

Date

2024-07-02

Reference

2022/2584

Scope of accreditation

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

RISE Research Institutes of Sweden AB

Borås

Accreditation number

1002

Kemi och tillämpad mekanik

A002626-092

Chemical analysis

Technical area	Parameter	Method	Technique	Material	Flex	Type of flex	Field	Note
Fire testing	Calorific value	SS-EN ISO 1716	Bomb calorimeter	Construction products	Yes	2	No	
Fuel analysis	Ash content	ISO 1171	Gravimetry	Coal	Yes	2	No	
		SS-EN ISO 18122	Gravimetry	Biofuel	Yes	2	No	
		SS-EN ISO 6245	Gravimetry	Petroleum products	Yes	2	No	
	Calorific value	ASTM D4809	Bomb calorimeter	Petroleum products	Yes	2	No	
		ISO 1928	Bomb calorimeter	Ash	Yes	2	No	
			Bomb calorimeter	Liquor	Yes	2	No	
			Bomb calorimeter	Solid fuels	Yes	2	No	
		SS-EN ISO 18125	Bomb calorimeter	Biofuel	Yes	2	No	
	Carbon, C	ASTM D5291	Combustion	Liquid fuels	Yes	2	No	
		ASTM D6866	Combustion		Yes	2	No	
		Inhouse method; 0498	Combustion	Coal	Yes	2	No	
		Inhouse method; SP0542	Combustion	Liquor	Yes	2	No	
		SS-EN ISO 16948	Combustion	Ash	Yes	2	No	
			Combustion	Biofuel	Yes	2	No	
			Combustion	Peat	Yes	2	No	
	Chlorine, Cl	SS-EN ISO 16994	Ion chromatography	Biofuel	Yes	2	No	
	Chlorine, Cl, total	Inhouse method; 0543	Ion chromatography	Liquor	Yes	2	No	

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Fuel analysis	Density	ASTM D4052	U-shaped oscillating tube	Liquid fuels	Yes	2	No	
		SS-EN 16896	U-shaped oscillating tube	Liquid fuels	Yes	2	No	
		SS-EN ISO 3838	Pycnometer	Liquor	Yes	2	No	
	Dry matter	Inhouse method; 0544	Gravimetry	Liquor	Yes	2	No	
	Flash point	SS-EN ISO 3679	Closed cup	Chemicals	Yes	2	No	
	Hydrogen, H	ASTM D5291	Combustion	Liquid fuels	Yes	2	No	
		Inhouse method; 0498	Combustion	Coal	Yes	2	No	
		Inhouse method; SP0542	Combustion	Liquor	Yes	2	No	
		SS-EN ISO 16948	Combustion	Ash	Yes	2	No	
			Combustion	Biofuel	Yes	2	No	
			Combustion	Peat	Yes	2	No	
	Moisture content	Inhouse method; 0516	Gravimetry	Ash	Yes	2	No	
			Gravimetry	Solid fuels	Yes	2	No	
		SS-EN 14780	Gravimetry	Biofuel	Yes	2	No	
		SS-EN ISO 18134-2	Gravimetry	Biofuel	Yes	2	No	
			Gravimetry	Peat	Yes	2	No	
		SS-EN ISO 18134-3	Gravimetry	Biofuel	Yes	2	No	
			Gravimetry	Biological materials/biota	Yes	2	No	
			Gravimetry	Peat	Yes	2	No	
		SS-ISO 589	Gravimetry	Coal	Yes	2	No	
	Nitrogen, N	ASTM D5291	Combustion	Liquid fuels	Yes	2	No	
		Inhouse method; 0498	Combustion	Coal	Yes	2	No	

