

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 484**

of **TÜV Rheinland Nederland B.V.**

This annex is valid from: **27-03-2024** to **01-05-2025**

Replaces annex dated: **30-08-2023**

Location(s) where activities are performed under accreditation

Head Office

Westervoortsedijk 73, Building SB
6827 AV
Arnhem
The Netherlands

| Location | Abbreviation/ location code |
|---|-----------------------------|
| Westervoortsedijk 73, Building SB 6827 AV Arnhem The Netherlands | AR |
| Eiberkamp 10 9351 VT Leek The Netherlands | LE |
| CPR artikel 46: Use of facilities outside the testing laboratory of the notified | * |

| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|---|---------------------|---|---------------------------|----------|
| Testing of Automotive Glass & Plastic Panels | | | | |
| 1. | | Fragmentation: determination of breakage behaviour. | WI-2541 ECE R43 | AR |

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on [RvA-BR010-lijst](#).
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

of **TÜV Rheinland Nederland B.V.**

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| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|-----|---|--|---------------------------------------|----------|
| 2. | Flat or curved automotive glass, glass/plastic or plastic panes | Head form: determination of resistance against impact from inside - without deceleration | WI-2543 ECE R43 - § 3.1 | AR |
| 3. | | Ball drop 227 gr: determination of resistance against impact from outside | WI-2542 ECE R43 | AR |
| 4. | | Ball drop 2260 gr: determination of resistance against impact from outside | WI-2542 ECE R43 | AR |
| 5. | | High temperature: determination of resistance against high temperature | WI-2545 ECE R43 | AR |
| 6. | | Humidity: determination of resistance against high humidity | WI-2547 ECE R43 | AR |
| 7. | Pedestrian doorsets and windows | Determination of the resistance to burglary attempts | PAS24 WI 01-4.3-1.05-501-F14-E-2-7 | AR* |

Testing of Doors and Windows

| | | | | |
|-----|--|--|---------------------------------------|-----|
| 8. | Pedestrian doorsets and windows | Determination of the resistance to burglary attempts | PAS24 WI 01-4.3-1.05-501-F14-E-2-7 | AR* |
| 9. | Pedestrian doorsets/ Windows/curtain walling/grilles shutters – Burglar resistance | Determination of the resistance under static load | EN 1628 Classification EN 1627 | AR* |
| 10. | | Determination of the resistance under dynamic load | EN 1629 Classification EN 1627 | AR* |
| 11. | | Determination of the resistance to burglary attempts | EN 1630 Classification EN 1627 | AR* |
| 12. | Windows/Doors | Determination of the resistance to windload | W2521 EN 12211 | * |
| 13. | | Determination of the water tightness | W2521 EN 1027 | * |

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| 14. | | Determination of the air tightness | W2521 EN 1026 | * |

Testing of Flooring

| | | | | |
|-----|--|--|-----------------------------|----|
| 15. | Homogeneous and heterogeneous resilient floor coverings supplied either in tile, sheet or roll form (textile floor covering including tiles; plastic and rubber sheets (aminoplastic thermosetting floorings); linoleum and cork; anti-static sheet; floor loose laid tiles; resilient laminated floorings | Reaction to fire tests for floorings — Part 1: Determination of the burning behaviour using a radiant heat source | ISO 9239-1 | AR |
| 16. | | Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. Class Bfl-s1, Bfl-s2, Cfl-s1, Cfl-s2, Dfl-s1, Dfl-s2, Efl, Ffl | EN 13501-1 | AR |
| 17. | | Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test | EN ISO 11925-2 | AR |
| 18. | Floor covering | Assessment of changes in appearance | ISO 9405 | AR |
| 19. | | Tests for colour fastness | ISO 105 parts B02, E01, X12 | AR |

Testing of Glass

| | | | | |
|-----|--|--|-----------------|----|
| 20. | Insulating glass units and flat or curved glass panels | Determination of resistance against manual attack Ball drop test | EN 356 | AR |
| 21. | | Determination of luminous and solar characteristics | EN 410 | AR |
| 22. | | Determination of thickness and light transmittance | EN 572-2 till 8 | AR |
| 23. | | Determination of U value | EN 673 | AR |
| 24. | | Determination of moisture penetration | EN 1279-2 | AR |

