



# LAMILUX HG 4000

*innovative fiberglass solutions*

## Description

LAMILUX HG 4000 is a fiberglass product based on a polyester resin system with a well-balanced glass content and a high-quality gelcoat. This quality is LAMILUX's premium quality. It has a high gloss surface with excellent fiber coverage and an excellent UV / weathering resistance. With LAMILUX HG 4000 an unmatched metallic look can be achieved.



Caravan industry - Side wall metallic color



Commercial vehicles - Side wall

## LAMILUX HG 4000 is available

- in thicknesses of 1.5 mm - 3.0 mm and in width up to 3.20 m
- up to 3.0 mm as coils, thicker as sheets
- in various colors: RAL, NCS, metallic and customized colors
- with smooth, corona treated or sanded reverse side
- other thicknesses, dimensions and colors on request

## Specific advantages

- unmatched metallic aspect
- high gloss surface with aluminum optic (very low fiber print through)
- consistently high quality thanks to continuous manufacturing process

## Application

- different exterior applications
- caravan and motorhome industry, e.g. side wall elements
- vehicle constructions

## Technical Values for LAMILUX High Gloss 4000 – 1.7 mm

Technical dates and mechanical properties LAMILUX High Gloss 4000, both sides smooth	Test method	
Thickness	Internal	1.7 mm
Weight	Internal	2340 g/m <sup>2</sup>
Glass content	Internal	20-24 %
Flexural strength	DIN EN ISO 14125	100 N/mm <sup>2</sup>
Flexural e-modulus	DIN EN ISO 14125	4000 N/mm <sup>2</sup>
Tensile strength	DIN EN ISO 527-4/2/2	55 N/mm <sup>2</sup>
Tensile e-modulus	DIN EN ISO 527-4/2/2	6000 N/mm <sup>2</sup>

Please note the following product use information:

Products manufactured by LAMILUX will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic panels may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation or lamination and original LAMILUX skid tag/ticket number removed and retained. If any portion of material will not provide an acceptable appearance, LAMILUX should be notified at once. Please report the non-conforming product utilizing the retained skid tag/ticket number. Upon verification of unacceptability, LAMILUX will replace or refund the purchase price of the non-conforming product.

### Storage requirements

Keep contents dry. Store indoors in a well ventilated area. Exposure to moisture will cause discoloration and lead to poor adhesive bonding

### Lamination

LAMILUX recommends that the moisture content of lauan substrate be not greater than 12% at the time of lamination and that the glue coverage between the LAMILUX panel and the substrate be 100% coverage at the weight and thickness recommended by the adhesive manufacturer. Prior to lamination, the frp panel must be free of dust moisture, particulates, or backside contaminates to ensure 100% bond. The quality of the substrate surface must also be free of dust or particulates prior to lamination. LAMILUX will not be responsible for any loss resulting from sub-standard lamination processes.

Testing has indicated that non-lauan substrates, such as layered paper based products, do not perform well and may cause failure between the panel and the substrate.

After lamination, the substrate must not be subjected to water intrusion or leakage as this may cause delamination and/or gel-coat blistering, which will not be covered under warranty.

### Sidewall construction without substrates

LAMILUX should be consulted before specifying and installing any substrate-free product.

### Minimum bend radius

LAMILUX recommends all radius bends be supported by a solid substrate and not exceed the maximum bend radius specified on the product technical data sheet.

### Dark colors

Dark colors, whether gel-coated or painted, will affect panel performance. Dark colored panels should be tested for performance under all appropriate conditions to make sure such colors will meet the requirements of the application. Dark colors may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, cracking, or decal failure.

### Applying decals and paint finishes

Be aware that the application of certain paint or decal film color, normally those with a darker appearance, may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination or cracking. Dark colored panels should be tested under all appropriate conditions to make sure such colors will meet the requirements of the application. The use of a heat gun to apply or remove decals is not recommended as it will cause cracking of the gel-coat finish and will void this warranty.

### Color change

All products, when exposed to weathering and sunlight, change color over time as part of the aging process.

### Staining statement

Some staining/discoloration may occur to frp liner panels after they have been in service for several years. This is a normal wear condition. As long as acceptable cleaning methods are used, the surface should remain sanitary and acceptable.

### Nonwarranty

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses that infringe on valid patents or as extending a license under valid patents.