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Fuel analysis	Nitrogen, N	SS-EN ISO 16948	Combustion	Ash	Yes	2	No	
			Combustion	Biofuel	Yes	2	No	
			Combustion	Peat	Yes	2	No	
	Sample preparation	SS-ISO 13909-4		Coal	Yes	2	No	
	Sulfur, S	ASTM D1552	Combustion	Petroleum products	Yes	2	No	
		ASTM D4239	Combustion, IR	Solid fuels	Yes	2	No	
		Inhouse method; 0543	Ion chromatography	Liquor	Yes	2	No	
		SS-EN ISO 16994	Combustion	Biofuel	Yes	2	No	
	Surface humidity	SS-ISO 13909-4	Gravimetry	Coal	Yes	2	No	
	Unburned	SS 187187	Gravimetry	Ash	Yes	2	No	
			Gravimetry	Solid fuels	Yes	2	No	
	Viscosity	SS-EN 16896	Kinematic viscosity	Liquid fuels	Yes	2	No	
		SS-EN ISO 3104	Viscometer	Petroleum products	Yes	2	No	
	Volatile substances	ISO 562	Gravimetry	Coal	Yes	2	No	
	Water content	SS-EN 15692	Karl Fischer	Ethanol	Yes	2	No	
		SS-ISO 3733	Distillation	Petroleum products	Yes	2	No	
Inorganic chemistry	Aluminium, Al	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	

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Inorganic chemistry	Aluminium, Al	SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Antimony, Sb	Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Arsenic, As	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 0671	ICP-OES	Impregnating fluids	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5214	XRF	Wood materials	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Barium, Ba	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
	Beryllium, Be	ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	

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Inorganic chemistry	Bismut, Bi	Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
	Boron, B	Inhouse method; 0670	ICP-OES	Wood materials	Yes	2	No	
		Inhouse method; 0671	ICP-OES	Impregnating fluids	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
	Cadmium, Cd	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Calcium, Ca	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Carbon, C	SS 187186	Combustion	Solid materials	Yes	2	No	
		SS-EN ISO 15350	Combustion	Steel	Yes	2	No	
	Carbonate content	ISO 925	Gravimetry	Ash	Yes	2	No	
			Gravimetry	Liquor	Yes	2	No	

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Inorganic chemistry	Chloride	Inhouse method; 0665	Ion chromatography	Cement	Yes	2	No	
			Ion chromatography	Solid materials	Yes	2	No	
	Chloride, leachable	SS-EN 1744-1	Ion chromatography	Aggregat	Yes	2	No	
	Chromium, Cr	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 0670	ICP-OES	Wood materials	Yes	2	No	
		Inhouse method; 0671	ICP-OES	Impregnating fluids	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5214	XRF	Wood materials	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Chromium, hexavalent, water soluble	SS-EN 196-10		Cement	Yes	2	No	Avsnitt 8-11
	Cobalt, Co	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	

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Inorganic chemistry	Cobalt, Co	ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Copper, Cu	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 0670	ICP-OES	Wood materials	Yes	2	No	
		Inhouse method; 0671	ICP-OES	Impregnating fluids	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5214	XRF	Wood materials	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Insoluble residue	SS-EN 196-2	Gravimetry	Cement	Yes	2	No	Avsnitt 4.4.3
			Gravimetry	Solid materials	Yes	2	No	Avsnitt 4.4.3
	Iron, Fe	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	

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Inorganic chemistry	Iron, Fe	ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Leaching, heavy metals	NKB 12		Construction products	Yes	2	No	2.3.2, 3.3.2
		NKB 13		Construction products	Yes	2	No	2.3.2, 3.3.2
		NKB 18		Construction products	Yes	2	No	2.3.2, 3.3.2
		NKB 4	ICP-OES	Construction products	Yes	2	No	2.3.2, 3.3.2
		NKB 9		Construction products	Yes	2	No	2.3.2, 3.3.2
	Lead, Pb	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Loss on ignition	SS-EN 196-2	Gravimetry	Cement	Yes	2	No	Avsnitt 5
			Gravimetry	Solid materials	Yes	2	No	Avsnitt 5
	Magnesium, Mg	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	

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Inorganic chemistry	Magnesium, Mg	SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Manganese, Mn	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		ASTM D3683	ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Mercury, Hg	EPA Method 7473	Combustion	Biofuel	Yes	2	No	
			Combustion	Biological materials/biota	Yes	2	No	
			Combustion	Liquor	Yes	2	No	
			Combustion	Oil	Yes	2	No	
			Combustion	Water	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
	Molybdenum, Mo	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Neutralizing value	ASTM C25	Titration	Lime	Yes	2	No	
	Nickel release	SS-EN 12472		Nickel/Nickel alloys	Yes	2	No	
		SS-EN 1811		Nickel/Nickel alloys	Yes	2	No	