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|-----|--------------------------|---|--|----------------------------|
| 25. | | Determination of gas loss rate | EN 1279-3 | AR |
| 26. | | Determination of adhesion properties | EN 1279-4 | AR |
| 27. | | Determination of moisture vapour transmission rate | EN 1279-4 | AR |
| 28. | | Determination of gas permeation | EN 1279-4 | AR |
| 29. | | Determination of gaseous substance | EN 1279-6 | AR |
| 30. | | Determination of resistance against pendulum impact | EN 12600 | AR * |
| 31. | | Determination of bending strength | EN 1288-3 | AR |
| 32. | | Determination of emissivity | EN 12898 | AR |
| 33. | | Determination of breakage behaviour | EN 1863-1; EN 12150-1; EN 14179-1; EN 14321-1; EN 13024-1; EN 15682-1; EN 15683-1; | AR |
| 34. | | Determination of coating properties | EN 1096-2, -3 | AR |
| 35. | | Determination of visual and optical properties and durability | EN-ISO 12543-1 to -6 | AR |
| 36. | | Determination of light reflectance | EN 1036-1 | AR |
| 37. | | Determination of durability | EN 1036-1 | AR |
| 38. | | Polymers & Sealants used in Glass units | Differential Scanning Calorimetry | ISO 11357-1 ; -2 ; -3 ; -6 |
| 39. | Determination of density | | ISO 118301 method A ISO 2781 method A DIN EN ISO 23996 method A | AR |

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|--|--|--|---|----------|
| Testing of Surfaces and coatings | | | | |
| 40. | Surfaces and coatings | Artificial weathering and ageing | MS-0032524 NEN-EN ISO 4892-1 / 2; NEN-EN-ISO 16474-1; | AR |
| 41. | Organic and inorganic coatings on metal substrates | Determination of the resistance of coatings to corrosion according to the - Salt spray test - Condensation test - Kesternich test | 4.2.4-P.02-CTS-WI001 4.2.4-P.02-CTS-WI002 | AR |
| Testing of Furniture and Mattresses | | | | |
| 42. | Upholstered furniture and mattresses | Assessment of the ignitability of upholstered furniture - Part 2: Ignition source match flame equivalent | EN 1021-2; BS 5852-2; EN 597-2; ISO 8191-2; | AR |
| 43. | | Assessment of the ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette | EN 1021-1; BS 5852-1; EN 597-1; ISO 8191-1 | AR |
| Building products | | | | |
| 44. | Building products | Determination of the fire classification of construction products and construction parts for the tests belonging to this scope | EN 13501-2 | AR |
| 45. | Building products | Determination of resistance to fire | EN 1363-1 en -2 | * |

*The accreditation for the activities below is suitable for notification
 The notification is limited to the applicable test activities mentioned above*

**European Construction Products regulation No 305/2011
 System 3 Verification of Constancy of Performance**

Product area 2

| | | | |
|----------------------------------|---|-------------------------|-----|
| Decision: 1999/93/EC*2011/246/EU | Doors, windows, shutters, blinds, gates and related building hardware (1/1) | EN 14351-1:2006+A2:2016 | AR* |
|----------------------------------|---|-------------------------|-----|

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| Product area 19 | | | | |
| Decision: 1997/808/EC | | Floorings (2/2) Resilient and textile floorings (for internal uses) Rigid flooring products: Floor screed materials | EN 14041:2004 EN 14041:2004/AC:2006 EN 14904:2006 | AR |
| Product area 30 | | | | |
| Decision: 2000/245/EC | | Flat glass, profiled glass, glass-block products and Insulating glass units, Product family: Flat glass, profiled glass (1/6) (for use in a glazed assembly intended specifically to provide fire resistance) | EN 572-9:2004; EN 1096-4:2018; EN 1051-2:2007; EN 1279-5:2018; EN 1748-1-2:2004; EN 1748-2-2:2004; EN 1863-2:2004; EN 12150-2:2004; EN 12337-2:2004; EN 14178-2:2004; EN 14179-2:2005; EN 14321-2:2005; EN 13024-2:2004; EN 15682-2:2013; EN 15683-2:2013 | AR |
| Decision: 2000/245/EC | | Flat glass, profiled glass, glass-block products and Insulating glass units, Product family: Flat glass, profiled glass (2/6) (for uses to reaction to fire regulations) | EN 572-9:2004; EN 1096-4:2018; EN 1051-2:2007; EN 1279-5:2018; EN 1748-1-2:2004; EN 1748-2-2:2004; EN 1863-2:2004; EN 12150-2:2004; EN 12337-2:2004; EN 14178-2:2004; EN 14179-2:2005; EN 14321-2:2005; EN 13024-2:2004; EN 15682-2:2013; EN 15683-2:2013 | AR |

