      | ohne Pendulum Impact              |
| Environmental testing* | MIL-STD-810H<br>31-Jan-2019                            | Department of Defense test method standard – Environmental engineering considerations and laboratory tests<br>Method 516.7: Shock      | ohne pendulum impact              |
| Environmental testing* | MIL-STD-810F<br>01-Jan-2000                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 517: Pyroshock    | nur Procedure 5                   |
| Environmental testing* | MIL-STD-810G<br>31-Oct-2008                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests,<br>Method 517.1: Pyroshock | nur Procedure 5                   |
| Environmental testing* | MIL-STD-810G<br>w/ Change 1<br>04/2014                 | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 517.2: Pyroshock  | nur Procedure 5                   |
| Environmental testing* | MIL-STD-810H<br>31-Jan-2019                            | Department of Defense test method standard – Environmental engineering considerations and laboratory tests<br>Method 517.2: Pyroshock  |                                   |

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|------------------------|--|--|-----------------------------------|
| Environmental testing* | MIL-STD-810E<br>14-Jul-1989                            | Military Standard – Environmental Test Methods and Engineering Guidelines<br>Method 519.4: Gunfire   |                                   |
| Environmental testing* | MIL-STD-810F<br>01-Jan-2000                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 519.5: Gunfire                                      |                                   |
| Environmental testing* | MIL-STD-810G<br>31-Oct-2008                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 519.6: Gunfire                                      |                                   |
| Environmental testing* | MIL-STD-810G<br>w/ Change 1<br>15-Apr-2014             | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 519.7: Gunfire                                      |                                   |
| Environmental testing* | MIL-STD-810G<br>31-Oct-2008                            | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 528: Mechanical Vibrations of Shipboard Equipment   | Vibration<br>ab 3 / 4 Hz          |
| Environmental testing* | MIL-STD-810G<br>w/ Change 1<br>15-Apr-2014             | Department of Defense Test Method Standard – Environmental Engineering Considerations and Laboratory Tests<br>Method 528.1 Mechanical Vibrations of Shipboard Equipment  | Vibration<br>ab 3 / 4 Hz          |
| Environmental testing* | MIL-STD-810H<br>31-Jan-2019                            | Department of Defense test method standard – Environmental engineering considerations and laboratory tests<br>Method 528.1: Mechanical vibrations of shipboard equipment | Vibration ab 3 Hz<br>bzw. 4 Hz    |
| Environmental testing* | MIL-STD-167-1A<br>11/2005                              | Department of Defense Test Method Standard –<br>Mechanical Vibrations of Shipboard Equipment   | Vibration<br>ab 3 / 4 Hz          |

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**This document is a translation. The definitive version is the original German annex to the accreditation certificate.**



**Annex to the Accreditation Certificate D-PL-12001-01-00**

| Department                 | Standard /<br>in house procedure /<br>Version | Title of standard or in house procedure  | Test area /<br>Reductions             |
|----------------------------|---|--|---------------------------------------|
| <b>11 Standards: Space</b> |   |  |                                       |
| Environmental testing      | ECSS-E-ST-10-03C<br>01-June-2012              | European Cooperation for Space<br>Standardization –<br>Space engineering – Testing | nur vibration,<br>shock, acceleration |
| Environmental testing      | ECSS-E-ST-10-03C, Rev.1<br>31-May-2022        | European Cooperation for Space<br>Standardization –<br>Space engineering – Testing | nur vibration,<br>shock, acceleration |

**Abbreviations used:**

DIN Deutsches Institut für Normung e.V. – German institute for standardization  
 EN Europäische Norm – European Standard  
 IEC International Electrotechnical Commission  
 ISO International Organization for Standardisation