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Inorganic chemistry	Nickel, Ni	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Niob, Nb	Inhouse method; 1494	XRF	Steel	Yes	2	No	
	Phosphorus, P	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 0671	ICP-OES	Impregnating fluids	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5214	XRF	Wood materials	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Potassium, K	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 0546	ICP-OES	Liquor	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
	Selenium, Se	Inhouse method; 5309	XRF	Brass	Yes	2	No	

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Inorganic chemistry	Selenium, Se	ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Silicon, Si	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Silver, Ag	Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
	Sodium, Na	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 0546	ICP-OES	Liquor	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Strontium, Sr	ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
	Sulfur, S	Inhouse method; 1494	XRF	Steel	Yes	2	No	
		SS 187186	Combustion	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
		SS-EN ISO 15350	Combustion	Steel	Yes	2	No	
	Tantalum, Ta	Inhouse method; 1494	XRF	Steel	Yes	2	No	

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Inorganic chemistry	Thalium, Tl	ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Tin, Sn	Inhouse method; 1494	XRF	Steel	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Titanium, Ti	ASTM D3682	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		ISO 29581-2	XRF	Cement	Yes	2	No	
		SS-EN ISO 12677	XRF	Mineral wool	Yes	2	No	
	Total organic carbon, TOC	SS-EN 15936	Combustion	Sludges/sediments	Yes	2	No	
			Combustion	Soil	Yes	2	No	
			Combustion	Waste	Yes	2	No	
	Tungsten, W	Inhouse method; 1494	XRF	Steel	Yes	2	No	
	Vanadium, V	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 1494	XRF	Steel	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	

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Inorganic chemistry	Vanadium, V	SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Zinc, Zn	ASTM D3683	ICP-OES	Ash	Yes	2	No	
			ICP-OES	Solid fuels	Yes	2	No	
		Inhouse method; 5309	XRF	Brass	Yes	2	No	
		ISO 10993-18	ICP-MS	Medical equipment	Yes	2	No	
		SP 4857	ICP-OES	Lime	Yes	2	No	
			ICP-OES	Sludges/sediments	Yes	2	No	
			ICP-OES	Soil	Yes	2	No	
		SS-EN 71-3	ICP-OES	Toys	Yes	2	No	
		SS-EN ISO 16968	ICP-MS	Biofuel	Yes	2	No	
	Zirconium, Zr	Inhouse method; 1494	XRF	Steel	Yes	2	No	
Organic chemistry	Formaldehyde	ISO 16000-3		Air	Yes	2	No	
	Formaldehyde, emission	ASTM D6007	Emmission chamber	Construction products	Yes	2	No	
		ASTM E1333	Emmission chamber	Construction products	Yes	2	No	
		ISO 16000-10	Emmission chamber	Construction products	Yes	2	No	
		SS-EN ISO 12460-3	Emmission chamber	Construction products	Yes	2	No	
		SS-EN ISO 12460-5	Emmission chamber	Construction products	Yes	2	No	
	PFAS	ASTM D7968	LC-MS/MS	Sand	Yes	2	No	
			LC-MS/MS	Soil	Yes	2	No	
	PFOA	ASTM D7968	LC-MS/MS	Sand	Yes	2	No	
			LC-MS/MS	Soil	Yes	2	No	

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Chemical analysis

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Organic chemistry	PFOS	ASTM D7968	LC-MS/MS	Sand	Yes	2	No	
			LC-MS/MS	Soil	Yes	2	No	
	Sample preparation	ISO 16000-11		Construction products	Yes	2	No	
	Volatile organic compounds (VOC)	CDPH/EHLB/Standard Method V1.2		Construction products	Yes	2	No	
		ISO 16000-10		Construction products	Yes	2	No	
		ISO 16000-6	GC-MS/FID	Air	Yes	2	No	
Sampling	Formaldehyde, emission	ISO 16000-10		Construction products	Yes	2	No	
	Volatile organic compounds (VOC)	ISO 16000-10		Construction products	Yes	2	No	