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| Decision: 2000/245/EC | | Flat glass, profiled glass, glass-block products and Insulating glass units, Product family: Flat glass, profiled glass (3/6) (for uses subject to external fire performance regulations) | EN 572-9:2004; EN 1096-4:2018; EN 1051-2:2007; EN 1279-5:2018; EN 1748-1-2:2004; EN 1748-2-2:2004; EN 1863-2:2004; EN 12150-2:2004; EN 12337-2:2004; EN 14178-2:2004; EN 14179-2:2005; EN 14321-2:2005; EN 13024-2:2004; EN 15682-2:2013; EN 15683-2:2013 | AR |
| Decision: 2000/245/EC | | Flat glass, profiled glass, glass-block products and Insulating glass units, Product family: Flat glass, profiled glass and glass-block products (4/6) (for other uses liable to present "safety-in-use" risks and subject to such regulations) | EN 572-9:2004; EN 1096-4:2018; EN 1051-2:2007; EN 1279-5:2018; EN 1748-1-2:2004; EN 1748-2-2:2004; EN 1863-2:2004; EN 12150-2:2004; EN 12337-2:2004; EN 14178-2:2004; EN 14179-2:2005; EN 14321-2:2005; EN 13024-2:2004; EN 15682-2:2013; EN 15683-2:2013; EN 1036-2 | AR |
| Decision: 2000/245/EC | | Flat glass, profiled glass, glass-block products and Insulating glass units, Product family: Flat glass, profiled glass (5/6) (for uses relating to energy conservation and/or noise reduction) | EN 572-9:2004; EN 1096-4:2018; EN 1051-2:2007; EN 1279-5:2018; EN 1748-1-2:2004; EN 1748-2-2:2004; EN 1863-2:2004; EN 12150-2:2004; EN 12337-2:2004; EN 14178-2:2004; EN 14179-2:2005; EN 14321-2:2005; EN 13024-2:2004; EN 15682-2:2013; EN 15683-2:2013 | AR |

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| <i>The accreditation for the activities below is suitable for notification The notification is limited to the applicable test activities mentioned above European Construction Products Regulation 305/2011, System 3 Verification of constancy of performance</i> | | | | |
| Horizontal notification (CPR Annex V.3) | | | | |
| 46. | Construction products | Resistance to fire | EN 1364-1 | * |
| 47. | | | EN 1364-3 | * |
| 48. | | | EN 1364-4 | * |
| 49. | | | EN 1634-1 | * |
| * Use of facilities outside the test laboratory of the accredited organisation | | | | |
| Safety Testing | | | | |
| 50. | Electric and electronic equipment | Power input measurement | MS-0047464; | LE |
| 51. | | Heating and temperature test | MS-0047462; | LE |
| 52. | | Leakage current measurement | MS-0047467; IEC60990 | LE |
| 53. | | Dielectric strength test | MS-0047445; IEC61180-1 | LE |
| 54. | | Insulation resistance test | MS-0047446; | LE |
| 55. | | Protection against solid objects and water test | MS-0047463; IEC60529 up to + including IP65 | LE |
| 56. | | Single fault condition test | MS-0047468 | LE |
| 57. | | Stability test | MS-0047469 | LE |
| 58. | | Mechanical hazard test | MS-0047469 | LE |
| 59. | | Glow-wire test | MS-0047470; EN60695-20-10/11/12/13 | LE |
| 60. | | Needle flame/50W/500W flame test | MS-0047471; IEC60695-11-3; IEC60695-11-4; IEC60695-11-5; IEC60695-11-10; IEC60695-11-20 | LE |

