

Date

Reference

2021-03-19

2021/507

Scope of accreditation

Testing laboratory according to SS-EN ISO/IEC 17025:2018

RISE Research Institutes of Sweden AB

Borås

Accreditation number

1002

Elektrifiering och pålitlighet

A002626-087

Climate and environmental durability

Electrical quantities

Method	Parameter	Material	Flex	Type of flex	Field	Note
EN 50130-5		Alarm units	Yes	2	No	
EN 50155		Railway applications	Yes	2	No	Testing according to chapter 13
GL VI Germanisher Lloyd		Electrical equipment	Yes	2	No	Part 7, ch. 2 sections 1, 2 and sections 3B.5, 6, 7, 9, 10. Not table 3.18.
GR-63-CORE		Electrical equipment	Yes	2	No	

Climate and environmental durability

Electrical safety

Method	Parameter	Material	Flex	Type of flex	Field	Note
ABS		Ship	Yes	2	No	Part 4, chapter 9, section 7, test 3, 4, 9
Bureau Veritas Part C		Ship	Yes	2	No	ch 3, sec 6, test 7, 8
DNV standards for certification No. 2.4		Electrical equipment	Yes	2	No	Clause 3.12, 3.13
		Electrical equipment	Yes	2	No	Clause 3.6, 3.7, 3.8, 3.9
DNVGL-CG-0339		Electrical equipment	Yes	2	No	Section 3: Test 11
IACS Req. E10		Electrical equipment	Yes	2	No	9. Insulation resistance 10. High voltage
IEC 60068-2-18		Electrical equipment	Yes	2	No	Encapsulation class

IEC 60092-504		Electrical equipment	Yes	2	No	Clause 5, Test 3, 5
Lloyds Register Type Approval System, Test Specification Number 1		Electrical equipment	Yes	2	No	Clause 7 - Insulation resistance test, Clause 19, High voltage test, Enclosure test class - Clause 2

Climate and environmental durability

Temperature/Humidity

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
ASTM D4169-16		Electrical equipment	Yes	2	No	ch 6
Bureau Veritas Part C		Ship	Yes	2	No	ch 3, sec 6, test 7, 8
ETSI EN 300 019-2		Electrical equipment	Yes	2	No	
GR-63-CORE		Electrical equipment	Yes	2	No	
IACS Req. E10		Marine safety equipment	Yes	2	No	5.Dry heat 6.Damp heat 7.Vibration 9.Insulation resistance 10.High voltage 11.Cold
IEC 60068-2-1		Electrical equipment	Yes	2	No	
IEC 60068-2-14		Electrical equipment	Yes	2	No	
IEC 60068-2-2		Electrical equipment	Yes	2	No	
IEC 60068-2-3		Electrical equipment	Yes	2	No	
IEC 60068-2-30		Electrical equipment	Yes	2	No	
IEC 60068-2-38		Electrical equipment	Yes	2	No	
IEC 60068-2-56		Electrical equipment	Yes	2	No	
IEC 60068-2-78		Electrical equipment	Yes	2	No	
IEC 60945		Electrical equipment	Yes	2	No	Encapsulation class
Lloyds Register Type Approval System, Test Specification Number 1		Electrical equipment	Yes	2	No	Chapter 10, 11 ,14, 15, 17, 18

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Climate and environmental durability

Vibration and shock

Method	Parameter	Material	Flex	Type of flex	Field	Note
ASTM D4169-14		Electrical equipment	Yes	2	No	ch 12
ASTM D4169-16		Electrical equipment	Yes	2	No	ch 12
Bureau Veritas Part C		Ship	Yes	2	No	ch 3, sec 6, test 7. 8
ETSI EN 300 019-2		Electrical equipment	Yes	2	No	
GR-63-CORE		Electrical equipment	Yes	2	No	
IACS Req. E10		Marine safety equipment	Yes	2	No	5.Dry heat 6.Damp heat 7.Vibration 9.Insulation resistance 10.High voltage 11.Cold
IEC 60068-2-27		Electrical equipment	Yes	2	No	
IEC 60068-2-29		Electrical equipment	Yes	2	No	
IEC 60068-2-31		Electrical equipment	Yes	2	No	
IEC 60068-2-32		Electrical equipment	Yes	2	No	
IEC 60068-2-50		Electrical equipment	Yes	2	No	
IEC 60068-2-51		Electrical equipment	Yes	2	No	
IEC 60068-2-6		Electrical equipment	Yes	2	No	
IEC 60068-2-64		Electrical equipment	Yes	2	No	
IEC 60068-2-80		Electrical equipment	Yes	2	No	
IEC 61373		Railway applications	Yes	2	No	Except chapter 15, 16 and annex A and C
Lloyds Register Type Approval System, Test Specification Number 1		Electrical equipment	Yes	2	No	Chapter 12,13
SS-EN 61373		Railway applications	Yes	2	No	Except chapter 15, 16 and annex A and C

