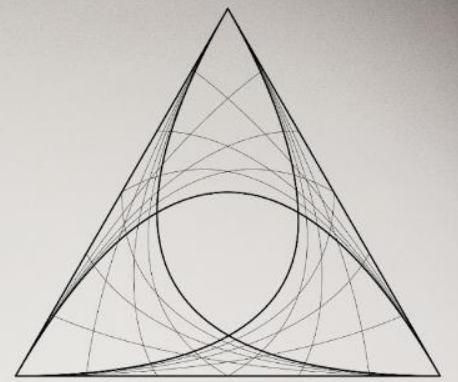
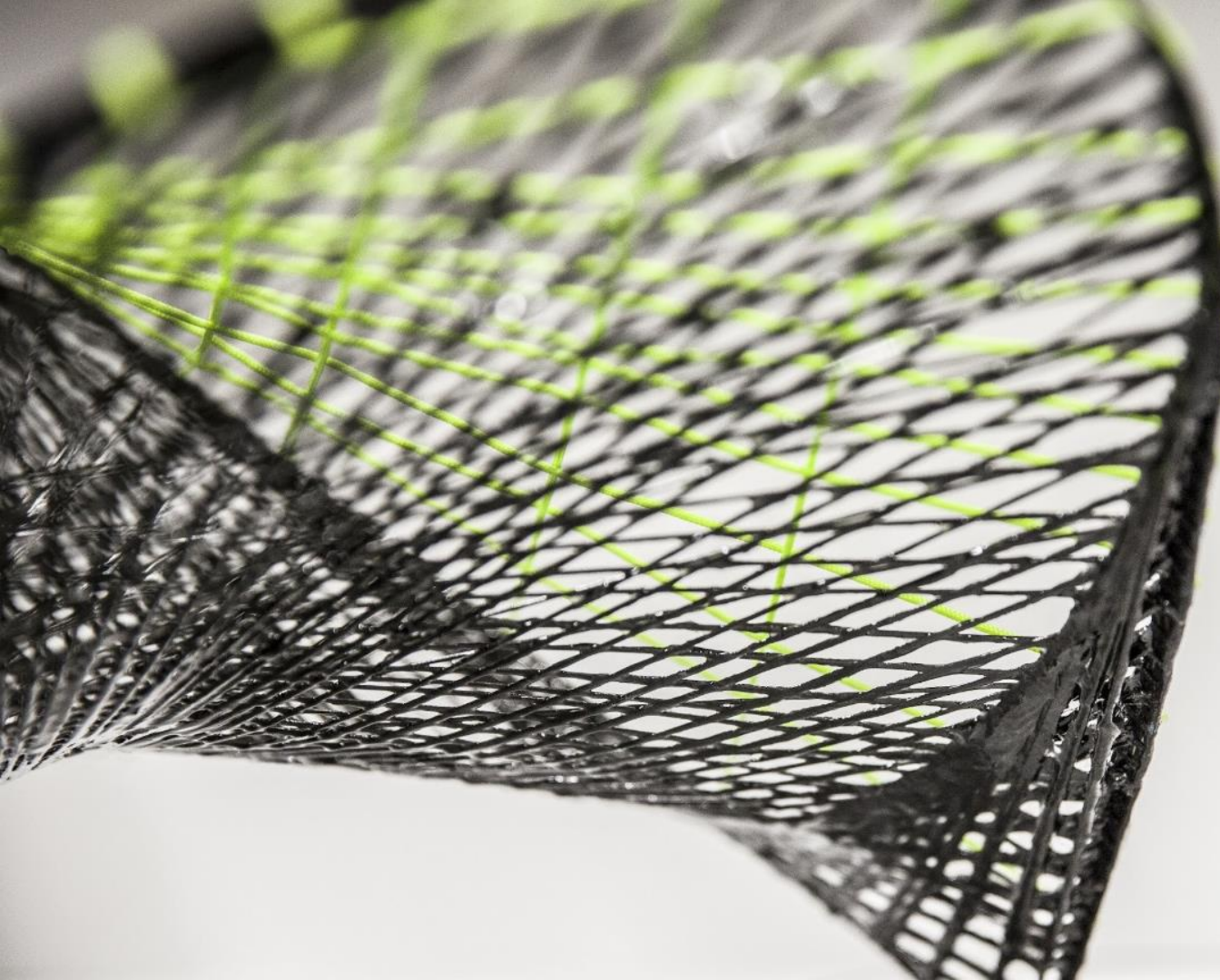


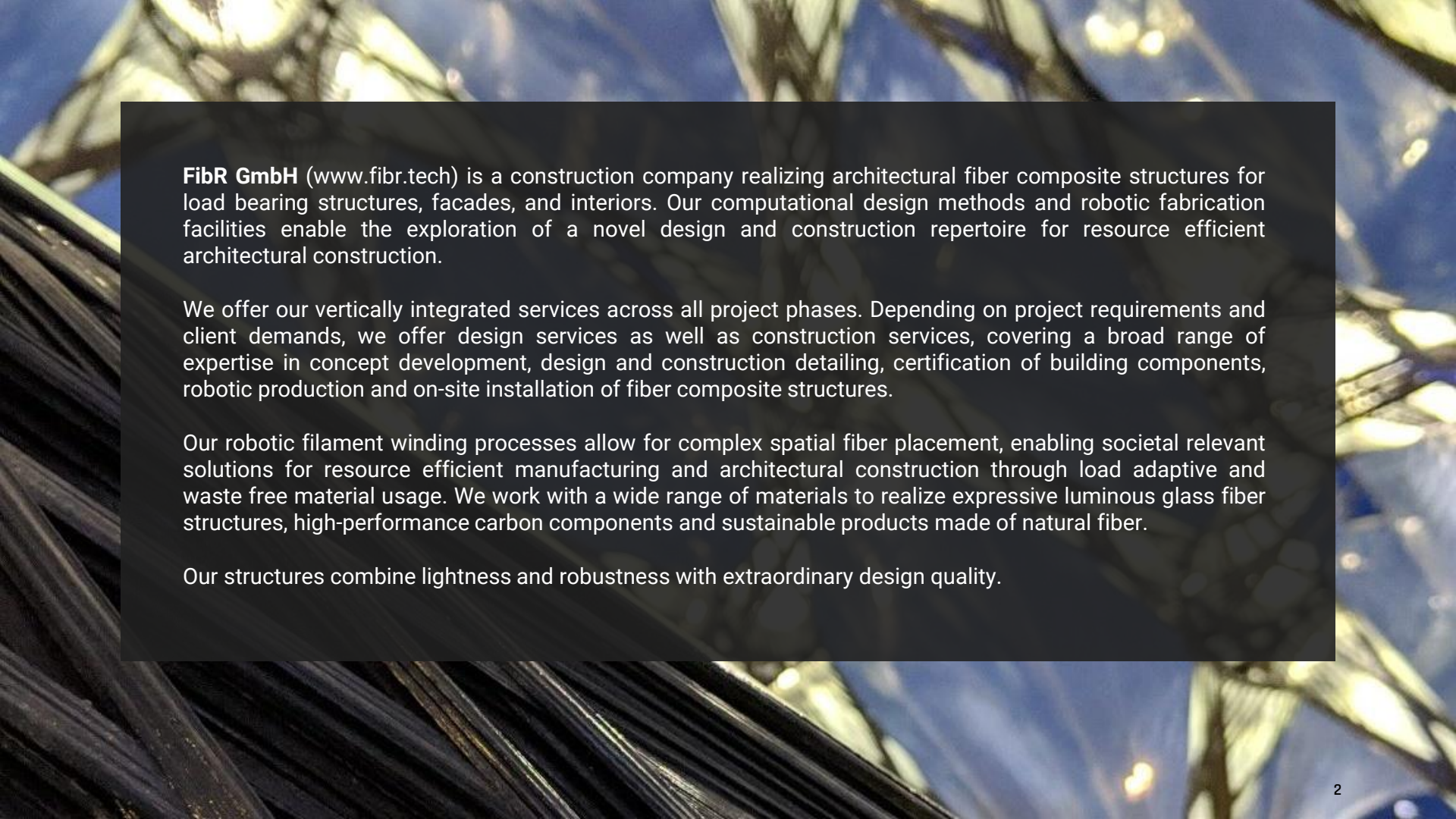


FibR[®]
reinventing composites

www.fibr.tech

info@fibr.tech

+49 (0) 7151 1693113



FibR GmbH (www.fibr.tech) is a construction company realizing architectural fiber composite structures for load bearing structures, facades, and interiors. Our computational design methods and robotic fabrication facilities enable the exploration of a novel design and construction repertoire for resource efficient architectural construction.

