

Date

Reference

2023-03-22

2021/2668

## Scope of accreditation

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

VTI - Statens väg- och transportforskningsinstitut Linköping

Accreditation number

1132

Infrastruktur

A000029-001

### Functional testing

#### Brake testing

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
71/320/EEG	Force	Vehicle components	Yes	2	Yes	Annex 2, points 1 to 2.1.4.2. Vehicle type M1, M2, N1 and N2. No air systems and trailers. Does not cover fading in hill
98/12/EG	Force	Vehicle components	Yes	2	Yes	Annex 2, points 1 to 2.1.4.2. Vehicle type M1, M2, N1 and N2. No air systems and trailers. Does not cover fading in hill
UNECE Regulation No. 13	Force	Vehicle components	Yes	2	Yes	Annex 4. Does not cover fading in hill
UNECE Regulation No. 13H	Force	Vehicle components	Yes	2	Yes	Annex 3

### Functional testing

#### Crash safety testing

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
MASH 2016	Safety evaluation	Road equipment	Yes	2	Yes	
NCHRPR 350	Safety evaluation	Road equipment	Yes	2	Yes	
SS-EN 12767	Safety evaluation	Road equipment	Yes	2	Yes	
SS-EN 1317-1	Safety evaluation	Road equipment	Yes	2	Yes	
SS-EN 1317-2	Safety evaluation	Road equipment	Yes	2	Yes	
SS-EN 1317-3	Safety evaluation	Road equipment	Yes	2	Yes	
SS-ENV 1317-4	Safety evaluation	Road equipment	Yes	2	Yes	

## Functional testing

### Crash safety testing

Method	Parameter	Material	Flex	Type of flex	Field	Note
UNECE Regulation No. 44	Crashworthiness	Child restraint seat	Yes	2	No	Does not include flammability, toxicity or dust sensibility

## Physical properties

### Noise/Vibration

Method	Parameter	Material	Flex	Type of flex	Field	Note
70/157/EEG	Sound level	Vehicle	Yes	2	Yes	Annex 1, points 5 to 5.3 amendment to Directive 2006/96 / EC. Vehicle type M1, M2, N1 and N2. No air systems and trailers.

## Physical properties

### Road- and constructions materials

Method	Parameter	Material	Flex	Type of flex	Field	Note
FAS 454	Stiffness modulus	Asphalt	Yes	2	No	
FAS 468	Deformation	Asphalt	Yes	2	No	
FAS 480	Binder content	Asphalt	Yes	2	No	
LFV 2-98	Resistance, de-icing fluids	Asphalt	Yes	2	No	
SS-EN 1097-1	Resistance to wear (Micro-Deval)	Aggregat	Yes	2	No	
SS-EN 1097-2	Resistance to fragmentation	Aggregat	Yes	2	No	Method 5 only
SS-EN 1097-5	Water content	Aggregat	Yes	2	No	
SS-EN 1097-6	Particle density and water absorption	Aggregat	Yes	2	No	
SS-EN 1097-9	Resistance to wear by abrasion from studded tyres	Aggregat	Yes	2	No	
SS-EN 12592	Solubility	Bitumen	Yes	2	No	
SS-EN 12593	Breaking point, Fraass	Bitumen	Yes	2	No	

## Physical properties

### Road- and constructions materials

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
SS-EN 12594	Sample preparation	Bitumen	Yes	2	No	
SS-EN 12595	Kinematic viscosity	Bitumen	Yes	2	No	
SS-EN 12596	Dynamic viscosity	Bitumen	Yes	2	No	
SS-EN 12607-1	Hardening, RTFOT	Bitumen	Yes	2	No	
SS-EN 12697-1	Binder content	Asphalt	Yes	2	No	
SS-EN 12697-11	Adhesion	Asphalt	Yes	2	No	Method 5 only
SS-EN 12697-12	Water sensitivity	Asphalt	Yes	2	No	Method A only
SS-EN 12697-16	Resistance to wear (Prall)	Asphalt	Yes	2	No	Method A only
SS-EN 12697-2	Particle size distribution	Asphalt	Yes	2	No	
SS-EN 12697-23	Tensile Testing	Asphalt	Yes	2	No	
SS-EN 12697-25	Creep test	Asphalt	Yes	2	No	Method A only
SS-EN 12697-26	Stiffness modulus	Asphalt	Yes	2	No	Appendix C only
SS-EN 12697-29	Dimensions of bituminous specimen	Asphalt	Yes	2	No	
SS-EN 12697-3	Bitumen recovery, rotary evaporator	Asphalt	Yes	2	No	
SS-EN 12697-30	Marshall compaction	Asphalt	Yes	2	No	
SS-EN 12697-36	Thickness, bituminous pavement	Asphalt	Yes	2	No	
SS-EN 12697-41	Resistance, de-icing fluids	Asphalt	Yes	2	No	
SS-EN 12697-5	Maximum density	Asphalt	Yes	2	No	
SS-EN 12697-6	Bulk density	Asphalt	Yes	2	No	
SS-EN 12697-8	Void characteristics	Asphalt	Yes	2	No	
SS-EN 13286-2	Reference density and water content-Proctor compaction	Aggregat	Yes	2	No	
SS-EN 13398	Elastic recovery	Bitumen	Yes	2	No	
SS-EN 13399	Storage stability	Bitumen	Yes	2	No	
SS-EN 13589	Tensile Testing	Bitumen	Yes	2	No	

## Physical properties

### Road- and constructions materials

<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
SS-EN 1367-1	Frost resistance	Aggregat	Yes	2	No	
SS-EN 1367-6	Frost resistance	Aggregat	Yes	2	No	
SS-EN 1426	Penetration	Bitumen	Yes	2	No	
SS-EN 1427	Softening point (Ring and Ball)	Bitumen	Yes	2	No	
SS-EN 15326	Density	Bitumen	Yes	2	No	
SS-EN 932-3	Petrographic examination	Aggregat	Yes	2	No	
SS-EN 933-1	Particle size distribution	Aggregat	Yes	2	No	
SS-EN 933-3	Flakiness index	Aggregat	Yes	2	No	
SS-EN 933-4	LT-index, shape index	Aggregat	Yes	2	No	
SS-EN 933-5	Percentage of crushed and broken surfaces	Aggregat	Yes	2	No	
SS-EN 933-8	Sand equivalent test	Aggregat	Yes	2	No	
SS-EN ISO 2592	Flash point	Bitumen	Yes	2	No	
TDOK 2014:0145	Particle size distribution	Aggregat	Yes	2	No	
TDOK 2017:0650	Water sensitivity	Asphalt	Yes	2	No	

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