Climate and environmental durability

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Vibration and shock	Vibration	IEC 60068-2-57		Electrical equipment	Yes	2	No	
		IEC 60255-21-3		Electrical equipment	Yes	2	No	
		IEC/IEEE 60980-344		Electrical equipment	Yes	2	No	
		IEEE Std 693		Electrical equipment	Yes	2	No	
		Telcordia GR-63-CORE		Electrical equipment	Yes	2	No	

Functional testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
	Bulletproof	SS-EN 1523		Windows and doors	Yes	2	Yes	
	Carrying ability	SS-EN 1004-1		Temporary constructions	Yes	2	No	
		SS-EN 124-1		Ceiling and floor wells	Yes	2	No	
		SS-EN 124-3		Ceiling and floor wells	Yes	2	No	
		SS-EN 74-1		Temporary constructions	Yes	2	No	Endast kapitel 7
		SS-EN 74-2		Temporary constructions	Yes	2	No	Endast kapitel 9
	Crashworthiness	SS-EN 1789		Traffic and vehicles	Yes	2	No	Endast avsnitt 4.5.9, 5.3, 6.3.5
		UNECE Regulation No. 11		Vehicle components	Yes	2	No	
		UNECE Regulation No. 14		Vehicle components	Yes	2	No	
		UNECE Regulation No. 21		Vehicle components	Yes	2	No	
		UNECE Regulation No. 25		Vehicle components	Yes	2	No	
		UNECE Regulation No. 26		Vehicle components	Yes	2	No	
		UNECE Regulation No. 34		Vehicle components	Yes	2	No	
		UNECE Regulation No. 58		Vehicle components	Yes	2	Yes	
		UNECE Regulation No. 61		Vehicle components	Yes	2	No	
	Dimension	SS-EN 951		Windows and doors	Yes	2	No	
	Dynamic Test	SS-EN 13049		Windows and doors	Yes	2	No	
		SS-EN 1629		Windows and doors	Yes	2	No	
	Fatigue testing	SS-EN 1191		Windows and doors	Yes	2	No	
		SS-EN 1303		Building hardware	Yes	2	No	
	Force	SS-EN 12046-1		Windows and doors	Yes	2	No	
		SS-EN 12046-2		Windows and doors	Yes	2	No	
	Function	SS 831340		Roof safety	Yes	2	Yes	
		SS-EN 1125		Building hardware	Yes	2	No	

Functional testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
	Function	SS-EN 1154		Building hardware	Yes	2	No	
		SS-EN 1155		Building hardware	Yes	2	No	Ingår inte: §7.3.4
		SS-EN 1158		Building hardware	Yes	2	No	
		SS-EN 12101-2		Construction products	Yes	2	No	Annex C, D and E
		SS-EN 12605		Windows and doors	Yes	2	Yes	
		SS-EN 12899-1		Road equipment	Yes	2	No	Endast kapitel 5
		SS-EN 1303		Building hardware	Yes	2	No	
		SS-EN 131-4		Ladders	Yes	2	No	
		SS-EN 13230-2		Railway applications	Yes	2	No	
		SS-EN 13637		Building hardware	Yes	2	No	
		SS-EN 15684		Building hardware	Yes	2	No	
		SS-EN 179		Building hardware	Yes	2	No	
		SS-EN 1906		Building hardware	Yes	2	No	
		SS-EN 488		District heating systems	Yes	2	No	Endast 5.2.2, 5.3.2
		UNECE Regulation No. 46		Vehicle components	Yes	2	No	
	Mechanical characteristics	SS-EN 12604		Windows and doors	Yes	2	Yes	
	Planarity	SS-EN 952		Windows and doors	Yes	2	No	
	Resistance to ageing	SS-EN 15650		Damper	Yes	2	No	Endast bilaga C
	Resistance to burglary	PAS 24		Windows and doors	Yes	2	No	
		SS-EN 1143-1		Fire safety cabinets	Yes	2	No	
		SS-EN 1143-2		Fire safety cabinets	Yes	2	No	
		SS-EN 12209		Building hardware	Yes	2	No	