We offer our vertically integrated services across all project phases. Depending on project requirements and client demands, we offer design services as well as construction services, covering a broad range of expertise in concept development, design and construction detailing, certification of building components, robotic production and on-site installation of fiber composite structures.

Our robotic filament winding processes allow for complex spatial fiber placement, enabling societal relevant solutions for resource efficient manufacturing and architectural construction through load adaptive and waste free material usage. We work with a wide range of materials to realize expressive luminous glass fiber structures, high-performance carbon components and sustainable products made of natural fiber.

Our structures combine lightness and robustness with extraordinary design quality.

Design Assist and Concept Development

With our integrative design methods we negotiate complex interrelations of geometry, structure, function, material behaviour and robot kinematics to meet your performance goals with uniquely adapted parts.



Computational Design

With our architectural background and our seamless digital design and fabrication chain, we can provide detailed insights and documentation in every project phase from early design to assembly and deconstruction.

•Component Nr. 17
Area :4.69 m²
Weight :56.28 kg

•Component Nr. 14
Area :3.47 m²
Weight :41.64 kg

•Component Nr. 15
Area :3.87 m²
Weight :46.44 kg

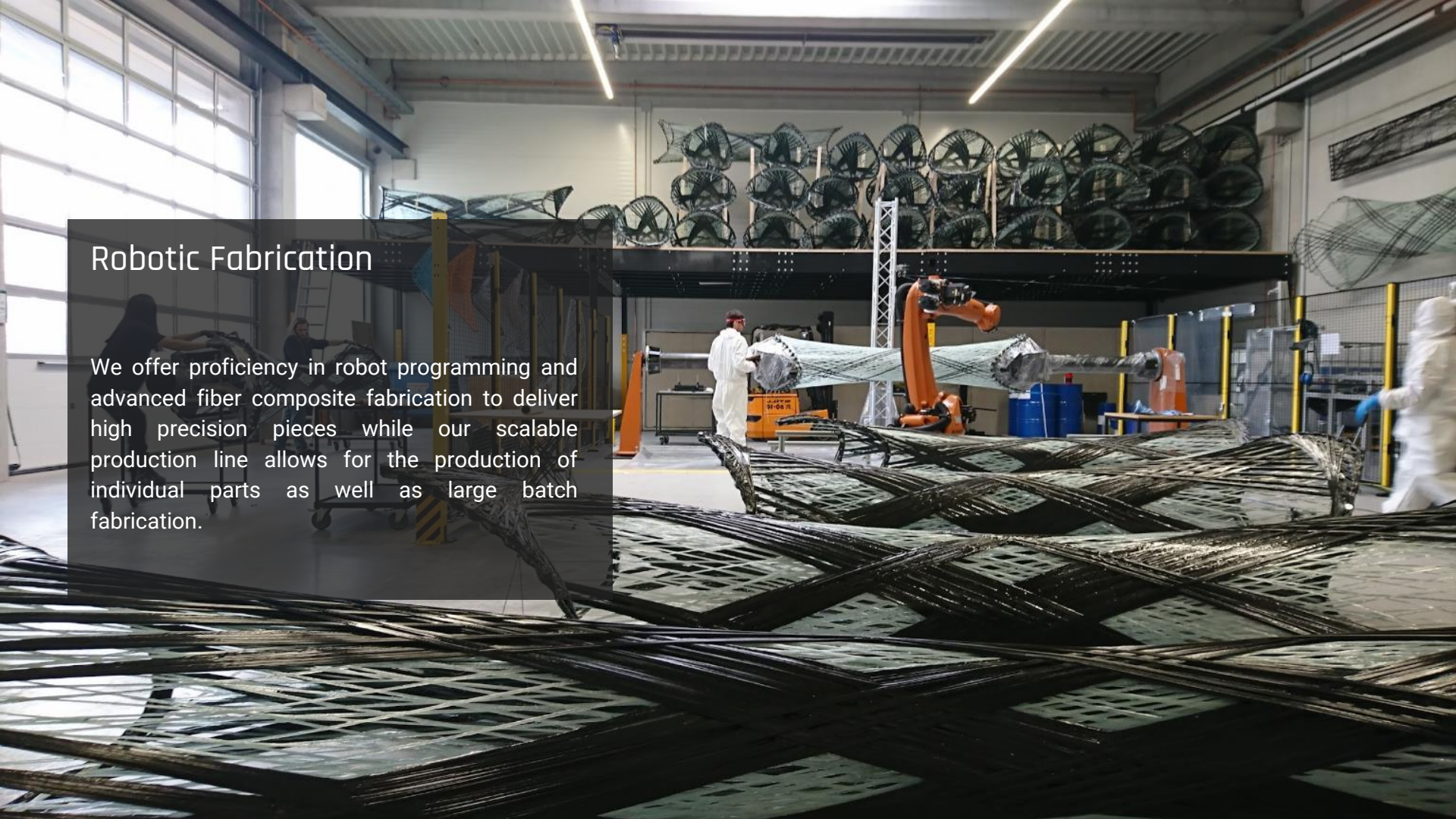
•Component Nr. 16
Area :4.22 m²
Weight :50.64 kg

•Component Nr. 12
Area :3.66 m²
Weight :43.92 kg

•Component Nr. 10
Area :4.98 m²
Weight :59.76 kg

Robotic Fabrication

We offer proficiency in robot programming and advanced fiber composite fabrication to deliver high precision pieces while our scalable production line allows for the production of individual parts as well as large batch fabrication.

