

Date

Reference

2024-03-11

2022/2625

Scope of accreditation

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

RISE Research Institutes of Sweden AB

Göteborg

Accreditation number

1002

Infrastruktur och betongbyggande

A002626-047

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 | Heat insulation | EN 253 | Construction products | Yes | 2 | No | |
| | | EN ISO 8497 | Construction products | Yes | 2 | No | |
| | Water tightness | EN 489-1 | Construction products | Yes | 2 | No | Water impermeability test |
| Plastics | Change in volume | EN 12566-1 | Construction products | Yes | 2 | No | Pit test |
| | | EN 12566-3 | Construction products | Yes | 2 | No | Pit test |
| | Change of temperature | EN 1055 | Construction products | Yes | 2 | No | |
| | | EN ISO 13257 | Construction products | Yes | 2 | No | |
| | Effects of heat | EN ISO 580 | Construction products | Yes | 2 | No | Metod A |
| | | ISO 12091 | Construction products | Yes | 2 | No | |
| | Melt flow index | EN ISO 1133-1 | Construction products | Yes | 2 | No | |
| | Process teperature | ISO 18373-1 | Construction products | Yes | 2 | No | |
| | Ring flexibility | EN ISO 13968 | Construction products | Yes | 2 | No | |
| | Thermal stability | EN ISO 11357-6 | Construction products | Yes | 2 | No | |
| | | SS 3579 | Construction products | Yes | 2 | No | |
| | Tightness of joints | EN 1053 | Construction products | Yes | 2 | No | |
| | | EN 1054 | Construction products | Yes | 2 | No | |
| EN 1277 | | Construction products | Yes | 2 | No | | |
| EN 16397-1 | | Construction products | Yes | 2 | No | | |

Date

Reference

2024-03-11

2022/2625

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> |
|-----------------------|---------------------|---------------------|------------------------------|-------------|---------------------|--------------|-------------|
| Plastics | Tightness of joints | EN ISO 13254 | Construction products | Yes | 2 | No | |
| | | EN ISO 13255 | Construction products | Yes | 2 | No | |
| | | EN ISO 13259 | Construction products | Yes | 2 | No | |
| | | EN ISO 13844 | Construction products | Yes | 2 | No | |
| | | EN ISO 13845 | Construction products | Yes | 2 | No | |
| | | EN ISO 13846 | Construction products | Yes | 2 | No | |

Material 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 | Ageing | EN 253 | Construction products | Yes | 2 | No | |
| | Cell size | EN 253 | Multifunctional balanced ventilation units VP/FTX | Yes | 2 | No | |
| | Shearing strength | EN 253 | Construction products | Yes | 2 | No | |
| | Stress cracking | ISO 16770 | Construction products | Yes | 2 | No | |
| | Voids and bubbles | EN 253 | Construction products | Yes | 2 | No | |
| | Water absorption | EN 253 | Construction products | Yes | 2 | No | |
| Plastics | Ash content | EN ISO 3451-1 | Construction products | Yes | 2 | No | Direct calcination |
| | | EN ISO 3451-5 | Construction products | Yes | 2 | No | |
| | Creep test | ISO 7684 | Construction products | Yes | 2 | No | |
| | Crushing decohesion test | ISO 13955 | Construction products | Yes | 2 | No | |
| | Determination of flexural properties | DVS 2203-1 | Construction products | Yes | 2 | No | Bending test |
| | | EN ISO 178 | Construction products | Yes | 2 | No | |
| | ISO 13267 | Construction products | Yes | 2 | No | | |

Material 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> |
|-----------------------|----------------------------------|------------------------|------------------------------|------------------------------|---------------------|--------------|-------------|
| Plastics | Flexibility and stiffness | EN 1228 | Construction products | Yes | 2 | No | |
| | | ISO 7685 | Construction products | Yes | 2 | No | |
| | Function | DS 2077.2 | Construction products | Yes | 2 | No | |
| | | EN 14125 | Construction products | Yes | 2 | No | |
| | | SPF 1300 | Construction products | Yes | 2 | No | |
| | | SS 3542 | Construction products | Yes | 2 | No | |
| | | Impact strength | DS 2077.2 | Construction products | Yes | 2 | No |
| | Impact strength | EN 1411 | Construction products | Yes | 2 | No | |
| | | EN 1716 | Construction products | Yes | 2 | No | |
| | | EN 744 | Construction products | Yes | 2 | No | |
| | | EN ISO 11173 | Construction products | Yes | 2 | No | |
| | | EN ISO 13263 | Construction products | Yes | 2 | No | |
| | | EN ISO 3127 | Construction products | Yes | 2 | No | |
| | | SS 4241437 | Construction products | Yes | 2 | No | |
| | Mechanical strength | EN ISO 13264 | Construction products | Yes | 2 | No | |
| | Peel decohesion test | ISO 13954 | Construction products | Yes | 2 | No | |
| | | ISO 13956 | Construction products | Yes | 2 | No | |
| | Ring stiffness | DS 2077.2 | Construction products | Yes | 2 | No | |
| | | EN 14982 | Construction products | Yes | 2 | No | |
| | | EN ISO 13967 | Construction products | Yes | 2 | No | |
| | | EN ISO 9967 | Construction products | Yes | 2 | No | |
| | | EN ISO 9969 | Construction products | Yes | 2 | No | |
| | | ISO 13268 | Construction products | Yes | 2 | No | |
| SS 3519 | | Construction products | Yes | 2 | No | | |