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Functional testing

Technical area	Parameter	Method	Technique	Material	Flex	Type of flex	Field	Note
	Resistance to burglary	SS-EN 12320		Locking device	Yes	2	No	Ingår inte: 5.4
		SS-EN 13126-5		Building hardware	Yes	2	No	Ingår inte: 7.9
		SS-EN 14450		Fire safety cabinets	Yes	2	No	
		SS-EN 14846		Building hardware	Yes	2	No	Endast avsnitt 6.2, 6.3, 6.4 och 6.8.
		SS-EN 1628		Windows and doors	Yes	2	No	
		SS-EN 1630		Windows and doors	Yes	2	No	
	Resistance to racking	SS-EN 14608		Windows and doors	Yes	2	No	
	Resistance to wind load	SS-EN 12424		Windows and doors	Yes	2	No	
		SS-EN 12444		Windows and doors	Yes	2	No	
	Safety	ASTM D4169		Packaging	Yes	2	No	
		SS-EN 12445		Windows and doors	Yes	2	Yes	
		SS-EN 16005		Windows and doors	Yes	2	Yes	
	Shock absorption	SS-EN 1177		Fall protection	Yes	2	No	Exkl. 6.2.4.4, 6.3 och 7
	Stability	Inhouse method; SP 1744		Temporary constructions	Yes	2	No	Hantverkarställningar
	Static test	SS-EN 1628		Windows and doors	Yes	2	No	
	Surface smoothness	SS-EN 952		Windows and doors	Yes	2	No	
	Tensile	ADR/ADR-S		Packaging	Yes	2	Yes	Endast kap 6.1
				Packaging	Yes	2	No	Endast kap 6.3
				Packaging	Yes	2	Yes	Endast kap 6.5
				Packaging	Yes	2	Yes	Endast kap 6.6
		ICAO Doc 9157 Part 6		Airport Component	Yes	2	No	

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Functional testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
	Tensile	ICAO Doc 9284		Packaging	Yes	2	No	Endast kap 4.2
				Packaging	Yes	2	No	Endast kap 4.3
				Packaging	Yes	2	No	Endast kap 4.4
				Packaging	Yes	2	No	Endast kap 4.5
				Packaging	Yes	2	No	Endast kap 4.6
				Packaging	Yes	2	No	Endast kap 6.5.3 – 6.2
				Packaging	Yes	2	No	Endast kap 6.5.4 - 6.2
		IMDG			Yes	2	No	Endast kap 6.1.5.2
					Yes	2	No	Endast kap 6.1.5.3
					Yes	2	No	Endast kap 6.1.5.4
					Yes	2	No	Endast kap 6.1.5.5
					Yes	2	No	Endast kap 6.1.5.6
					Yes	2	No	Endast kap 6.3.5.3
					Yes	2	No	Endast kap 6.3.5.4
		RID/RID-S			Yes	2	No	Endast kap 6.1
					Yes	2	No	Endast kap 6.3
					Yes	2	No	Endast kap 6.5
					Yes	2	No	Endast kap 6.6

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Functional testing

Technical area	Parameter	Method	Technique	Material	Flex	Type of flex	Field	Note
	Tensile	SS 831336		Roof safety	Yes	2	Yes	
		SS 831340		Roof safety	Yes	2	Yes	
		SS 831342		Roof safety	Yes	2	Yes	
		SS 831367		Roof safety	Yes	2	Yes	
		SS-EN 1253-1		Ceiling and floor wells	Yes	2	No	Endast kapitel 5.6
		SS-EN 1253-2		Ceiling and floor wells	Yes	2	No	Endast kapitel 5.3
		SS-EN 12951		Roof safety	Yes	2	Yes	
		SS-EN 131-2		Ladders	Yes	2	No	Ingår inte: 5.16
		SS-EN 1317-5		Road equipment	Yes	2	No	Endast bilaga C
		SS-EN 14183		Step stools	Yes	2	No	
		SS-EN 1935		Building hardware	Yes	2	No	
		SS-EN 40-3-2		Road equipment	Yes	2	No	
		UN Rec. Transport of Dangerous Goods		Packaging	Yes	2	No	Chap 6.3
				Packaging	Yes	2	No	Chap 6.6
				Packaging	Yes	2	No	Chap. 6.1
				Packaging	Yes	2	No	Chap. 6.5
		UNECE Regulation No. 43		Vehicle components	Yes	2	No	
		UNECE Regulation No. 55		Vehicle components	Yes	2	No	
		UNECE Regulation No. 80		Vehicle components	Yes	2	No	
	Torsional resistance	SS-EN 14609		Windows and doors	Yes	2	No	
Child safety	Burning behaviour	SS-EN 71-2		Toys	Yes	2	No	
	Safety	SS-EN 71-1		Toys	Yes	2	No	