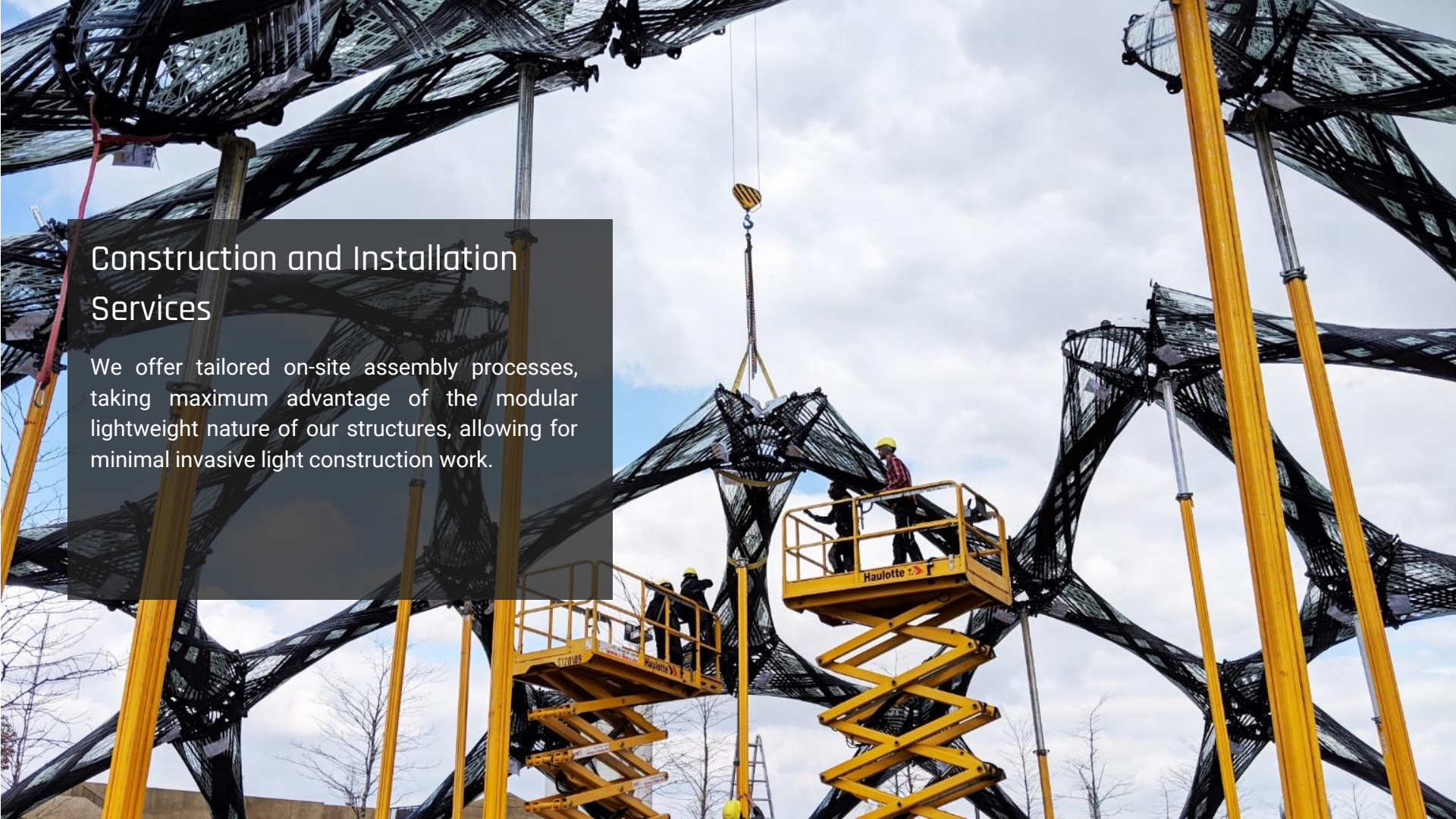




Certification and testing Services

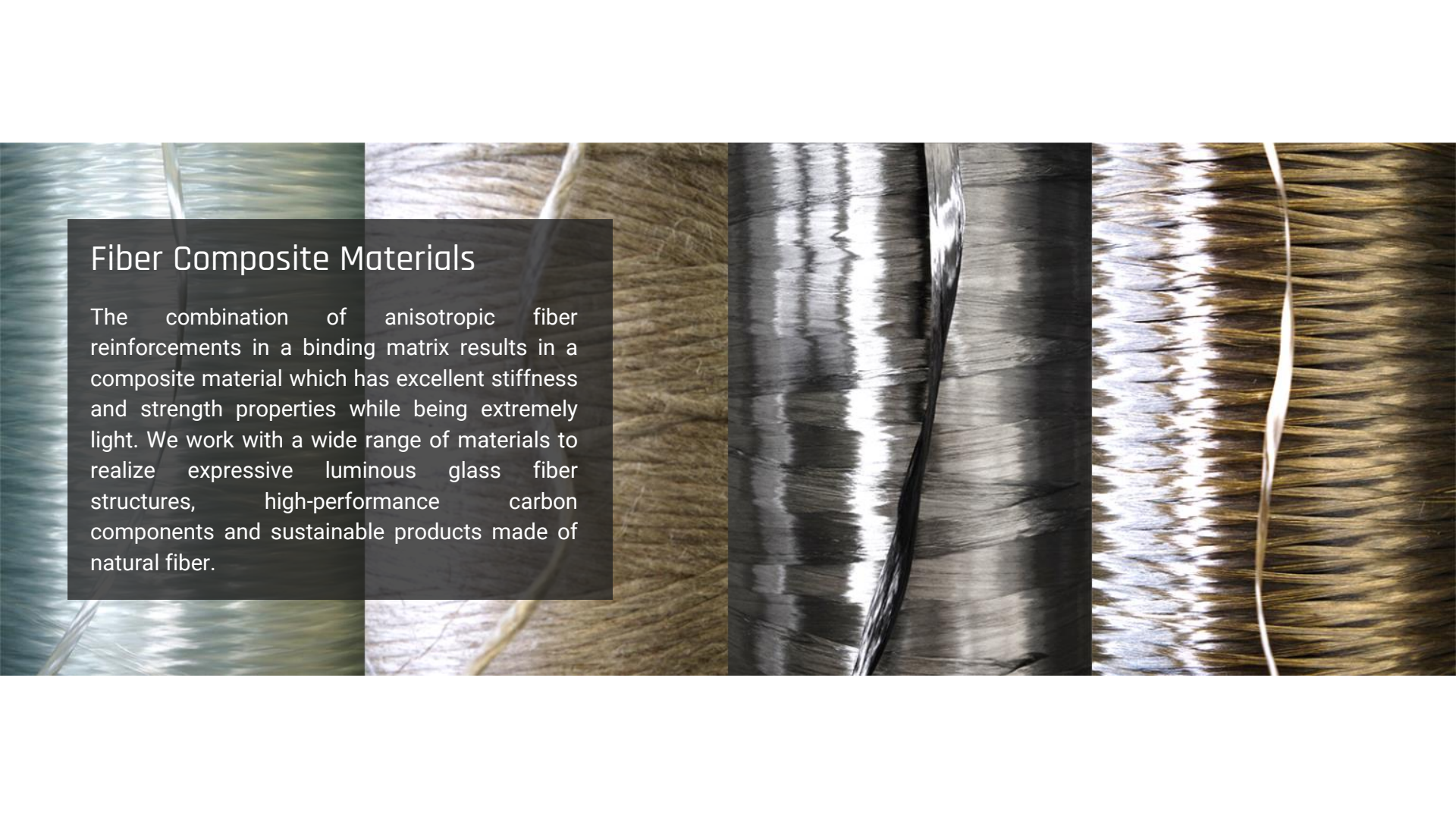
With our interdisciplinary team including aerospace and mechanical engineers as well as our inhouse testing facility, we offer the expertise to test and accompany construction certification procedures in cooperation with the building authorities.





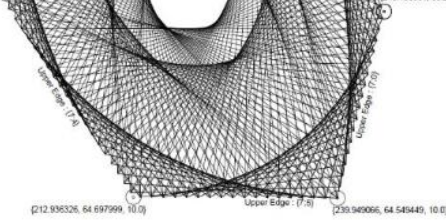
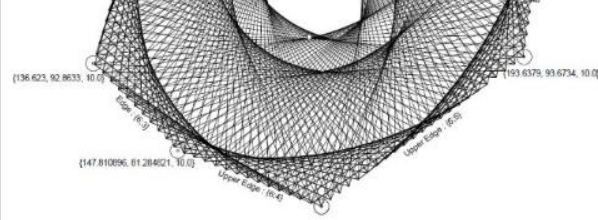
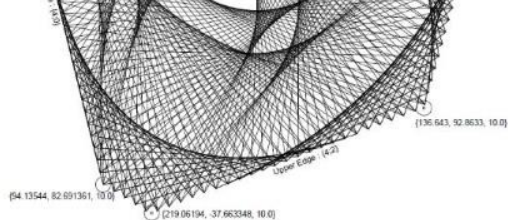
Construction and Installation Services

We offer tailored on-site assembly processes, taking maximum advantage of the modular lightweight nature of our structures, allowing for minimal invasive light construction work.



Fiber Composite Materials

The combination of anisotropic fiber reinforcements in a binding matrix results in a composite material which has excellent stiffness and strength properties while being extremely light. We work with a wide range of materials to realize expressive luminous glass fiber structures, high-performance carbon components and sustainable products made of natural fiber.



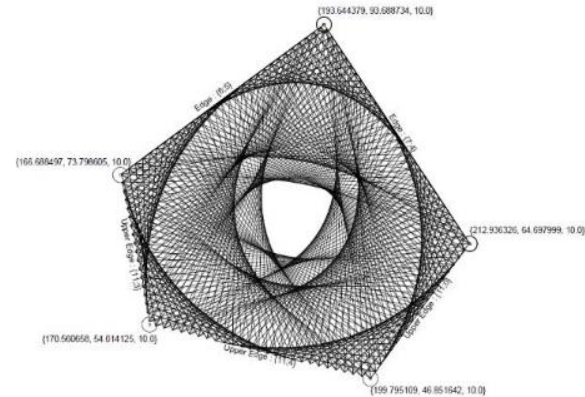
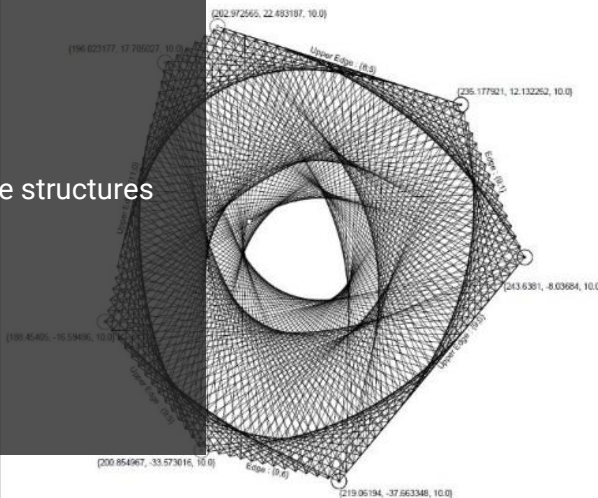
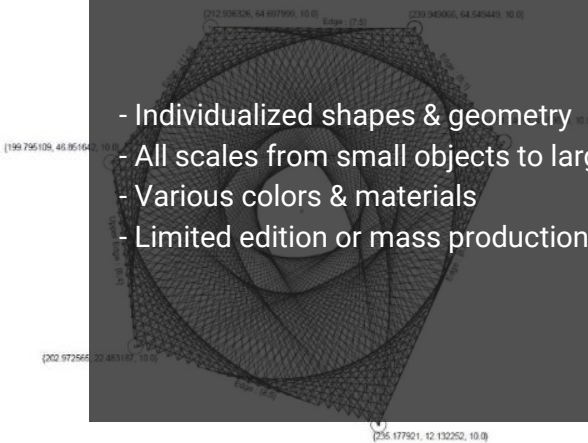
Component Nr: 9
Area :6.31 m²
Weight :75.72 kg

