



Applications of LAMILUXplan GRP





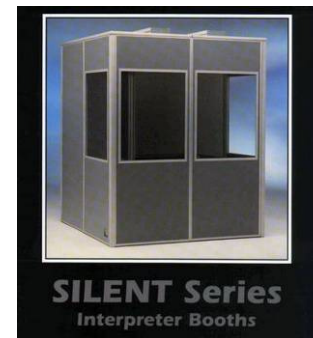
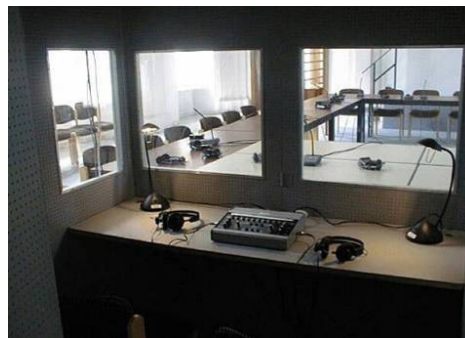
Applications in the Building Industry



Applications in Building Industry



- Mobile Homes / Cabins / Portakabin® / Control rooms
 - Product exterior: "Super plus Gelcoat, 1.5 – 2.0 mm thickness"
 - Product interior: "Super plus, 1.2 – 1.5 mm thickness"



Applications in Building Industry



- Sanitary Cabins
 - Product exterior: “Super plus Gelcoat, 1.5 – 2.0 mm thickness”





Applications in the Transportation Industry



LAMILUXplan GRP in the Transportation Industry



- Trailer: Cool-Trailer / Freezer
 - Product Outside: „Super Plus Gelcoat 1.5 – 2.0 mm thickness“
„HG 4000 Gelcoat 1.5 – 2.0 mm thickness“
„Gewebe Gelcoat 2.0 mm thickness“
 - Product Inside: „Woven Fabric 2.0 mm SH 48 % glass content“