Date

Reference

2024-03-11

2022/2625

Material 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> |
|-----------------------|-------------------------|------------------------|------------------------------|-------------|---------------------|--------------|----------------|
| Plastics | Slow crack growth | EN ISO 13479 | Construction products | Yes | 2 | No | |
| | | ISO 13480 | Construction products | Yes | 2 | No | |
| | Softening point | EN 727 | Construction products | Yes | 2 | No | |
| | Squeeze-off test | EN 12106 | Construction products | Yes | 2 | No | |
| | Stress cracking | ASTM D1693-15E1 | Construction products | Yes | 2 | No | |
| | Surface hardness | ASTM D2583-13a | Construction products | Yes | 2 | No | |
| | Tensile | EN ISO 13260 | Construction products | Yes | 2 | No | |
| | | SPF 1200 | Construction products | Yes | 2 | No | |
| | Tensile strength | EN ISO 13262 | Construction products | Yes | 2 | No | |
| | | EN ISO 527-1 | Construction products | Yes | 2 | No | |
| | | EN ISO 527-2 | Construction products | Yes | 2 | No | |
| | | EN ISO 527-3 | Construction products | Yes | 2 | No | |
| | | EN ISO 527-4 | Construction products | Yes | 2 | No | |
| | | EN ISO 527-5 | Construction products | Yes | 2 | No | |
| | | EN ISO 6259-1 | Construction products | Yes | 2 | No | |
| | | EN ISO 6259-2 | Construction products | Yes | 2 | No | |
| | | EN ISO 6259-3 | Construction products | Yes | 2 | No | |
| | | ISO 13953 | Construction products | Yes | 2 | No | |
| | | ISO 3268 | Construction products | Yes | 2 | No | |
| | | ISO 8513 | Construction products | Yes | 2 | No | Metod A |
| Vacuum | EN 14830 | Construction products | Yes | 2 | No | | |
| Welding strength | DS/INF 70-5 | Construction products | 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> |
|-----------------------------|--|-----------------------|------------------------------|-------------|---------------------|--------------|----------------------|
| District Heating Technology | Compressive strength | EN ISO 844 | Construction products | Yes | 2 | No | Endast procedur A |
| | Density | EN ISO 845 | Construction products | Yes | 2 | No | |
| | Percentage of open and closed cells | EN ISO 4590 | Construction products | Yes | 2 | No | Endast method 1 |
| Plastics | Carbon black content | ISO 6964 | Construction products | Yes | 2 | No | |
| | Compressive strength | EN 911 | Construction products | Yes | 2 | No | |
| | | EN 921 | Construction products | Yes | 2 | No | |
| | | EN ISO 1167-1 | Construction products | Yes | 2 | No | |
| | | EN ISO 1167-2 | Construction products | Yes | 2 | No | |
| | | ISO 4437 | Construction products | Yes | 2 | No | |
| | Cross-linking | EN 579 | Construction products | Yes | 2 | No | |
| | | EN ISO 10147 | Construction products | Yes | 2 | No | |
| | Degree od dispersion | ISO 11420 | Construction products | Yes | 2 | No | |
| | | ISO 18553 | Construction products | Yes | 2 | No | |
| | Density | EN ISO 1183-1 | Construction products | Yes | 2 | No | |
| | | EN ISO 1183-2 | Construction products | Yes | 2 | No | |
| | Density after exhaustion | EN ISO 19892 | Construction products | Yes | 2 | No | |
| | | NKB 12 | Construction products | Yes | 2 | No | avsnitt 3.4.3 |
| | | NKB 18 | Construction products | Yes | 2 | No | |
| | Determination of volatie content | EN 12099 | Construction products | Yes | 2 | No | |
| | Dimension | EN ISO 3126 | Construction products | Yes | 2 | No | |
| INSTA 212 | | Construction products | Yes | 2 | No | | |
| NS 2950 | | Construction products | Yes | 2 | No | | |

Date

Reference

2024-03-11

2022/2625

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> |
|-----------------------|------------------------------|-----------------------|-----------------------|-------------|---------------------|--------------|-----------------------|
| Plastics | Effect of chemicals | EN ISO 9852 | Construction products | Yes | 2 | No | |
| | Full notch creep test (FNCT) | EN 12814-3 | Construction products | Yes | 2 | No | Full Notch Creep Test |
| | Function | NS 3065 | Construction products | Yes | 2 | No | |
| | Longitudinal reversion | EN 743 | Construction products | Yes | 2 | No | |
| | | EN ISO 2505 | Construction products | Yes | 2 | No | |
| | Loss on ignition | EN ISO 1172 | Construction products | Yes | 2 | No | |
| | | SS 168446 | Plastic materials | Yes | 2 | No | |
| | Peel decohesion test | EN 12814-4 | Construction products | Yes | 2 | No | Decohesion test |
| | Softening point | EN ISO 2507-1 | Construction products | Yes | 2 | No | |
| | | EN ISO 2507-2 | Construction products | Yes | 2 | No | |
| Viscosity | EN ISO 13229 | Construction products | 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