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|-----|---------------------|---|---------------------------|----------|
| 61. | | Creepage and clearance measurement | MS-0047472; IEC60664-1 | LE |
| 62. | | Direct plug-in equipment force test | MS-0047473 | LE |
| 63. | | Cord anchorage test | MS-0047474 | LE |
| 64. | | Environmental test – climatic test | MS-0047476 | LE |
| 65. | | Ball pressure test | MS-0046450 | LE |
| 66. | | Marking and instructions – Rubbing test | MS-0041460 | LE |
| 67. | | Mechanical strength test | MS-0046263 | LE |
| 68. | | Ground bonding test | MS-0046458 | LE |
| 69. | | Impulse voltage test | MS-0047465 | LE |
| 70. | | Plug discharge test | MS-0047475 | LE |

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Electromagnetic Compatibility (EMC)

| EMC.E | | Electromagnetic Compatibility Emission (EMC) | | |
|-----------------|--|---|--|----|
| EMC.E.01 | Electric and electronic equipment and equipment containing electric or electronic components | Conducted Emissions Voltage method (AN) 9 kHz – 30 MHz | MS-0043557 ; CISPR 16-1-2: 2003 incl. Corr. 2009, Amd. A1:2004 and A2: 2006; KS C 9816-1-2: 2020; CISPR 16-1-2: 2014; CISPR 16-2-1:2014; KS C 9816-2-1: 2020; CISPR 25: 2002 incl. Cor1: 2004; CISPR 25: 2008; EN 55016-1-2:2004 incl. Amd A1: 2005 and Amd A2: 2006; EN 55016-1-2: 2014; EN 55016-2-1: 2014; EN 55025: 2008, Amd1: 2008 and Amd2: 2011; ANSI C63.4: 2014; ANSI C63.10: 2013; FCC MP5; FCC MP5: 1986; | LE |
| EMC.E.02 | | Conducted Emissions Voltage method (AMN) 9 kHz – 30 MHz | MS-0043557 ; CISPR 16-1-2: 2003 incl. Corr. 2009, Amd. A1:2004 and A2: 2006; CISPR 16-1-2: 2014; CISPR 16-2-1:2014; KS C 9816-1-2-1-: 2020; CISPR 25: 2002 incl. Cor1: 2004; CISPR 25: 2008; AS/NZS CISPR 25: 2010; EN 55016-1-2; EN 55016-1-2:2004 incl. Amd A1: 2005 and Amd A2: 2006; EN 55016-1-2: 2014; EN 55016-2-1: 2014; EN 55025: 2008, Amd1: 2008 and Amd2: 2011; ANSI C63.4: 2014; ANSI C63.10: 2013; FCC MP5; FCC MP5: 1986 | LE |

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|-----------------|--|---|--|----|
| EMC.E.03 | Electric and electronic equipment and equipment containing electric or electronic components | Conducted Emissions Voltage method (LISN) 9 kHz – 30 MHz | MS-0043557 ; CISPR 16-1-2: 2003 incl. Corr. 2009, Amd. A1:2004 and A2: 2006; CISPR 16-1-2: 2014; CISPR 16-2-1:2014; KS C 9816-1-2-1-: 2020; CISPR 25: 2002 incl. Cor1: 2004, CISPR 25: 2008; AS/NZS CISPR 25: 2010; EN 55016-1-2; EN 55016-1-2:2004 incl. Amd A1: 2005 and Amd A2: 2006; EN 55016-1-2: 2014; EN 55016-2-1: 2014; EN 55025: 2008, Amd1: 2008 and Amd2: 2011; ANSI C63.4: 2014; ANSI C63.10: 2013; FCC MP5; FCC MP5: 1986 | LE |
| EMC.E.04 | | Conducted Emissions Voltage method (Voltage probe) 150 kHz – 30 MHz | MS-0043557 ; CISPR 16-1-2: 2003 incl. Corr. 2009, Amd. A1:2004 and A2: 2006; CISPR 16-1-2: 2014; CISPR 16-2-1:2014; KS C 9816-1-2-1-: 2020; CISPR 25: 2002 incl. Cor1: 2004, CISPR 25: 2008; AS/NZS CISPR 25: 2010; EN 55016-1-2; EN 55016-1-2:2004 incl. Amd A1: 2005 and Amd A2: 2006; EN 55016-1-2: 2014; EN 55016-2-1: 2014; EN 55025: 2008, Amd1: 2008 and Amd2: 2011; ANSI C63.4: 2014; ANSI C63.10: 2013; FCC MP5; FCC MP5: 1986 | LE |