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Safety testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Personal protective equipment	Bulletproof	SS-EN 1063		Windows and doors	Yes	2	Yes	
	Fire resistance	SS-EN 13087-7		Helmets	Yes	2	No	
	Function	I.S.355		Helmets	Yes	2	No	
		Inhouse method; SP Ar 1997:2		Body protection	Yes	2	No	Halsskydd
		SS-EN 1077		Helmets	Yes	2	No	
		SS-EN 1078		Helmets	Yes	2	No	
		SS-EN 1080		Helmets	Yes	2	No	
		SS-EN 12492		Helmets	Yes	2	No	
		SS-EN 13087-1		Helmets	Yes	2	No	
		SS-EN 13087-4		Helmets	Yes	2	No	
		SS-EN 13087-6		Helmets	Yes	2	No	
		SS-EN 13087-8		Helmets	Yes	2	No	
		SS-EN 13277-1		Body protection	Yes	2	No	
		SS-EN 13277-2		Body protection	Yes	2	No	
		SS-EN 13277-3		Body protection	Yes	2	No	
		SS-EN 13277-4		Body protection	Yes	2	No	
		SS-EN 13277-5		Body protection	Yes	2	No	
		SS-EN 13277-6		Body protection	Yes	2	No	
		SS-EN 13277-7		Body protection	Yes	2	No	
		SS-EN 1384		Helmets	Yes	2	No	
		SS-EN 1385		Helmets	Yes	2	No	
		SS-EN 14021		Body protection	Yes	2	No	
		SS-EN 1496		Fall protection	Yes	2	No	
		SS-EN 1497		Fall protection	Yes	2	No	

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Safety testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Personal protective equipment	Function	SS-EN 1498		Fall protection	Yes	2	No	
		SS-EN 353-1		Fall protection	Yes	2	No	
		SS-EN 353-2		Fall protection	Yes	2	No	
		SS-EN 354		Fall protection	Yes	2	No	
		SS-EN 355		Fall protection	Yes	2	No	
		SS-EN 358		Fall protection	Yes	2	No	
		SS-EN 360		Fall protection	Yes	2	No	
		SS-EN 361		Fall protection	Yes	2	No	
		SS-EN 362		Fall protection	Yes	2	No	
		SS-EN 364		Fall protection	Yes	2	No	
		SS-EN 397		Helmets	Yes	2	No	
		SS-EN 443		Helmets	Yes	2	No	
		SS-EN 813		Fall protection	Yes	2	No	
		SS-EN 966		Helmets	Yes	2	No	
		UNECE Regulation No. 22		Helmets	Yes	2	No	
	Heat Resistance	SS-EN 13087-10		Helmets	Yes	2	No	
	Penetration	SS-EN 13087-3		Helmets	Yes	2	No	
	Protective effect	Intern method; SP 4439		Helmets	Yes	2	No	Ingår inte: § 4.1.1, 4.9, 4.16, 4.17, 4.18, 5.3.5, 5.11
		NIJ Standard-0106.01		Helmets	Yes	2	No	
		SS-EN 1621-1		Body protection	Yes	2	No	
		SS-EN 1621-2		Body protection	Yes	2	No	
		SS-EN 1621-3		Body protection	Yes	2	No	