LAMILUXplan GRP in the Transportation Industry



- Trailer: Cool-Trailer / Freezer



LAMILUXplan GRP in the Transportation Industry



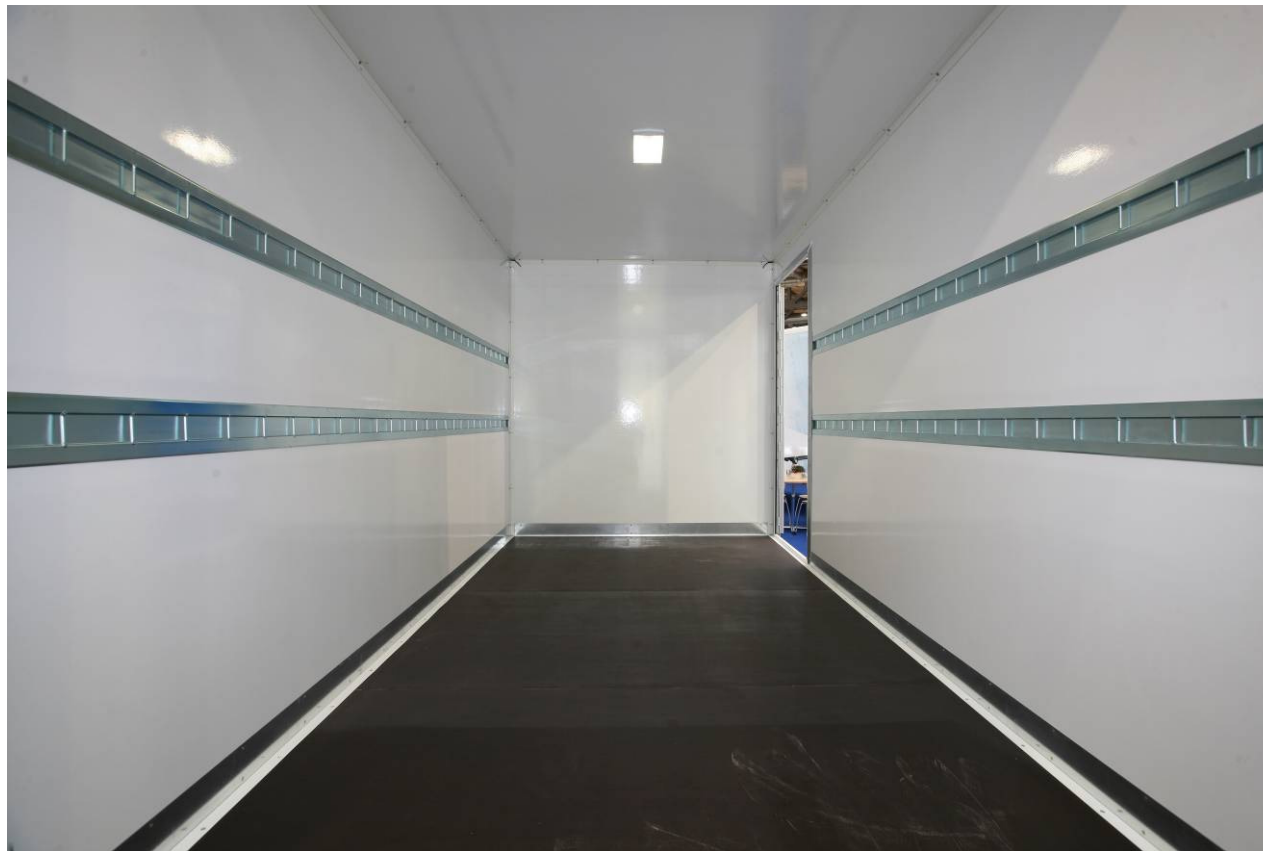
- Trailer: Cool-Trailer / Freezer



LAMILUXplan GRP in the Transportation Industry



- Trailer: Cool-Trailer / Freezer



LAMILUXplan GRP in the Transportation Industry



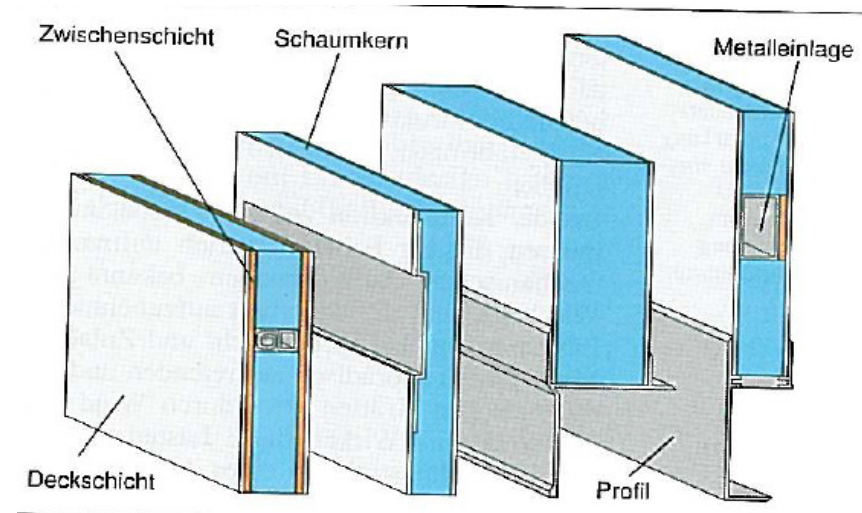
- Trailer: Cool-Trailer / Freezer
 - Product Inside: „Woven Fabric 2.0 mm SH 48 % glass content“