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|-----------------|--|--|--|----|
| EMC.E.05 | | Conducted Emissions Current method (Current probe) 10 kHz – 30 MHz | MS-0043557 ; CISPR 16-1-2: 2003 incl. Corr. 2009, Amd. A1:2004 and A2: 2006; CISPR 16-1-2: 2014; CISPR 16-2-1:2014; KS C 9816-1-2-1-: 2020; CISPR 25: 2002 incl. Cor1: 2004, CISPR 25: 2008; AS/NZS CISPR 25: 2010; EN 55016-1-2; EN 55016-1-2:2004 incl. Amd A1: 2005 and Amd A2: 2006; EN 55016-1-2: 2014; EN 55016-2-1: 2014; EN 55025: 2008, Amd1: 2008 and Amd2: 2011; ANSI C63.4: 2014; ANSI C63.10: 2013; FCC MP5; FCC MP5: 1986 | LE |
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| | | | | |
|-----------------|--|--|--|----|
| EMC.E.15 | Electric and electronic equipment and equipment containing electric or electronic components | Radiated Emissions Semi Anechoic Chamber Method (SACM) 9 kHz – 40 GHz | MS-0043562; MS-0048644; MS-0044661; CISPR 16-1-2: 2003 incl. Corr. 2009, Amd. A1:2004 and A2: 2006; CISPR 16-1-2: 2014; CISPR 16-2-1:2014; KS C 9816-1-2-1-: 2020; EN 55016-1-2; EN 55016-1-2:2004 incl. Amd A1: 2005 and Amd A2: 2006; EN 55016-1-2: 2014; EN 55016-2-1: 2014; EN 55025: 2008, Amd1: 2008 and Amd2: 2011; AS/NZS CISPR 25: 2010; ANSI C63.4: 2014; ANSI C63.10: 2013; ISO 7637-2: 2004; ISO 7637-2: 2011; FCC MP5; FCC MP5: 1986 MS-0035489 CISPR 12 ; EN 55012:2002 ; CISPR 12:2007 ; EN 55012:2007 ; CISPR 25 ; CISPR 25 :2002 ; CISPR 25 :2017 ; ECE R10-05/01 ; ECE R10-06. | LE |
| EMC.E.18 | Lighting Equipment | Radiated Emissions Large Loop Antenna System (LLAS) 9 kHz - 30 MHz | MS-0043560 CISPR 15: 2013 ; KC S 9815: 2019 ; CISPR 16-2-3; CISPR 16-2-3: 2006, incl. Amd1: 2010; CISPR 16-2-3: 2010; CISPR 16-2-3: 2017 KC S 9816-2-3-: 2020 ; | LE |

