

Date

Reference

2021-04-28

2021/638

Scope of accreditation

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

RISE Research Institutes of Sweden AB

Borås

Accreditation number

1002

Infrastruktur och betongbyggande

A002626-084

Chemical analysis

| <i>Technical area</i> | <i>Parameter</i> | <i>Method</i> | <i>Material</i> | <i>Flex</i> | <i>Type of flex</i> | <i>Field</i> | <i>Note</i> |
|-----------------------------------|------------------------------|-----------------------|-----------------|-------------|---------------------|--------------|---------------------------|
| Road- and constructions materials | Alkali-Reactivity | RILEM AAR-2 | Aggregat | Yes | 2 | No | |
| | | RILEM AAR-3 | Aggregat | Yes | 2 | No | |
| | Alkali-Silica Reaction (ASR) | NT BUILD 295 | Aggregat | Yes | 2 | No | |
| | Chloride, total | AASHTO T 260 | Concrete | Yes | 2 | No | Endast procedur A |
| | | Intern metod; SP 0433 | Concrete | Yes | 1 | No | |
| | Humus | SS-EN 1744-1 | Aggregat | Yes | 1 | No | Endast avsnitt 15.1, 15.2 |
| | Methylene blue test | SS-EN 933-9 | Aggregat | Yes | 1 | No | |
| | Migration | NT BUILD 492 | Concrete | Yes | 1 | No | |
| Penetration | NT BUILD 443 | Concrete | Yes | 1 | No | | |

Functional testing

| <i>Technical area</i> | <i>Parameter</i> | <i>Method</i> | <i>Material</i> | <i>Flex</i> | <i>Type of flex</i> | <i>Field</i> | <i>Note</i> |
|-----------------------------|------------------|--------------------|--------------------------|-------------|---------------------|--------------|-------------|
| District Heating Technology | Capacity | CWA 16975 | District heating systems | Yes | 2 | No | Kap 5.2 |
| | | EN 1148+A1 | Heat exchangers | Yes | 2 | No | |
| | | F:103-7 | District heating systems | Yes | 2 | No | |
| | | UK HIU test regime | District heating systems | Yes | 2 | No | |
| Sanitary technology | Capacity | EN 16297-1 | Pumps | Yes | 2 | No | |
| | | EN 16297-2 | Pumps | Yes | 2 | No | |

Date

Reference

2021-04-28

2021/638

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|-----------------------|-------------------|-------------------|------------------|-------------|---------------------|--------------|-------------|--|
| Sanitary technology | Energy efficiency | SS 820000+PM | Mixing taps | Yes | 2 | No | | |
| | | SS 820001+PM | Mixing taps | Yes | 2 | No | | |
| | Flow | EN 1267 | Valves | Yes | 2 | No | | |
| | Function | EN 1111 | Mixing taps | Yes | 2 | No | | |
| | | EN 1213 | Valves | Yes | 2 | No | | |
| | | EN 12380 | Valves | Yes | 2 | No | | |
| | | EN 1253-1 | Wastewater | Yes | 2 | No | | |
| | | EN 1253-2 | Wastewater | Yes | 2 | No | | |
| | | EN 1254-2 | Couplings | Yes | 2 | No | | |
| | | EN 1254-3 | Couplings | Yes | 2 | No | | |
| | | EN 13828 | Valves | Yes | 2 | No | | |
| | | EN 200 | Mixing taps | Yes | 2 | No | | |
| | | EN 274-2 | Pipe | Yes | 2 | No | | |
| | | EN 817 | Mixing taps | Yes | 2 | No | | |
| | | EN 877+A1+AC | Pipe | Yes | 2 | No | | |
| | | EN ISO 15875-5 | Couplings | Yes | 2 | No | | |
| | | ISO 14236 | Couplings | Yes | 2 | No | | |
| | | NKB 12 | Couplings | Yes | 2 | No | | |
| | | NKB 13 | Valves | Yes | 2 | No | | |
| | | NKB 18 | Couplings | Yes | 2 | No | | |
| | | NKB 9 | Valves | Yes | 2 | No | | |
| | | NT VVS 120 | Wastewater | Yes | 2 | No | | |
| | | NT VVS 129 | Couplings | Yes | 2 | No | | |
| | | Sludge separation | EN 12566-1 | Wastewater | Yes | 2 | No | |
| | | Tensile Testing | EN ISO 3501 | Couplings | Yes | 2 | No | |
| | | | NT VVS 064 | Couplings | Yes | 2 | No | |

Date

Reference

2021-04-28

2021/638

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|-----------------------|------------------|----------------------|-----------------|-------------|---------------------|--------------|-------------|
| Sanitary technology | Tightness | EN ISO 13056 | Couplings | Yes | 2 | No | |
| | | EN ISO 19893 | Couplings | Yes | 2 | No | |
| | | EN ISO 3503 | Couplings | Yes | 2 | No | |
| | | ETAG 022 | Wastewater | Yes | 2 | No | Annex A |
| | | Inhouse method; 5060 | Couplings | Yes | 2 | No | |
| | | NT VVS 065 | Couplings | Yes | 2 | No | |