LAMILUXplan GRP in the Transportation Industry



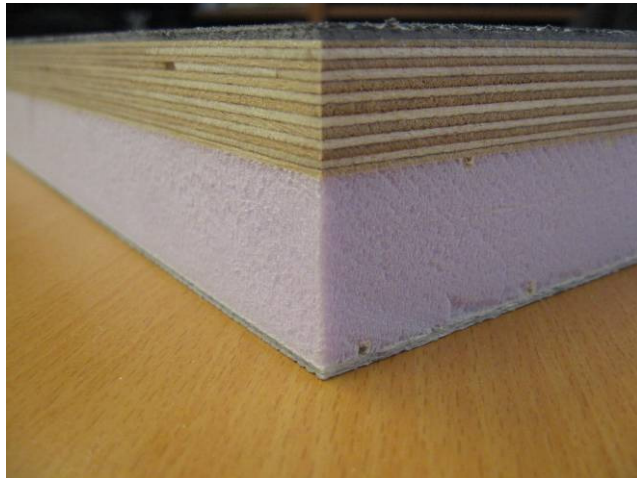
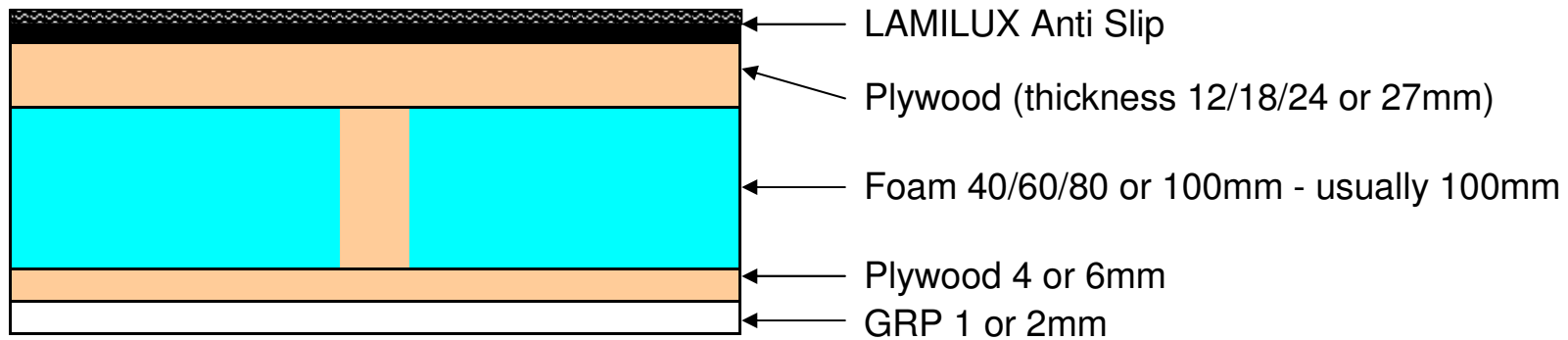
- Trailer: Cool-Trailer / Freezer



LAMILUXplan GRP in the Transportation Industry



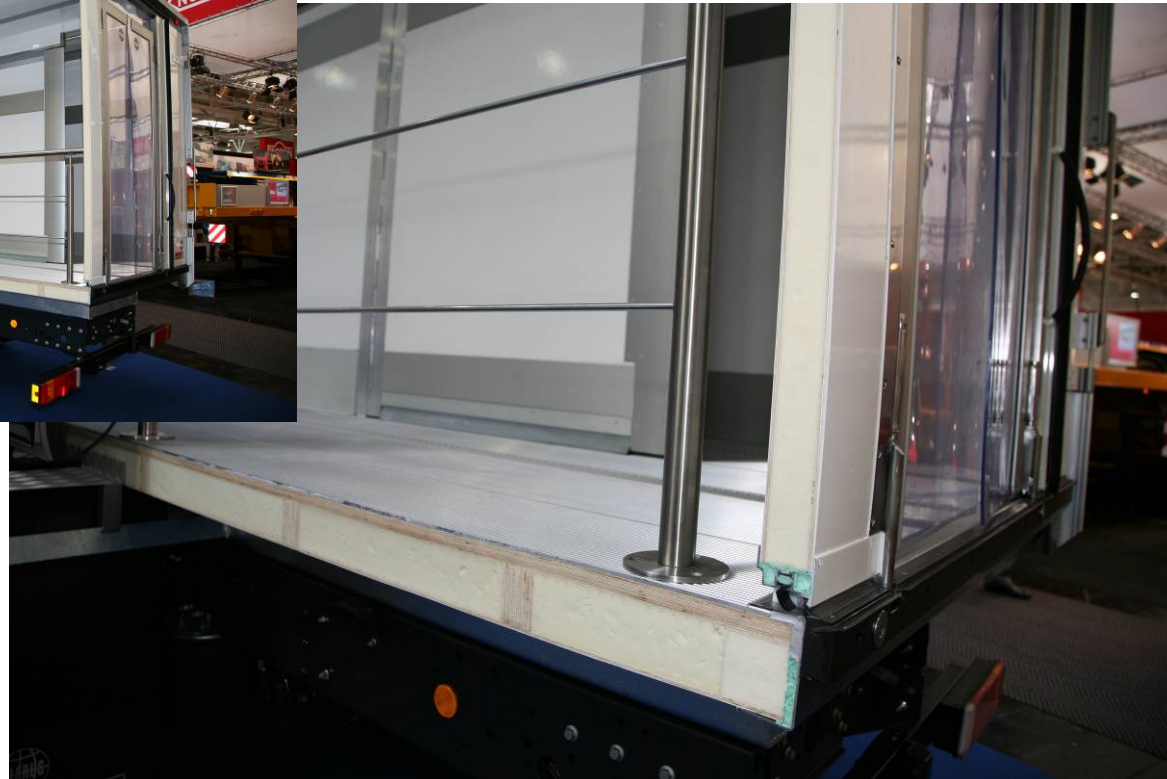
- Trailer: Example for a truck body floor with LAMILUX Anti Slip



