P R E S S R E L E A S E

Rehau, September 2018

LAMILUX X-treme products: minimum weight, maximum strength

In the fast lane with lightweight design

Side walls, roofs and floors in commercial vehicles, caravans, buses and similar need to be extremely light, yet very stable, impact-proof and thermally resistant while also guaranteeing tensile strength and a rigid structure under heavy loads. With time-tested LAMILUX X-treme products made of carbon- or fibre-reinforced composites, this is not only possible, it's standard. This composite material also allows sports equipment such as snowboards to fulfil potential.

LAMILUX X-treme impresses thanks to excellent structural properties, extreme robustness and low weight with everything matched to the application in question. The reinforcing glass or carbon fibres in the material are positioned in a uniaxial, biaxial, triaxial or multi-directional arrangement, depending on needs. This alignment process determines how strong the material is, making it perfect for any set of requirements.

This enormous increase in strength can also ensure significant savings on material thickness. Less is truly more with LAMILUX X-treme – more lightweight to be precise. This characteristic is crucial for performance in vehicle construction and sports equipment. Everyone wants to save energy, yet no-one wants to curb their speed.

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High-strength and thermally resistant

LAMILUX X-treme and **LAMILUX X-treme Carbon** absorb any load and tension forces acting on sandwich panels when used on extensive surfaces in side walls, roofs and flooring, making the whole structure resistant to torsion. This becomes clear when the carbon-fibre-reinforced polymer is compared to other materials used as sandwich face sheets: it is up to 50 per cent lighter with a tensile strength three or four times greater than steel or aluminium.

The low thermal expansion in this composite material ensures large structural components can be produced without bubbles or distortions emerging in the long term. The low thermal conductivity in products and the consequent optimised insulation in refrigerated bodies make powerful arguments for the material's use in refrigerated trucks.

High impact resistance

However, all such properties are not of any use to the commercial vehicle industry if the material is unable to take mechanical stress loads caused by shock and impact. X-treme products not only withstand such loads, but usually resist them in a way that completely prevents major damage and downtimes due to repairs in most cases. The material even manages to endure hail storms and adverse weather conditions, making it ideal for both body interiors and exteriors.

LAMILUX fibre-reinforced composites are produced in a continuous, automated production process. The separate production lines guarantee minimum delivery

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periods while providing consistently optimum quality which can be reproduced at any time. The X-treme product range can be manufactured in widths up to three metres while the length of sheets or rolls are tailored to customer requirements.

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About LAMILUX Heinrich Strunz GmbH

Heinrich Strunz GmbH has been producing fibre-reinforced materials under the **LAMILUX** brand name for over 60 years. This medium-sized company is the market leader in Europe thanks to its large production capacity, extensive product range and technologically outstanding continuous manufacturing process. **LAMILUX** supplies customers around the globe in a wide range of sectors, such as the construction trade, the automotive and recreational vehicle industries, refrigerated store room and cell construction, and many other industrial sectors. In 2017, the **LAMILUX Heinrich Strunz Group** and its 950 employees achieved a turnover of 263 million euros. The family-managed company is based in Rehau, Bavaria.

www.lamilux.de

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