

Product description

eListex is an innovative electrically conductive layer that enables immediate and reliable leak detection on flat roofs and other applications while simultaneously addressing water condensation issues and moisture distribution. This revolutionary product allows for immediate leak detection to determine the integrity of the insulation layer right after its installation—without the need to wait for moisture accumulation under the roofing membrane. Whether it is PVC, PVC-P, FPO, TPO, EVA/EBA, or bituminous membranes, eListex ensures a higher quality and more efficient leak detection process.



Key features

1. Immediate leak detection

eListex enables testing right after the installation of the waterproof layer.

2. Universal compatibility with materials

Compatible with waterproof layers. Ensures precise and reliable leak detection on all types of insulation.

3. Instant electrical conductivity

Unaffected by temperature, evaporation, or dry weather conditions.

4. Universal compatibility with methods

Compatible with all common leak detection methods and Arc-Testers / Spark Testers / HVET / ELD devices.

5. Effective condensation prevention

A unique texture, an interconnected microchannels disperses moisture and prevents condensation buildup.

6. Easy installation

Quick application directly under the waterproofing layer without the need for special tools.

7. Leak detection at any time

After completion, before covering, and even during later inspections.

Application areas

Flat roofs

- From residential buildings to industrial halls
- Fast leak detection
- Long-term waterproofing protection
- Easy maintenance and monitoring
- Compatible with various membranes
- Prevents costly repairs

Landfills and environmental isolations

- Leak detection in geomembranes
- Prevents contaminant leakage
- Stability and resistance
- Precise insulation integrity control
- Compliance with environmental regulations

Water reservoirs and dams

- Ensuring the integrity of waterproofing systems
- Accurate leak localization
- Protection of water resources
- Long-lasting insulation durability
- Effective testing after installation

Tunnels and underground structures

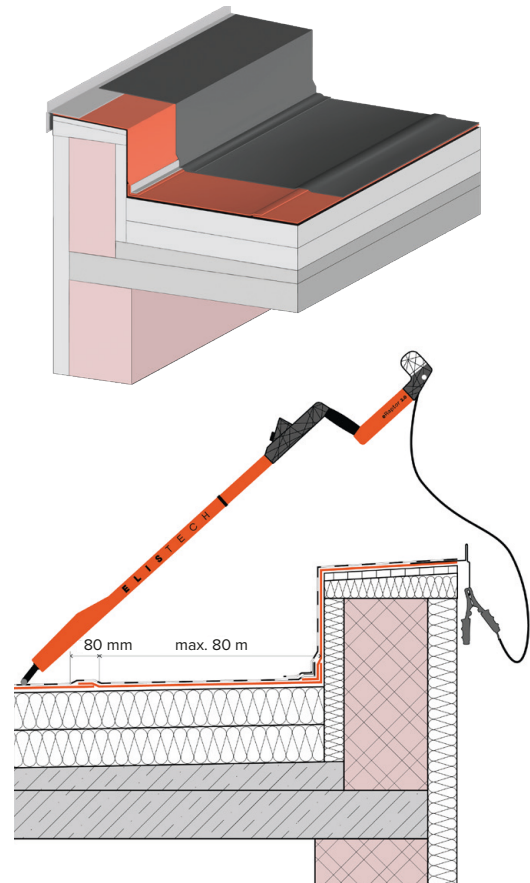
- Protection against water ingress
- Continuous lifetime monitoring
- Fast repair in case of damage
- Enhanced structural safety
- Compatible with waterproofing systems

Technical specifications

	Value	Standard
• Name	eListex 103	-
• Type	Composite layer with metallic core	-
• Color	Orange / silver	-
• Permeability	Vapor Permeable	-
• Weight	103g/m ² ± 6%	EN 1849-2
• Dimensions	1.26m x 80m 1.50m x 67m	-
• Area	~ 100m ²	-
• Tensile strength MD	≥ 105 N/100mm	EN 12311-1
• Tensile strength CD	≥ 75 N/100mm	EN 12311-1
• Elongation MD	≥ 25%	EN 12311-1
• Elongation CD	≥ 15%	EN 12311-1
• Tear strength MD	≥ 85N	EN 12311-1
• Tear strength CD	≥ 110N	EN 12311-1

Legend

MD Machine direction (longitudinal)
CD Cross direction (transverse)



How it works

eListex is applied directly under the roofing membrane. Onto (EPS, XPS, PIR, mineral wool, geotextile, etc.) of flat roofs or any project with geomembrane. When placed under the waterproofing membrane, it creates a continuous conductive layer that enables superior and more efficient leak detection.

Leak detection methods

The membrane maintains constant electrical properties and is compatible with all common leak detection methods:

- **Arc-tester / Spark tester**
- **HVET** (High Voltage Electromagnetic Testing)
- **ELD** (Electronic Leak Detection)
- **LPD** (Low Voltage Pinhole Detector)
- **HHD** (High Voltage Holiday Detector)

Packaging dimensions and weight

- **eListex:** 225 mm x 225 mm x 1,550 mm ~11.4kg
180 mm x 180 mm x 1,550 mm ~11.3kg

eListex + eRaptor 2.0 = better results

Our devices, including the eRaptor 2.0, are specifically designed to work seamlessly with the eListex conductive layer, which has been developed together with the device. This layer is engineered to enhance the performance of the eRaptor, ensuring even greater accuracy and optimal results in leak detection.

Special notice

We inform you that, in accordance with the Construction Products Act of April 16, 2004 (Dz. U. Nr 92, pos. 881), the electrically conductive detection layer for spark tests is not a construction product, as it has not been included in the scope of any mandates of the European Commission for the development of harmonized standards and guidelines for the development of European technical approvals. Therefore, for the above-mentioned products introduced to the market after May 1, 2004, no technical approval can be granted, as they are not subject to the provisions of the Construction Products Act. As a result, they are not required to be marked with the CE or B construction mark, nor to issue a national or European declaration of conformity.