LAMILUXplan GRP in the Transportation Industry



- Trailer: Example for a truck body floor



LAMILUXplan GRP in the Transportation Industry



- Small Trucks / Trailers
 - Product Outside and Inside: „Super Plus Gelcoat 1.2 – 1.5 mm thickness“
 - Product Inside: „Super Plus 1.2 – 1.5 mm thickness“



LAMILUXplan GRP in the Transportation Industry



- Small Trucks / Trailers





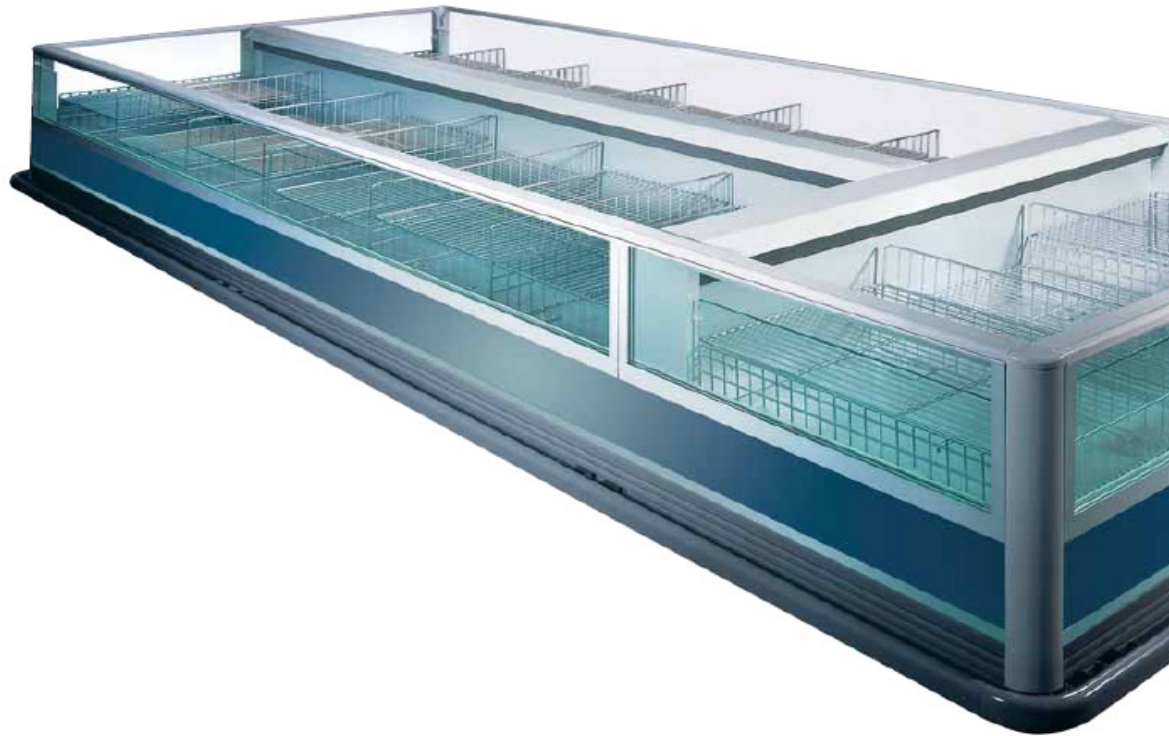
Applications in the Refrigerating Industry