Electrical testing

Electrical safety

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
IEC 62133-1	Nickel, Ni	Batteries	Yes	2	No	
IEC 62133-2	Lithium, Li	Batteries	Yes	2	No	

Functional testing

Electrical safety

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
2004/22/EC		Taximeter	Yes	2	No	
2014/32/EU		Taximeter	Yes	2	No	Measuring instruments Annex I + Annex IX MI - 007
EN 12101-10		Extinguishing system	Yes	2	No	
EN 50131-1		Alarm units	Yes	2	No	
EN 50131-10		Alarm units	Yes	2	No	Excluded: Titanium content measurement according to sections 8.1, 17.4.3
EN 50131-3		Alarm units	Yes	2	No	
EN 50131-4		Alarm units	Yes	2	No	
EN 50131-6		Alarm units	Yes	2	No	
EN 50136-1		Alarm units	Yes	2	No	
IEC 60945		Electrical equipment	Yes	2	No	Clause 4.6.1, 12.1
Inhouse method; 2904		Electrical equipment	Yes	2	No	Taximeter
Inhouse method; 5000		Taximeter	Yes	2	No	
OIML R21		Taximeter	Yes	2	No	
STAFS 2006:11		Taximeter	Yes	2	No	

STAFS 2006:17		Taximeter	Yes	2	No	
STAFS 2006:4		Taximeter	Yes	2	No	Annex 1
STAFS 2012:5		Taximeter	Yes	2	No	

Functional testing

Personal protective equipment

Method	Parameter	Material	Flex	Type of flex	Field	Note
SS-EN 16350		Protective clothing	Yes	2	No	

Functional testing

Safety testing of machinery

Method	Parameter	Material	Flex	Type of flex	Field	Note
Inhouse method; 5169	Protective effect	Machine safety	Yes	2	No	

IT- and communications testing

Information security

Method	Parameter	Material	Flex	Type of flex	Field	Note
EN 50136-10		Alarm units	Yes	2	No	
EN 50136-1-1		Alarm units	Yes	2	No	
EN 50136-2		Alarm units	Yes	2	No	
EN 50136-3		Alarm units	Yes	2	No	
EN 50136-6		Alarm units	Yes	2	No	
EN 54-13		Alarm units	Yes	2	No	
EN 54-18		Alarm units	Yes	2	No	Not detectors
EN 54-2		Alarm units	Yes	2	No	

EN 54-21		Alarm units	Yes	2	No	
EN 54-4		Alarm units	Yes	2	No	
IEC 61508-1	Software	Electrical equipment	Yes	2	No	
IEC 61508-2	Software	Electrical equipment	Yes	2	No	
IEC 61508-3	Software	Electrical equipment	Yes	2	No	
IEC 61508-4	Software	Electrical equipment	Yes	2	No	
IEC 61508-5	Software	Electrical equipment	Yes	2	No	
IEC 61508-6	Software	Electrical equipment	Yes	2	No	
IEC 61508-7	Software	Electrical equipment	Yes	2	No	
IEC 61511-1	Software	Electrical equipment	Yes	2	No	
IEC 61511-2	Software	Electrical equipment	Yes	2	No	
IEC 61511-3	Software	Electrical equipment	Yes	2	No	
Inhouse method; 2081	Software	Measuring instrument	Yes	2	No	
Inhouse method; 4082	Software	Measuring instrument	Yes	2	No	
Inhouse method; 4141	Software	Electrical equipment	Yes	2	No	
Inhouse method; 5327	Software	Reports centers for taxi traffic	Yes	2	No	
Inhouse method; 5328	Communication	Alarm units	Yes	2	No	
Inhouse method; 5627	Software	Electrical equipment	Yes	2	No	
ISO 16750-1		Traffic and vehicles	Yes	2	No	Chapter 5 and 6
ISO 16750-3		Traffic and vehicles	Yes	2	No	Except clauses 4.4 and 4.5
ISO 16750-4		Traffic and vehicles	Yes	2	No	Except clause 5.10
SIS-TR 91101	Communication	Alarm units	Yes	2	No	
SIS-TR 91102	Communication	Alarm units	Yes	2	No	
SS 91100	Communication	Alarm units	Yes	2	No	