| | | | | |
|-----------------|--|--|--|----|
| EMC.E.21 | Electric and electronic equipment and equipment containing electric or electronic components | Radiated Emissions Electric field 9 kHz - 1 GHz | MS-0043562; MS-0044661; CISPR 11; CISPR 11:1997 Incl. Amd A1:2000 and Corrigenda A1:2000 and A2: 2003; CISPR 11: 2003; CISPR 11: 2009 incl. Amd. A1: 2010; CISPR 11: 2015 incl. Amd1: 2016; CISPR 11, 2019; KS C 9811: 2019 ; AS/NZS CISPR 11: 2004 ; CISPR 13: 2001, incl Amd A1: 2003 and Amd A2: 2006 | LE |
| EMC.E.26 | | Harmonic Current Emissions (Up to and including 16A per phase) Single phase 50 Hz – 2000Hz | MS-0043563 EN 61000-3-2; IEC 61000-3-3:2018; EN 61000-3-2: 2014; IEC 61000-3-2: 2005; IEC 61000-3-2: 2004; EN 61000-3-2: 2000; KS C 9610-3-2: 2020; AS/NZS 61000.3.2: 2013 | LE |
| EMC.E.27 | | Voltage changes, voltage fluctuations and flicker Emissions (Up to and including 16A per phase) Single phase | MS-0043564 IEC 61000-3-3; IEC61000-3-3: 2013; EN 61000-3-3:2008; IEC 61000-3-3: 2002; EN 61000-3-3: 1995; KS C 9610-3-3: 2020; AS/NZS 61000.3.3: 2023 | LE |
| EMC.E.31 | Automotive Electronic Components and Sub-components (ESA – Electronic Sub Assemblies) | Transient emission for ESA's along supply lines 12V and 24V | MS-0043580 ISO 7637-2; ISO 7637-2 : 2004 incl. Amd A1 : 2008 | LE |
| EMC.E.33 | | Radio disturbance (ALSE method) 30 MHz – 2 GHz | MS-0043578 CISPR 25 ; CISPR 25: 2002 ; CISPR 25: Corrigendum 2004, CISPR 25:2017 ; AS/NZS CISPR 25 : 2010; EN 55025: 2008 ; EN 55025: 2017, | LE |

EMC Electromagnetic Compatibility Immunity/ Susceptability

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| | | | | |
|-----------------|--|---|---|----|
| EMC.I.07 | Electric and electronic equipment and equipment containing electric or electronic components | Immunity to conducted disturbances Induced by radio-frequency fields 0 – ≤ 30 V/rms 150 kHz – 230 MHz | MS-0043569 EN 61000-4-6; IEC 61000-4-6: 2003; IEC 61000-4-6:2006; EN 61000-4-6: 2007; EN 61000-4-6: 2009; EN 61000-4-6: 2014 | LE |
| EMC.I.12 | | Radiated Immunity Electric Field 20 MHz – 6 GHz | MS-0043566 EN 61000-4-3; EN 61000-4-3: 2002; EN 61000-4-3: 2006, incl Amd A1:2007 and A2: 2010; KS C 9610-4-3: 2017; CISPR 25; CISPR 25: 2002; CISPR 25: Corrigendum 2004, EN 55025: 2008; EN 55025: 2017; CISPR 25: 2017; ISO 11452-2; ISO 11452-2: 2004; ISO 11452: 2019 | LE |
| EMC.I.21 | | Electrostatic discharge Immunity (ESD), Contact Discharge +/- 0 – 8 kV, Air Discharges +/- 0 – 15 kV | MS-0043565 IEC/EN 61000-4-2; IEC 61000-4-2: 2001 incl. Amd. A1: 2001; IEC 61000-4-2: 2008 KS C 9610-4-2: 2017; | LE |
| EMC.I.22 | | Electrical fast transient / burst Immunity (EFT) 3 phase max 32 A/Phase 0 - 5.3 kV | MS-0043567 IEC/EN 61000-4-4; EN 61000-4-4: 1995 incl. Amd A2: 2001 ; EN 61000-4-4: 2004, incl. Amd's A2: 2001 and A1: 2010 EN 61000-4-4: 2012 KS C 9610-4-4: 2020; | LE |
| EMC.I.23 | | Surge Immunity 3 phase max 32 A/ Phase 0 - 6 kV | MS-0043568 EN 61000-4-5; IEC 61000-4-5: 2001; EN 61000-4-5: 2006; IEC 61000-4-5: 2014, Incl. Amd. A1: 2017 KS C 9610-4-5: 2020; | LE |
| EMC.I.24 | | Power frequency magnetic field Immunity Continuous magnetic field Immunity, 50, 60, 16 Hz, DC up to 100 A/m (0.000125 Tesla) | MS-0043570 IEC/EN 61000-4-8; IEC61000-4-8: 2001, incl. A1: 2001 ; EN 61000-4-8: 2010 KS C 9610-4-9: 2017; | LE |