LAMILUXplan GRP in the Refrigerating Industry



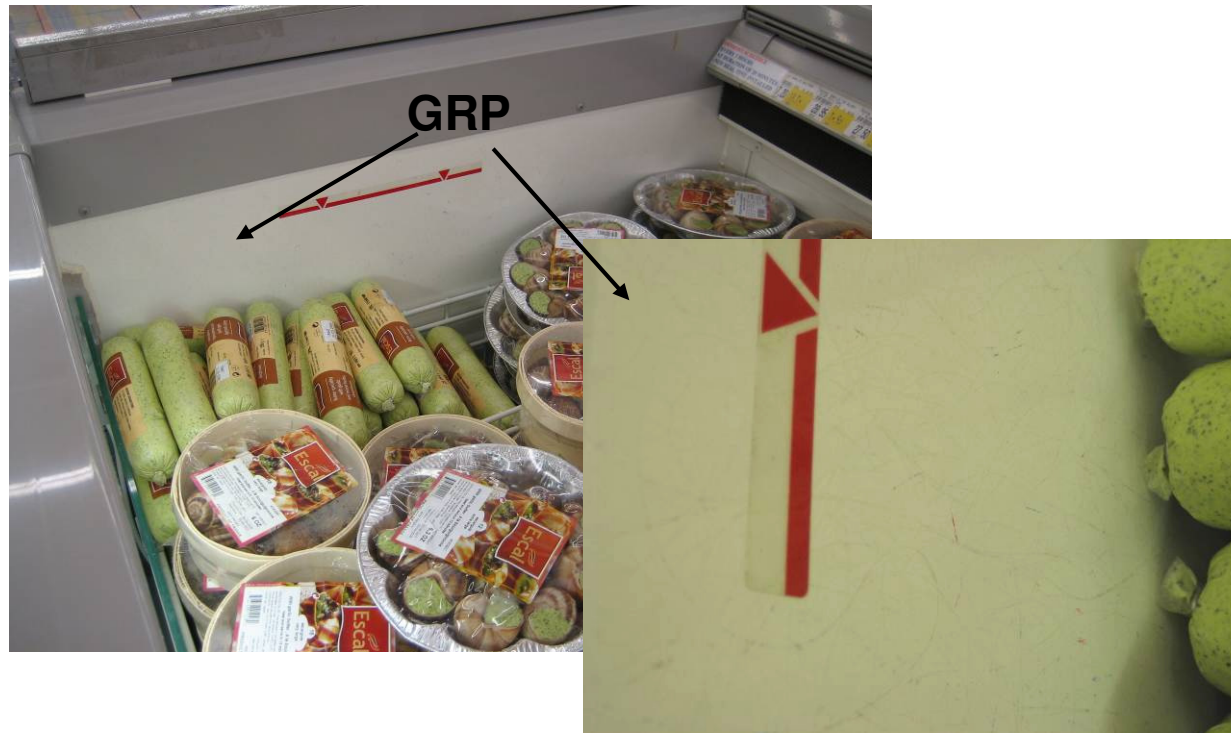
- Freezer
 - Product: “Super Plus Gelcoat, 1.2 – 2.0 mm thickness, both sides smooth”
 - Product: “Super Plus, 1.2 – 2.0 mm thickness, both sides smooth”



LAMILUXplan GRP in the Refrigerating Industry



- Freezer
 - Product: “Super Plus Gelcoat, 1.2 – 2.0 mm thickness, both sides smooth”
 - Product: “Super Plus, 1.2 – 2.0 mm thickness, both sides smooth”



LAMILUXplan GRP in the Refrigerating Industry



- Cold rooms
 - Product: “Super plus Gelcoat, 1.5 – 2.0 mm thickness, both sides smooth”
 - Product: “Gewebe Gelcoat 1,5mm thickness, both sides smooth”



LAMILUXplan GRP in the Refrigerating Industry



- Cold rooms
 - Product: “Super plus Gelcoat, 1.5 – 2.0 mm thickness, both sides smooth”
 - Product: “Gewebe Gelcoat 1,5mm thickness, both sides smooth”



LAMILUXplan GRP in the Refrigerating Industry



- Cold rooms
 - Product: “Super plus Gelcoat, 1.5 – 2.0 mm thickness, both sides smooth”
 - Product: “Gewebe Gelcoat 1,5mm thickness, both sides smooth”





Applications in the Building Industry



LAMILUXplan GRP in the Building Industry



- Façade cladding
 - Product: “Super with Gelcoat, 4 – 5 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



- Sanitary/Shower rooms
 - Product: “Super plus Gelcoat, 1.5 mm thickness, both sides smooth” and “LAMIDECOR, 1.5 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



- Continuous skylights
 - Product: “Super with Gelcoat (LB, fire retardent), 1.5 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



- Door panels (foil lamination afterwards)
 - Product: “Super plus Gelcoat SH 1.8 – 2.0 mm presanded”



LAMILUXplan GRP in the Building Industry



- Sheathing plates
 - Product: “LAMILUX VE 4.0 mm thickness” (chemical resistant product)



LAMILUXplan GRP in the Building Industry



- Door panels
 - Product: “Super plus Gelcoat, 1.5 – 2.0 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



- Trade show (walls, furniture, design elements)
 - Product: “Super plus Gelcoat, 1.5 – 2.0 mm thickness, both sides smooth”
 - Product: “High Gloss 4000, 1.7 – 2.0 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



