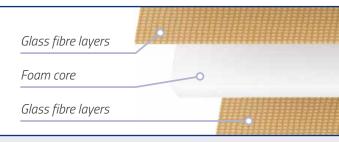


# Flexible, adaptable and individual. READY FOR RAIL.

Composite panel for rail and road transportation

Application area: Areas subject to high loads, e.g. floor area

Lay-up thickness: 11.8 mm



















strength

lightweight

environment

serviceability

integration

customization

3D

stiffness

# Technical Data

#### MATERIAL



layers glass fibre and phenol-formaldehyde



core material structural foam

### **DIMENSIONS**



surface weight (semi-finished sandwich) 5.4 kg/m²



thickness 11.8 mm



length & width
Standard:
2810 mm x 1860 mm
Arbitrarily expandable

### **TEMPERATURE**



fire & smoke, HL2 FST according to DIN EN 45545-2



operating temperature -25 − +55 °C



temperature resistence -35 - +70 °C



Thermal expansion coefficient

50 E-06 K<sup>-1</sup> at +20 to +50°C 34 E-06 K<sup>-1</sup> at -20 to +20°C

# MECHANICAL & PHYSICAL PROPERTIES



thermal insulation 4.2 W/(m<sup>2</sup>K)



drum peel strength

1.4 N/mm according to
DIN EN 2243-3



acoustic damping 29.1 dB according to DIN EN ISO 10140-2



identation (Ø 6 mm) 750 N



support distance for L/300

# SPECIAL FEATURES



product lifetime

32 years at 20 million load cycles



certifications DIN EN 9100



design elements

selective and area reinforcement, edge protection, floating inserts, panel connection elements, heatable

# www.efw.aero

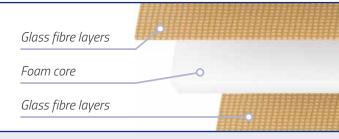


# Flexible, adaptable and individual. READY FOR RAIL.

Composite panel for rail and road transportation

Application area: Areas subject to high loads, e.g. floor area

Lay-up thickness: 18 mm











environment



serviceability



integration



customization





stiffness

**SPECIAL** 

**FEATURES** 

product lifetime

32 years

at 20 million load cycles

# Technical Data

#### MATERIAL



lavers glass fibre and phenol-formaldehyde



core material structural foam

### **DIMENSIONS**



surface weight (semi-finished sandwich)

5.7 kg/m<sup>2</sup>



thickness 18 mm



length & width Standard: 2900 mm x 1870 mm Arbitrarily expandable

### **TEMPERATURE**



fire & smoke, HL2 FST according to DIN EN 45545-2



operating temperature -25 - +55 °C



temperature resistence -35 - +70 °C



Thermal expansion coefficient

50 E-06 K<sup>-1</sup> at +20 to +50°C 34 E-06 K-1 at -20 to +20°C

## MECHANICAL & PHYSICAL PROPERTIES



thermal insulation 2.4 W/(m<sup>2</sup>K)



drum peel strength 2.4 N/mm according to DIN EN 2243-3





identation (Ø 8 mm)



certifications DIN EN 9100 750 N

\* safety factor



design elements

selective and area reinforcement, edge protection, floating inserts, panel connection elements, heatable

# support distance for L/300



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