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| EMC.I.25 | | Pulsed magnetic field Immunity ≤ 100 A/m | MS-0043571 IEC/EN 61000-4-9; IEC 61000-4-9 : 2001, incl. Amd A1 : 2001 ; EN 61000-4-9: 2016 KS C 9610-4-9: 2019; | LE |
| EMC.I.26 | | Voltage dips, short interruptions and voltage variations Immunity Single phase ≤ 16A 10 – 5000 ms Angle(s) 0 – 360 degra | MS-0043572 IEC/EN 61000-4-11; KS C 9610-4-11: 2020; IEC 61000-4-11: 2004 incl. Amd A1: 2017 | LE |
| EMC.I.38 | | Damped oscillatory wave 100 kHz, 1 MHz; ≤ 4400 V 3 phase 32 A/Phase | MS-0035447 IEC/EN 61000-4-18; EN 61000-4-18 : 2007, incl. Amd. A1 : 2007 ; IEC 61000-4-18 :2019 | LE |
| EMC.I.39 | Automotive Electronic Components and Sub-components (ESA – Electronic Sub Assemblies) | Electric transient transmission along supply lines Immunity Pulses 1, 2a, 2b, 3a, 3b, 4 | MS-0043580; MS-0047646 ECE R10-05/1; ECE R10-6; ISO 7637-2; ISO 7637-2:2004 incl. Amd. 1:2008 | LE |
| EMC.I.41 | | Radiated Immunity, Semi Anechoic Chamber (ALSE) method 20 MHz – 2000 MHz | MS-0043582 ISO 11452-2:2004; ISO 11452:2019; EN, ECE R10-5/6 | LE |

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**Product standards containing one or more of the above mentioned test activities are listed below.
 Accreditation is only applicable to the tests mentioned above.**

EMC Testing

| | | | |
|-----------------|---|--|---|
| EMC.S.01 | Electrical and electronic equipment EMC tests | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.33, EMC.I.38 | EN 12015; KS B 6955: 2019; EN 12016; KS B 6945: 2019; EN 12405; EN 12895; EN 13309; EN 45501; EN 50065-1; EN 50065-2-1; EN 50065-2-2; EN 50065-2-3; EN 50121-1; EN 50121-2; EN 50121-3-1; EN 50121-3-2; EN 50121-4; EN 50121-5; EN 50130-4; EN 50148; EN 50293; EN 50370-1; EN-50470-1; EN 50491-5-1; EN 50491-5-2; EN 50491-5-3; EN 50498; EN 50561-1; EN 55011; EN 55012; EN 55014-1; EN 55014-2; EN 55015; EN 55024; EN 55025; EN55103-1; EN 55103-2; EN 55032; EN 55035; KS C 9835: 2019; EN/IEC 60601-1-2; KS C IEC 60601-1-2: 2007; EN/IEC 60730-1; |
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| EMC.S.01 | Electrical and electronic equipment EMC tests | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.33, EMC.I.38 | EN/IEC60730-2-7; EN/IEC60730-2-18; EN/IEC 61000-6-1; KS C 9610-6-1: 2019; AS/NZS 61000-6-1: 2000; EN/IEC 61000-6-2, KS C 9610-6-2: 2019; AS/NZS 61000-6-2: 2022; EN/IEC 61000-6-3; KS C 9610-6-3: 2017; AS/NZS 61000-6-3: 2021; EN/IEC 61000-6-4; AS/NZS 61000-6-4: 2012; EN/IEC 61037; EN/IEC 61038; EN/IEC 61131-2; EN/IEC 61204-3; EN/IEC 61326-1; EN/IEC 61326-2-1, EN/IEC 61326-2-2; EN/IEC 61326-2-3; EN/IEC 61326-2-6, EN/IEC 61326-3; EN/IEC 61547; EN/IEC 61800-3; KS C 9800-3: 2017; EN/IEC 62052-11; EN/IEC 62040-2; KS C 9040-2: 2017; EN/IEC 62052-21; EN/IEC 62053-11, EN/IEC 62053-21; EN/IEC 62054-11; EN/IEC 62054-21; EN/IEC 61851-21-2: 2018; CISPR 11; KS C 9811:2019; CISPR 14-1; AS/NZS CISPR 14.1: 2021; CISPR 14-2; AS/NZS CISPR 14.2: 2021; CISPR 15; KS C 9815: 2019; AS/NZS CISPR 15: 2011; CISPR 32, AS/NZS CISPR 32: 2015; CISPR 35; 2016; KS C 9835: 2019; EN/IEC 62052-11; EN/IEC 62040-2; OIML R117; |
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| | | | OIML R118; OIML R76; EN 301 386; EN 301 489-1 up to EN 301 489-53; KS X 3124: 2020 KS X 3126: 2020 KS X 3129: 2020 KS X 3128: 2014 KS X 3131: 2014 KN 301 489-5 KS X 3125: 2020 KS X 3130: 2014 KS X 3134: 2014 KS X 3135: 2020 KS X 3132: 2014 KS X 3136: 2014 KS X 3137: 2014 KS X 3138: 2015 KS X 3139: 2014 EN 301 843-1; EN 301 843-2 | |
| EMC.S.02 | Wheelchairs and similar products | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.33, EMC.I.38 | EN 12182; EN 12184; ISO 7176-14; ISO 7176-21; ISO 7176-22 | |