Component Nr: 10
Area :7.20 m²
Weight :86.4 kg

Component Nr: 12
Area :4.26 m²
Weight :51.12 kg

Customizable

- Individualized shapes & geometry
- All scales from small objects to large structures
- Various colors & materials
- Limited edition or mass production



Component Nr: 16
Area :3.87 m²
Weight :46.44 kg

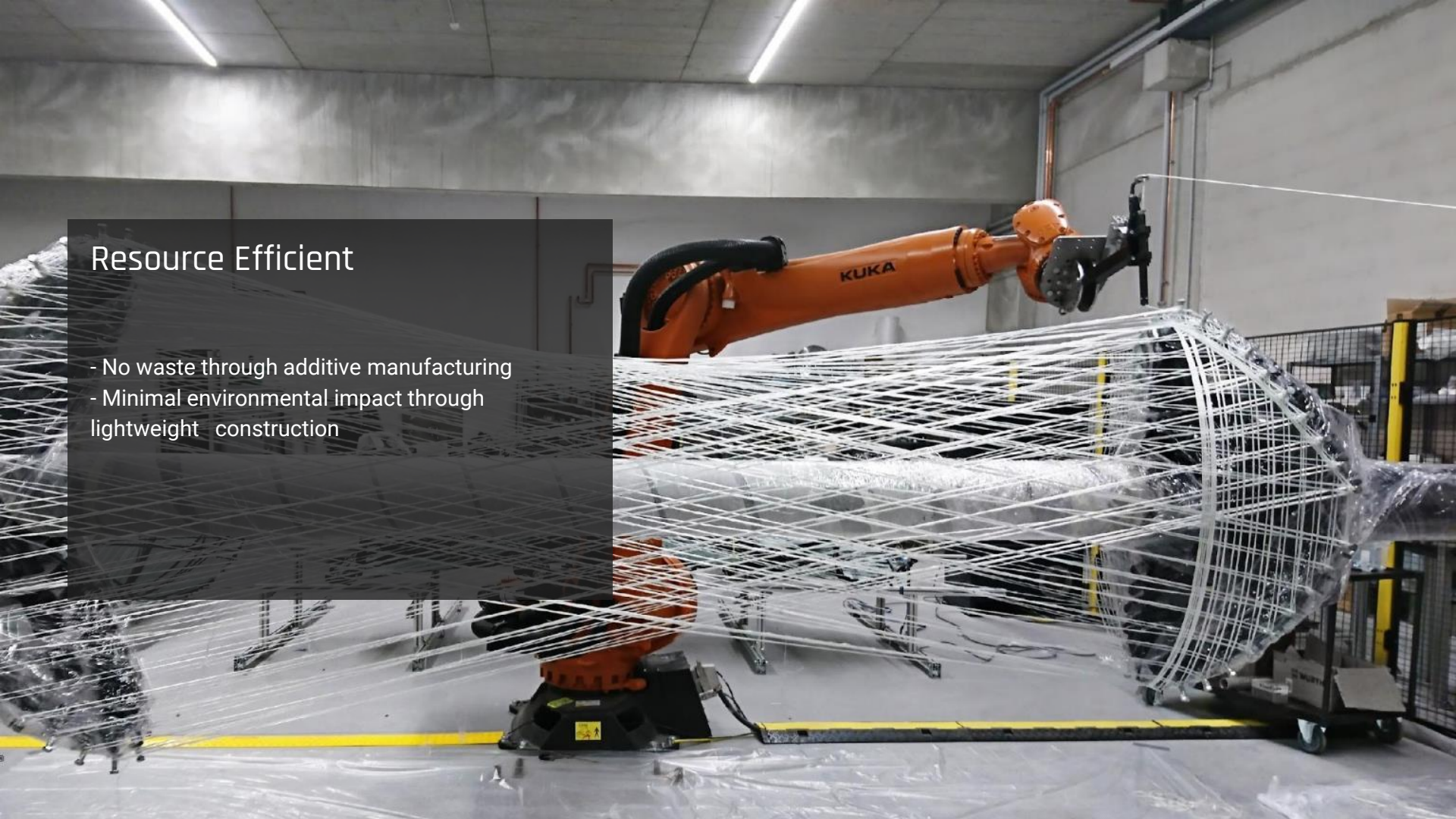
Component Nr: 13
Area :3.66 m²
Weight :43.92 kg

Component Nr: 11
Area :4.98 m²
Weight :59.76 kg



Resource Efficient

- No waste through additive manufacturing
- Minimal environmental impact through lightweight construction



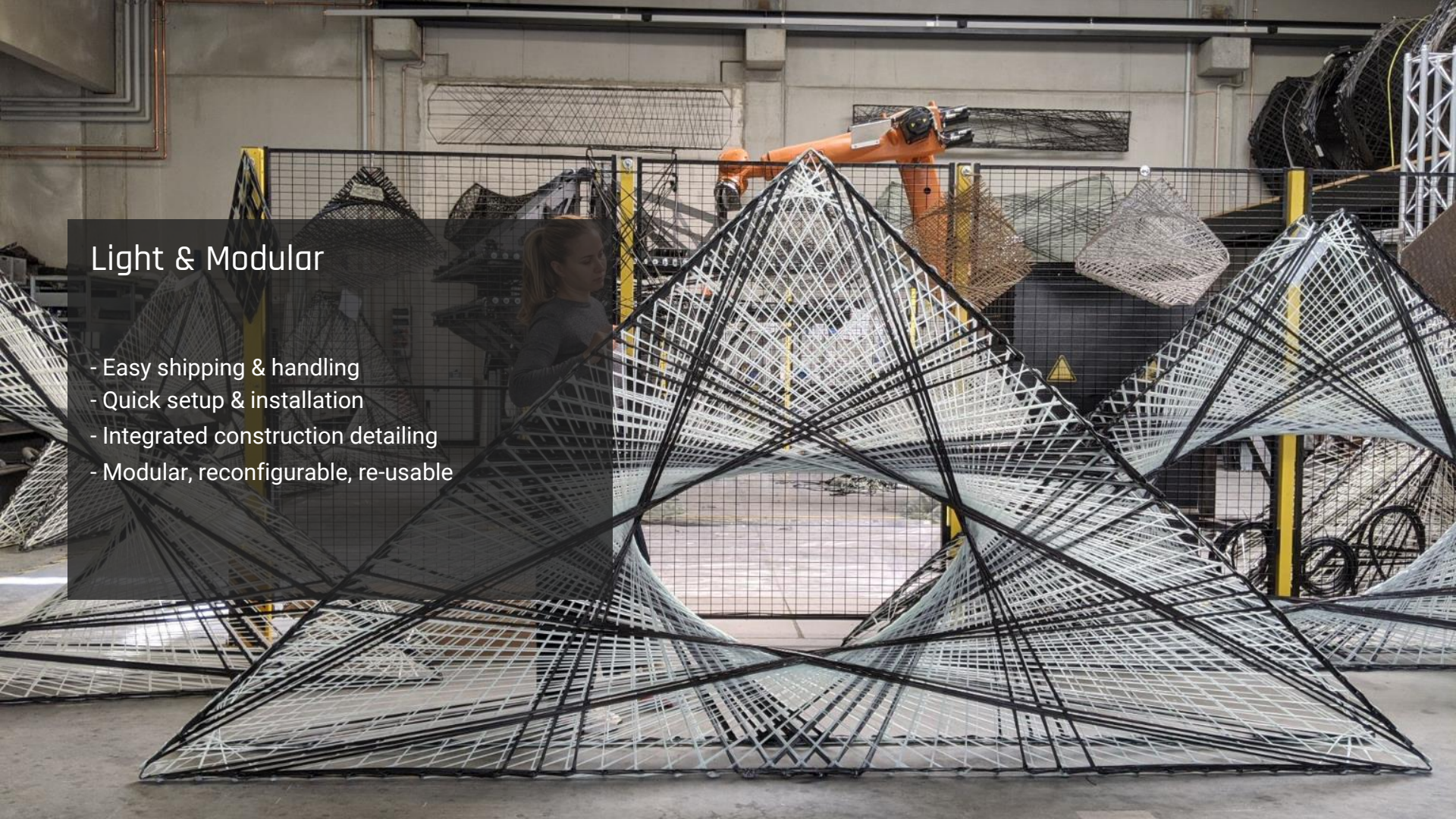
Strong & Robust

- High performance structures
- Innovative construction systems
- Corrosion resistant
- High performance materials