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Safety testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Personal protective equipment	Protective effect	SS-EN 168		Body protection	Yes	2	No	Endast kapitel 3.2, 9
		SS-EN ISO 10256-1		Helmets	Yes	2	No	
		SS-EN ISO 10256-2		Helmets	Yes	2	No	
		SS-EN ISO 10256-3		Helmets	Yes	2	No	
		SS-EN ISO 10256-4		Helmets	Yes	2	No	
	Safety	SS-EN 566		Fall protection	Yes	2	No	
		SS-EN 812		Helmets	Yes	2	No	
	Shock absorption	SS-EN 13087-2		Helmets	Yes	2	No	
	Tensile	SS-EN 795		Fall protection	Yes	2	Yes	

Strength testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
	Compressive strength	SS-EN 1097-11		Building materials	Yes	2	No	
	Dimension	SS-EN 12810-2		Temporary constructions	Yes	2	No	Exkl. 4.4.3 och Annex B
	Fatigue testing	ASTM E466		Metallic materials	Yes	2	No	Avsteg för kalibrering av utrustning mot ISO std
		ASTM E606		Metallic materials	Yes	2	No	Avsteg för kalibrering av utrustning mot ISO std
		EN 16864		Locking device	Yes	2	No	
		SS 112370		Metallic materials	Yes	2	No	

Strength testing

Technical area	Parameter	Method	Technique	Material	Flex	Type of flex	Field	Note
	Flexural strengths	SS-EN 1263-1		Temporary constructions	Yes	2	No	
		SS-EN 13374		Temporary constructions	Yes	2	No	Endast kap. 7.5 (B och C tester)
	Function	EN 16864		Locking device	Yes	2	No	
		SS-EN 131-6		Ladders	Yes	2	No	Ingår inte: 6.13, 6.14
	Impact strength	SS-EN ISO 148-1		Metallic materials	Yes	2	No	Charpy
	Leakage	SS-EN 12266-1		Construction products	Yes	2	No	Endast punkterna A.3, A.4
	Loading	SS-EN 826		Construction products	Yes	2	No	
		SS-EN 947		Windows and doors	Yes	2	No	
	Mechanical characteristics	SS-EN ISO 15630-1		Reinforcement	Yes	2	No	
		SS-EN ISO 15630-2		Reinforcement	Yes	2	No	
		SS-EN ISO 15630-3		Reinforcement	Yes	2	No	
	Resistance to burglary	EN 16864		Locking device	Yes	2	No	
		prEN 15685		Locking device	Yes	2	No	
		SSF 3492		Fire safety cabinets	Yes	2	No	Säkerhetsskåp
	Shearing strength	TR 048		Fastener	Yes	2	No	kap 3.6.1 och 3.6.2
	Shock	SS-EN 12600		Construction products	Yes	2	No	
		SS-EN 356		Construction products	Yes	2	No	
	Shock absorption	SS-EN 949		Windows and doors	Yes	2	No	
		SS-EN 950		Windows and doors	Yes	2	No	
	Stability	AFS 2004:3		Ladders	Yes	2	No	
	Tensile	AFS 2004:3		Ladders	Yes	2	No	Bilaga

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Strength testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
	Tensile	EN 16864		Locking device	Yes	2	No	
		Inhouse method; SP 0487		Roof safety	Yes	2	No	Genomtrampningsskydd
		SS 831361		Roof safety	Yes	2	No	
		SS-EN 10080		Reinforcement	Yes	2	No	
		SS-EN 12811-3		Temporary constructions	Yes	2	No	
		SS-EN 13087-5		Helmets	Yes	2	No	
		SS-EN 131-7		Ladders	Yes	2	No	Ingår inte: 6.15
		SS-EN 15732		Building materials	Yes	2	No	Annex B och C
		SS-EN 516		Roof safety	Yes	2	Yes	
		SS-EN ISO 6892-2		Metallic materials	Yes	2	No	
	Tensile strength	SS-EN ISO 3506-1		Fastener	Yes	2	No	
		SS-EN ISO 6892-1		Metallic materials	Yes	2	No	Ingår inte: bilaga G
		SS-EN ISO 898-1		Fastener	Yes	2	No	Fästelement
		TR 048		Fastener	Yes	2	No	kap 3.3.1
	Torsional resistance	SS-EN 948		Windows and doors	Yes	2	No	

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Changes in the scope of accreditation are in bold.

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