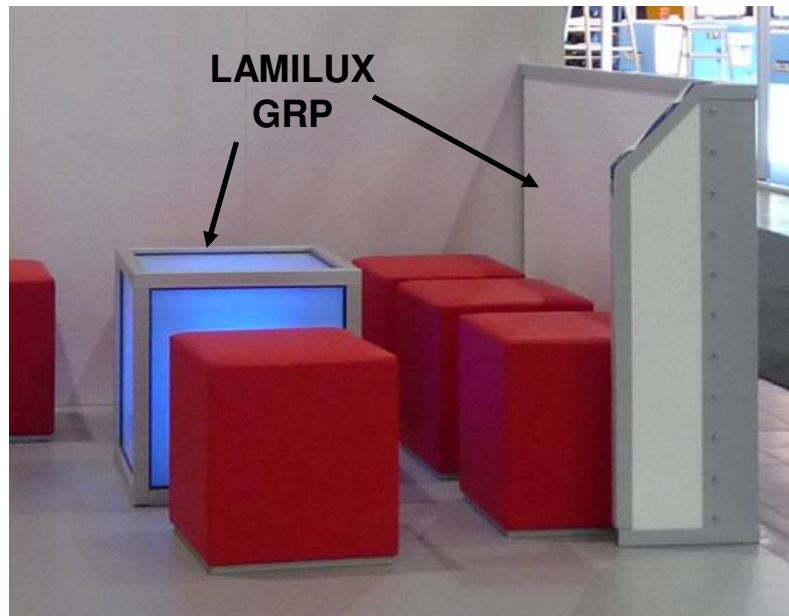
- Trade show (walls, furniture, design elements)
 - Product: “Super plus Gelcoat, 1.5 – 2.0 mm thickness, both sides smooth”
 - Product: “High Gloss 4000, 1.7 – 2.0 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



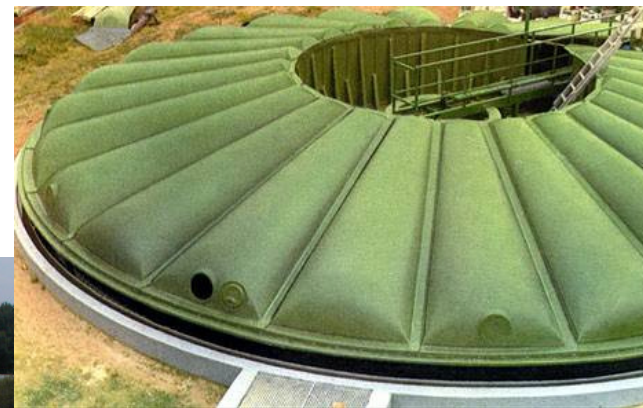
- Trade show (walls, furniture, design elements)
 - Product: “Super Gelcoat, 1.5 – 4.0 mm thickness, both sides smooth”



LAMILUXplan GRP in the Building Industry



- Clarification plant
 - Product: “Super plus Gelcoat, 2.0 – 3.0 mm thickness, both sides smooth”
 - Product: “LAMILUX VE, 2.0 – 4.0 mm thickness, both sides smooth”

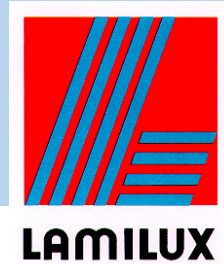




Applications in the Caravan- and Mobile Home Industry



Applications in the Caravan- and Mobile Home Industry



Applications in the Caravan- and Mobile Home Industry



- Sidewalls
 - Product: “L1000 or L1000E, 1.0 – 1.7 mm thickness, both sides smooth”



Applications in the Caravan- and Mobile Home Industry



- Sidewall “High Gloss”
 - Product: “HG 4000, 1.5 – 2.0 mm thickness, both sides smooth”



Applications in the Caravan- and Mobile Home Industry



- Roof
 - Product: “L 500 flex or L 1500 flex, 1.0 mm thickness, both sides smooth”



