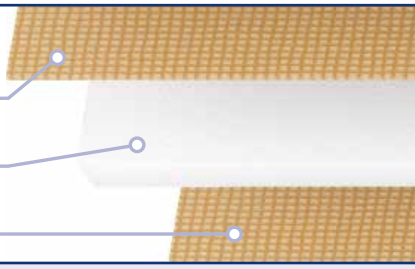
EFW COMPOSITE SOLUTIONS
A company of ST Engineering and Airbus

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^{-1}
at +20 to +50°C
34 E-06 K^{-1}
at -20 to +20°C

MECHANICAL & PHYSICAL PROPERTIES

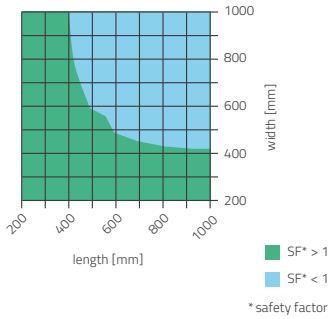
thermal insulation
4.2 W/(m²K)

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
550 mm



SPECIAL FEATURES

product lifetime
32 years at 20 million load cycles

certifications
DIN EN 9100
DIN 6701

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

www.efw.aero

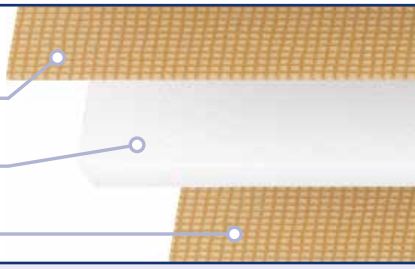
EFW COMPOSITE SOLUTIONS
A company of ST Engineering and Airbus

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



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)
5.7 kg/m²

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^{-1}
at +20 to +50 °C
34 E-06 K^{-1}
at –20 to +20 °C

MECHANICAL & PHYSICAL PROPERTIES

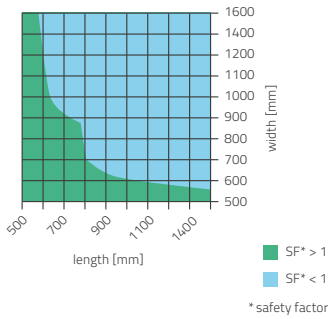
thermal insulation
2.4 W/(m²K)

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

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

identation (Ø 8 mm)
750 N

support distance for L/300
750 mm



SPECIAL FEATURES

product lifetime
32 years
at 20 million load cycles

certifications
DIN EN 9100
DIN 6701

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

www.efw.aero