TSFS 2016:47	Software	Reports centers for taxi traffic	Yes	2	No	
WELMEC 7.2	Software	Measuring instrument	Yes	2	No	

Safety testing

Electrical safety

Method	Parameter	Material	Flex	Type of flex	Field	Note
ABS		Ship	Yes	2	No	Part 4, chapter 9, section 7, chapter 7-8
EN 13763-1		Blasting equipment	Yes	2	No	
EN 13763-11		Blasting equipment	Yes	2	No	
EN 13763-12		Blasting equipment	Yes	2	No	
EN 13763-13		Blasting equipment	Yes	2	No	
EN 13763-15		Blasting equipment	Yes	2	No	
EN 13763-16		Blasting equipment	Yes	2	No	
EN 13763-17		Blasting equipment	Yes	2	No	
EN 13763-18		Blasting equipment	Yes	2	No	
EN 13763-19		Blasting equipment	Yes	2	No	
EN 13763-2		Blasting equipment	Yes	2	No	
EN 13763-20		Blasting equipment	Yes	2	No	
EN 13763-21		Blasting equipment	Yes	2	No	
EN 13763-22		Blasting equipment	Yes	2	No	
EN 13763-23		Blasting equipment	Yes	2	No	
EN 13763-24		Blasting equipment	Yes	2	No	
EN 13763-25		Blasting equipment	Yes	2	No	
EN 13763-3		Blasting equipment	Yes	2	No	
EN 13763-4		Blasting equipment	Yes	2	No	
EN 13763-5		Blasting equipment	Yes	2	No	

EN 13763-6		Blasting equipment	Yes	2	No	
EN 13763-7		Blasting equipment	Yes	2	No	
EN 13763-8		Blasting equipment	Yes	2	No	
EN 13763-9		Blasting equipment	Yes	2	No	
EN 60215		Radio equipment	Yes	2	No	Accredited test according to 21.1, Implosion not performed by SP
GL Germanisher Lloyd		Ship	Yes	2	No	Annex 13-14
IEC 60335-1		Household appliances	Yes	2	Yes	Section 8, 10, 11, 13, 19, 20, 27, 29
IEC 60335-2-100		Household appliances	Yes	2	No	
IEC 60335-2-21		Household appliances	Yes	2	No	
IEC 60335-2-29		Household appliances	Yes	2	No	
IEC 60335-2-35		Household appliances	Yes	2	No	
IEC 60335-2-40		Household appliances	Yes	2	No	
IEC 60335-2-47		Household appliances	Yes	2	No	
IEC 60335-2-51		Household appliances	Yes	2	No	
IEC 60529		Electrical equipment	Yes	2	No	Encapsulation class
IEC 60695-2-10		Electrical equipment	Yes	2	No	
IEC 60695-2-11		Electrical equipment	Yes	2	No	
IEC 60950-1		Systems and products	Yes	2	Yes	2.10.8, 4.2.8, Annex A3, Annex U, Annex AA not included
IEC 60950-22		Systems and products	Yes	2	Yes	Section 6.1
IEC 61010-1		Laboratory equipment	Yes	2	No	
IEC 61010-2-010		Laboratory equipment	Yes	2	No	
IEC 61010-2-101		Medical Devices	Yes	2	No	
IEC 62368-1		Alarm units	Yes	2	Yes	Limitations for certain tests/clauses.
Inhouse method; 1939-1-30		Blasting equipment	Yes	2	No	

