



# SUPERLIGHT & STRONG

LAMILUX X-TREME

THE WORLD'S STRONGEST AND  
LIGHTEST TANK CLADDING

# 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 THE WORLD'S STRONGEST AND LIGHTEST TANK CLADDING



- 300% Stronger than 0.8 mm Steel
- 370% Stronger than 0.8 mm Aluminium
- 400% Stronger than 2.0 mm Composites

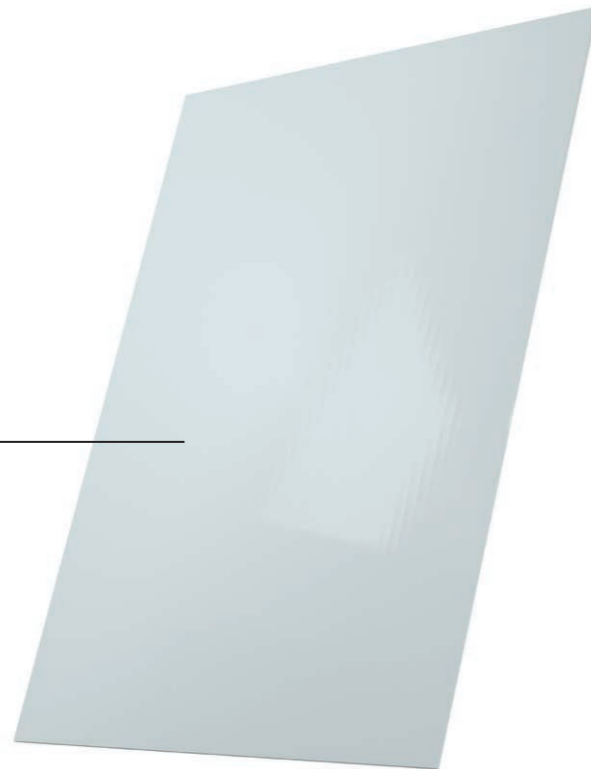


- 70% Lighter than 0.8 mm Steel
- 10% Lighter than 0.8 mm Aluminium
- 30% Lighter than 2.0 mm Composites

# LAMILUX X-TREME

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

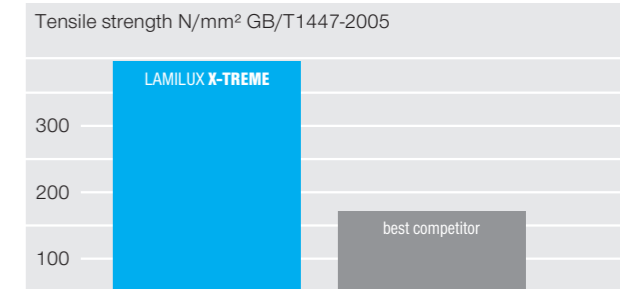
- **Reduced maintenance and repair costs**
- **Maximised service life & less downtime**
- **High-class appearance even under the toughest conditions**
- **Reduced operating costs thanks to weight reduction**



## Highest strength

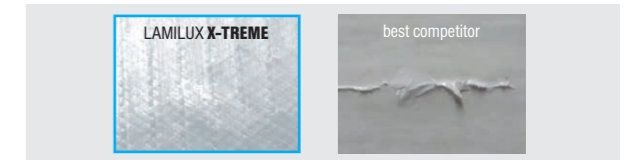
Thanks to the maximum possible content of reinforcement fibres, equal to approximately 70 % by weight, and perfect bonding with the high-strength epoxy resin matrix, enormous tensile strengths can be achieved which are higher of steel.

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



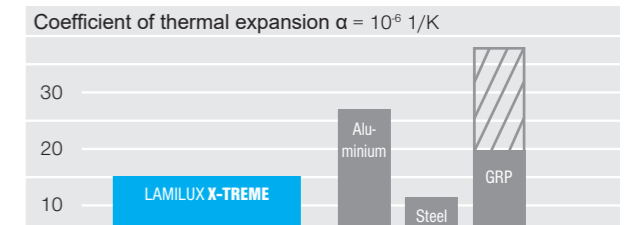
## Excellent impact resistance

The extremely resilient epoxy resin matrix and the high 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 wariness can thus be avoided.



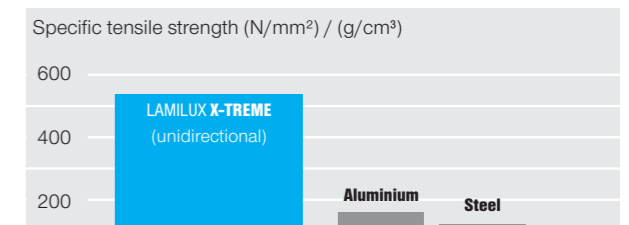
## Extremely low weight

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: up to 900 N/mm² | Density: 1,8 g/cm³

**Aluminium:** Tensile strength: 300 N/mm² | Density: 2,7 g/cm³

**Steel:** Tensile strength: 500 N/mm² | Density: 7,85 g/cm³



“Our internal test make us believe having much less repair cost and downtimes” **General Manager | Operator**

# WHAT OUR CUSTOMERS SAY



NRS

*"Our own tests confirm the technical superiority of the LAMILUX X-treme tank cladding. That is the reason why we have chosen it for future tanks."*

**Eiji Arakawa / Deputy General Manager, Purchasing**



RINNEN

*"RINNEN and LAMILUX – a strong partnership for next generation tank containers"*



BULKHAUL

*"We have been very impressed with the Lamilux X-treme in terms of its durability, finish and lightweight design making it very easy to work with and operationally it is performing as Lamilux promised."*

**Simon Farrier / Technical Fleet Manager**



CIMC

*"CIMC is supplying tanks with LAMILUX X-treme"*

**Manager Technical Department**



CARGOTAINER

*"Next Generation Containers"*  
**Matthias Fuchs / General Manager**



WELFIT ODDY

*"Welfit Oddy has carried out testing on the Lamilux X-treme and we are very impressed with the results. As a result this material has now been used on a series of new build tanks, we found it easy to apply, the final finish has a neat uniform appearance and allowed secure sealed joints."* **Timothy McLaren / Engineering Executive**



OPERATOR

*"The weight saving of about 40 Kg per tank can make a difference for us on the streets"*  
**Fleet Manager | Operator**



VM TARM



## AN OVERVIEW ABOUT OUR REFERENCES

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**CIMC**

**Welfit Oddy**

**NRS**

**CARGOTAINER**

**BULKHAUL**  
INTERNATIONAL TANK CONTAINER SERVICES

**BURGE** SERVICE

**ALFRED TALKE**  
Logistic Services

**RINNEN**  
GmbH & Co KG • Internationale Spedition

**MAINPORT TANKCONTAINER SERVICES B.V.**

Be the next to try LAMILUX X-treme –  
**THE WORLD'S STRONGEST AND  
LIGHTEST TANK CLADDING**

