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

Rehau, Germany, September 2021

LAMILUX Composites strengthen last mile logistics

Robust Last Mile Vehicles – Safe Parcels and Goods

Ordered online today, the parcel is already on its way to the recipient tomorrow. The volume of online orders is increasing and online retail is booming like never. Transport duties are being covered by an increasing number of delivery vehicles. However, the routes to the recipients are not always pleasant. Particularly critical: the last mile to the parcel's final destination and the recipient's front door. Glass fibre-reinforced plastics (GRP) provide support during daily delivery rounds, ensuring that the goods arrive safe and sound at their destination.

It used to be unimaginable before, but today it is standard. The market share of online mail order retailers is expanding rapidly. The enormous number of daily online orders is not only therefore striking, but also the speed of delivery. This is due to the multiple deployment of delivery vehicles. However, they too must be resilient when used so frequently. LAMILUX glass fibre-reinforced plastics are suitable equipment for safe and durable delivery vehicles. Composites from LAMILUX are characterized by their ability to withstand extremely high loads. Thanks to their low weight and high stability, GRP products are perfectly suited for all areas of application, whether interior or exterior roof and wall cladding as well as for flooring.

X-treme safe journey

Wherever the most unusual addresses have to be located and houses are concealed at the end of roads which are difficult to drive on, the route can also turn into a stressful and bumpy ride. Scratching branches from chafing shrubs, stoney soil underneath the wheels – this makes it difficult for large delivery vehicles to keep to a schedule. This is why resistance to weathering, robustness and longevity play an important role in the roof and wall cladding of a last mile van. In these cases, LAMILUX X-treme provides stability, secure retention in road traffic and impact-resistant side walls for the vehicles during transport. This means that damage does not occur even on the wildest trips – neither to the vehicle nor to the parcels. The composite material is also so robust that material can actually be saved in vehicle construction. And this makes the delivery van lighter. This saves fuel and significantly reduces CO2 emissions.

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Impact-resistance for all challenges

Damage to the last mile vehicles' inner wall occurs quickly when loading and unloading parcels. The impact-resistant material LAMILUX High Impact combines outstanding impact resistance and strength and its properties protect the interior wall against scratches and cracks. The combination of a high reinforcement fibre content and a sophisticated special resin makes LAMILUX High Impact ideal for overcoming the exacting requirements of modern industrial applications – and also the final destinations of the parcels.

Slip inhibitors in the freight room

Constantly shipping parcels every day also causes wear on the load-bearing areas of the transporters. The slip inhibiting system LAMILUX Anti Slip counteracts this. The granular laminate solves three problems: Firstly, the granular, abrasion-resistant laminate prevents the parcels from slipping around and becoming unnecessarily damaged on the journey. Secondly, the surface is so resistant to abrasion that continuous loading and unloading never wears out the floor. In addition to this, it also protects against noise. The anti-slip composite material is applied as a face sheet to a sandwich construction and complies with the PIEK threshold level of 60 dB. This provides excellent protection for parcels on their way to their final destination. And if the packages are delivered early in the morning or late at night, LAMILUX composites prevent noise pollution for residents and neighbours.

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About LAMILUX Composites GmbH

LAMILUX Composites GmbH has been producing fibre-reinforced plastics for around 70 years. The medium-sized company is the leading European producer thanks to its technologically advanced continuous production process, large manufacturing capacities and wide product range. LAMILUX supplies customers around the globe in a wide range of sectors, such as the building industry, the automotive and recreational vehicle sectors, refrigerated store room and cell construction, and many other industrial sectors. In 2020, LAMILUX and its some 1,200 employees achieved a turnover of 293 million euros. The family-managed company is based in Rehau, Bavaria.

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Caption:

Thanks to their low weight and high stability, glass fibre-reinforced plastics are perfectly suited for all areas of application, such as roof and wall cladding, as well as for flooring.

In particular, its stability and long life-cycle under daily loads and the design for heavy mechanical loads make GRP the perfect material for truck bodies and delivery vehicles.

Bicycles or e-scooters are also used for delivery. How you benefit: They generate no fuel emissions, are extremely manoeuvrable and are not delayed by traffic jams.

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