

Tensile Structures



On the safe side.

Quality management and material testing for tensile structures

Advances in textiles and structural engineering make it possible to create exciting new shapes and spaces – airy, light-filled structures. Ever lighter, ever stronger. These advances in technology require stringent testing of materials, modelling of acoustics and climate-related properties, standardization and consulting. With our know-how we support planners builders and manufactures of tensile structures through the whole building life-cycle.

What quality management and material testing is all about

Advances in textiles and lightweight structures mean that we are constantly devising new project specific test and measurement apparatus and methods as well as clamping systems for membranes. We also carry out quality control, manufacturing supervision, material and detail development as well as on-site inspection for major construction projects worldwide. As an impartial third party we undertake initial type-testing, factory and production inspection, and grant product certificates. We also carry out audit testing, initial factory inspection and production control and certification at European level. As a part of DEKRA Industrial International GmbH Construction Management – formerly known as Labor Blum - is an independent laboratory recognized by the Deutsches Institut für Bautechnik (DIBt, German Institute for Structural Engineering) – the german approval body for construction products and types of construction – as an institute for testing, surveying and certification of foils and coated fabrics (PÜZ) according to state building codes (LBO).

What DEKRA offers you

In fabric architecture, every link in the supply and installation chain has to be subject to close quality control and supervision. The best material can fail if incorrectly installed – and the best installation technique can never make up for suboptimal materials or material choices. That's why quality control is a major focus of our business. We develop and conduct the following services:

- > Quality assurance strategies
- > Manufacturing process audits
- > Installation on site supervision
- > Technical approval and consultancy
- > Damage evaluation
- > Building physics consultancy
- > Material testing



Summary of our services

DEKRA Industrial International offers a wide branch of specialized services in quality management for the building industry focused on textile architecture. With the know-how and technical support of DEKRA during the planning, fabrication and building process, tensile structures get even safer and achieve the highest quality standards.

Quality Management and material testing for tensile structures

- > Consultancy and third party inspection from early design stage to final execution of membrane structures
- > Quality assessment for membrane structures, third party inspection of manufacturing and erection, measurement of stresses on site
- > All kinds of material testing for textile architecture, especially designed tests for special project tasks (material and detail testing, biaxial tests, longterm tests etc.)
- > Expert device, investigation of problems and damages
- > Material development (R&D)
- > Development of measurement devices for membrane and cable structures for longtime and construction survey
- > Special environmental / building physical expertise for lightweight structures

Our experience

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

Get an idea of our services for Quality Management and material testing for tensile structures or talk to us personally straight away.

We look forward to talking to you.

Other services you benefit from

DEKRA also offers you professional testing and consultancy services in many related areas, including:

- > Energy management system, DIN EN ISO 50 001
- > Construction and project management
- > Appointment of health and safety coordinator
- > Technical due diligence
- > Energy audits
- > Sustainability and energy efficiency

And much more

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