Light & Modular

- Easy shipping & handling
- Quick setup & installation
- Integrated construction detailing
- Modular, reconfigurable, re-usable



Texoversum, Reutlingen

1800 m² facade structure | Realized 2022

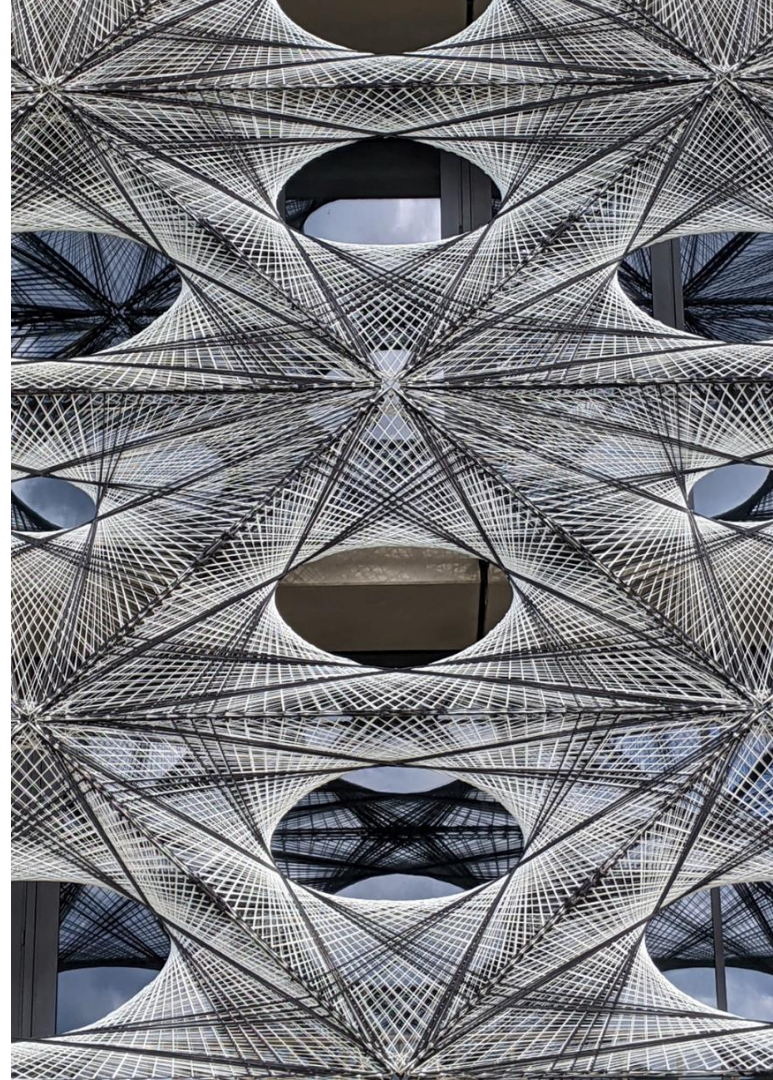
Ultra-light envelope structure as locally differentiated external shading and balcony balustrade for a public building (University)

FibR delivered:

- Prototype development
- Building component certification (fire, structural, weathering)
- Robotic fabrication
- On-site installation

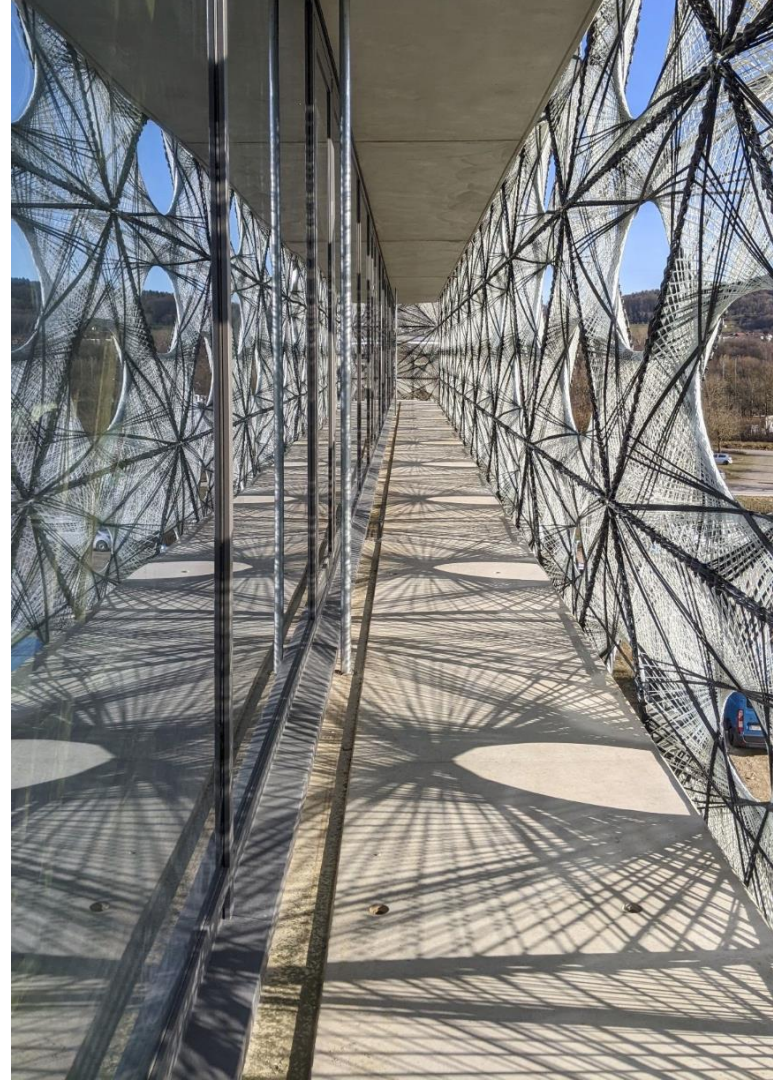


Texoversum, Reutlingen





Texoversum, Reutlingen



BUGA Fiber Pavilion, Heilbronn

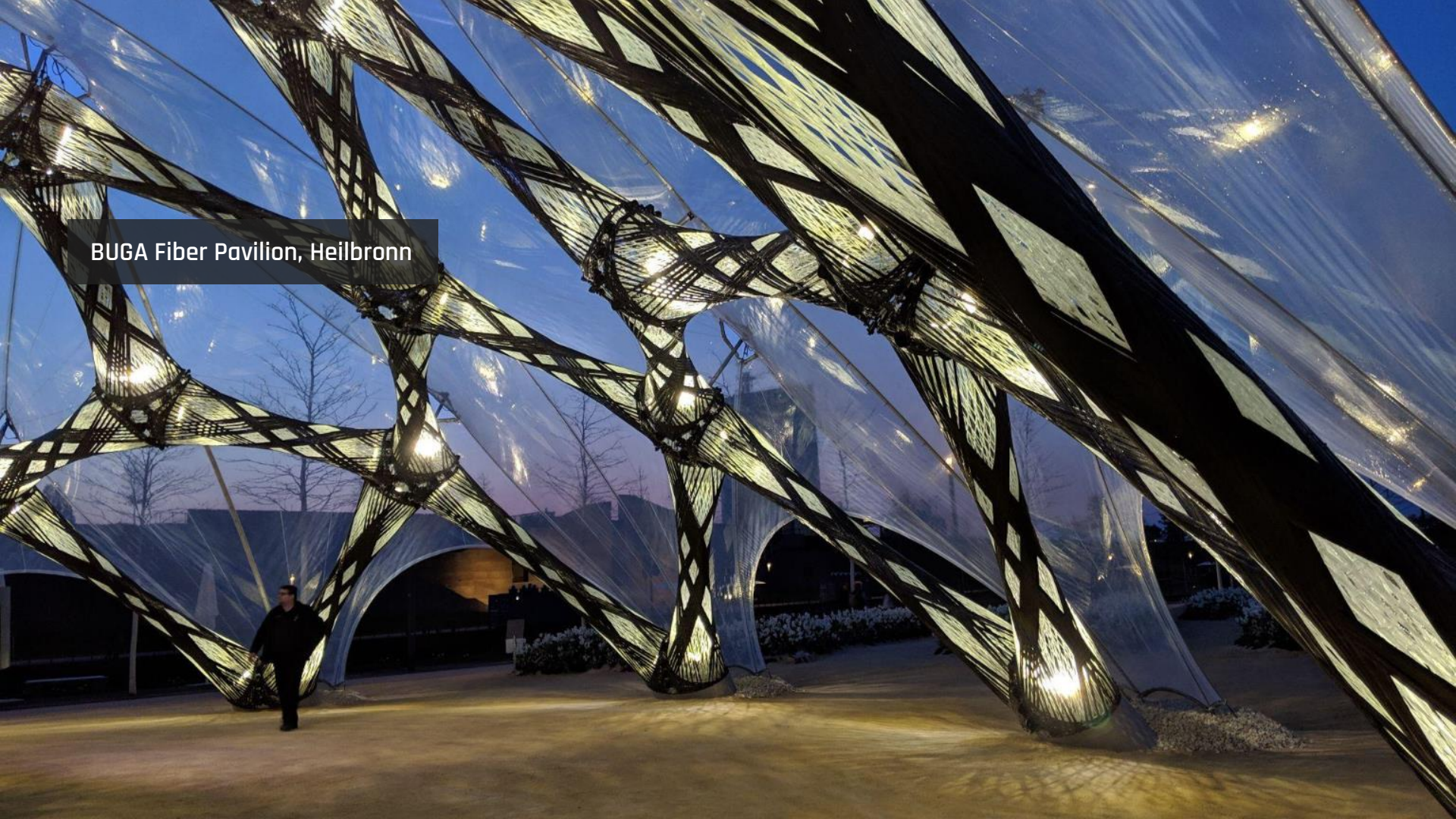
23m wide load bearing structure | Status: Realized 2019