Physical properties

| <i>Technical area</i> | <i>Parameter</i> | <i>Method</i> | <i>Material</i> | <i>Flex</i> | <i>Type of flex</i> | <i>Field</i> | <i>Note</i> | |
|------------------------|-----------------------|---------------|--------------------|--------------------|---------------------|--------------|-------------|---|
| Construction materials | | SS-EN 491 | Roof tiles | Yes | 1 | No | | |
| | Adhesion | SS-EN 12039 | Building materials | Yes | 1 | No | | |
| | Asphalt drain | SS-EN 1110 | Building materials | Yes | 1 | No | | |
| | Compressive strength | SS-EN 772-1 | Building materials | Yes | 2 | No | | |
| | Density | SS-EN 772-13 | Building materials | Yes | 1 | No | | |
| | Dimensional stability | | SS-EN 772-16 | Building materials | Yes | 1 | No | |
| | | | SS-EN 1107-1 | Building materials | Yes | 1 | No | |
| | | | SS-EN 12730 | Building materials | Yes | 1 | No | |
| | | | SS-EN 1340 | Concrete | Yes | 1 | No | Endast bilaga C, D, G |
| | | | | Concrete | Yes | 2 | No | Endast bilaga F, H |
| | Filling capacity | | ETAG 022 | Building materials | Yes | 1 | No | Endast Annex H Avsnitt 2.4.4.2, del 1 avsnitt 2.4.4.2 samt del 2, 3 avsnitt 2.4.4.2 |
| | Impact strength | | SS-EN 12691 | Building materials | Yes | 1 | No | |
| | Moisture movement | | SS-EN 772-14 | Building materials | Yes | 2 | No | |
| Planarity | | SS-EN 772-20 | Building materials | Yes | 1 | No | | |

Date

Reference

2021-04-28

2021/638

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|-----------------------------------|------------------------------|---------------------------|------------------------------|-------------|---------------------|--------------|-------------|
| Construction materials | Tensile | SS-EN 13892-2 | Building materials | Yes | 1 | No | |
| | Water tightness | SS-EN 13897 | Building materials | Yes | 1 | No | |
| | | SS-EN 1928 | Building materials | Yes | 1 | No | |
| Noise/Vibration | Vibration | ISO 10816-1 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 20643 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 28927-1 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 28927-10 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 28927-2 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 28927-4 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 28927-5 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 28927-8 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 3822-1 | Construction products | Yes | 2 | No | |
| | | SS-EN ISO 3822-2 | Construction products | Yes | 2 | No | |
| | | SS-EN ISO 5349-1 | Machines | Yes | 2 | No | |
| | | SS-EN ISO 5349-2 | Machines | Yes | 2 | No | |
| SS-ISO 8662-11 | Machines | Yes | 2 | No | | | |
| Road- and constructions materials | Abrasion resistance | SS-EN 14157 | Natural stone | Yes | 2 | No | |
| | Adhesion | Inhouse method; CBI nr 6 | Concrete | Yes | 2 | No | |
| | Air content | SS-EN 12350-7 | Concrete | Yes | 1 | No | |
| | Alkali-Silica Reaction (ASR) | Intern metod; SP 1666 | Concrete | Yes | 2 | No | |
| | Bend testing | SS-EN 12372 | Natural stone | Yes | 2 | No | |
| | Bleeding | SS 137540 | Concrete | Yes | 1 | No | |
| | Bulk density | SS-EN 1097-3 | Aggregat | Yes | 1 | No | |
| | Carbonation depth | SS 137242 | Concrete | Yes | 1 | No | |
| | Compressive strength | SS 137220 | Concrete | Yes | 2 | No | |
| SS-EN 12390-3 | | Concrete | Yes | 2 | No | | |

