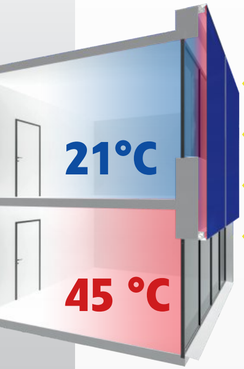
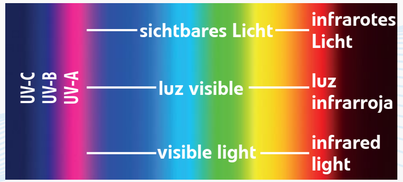
Bioclimatic facade



Textile facades have a positive effect on the climate control of a structure. It delays aging and prevents stress cracks that occur in building structures due to temperature fluctuations.

Using air as an insulator and transport medium for moisture leads to a natural and pleasant indoor climate without energy consumption.

A contribution to environmental protection and reduction of CO2 emissions.



It gets even better!
roho has further developed the textile façade fabric especially for countries with high air-conditioning requirements. further development of the textile façade fabric. The new roho textile façade fabric MetaMesh with the Low-E effect was developed. It is now possible to separate the infrared part of the light from the entire spectral range of solar radiation. This means that only the visible light component passes through the fabric. The infrared portion, which is responsible for the heat, is blocked. The sun's rays can no longer heat the building behind a textile facade. As a result, the rooms in the building remain even cooler than with a "normal" textile facade.

Leading through innovation - rohoflex

Always fits...

Always right tensioned...

Many connections for the most diverse situations!

Consulting, planning and statics
fabric development/research
patented tensioning technology
assembly

As a "clean-tech" company, we develop and produce products with which we solve problems such as food, water and energy and thus improve the quality of life on our planet for everyone. The textile facade plays a central role in this with its possibility of saving energy. But their potential has not yet been exhausted.

The next generation of façade fabrics, such as the new Meta-Mesh fabric developed by roho, ingeniously uses physics to cool buildings without energy.

To reduce water and land consumption, roho is developing Vertical Farming solutions. Here, for example, the water consumption for vegetable production, but also the land consumption, is reduced by 90-95%. More information at aeroponic.farm

Current planning documents
can be found in the architects' area at:
https://rohoarchitecture.com/architects

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The complete textile facade solution

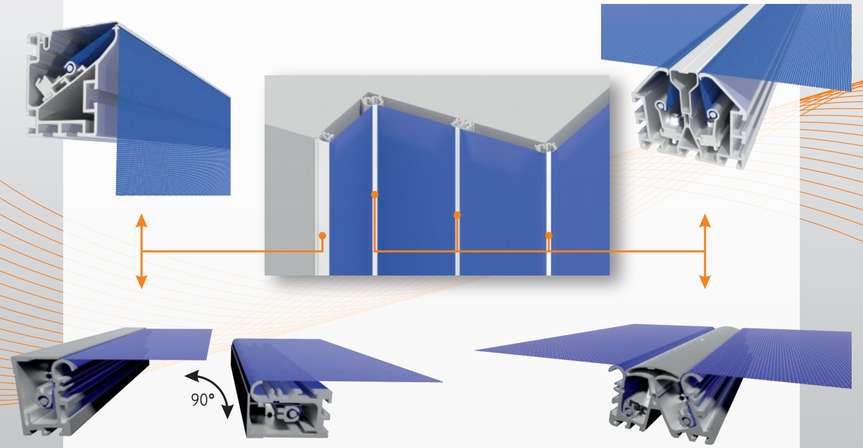
www.rohoarchitecture.com

Tensioning profiles

rohoflex

rohoflex uno

rohoflex duo



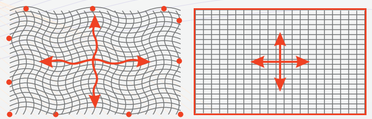
rohoflex compact uno
can be used standing or lying

rohoflex compact duo

There are two rohoflex facade system consists of the heavy duty profiles rohoflex for large areas. The rohoflex compact system is for cassette elements or small to medium areas.

Both systems have the patented, unique design advantages:
- invisible tensioning mechanism, optionally spring-loaded
- automatic tension regulation even in critical corner areas
- gentle on fabric, therefore also suitable for sensitive glass fiber fabrics
- maintenance-free, the tensioning technology is protected inside the profile body
- tested with all common fabrics
- simple and economical installation
- inside the patented tensioning profiles the fabric is glidingly fixed and guarantees a compensation in case of dimensional changes due to temperature differences.

The linear fastening ensures uniform load distribution and fabric tension. This guarantees a long service life of the facade and a homogeneous appearance.



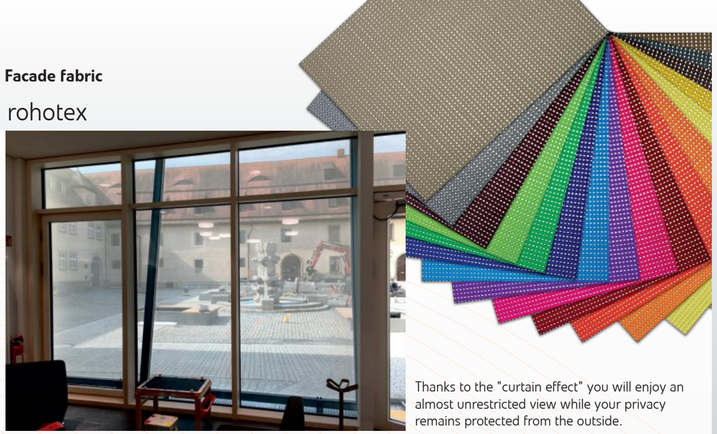
selective fixing

linear attachment (rohoflex)

Patented technology

Facade fabric

rohotex



Thanks to the "curtain effect" you will enjoy an almost unrestricted view while your privacy remains protected from the outside.

Material specifications

	rohotex	rohotex premium
Core / coating	Polyester / polyvinyl chloride (PES / PVC)	Glass / polytetrafluoroethylene (PTFE)
Fabric Type	Mesh Fabric	Mesh Fabric
Colors	15 trend colors and other colors on request	white (beige turns white under UV light) black, silver metallic, other colors on request
printable	✓	×
Coating	different types of coatings PVDF / TiO_2 / Low-E	PTFE
Fire behavior	B1 (DIN 4102-1) • B-s2-d0 (EN 13501-1)	A2 (DIN 4102-1) • A2-s1-d0 (EN 13501-1)
Material widths	126'' / 320 cm, depending on the shade/fabric type	~150'' / 380 cm
Advantages	Large color selection offers creative. Design scope for facades. Good price / performance ratio.	Meets high fire safety regulations. Extremely high tensile strength. Very good dirt repellent properties.

Subject to technical changes in the course of further development.