Applications in the Caravan- and Mobile Home Industry



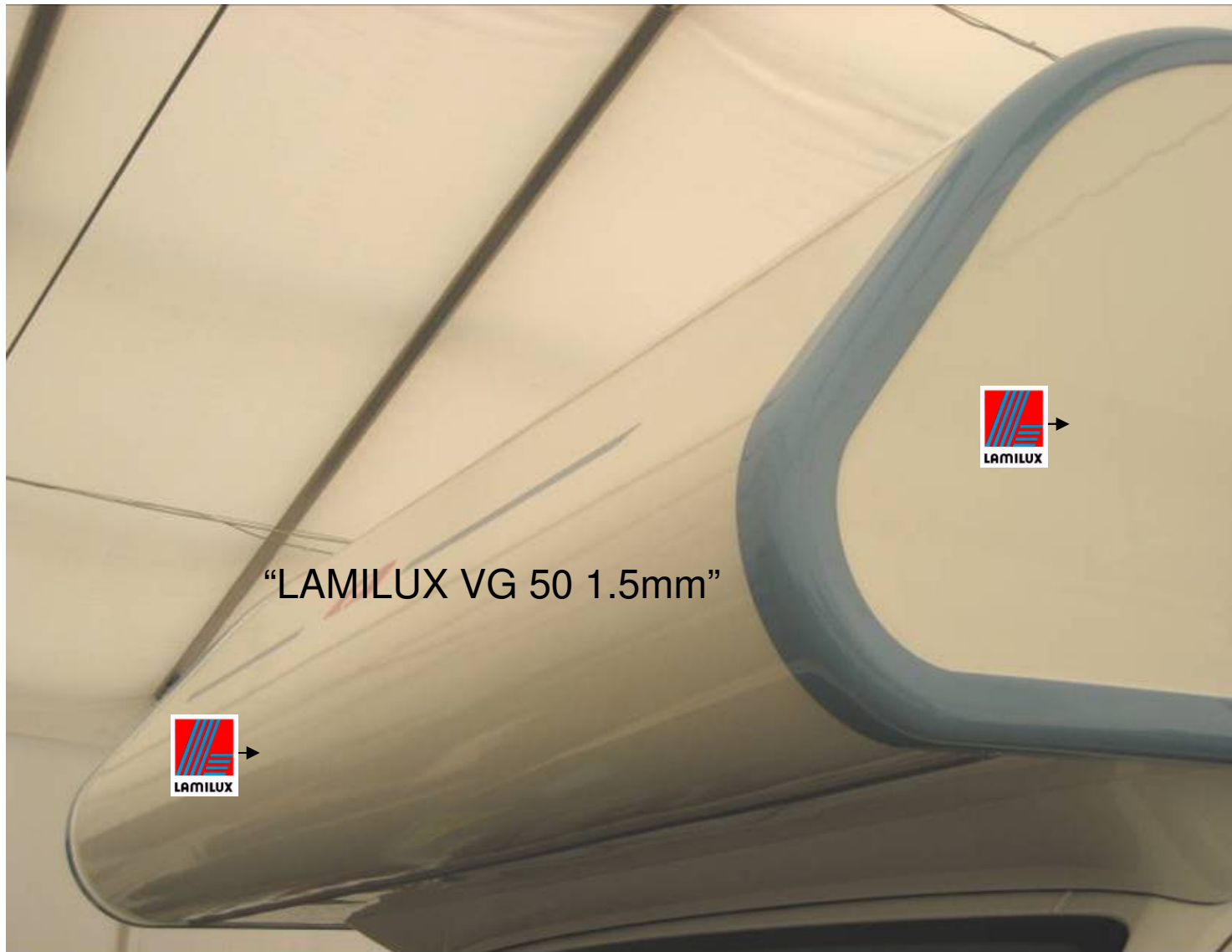
- Roof “High Gloss”
 - Product: “High Gloss 4000 Woven Fabric flex, 1.5 mm thickness, both sides smooth”



“LAMILUX High Gloss
4000 1.7 mm metallic”









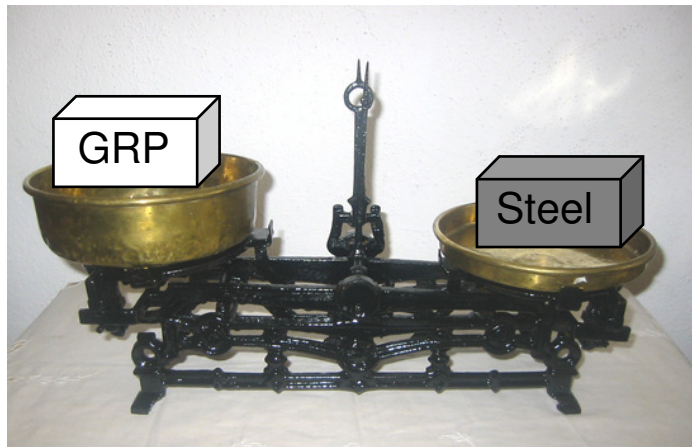
“LAMILUX High Gloss 4000 Woven Fabric flex 1.5 mm”



