



LAMILUX X-TREME

TANK CLADDING FOR EXACTING REQUIREMENTS



# LAMILUX PROMISES QUALITY AND INNOVATION

LAMILUX is the leading international producer of fibre-reinforced composites and one of Europe's top daylight system manufacturers. As a medium-sized family enterprise, we are particularly proud of our capacity for technological innovation, our flexibility and our excellent working relationship with our customers. At LAMILUX, customised intelligence – “Serving the customer is our mission” means: giving our best every day to bring the greatest benefits to our customers. For us, quality isn’t just a promise, it’s reality in action.



## The LAMILUX CI Philosophy

Customer value is the reason for our existence and is the focus of our activities. This requires harmony, identity and a balance between customer value and company strategy.

These guiding ideas for our company's actions and our day-to-day relationship with our customers are described in LAMILUX's company philosophy:

### Customized Intelligence - Serving the customer is our first priority:

This requires outstanding performance and leadership in all areas relevant to customers, particularly in the role of:

- Leader in quality – for the highest customer benefit
- Leader in innovation – for always being ahead in technology
- Leader in service – for fast, straightforward, reliable and friendly communication
- Leader in expertise – for the best technical and commercial advice on the market
- Leader in problem solving – for custom made solutions

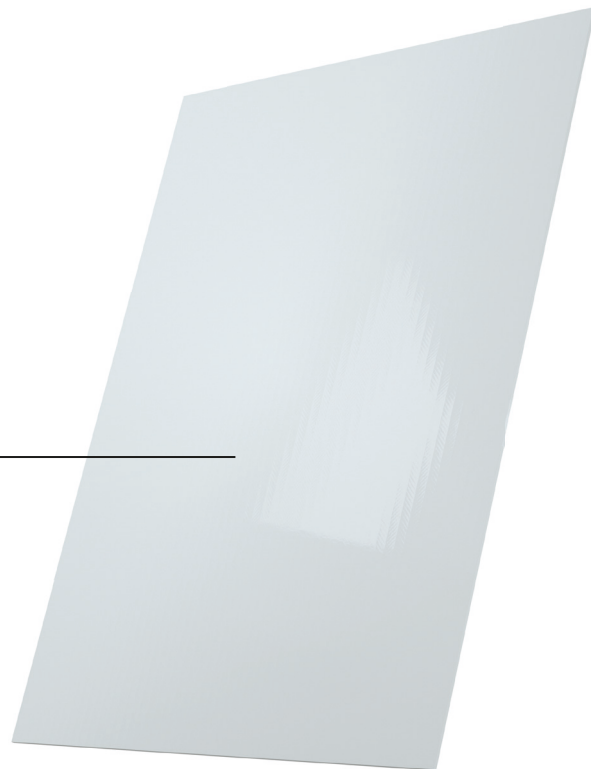


# LAMILUX X-TREME

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Robust, lightweight, attractive and unique

- Exceptionally high strength and rigidity values
- Outstanding impact resistance and damage tolerance
- Maximum potential for lightweight construction
- Extremely low thermal expansion
- Maximum resistance to UV rays and weathering
- Excellent colour consistency



Your leading advantage thanks to LAMILUX

- **Reduced maintenance and repair costs**
- **Maximised service life & less downtime**
- **High-class appearance even under the toughest conditions**
- **Reduced operating costs thanks to weight reduction**





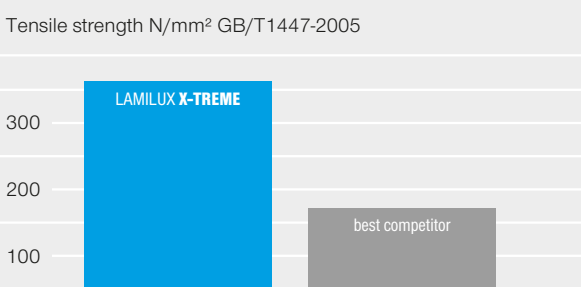
# OPTIMUM PERFORMANCE FOR YOUR SUCCESS



## Optimum strength

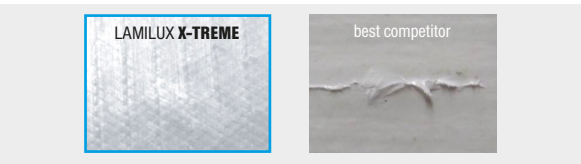
Thanks to the maximum possible content of reinforcement fibres, equal to approximately 70 % by weight, and perfect bonding with the high-strength epoxy resin matrix, enormous tensile strengths can be achieved which are more than twice that of steel.

This is why LAMILUX X-treme has three times the tensile strength of the best tank cladding material available from our competitors.



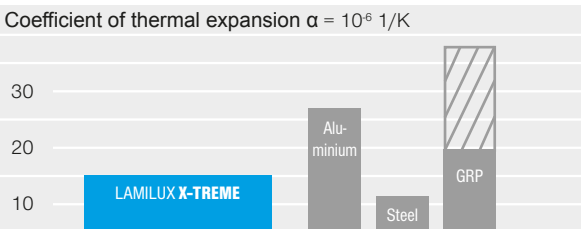
## Excellent impact resistance

The extremely resilient epoxy resin matrix and the large percentage of reinforcement fibres result in outstanding impact resistance. This prevents material damage and significantly increases the service life.