Date

Reference

2021-04-28

2021/638

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|-----------------------------------|---|-----------------------|-----------------|-------------|---------------------|----------------|---|
| Road- and constructions materials | Compressive strength | SS-EN 1926 | Natural stone | Yes | 2 | No | |
| | Consistence, Air content, Water retention | SS-EN 413-2 | Cement | Yes | 1 | No | |
| | Density | SS-EN 12350-6 | Concrete | Yes | 1 | No | |
| | | SS-EN 12390-7 | Concrete | Yes | 1 | No | Endast kapitel 5.1.1 a |
| | | SS-EN 1936 | Natural stone | Yes | 1 | No | Ej kap 8.2 |
| | Dimension | SS-EN 1338 | Concrete | Yes | 1 | No | Endast bilaga C, D, G |
| | | | Concrete | Yes | 2 | No | Endast bilaga F, H |
| | | SS-EN 1339 | Concrete | Yes | 1 | No | Endast bilaga C, D, G |
| | | | Concrete | Yes | 2 | No | Endast bilaga F, H |
| | Dimensional stability | SS-EN 12350-5 | Concrete | Yes | 1 | No | |
| | Filling capacity | Intern metod; SP 1614 | Concrete | Yes | 1 | No | |
| | Flakiness index | SS-EN 933-3 | Aggregat | Yes | 1 | No | |
| | Flow rate | Intern metod; SP 1651 | Concrete | Yes | 1 | No | |
| | Frost resistance | SS 137244 | Concrete | Yes | 1 | No | |
| | | SS 137245 | Concrete | Yes | 1 | No | |
| | | SS-EN 12371 | Natural stone | Yes | 1 | No | Ej test B, kapitel 6.2.2, 6.6.2, 7.3.2, 8.2 |
| | | SS-EN 1367-1 | Aggregat | Yes | 1 | No | |
| | | SS-EN 1367-6 | Aggregat | Yes | 1 | No | |
| | Heat Resistance | SS-EN 16140 | Natural stone | Yes | 1 | No | |
| | Impact strength | SS-EN 14158 | Natural stone | Yes | 1 | No | |
| LT-index | SS-EN 933-4 | Aggregat | Yes | 1 | No | | |
| Mica content | TDOK 2014:0144 | Aggregat | Yes | 1 | No | Endast metod C | |
| Particle density | SS-EN 1097-7 | Aggregat | Yes | 1 | No | | |

Date

Reference

2021-04-28

2021/638

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|-----------------------------------|---|---------------|-----------------|-------------|---------------------|--------------|--------------|
| Road- and constructions materials | Particle density and water absorption | SS-EN 1097-6 | Aggregat | Yes | 1 | No | |
| | Particle size distribution | SS-EN 933-1 | Aggregat | Yes | 1 | No | |
| | | SS-EN 933-10 | Aggregat | Yes | 1 | No | |
| | Percentage of crushed and broken surfaces | SS-EN 933-5 | Aggregat | Yes | 1 | No | |
| | Petrographic examination | ASTM C295 | Aggregat | Yes | 1 | No | |
| | | RILEM AAR-1.1 | Aggregat | Yes | 1 | No | |
| | | SS-EN 12407 | Natural stone | Yes | 1 | No | |
| | | SS-EN 932-3 | Aggregat | Yes | 1 | No | |
| | Resistance to ageing | SS-EN 14066 | Natural stone | Yes | 1 | No | |
| | | SS-EN 16306 | Natural stone | Yes | 1 | No | |
| | Resistance to fragmentation | SS-EN 1097-2 | Aggregat | Yes | 1 | No | |
| | Resistance to wear (Micro-Deval) | SS-EN 1097-1 | Aggregat | Yes | 1 | No | |
| | Resistance to wear by abrasion from studded tyres | SS-EN 1097-9 | Aggregat | Yes | 1 | No | |
| | Sample preparation | SS-EN 12350-1 | Concrete | Yes | 1 | No | |
| | | SS-EN 12504-1 | Concrete | Yes | 2 | No | Ej kapitel 5 |
| | | SS-EN 196-7 | Cement | Yes | 1 | Yes | |
| | Sand equivalent test | SS-EN 933-8 | Aggregat | Yes | 1 | No | |
| | Setting time | SS-EN 196-3 | Cement | Yes | 1 | No | |
| | Shrinkage | SS 137215 | Concrete | Yes | 2 | No | |
| | Slip resistance | SS-EN 14231 | Natural stone | Yes | 1 | No | |
| Slump-test | SS-EN 12350-2 | Concrete | Yes | 1 | No | | |
| Specific surface | SS-EN 196-6 | Cement | Yes | 1 | No | | |
| Stiffening | SS 137126 | Concrete | Yes | 1 | No | | |
| Tensile | SS-EN 13161 | Natural stone | Yes | 2 | No | | |

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2021-04-28

2021/638

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|-----------------------------------|------------------------------|-----------------|-----------------|-------------|---------------------|--------------|-------------|
| Road- and constructions materials | Tensile | SS-EN 13364 | Natural stone | Yes | 1 | No | |
| | | SS-EN 14488-3 | Concrete | Yes | 2 | No | |
| | | SS-EN 196-1 | Cement | Yes | 1 | No | |
| | Tensile splitting strength | SS-EN 12390-6 | Concrete | Yes | 1 | No | |
| | Toughness index | ASTM C1018, mod | Concrete | Yes | 1 | No | |
| | Ultrasonic speed propagation | SS-EN 14579 | Natural stone | Yes | 1 | No | |
| | Water absorption | SS-EN 12390-8 | Concrete | Yes | 1 | No | |
| | | SS-EN 13755 | Natural stone | Yes | 1 | No | |
| | Water content | SS-EN 1097-5 | Aggregat | Yes | 1 | No | |
| Water suction height | SS-EN 1097-10 | Aggregat | Yes | 1 | No | | |

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