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| EMC.S.03 | Measuring relays and protection equipment | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.33, EMC.I.38 | IEC/EN 60255-25: 2013 Table 1, items 1.1, 1.2; Table 2, items 2.1; Table 3 Items 3.1, 3.2, 3.3; Table 4, items 4.1, 4.2, 4.3, 4.4, 4.5 AC dips only, 4.6 AC only, Table 5, items 5.1, 5.2, 5.3, 5.4, Table 6, items 6.1, 6.2, 6.3, 6.4, Table 7, items 7.1, 7.2 |
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EMC Testing – Automotive

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|-----------------|----------------------|--|---|
| EMC.S.04 | Automotive EMC tests | EMC.E.31, EMC.E.33, EMC.I.39, EMC.I.41 | United Nations Regulations ECE R10.05/01; ECE R10.06; ISO 7637-2; CISPR 25; EN 55025; CISPR 12; EN 55012; EN 50948, ISO11452-2; ISO11452-2:2004; ISO 11452:2019 |
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FCC tests (Federal Communication Commission)

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| EMC.S.05 | FCC EMC tests | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, | ANSI C63.2 ; ANSI C63.4 2014 ; 47 CFR Part 15 ; 47 CFR Part 18 ; |
| EMC.S.07 | ISED EMC tests | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, | ICES-001, ICES-003, RSS-Gen, RSS-210, RSS-247, RSS-102 (RF Exposure) and (NS) ; SPR-002 ANSI C63.2 ; ANSI C63.4-2014 ; ANSI C63.10-2013 |
| EMC.S.08 | Wheelchairs and similar products | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.33, EMC.I.38 | EN 12182, EN 12184, ISO 7176-14, ISO 7176-21, ISO 7176-22 |

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| EMC.S.09 | Measuring relays and protection equipment | EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.15, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.33, EMC.I.38 | IEC/EN 60255-25: 2013 Table 1, items 1.1, 1.2, Table 2, items 2.1, Table 3 Items 3.1, 3.2, 3.3, Table 4, items 4.1, 4.2, 4.3, 4.4, 4.5 AC dips only, 4.6 AC only, Table 5, items 5.1, 5.2, 5.3, 5.4, Table 6, items 6.1, 6.2, 6.3, 6.4, Table 7, items 7.1, 7.2 | |
| | Unintentional Radiatos (FCC Part 15, subpart B) | EMC E.15 | ANSI C63.4 :2014 | |
| | Industrial, Scientific and Medical Qipment (FCC Part 18) | EMC.E.15, EMC.E.21 | FCC Part 18 and FCC MP-5 ANSI C63.4 :2014 | |

Safety Testing

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|--|-------------------------------------|--|---|--|
| | Electrical and electronic equipment | Scope activities as described under Safety Testing above | EN/IEC 60065; EN/IEC 60335-1; EN/IEC 60950-1; EN/IEC 62368-1; EN/IEC 61010-1; EN/IEC 61010-2-010; EN/IEC 61010-2-081; EN/IEC 61010-2-101, EN/IEC 62311; EN50360; EN50566; EN62479 EN 12184 ; EN/IEC 62052-31 | |
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