## Thermal expansion

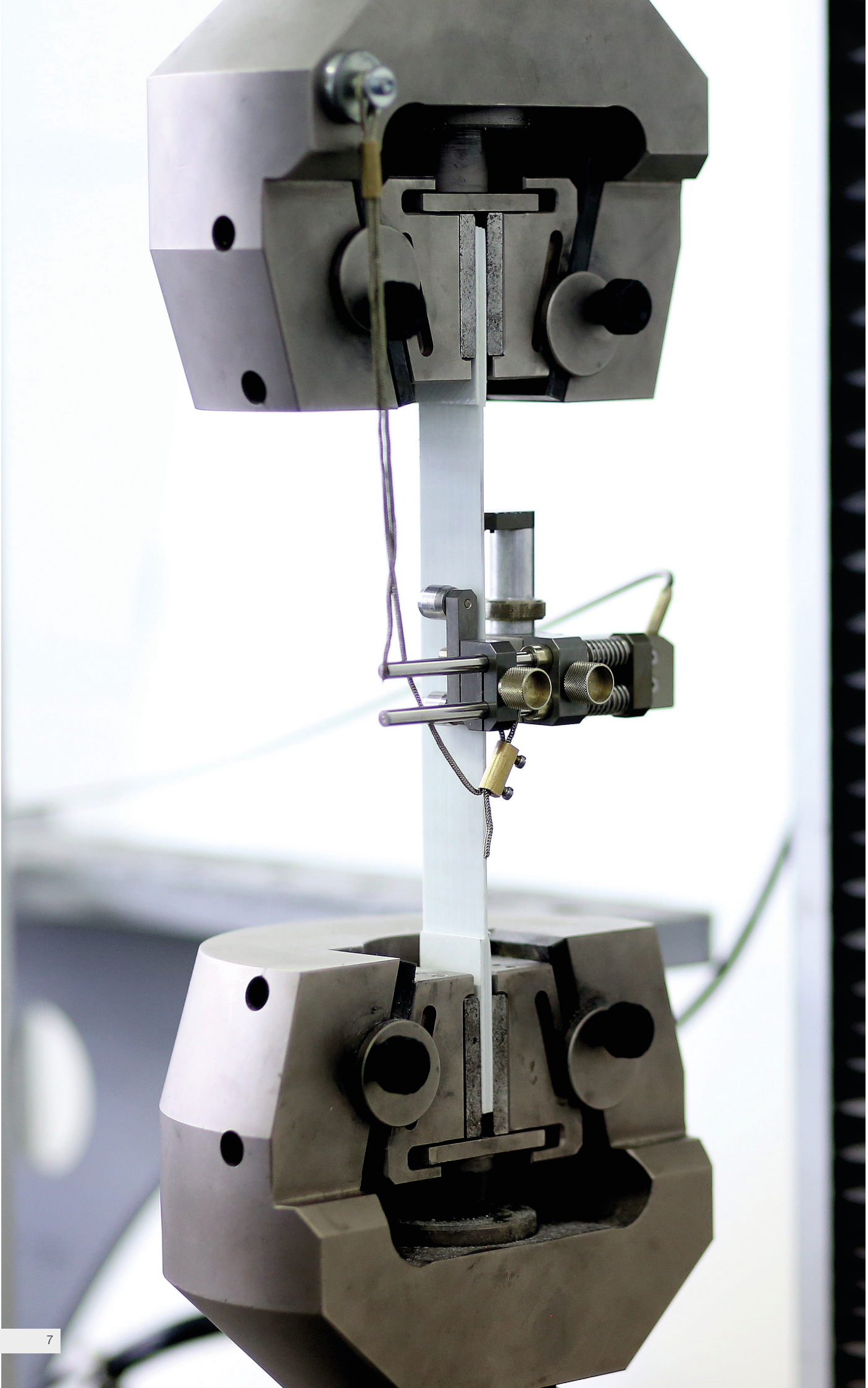
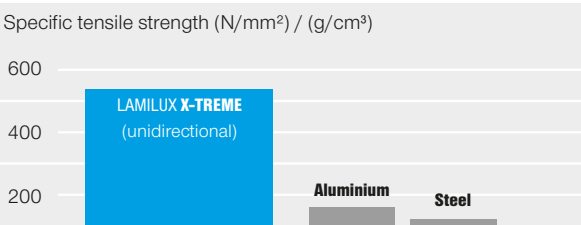
The reinforcement fibres exhibit virtually no expansion under the influence of temperature compared to matrix resins; this means that the thermal expansion can be reduced to the level of steel. Damage, such as blistering or material faults can thus be avoided.



## Extremely low weight

Thanks to the high strength of the material, its thickness can be significantly reduced and weight can be saved without any change in stability.

**LAMILUX X-TREME:** Tensile strength: 900 N/mm<sup>2</sup> | Density: 1,8 g/cm<sup>3</sup>  
**Aluminium:** Tensile strength: 300 N/mm<sup>2</sup> | Density: 2,7 g/cm<sup>3</sup>  
**Steel:** Tensile strength: 500 N/mm<sup>2</sup> | Density: 7,85 g/cm<sup>3</sup>



TENSILE STRENGTH



IMPACT RESISTANCE



RIGIDITY



THERMAL EXPANSION



LIGHTWEIGHT  
CONSTRUCTION