400m² floor area, 7m indoor height, 6.5m long building components, public building

FibR delivered:

- Prototype development
- Certification procedure
- Robotic fabrication
- Installation



A large, illuminated fiber pavilion structure at night. The structure is composed of thick, dark, woven fiber tubes that form a complex, organic, and somewhat abstract shape. These tubes are interconnected, creating a series of large, open spaces. The interior of the tubes is lit from within, casting a warm, yellowish glow. The exterior of the tubes is covered in a fine, dark mesh, which allows light to filter through, creating a pattern of light and shadow. The structure is set against a dark blue night sky. In the background, there are some trees and a building with a large, arched entrance. A person is standing in the foreground, providing a sense of scale to the massive structure.

BUGA Fiber Pavilion, Heilbronn

A large, intricate pavilion structure made of woven natural fibers, resembling a giant's foot or a complex web. The structure is composed of many interconnected, curved elements that create a dense, lattice-like canopy. A person stands in the foreground, looking up at the structure, providing a sense of scale. The pavilion is situated in a park-like setting with trees and a gravel path.

LivMatS Pavilion, Freiburg

9m wide load bearing natural fiber structure | Status: Realized 2021

46m² floor area, 4m indoor height, 6.5m long building components, public building

FibR delivered:

- Design consultation
- Prototype development
- Robotic fabrication
- Installation

LivMatS Pavilion, Freiburg



Daimler Design Arena, Sindelfingen

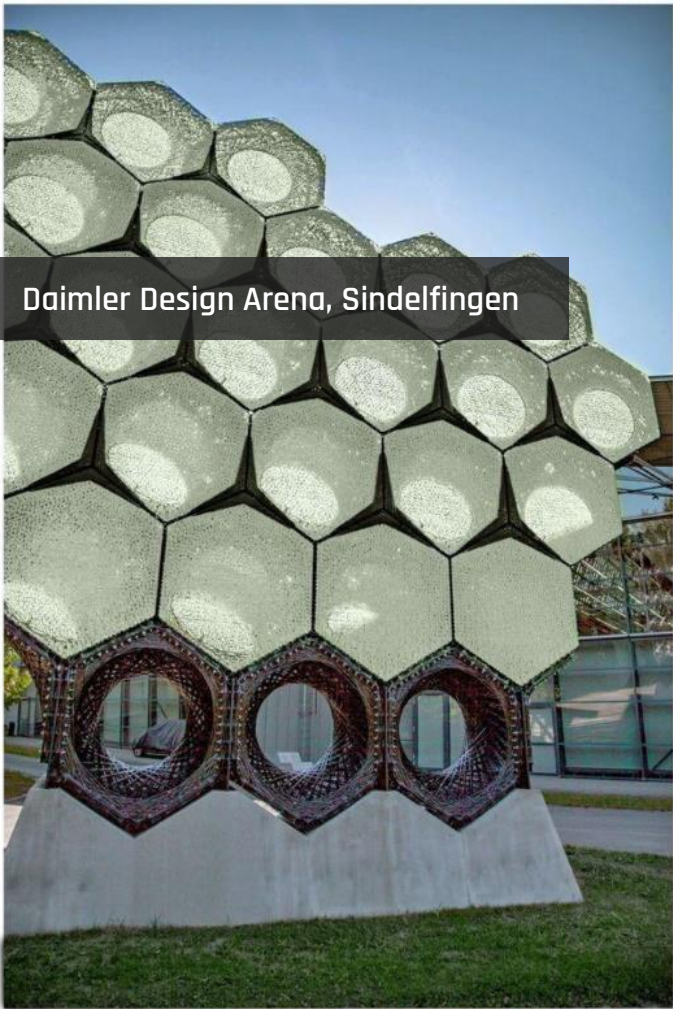
12m high wall structure | Realized 2020

360 m² carbon fiber load bearing structure with textured glass fiber cover panels, 12m high, 72 unique building components

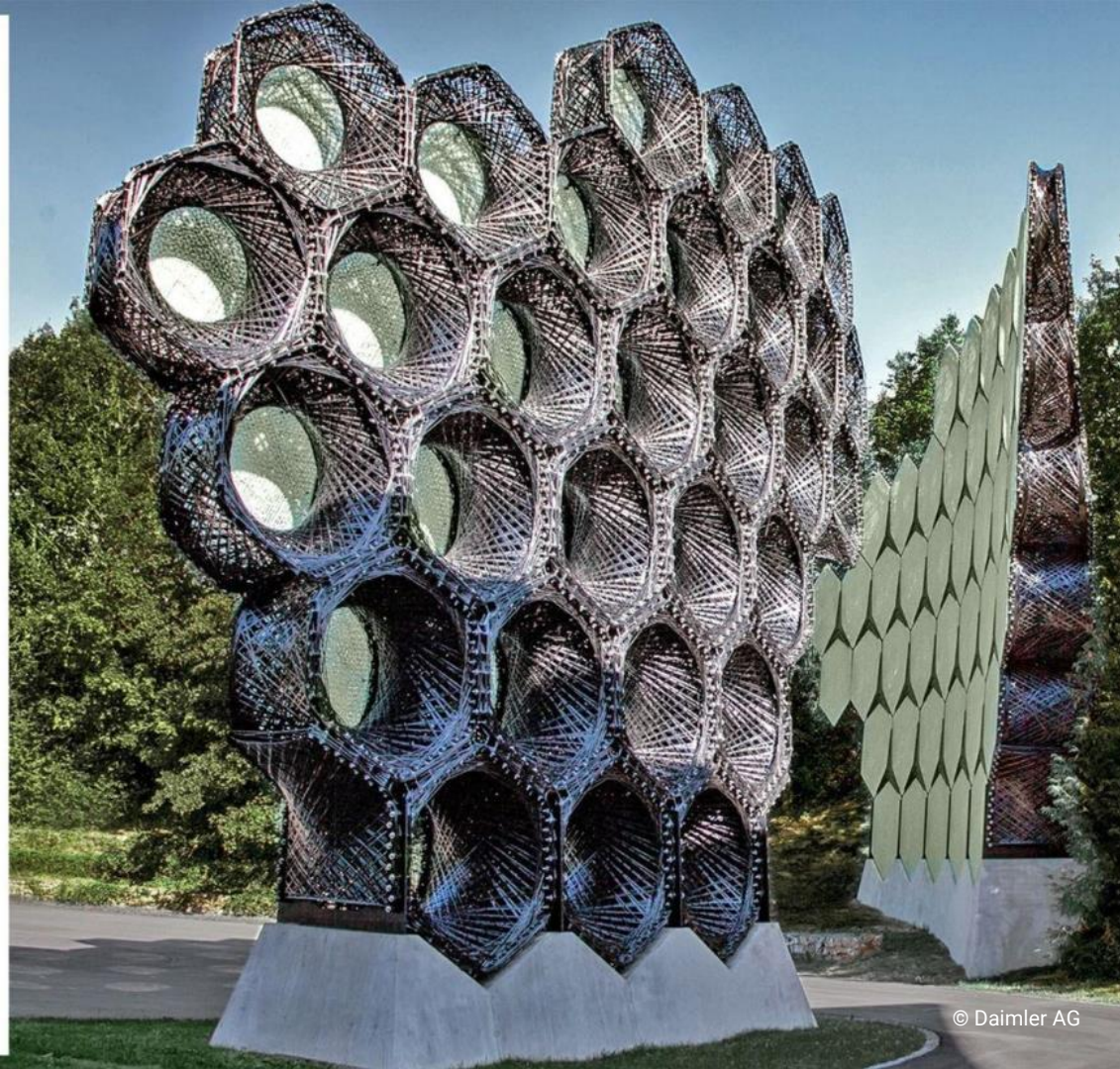
FibR delivered:

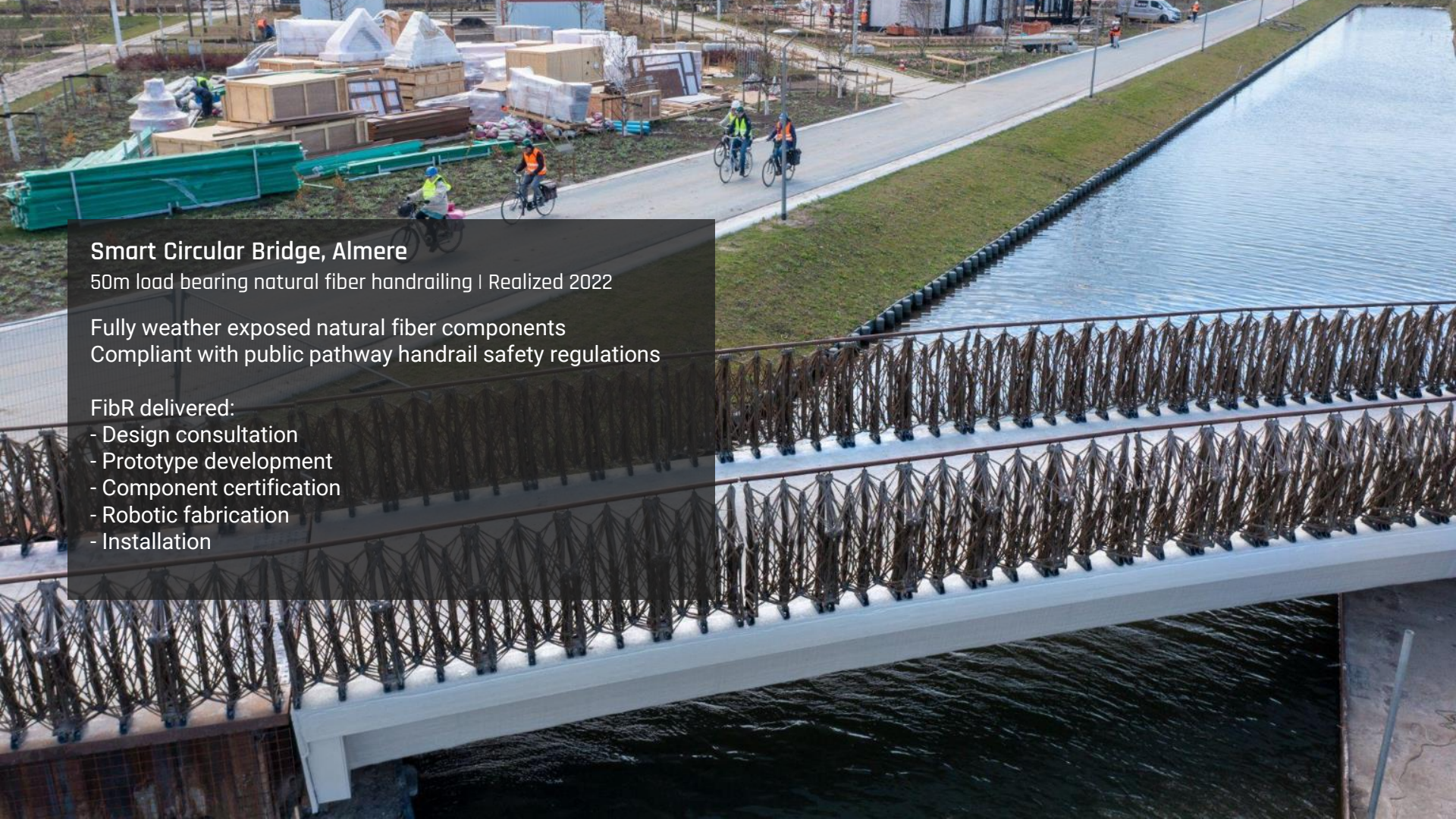
- Concept development
- Construction detailing
- Certification procedure
- Robotic fabrication
- Installation





Daimler Design Arena, Sindelfingen





Smart Circular Bridge, Almere

50m load bearing natural fiber handrailing | Realized 2022

Fully weather exposed natural fiber components

Compliant with public pathway handrail safety regulations

FibR delivered:

- Design consultation
- Prototype development
- Component certification
- Robotic fabrication
- Installation

A wide-angle photograph of a modern pedestrian bridge in Almere, the Netherlands. The bridge features a unique railing system made of vertical wooden slats that can be folded outwards to act as a windbreak. The bridge deck is paved with light-colored concrete and includes sections of dark, textured metal grates. In the background, a river flows under a steel truss bridge, with a city skyline visible in the distance. A person in an orange safety vest is walking on the bridge.

Smart Circular Bridge, Almere

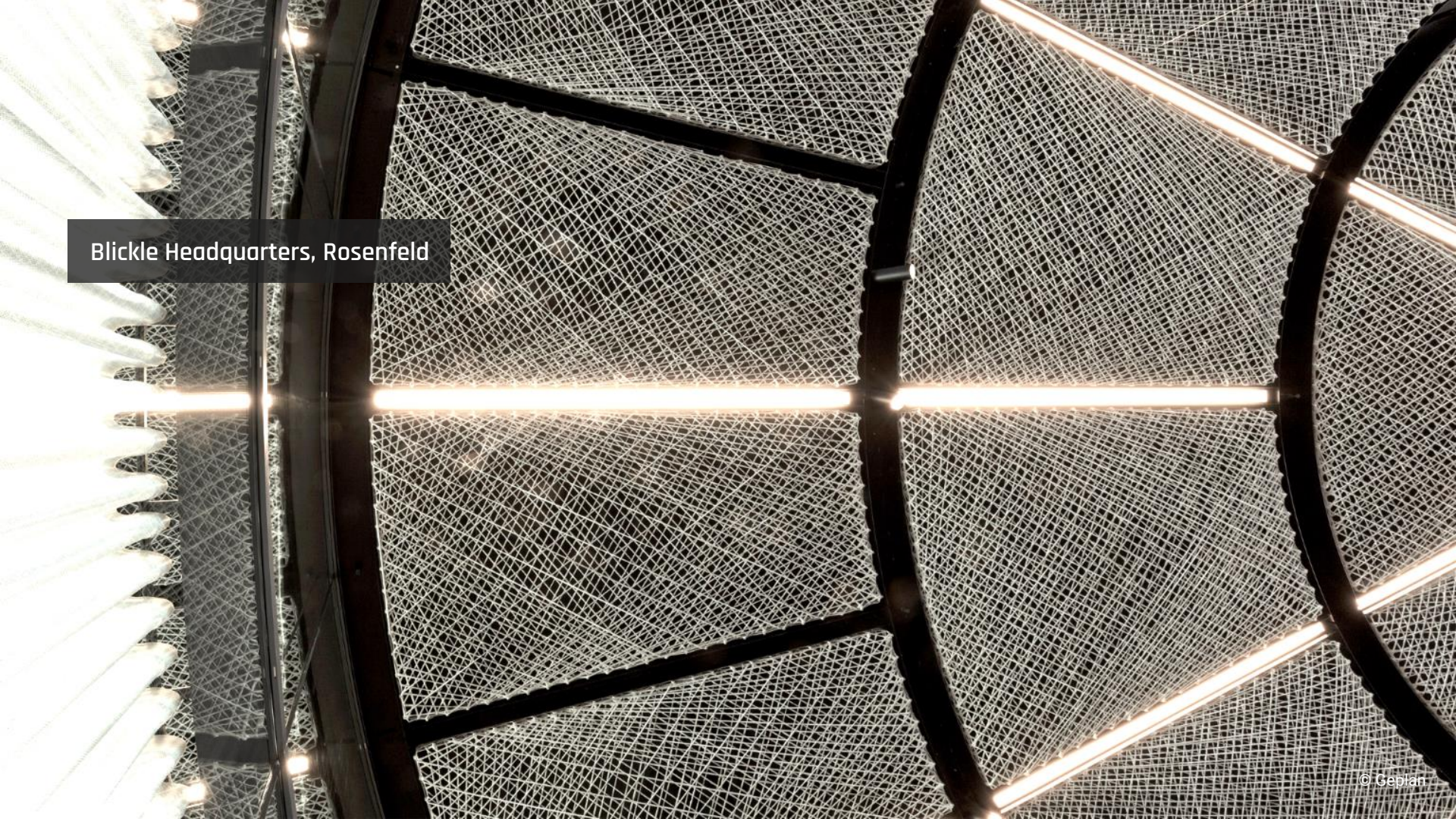
Blickle Headquarters, Rosenfeld

1500m² suspended non-flammable ceiling | Realized 2023

Fire safety class A1, up to 5m long basalt fibre components impregnated with a cementitious matrix.

