

On-site inspection of membrane structures



We, the DEKRA Laboratory for Technical Textiles and Films, are an accredited and independent testing laboratory recognized according to building regulations. We have leading know-how and almost four decades of experience in the field of membrane construction. We support manufacturers and planners in the field of technical textiles from the development of material and building physical properties to the development of new measuring methods and testing equipment as well as manufacturers and building contractors in quality assurance.

Our expertise is also in demand on site for a large number of spectacular lightweight construction projects worldwide. The laboratory develops its own measuring procedures and equipment and carries out test procedures, e.g. biaxial and multiaxial tests.

The membrane stress measuring tool developed by the laboratory is used for the assessment and inspection of the structure on site. It serves the verification of the existing prestress in tensioned membrane surfaces to prevent damages. Recently, DEKRA's own drone has also been used to inspect areas in buildings that are difficult to reach. This opens up new possibilities in the assessment and analysis of membrane structures.

Applications:

- > Measurement of stresses in the membrane or film on the structure
- > Damage analysis
- > Regular inspection of the condition of facades and roofs

Advantages of the membrane tension gauge:

- > All membrane and film materials can be calibrated
- > Use by our experts on site or also on rental basis
- > Multilingual menu
- > Handy
- > Storage of a large number of measuring points
- > Optical display of the measurement results
- > Complete documentation
- > Better than 15% accuracy (of measuring point)

Our experience

Everyone talks about safety. We do something about it. Regardless of whether it's for information, advice, measuring or testing: We are not far away from you. Or do you know any other safety service provider who is there for you with such a comprehensive, standardized range of services and consistent quality?

Get an idea of our services for technical textiles and films or talk to us personally straight away.

We look forward to talking to you.

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