Advantages of LAMILUXplan GRP



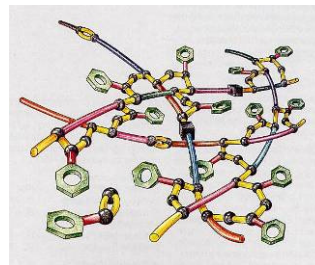
- Advantages of GRP in the building industry
 - Weathering resistance, especially against hail
 - Corrosion resistance (no rust or pitting like in aluminum)
 - High UV-stability
 - High strength at low weight (density about 1,35 - 1,4 g/cm³)



Advantages of LAMILUXplan GRP



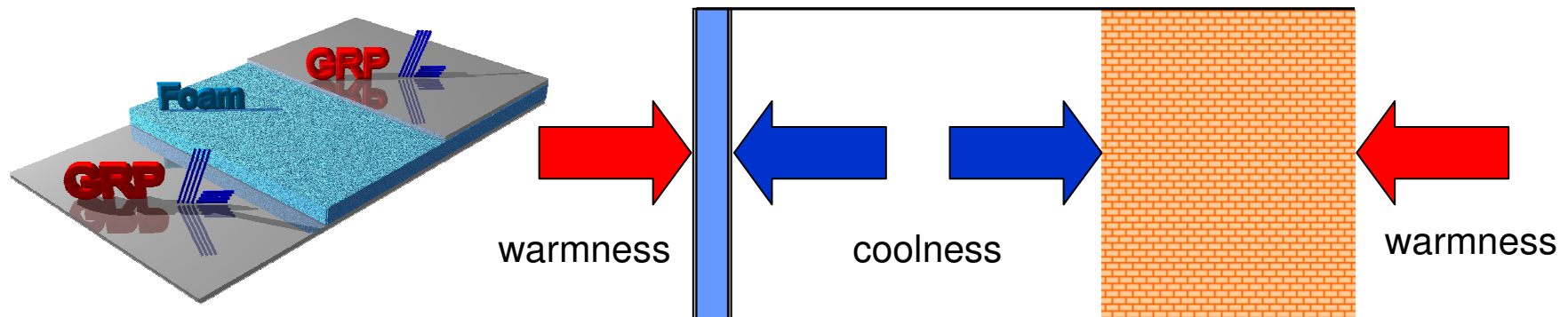
- Advantages of GRP in the building industry
 - Unlimited Colouring possibilities
(RAL, NCS, Translucent, Customized,...)
 - High gloss and colour durability
 - High chemical resistance (especially product range LAMILUX VE)
 - Easy to handle in the process (sawing, drilling, jet cutting,...)
 - Compared to the sharpness of the edges of steel sheets the risk of injury (cutting) is with GRP lower



Advantages of LAMILUXplan GRP



- Advantages of GRP in the building industry
 - No breaks or buckling while processing
 - High chunking resistance of connecting elements like screws and rivets
 - Much better thermal insulation than steel or aluminum
 - Furthermore the combination of GRP and Polyurethan- or Styrofoam to a Sandwich-panel will decrease the heat conductivity (depending on the thickness of the foam) to a minimum



Same Insulating Effect!

Advantages of LAMILUXplan GRP



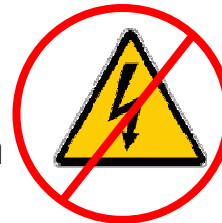
- Advantages of GRP in the building industry
 - Nonporous surface
 - Insensitive to scratches (solid coloured)
 - GRP transfers forces only remote
 - In case of an small accident merely a slight part around the force transmission point has been damaged
 - Repairing possibilities of damages and scratches



Advantages of LAMILUXplan GRP



- Advantages of GRP in the building industry
 - Low thermal expansion (approx. $35 \cdot 10^{-6} \text{ 1/K}$)
 - Thermal resistance
 - from $-30 \text{ }^{\circ}\text{C}$ up to $+80 \text{ }^{\circ}\text{C}$
 - Electrically insulating
 - spec. contact resistance $10^{15} - 10^{16} \Omega \cdot \text{cm}$
 - Waterproof
 - Marginal water absorption
 - $< 1 \%$
 - Easy to maintain and to clean



Advantages of LAMILUXplan GRP



- Advantages of GRP in the building industry
 - Available in coils and sheets:
 - up to 3,20m width
 - thickness from 0.8 to 5.0 mm
 - coil length up to 200m (thickness $\leq 2.0\text{mm}$)
 - Consistent quality through continuous production process