FibR delivered:

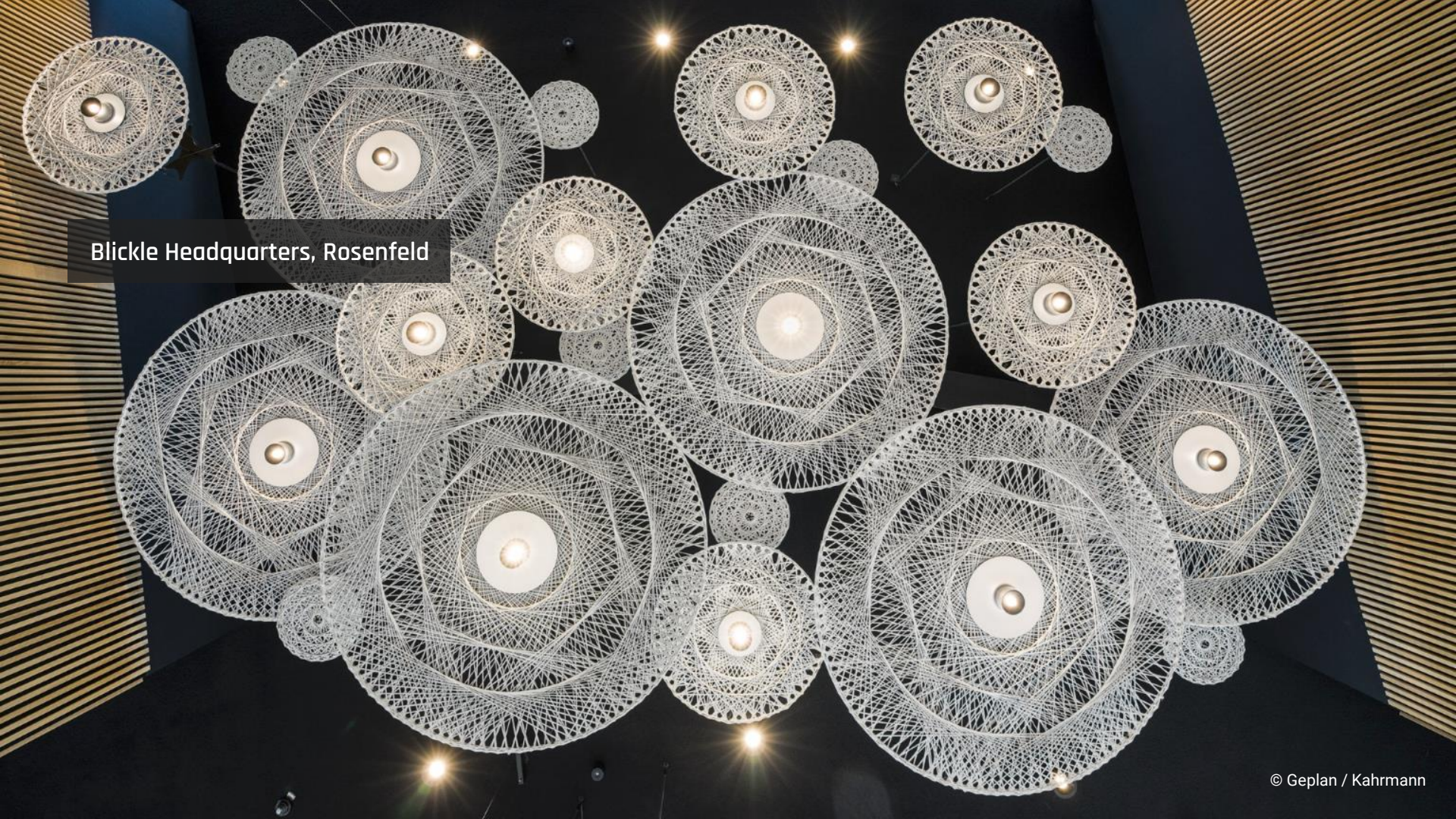
- Design development
- Prototype development
- Material certification
- Robotic fabrication
- Steel substructure realization
- Installation



Blickle Headquarters, Rosenfeld



Blicke Headquarters, Rosenfeld



Blickle Headquarters, Rosenfeld

Urban Micro Climate Canopy, Frankfurt

Modular canopy | Realized 2018

FibR delivered:

- Design consultation
- Prototype development
- Robotic fabrication
- Installation



A large, abstract sculpture made of a light green, mesh-like material, resembling a stylized tree or a canopy. It has several thick, branching legs that support a wide, spreading top. The mesh is covered with small green leaves and vines. The sculpture is mounted on a blue base with the TUM logo and text. People are walking around it in a city square. In the background, there are modern skyscrapers, including the Commerzbank Tower, and older buildings. The sky is blue with some clouds.

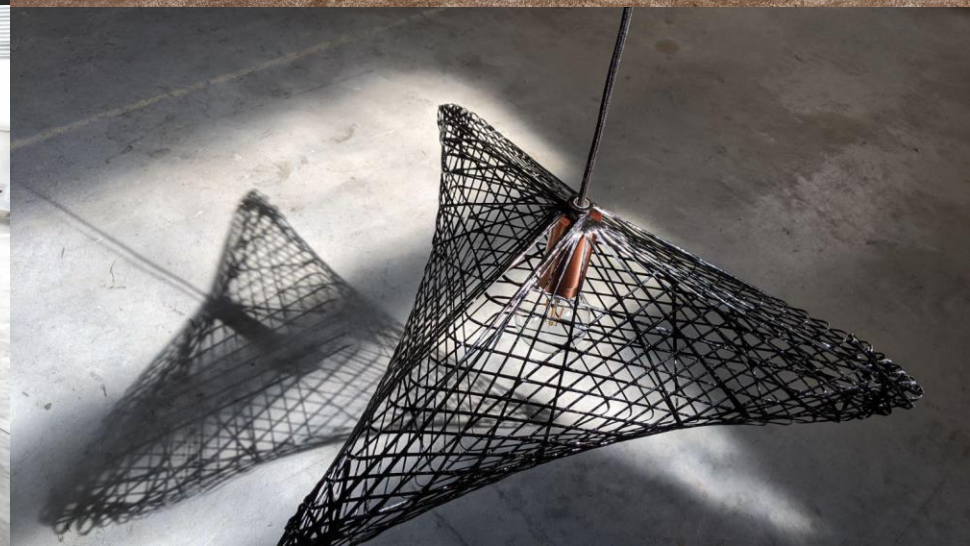
Urban Micro Climate Canopy, Frankfurt

TUM

Technische Universität München



Custom made furniture and interiors



Maison Fibre, Venice

125m² multi-storey exhibition structure | Realized 2021

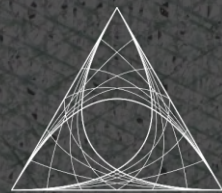
20 high performance slab elements, 10 wall elements,
installed in a historically sensitive context

FibR delivered:

- Prototype development
- Robotic fabrication
- On-site installation

Maison Fibre, Venice





FibR[®]
reinventing composites

Contact

+49 7151 1693113
info@fibr.tech
www.fibr.tech

Production Facility

Auf der Höhe 3, 71394 Kernen, Germany

Managing Director

TT.-Prof. Moritz Dörstelmann

Registration

Amtsgericht Stuttgart HRB 761335
VAT-ID: DE313158262