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Inhouse method; 2204		Electrical equipment	Yes	2	No	
Inhouse method; 2844		Blasting equipment	Yes	2	No	
ISO/IEC 60215		Radio equipment	Yes	2	No	Accredited test according to 21.1, Implosion not performed by SP
SS 4330790		Household appliances	Yes	2	No	
SS 4990701		Blasting equipment	Yes	2	No	
SS 4990707		Blasting equipment	Yes	2	No	
SS-EN 50155		Railway applications	Yes	2	No	Section 12.2.9 Insulation test
SS-EN 60215		Radio equipment	Yes	2	No	Accredited test according to 21.1, Implosion not performed by SP
SS-EN 60335-1		Household appliances	Yes	2	Yes	Section 8, 10, 11, 13, 19, 20, 27, 29
SS-EN 60335-1-35		Household appliances	Yes	2	No	Section 8, 10, 11, 13, 19, 20, 27, 29
SS-EN 60335-2-21		Household appliances	Yes	2	No	
SS-EN 60335-2-29		Household appliances	Yes	2	No	
SS-EN 60335-2-35		Household appliances	Yes	2	No	
SS-EN 60335-2-40		Household appliances	Yes	2	No	
SS-EN 60335-2-47		Household appliances	Yes	2	No	
SS-EN 60335-2-49		Household appliances	Yes	2	No	
SS-EN 60335-2-51		Household appliances	Yes	2	No	
SS-EN 60529		Electrical equipment	Yes	2	No	Encapsulation class
SS-EN 60695-2-11		Electrical equipment	Yes	2	No	
SS-EN 60950-1		Systems and products	Yes	2	Yes	2.10.8, 4.2.8, Annex A3, Annex U, Annex AA not included
SS-EN 60950-22		Systems and products	Yes	2	Yes	Section 6.1
SS-EN 61010-1		Laboratory equipment	Yes	2	No	
SS-EN 61010-2-010		Laboratory equipment	Yes	2	No	

SS-EN 61010-2-030		Laboratory equipment	Yes	2	No	
SS-EN 61010-2-081		Laboratory equipment	Yes	2	No	
SS-EN 61010-2-101		Laboratory equipment	Yes	2	No	
SS-EN 62368-1		Systems and products	Yes	2	Yes	Limitations for certain tests/clauses
SS-ISO 20653		Electrical equipment	Yes	2	No	Encapsulation class

Safety testing

Safety testing of machinery

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
EN IEC 62061	Protective effect	Machine safety	Yes	2	No	
EN ISO 13849-1	Protective effect	Machine safety	Yes	2	No	
IEC 60335-2-103	Protective effect	Machine safety	Yes	2	No	
IEC 62061	Protective effect	Machine safety	Yes	2	No	
Inhouse method; 2737	Protective effect	Machine safety	Yes	2	No	
Inhouse method; 4395	Protective effect	Machine safety	Yes	2	No	
SP-Method 5170	Protective effect	Machine safety	Yes	2	No	
SP-Method 5346	Protective effect	Machine safety	Yes	2	No	
SS-EN 62061	Protective effect	Machine safety	Yes	2	No	
SS-EN 954-1	Protective effect	Machine safety	Yes	2	No	
SS-EN ISO 10218-1	Protective effect	Machine safety	Yes	2	No	
SS-EN ISO 13849-1	Protective effect	Machine safety	Yes	2	No	

Safety testing

Vehicle components

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>

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Inhouse method; 5001	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-1	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-10	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-11	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-12	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-2	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-3	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-4	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-5	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-6	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-7	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-8	Electrical function verification	Electrical equipment	Yes	2	No	
ISO 26262-9	Electrical function verification	Electrical equipment	Yes	2	No	

Changes in the scope of accreditation are in bold.

The accreditation also applies to the corresponding version of the international EN and ISO standards.

The scope of accreditation is flexible as specified in this decision. The accredited body must always retain a current list of the scope for which it is accredited.

Type of flexible scope

1: - Introduce new version of standard method and make editorial changes to non-standard method

2: - Introduce new version of standard method and make editorial changes to non-standard method - Introduce new version and modifications of non-standard method. The procedure must be equivalent - Introduce new parameter/component/characteristics - Introduce new measurement range - Introduce new material/new products/matrices - Introduce new method equivalent to methods already in the accreditation decision