



Mobility

COMFLOOR® Basic



Innovative, lighter and
cost-optimized floor system





Overview

Our new and innovative 3A Composites Mobility solution -**COMFLOOR® Basic**- provides a lighter, cost-optimized floor system designed for ease of installation and it is ideal for light rail, subway, high speed rail and all other types of rolling stock.

The weight reduction is achieved through the intelligent integration of leading edge materials into the sandwich construction with skins made of Aluminum and/or GRP.

This new and easily recyclable material mix is based on aluminum and polymeric materials and expands our product portfolio with a cost-effective and environmentally-friendly product. Compared to traditional floors, our system is lighter, more durable, stiffer, more resistant to moisture and easier to install. **COMFLOOR® Basic** has been carefully designed with the environment in mind, and as well as being recyclable, no hazardous materials are used within the manufacturing process.

This new floor system is maintenance-free providing reliable and exceptional performance over a service life of at least 30 years.

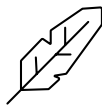
Our solution is therefore the better alternative when it comes to sustainable floor systems for new vehicles or the overhaul of existing rolling stock.

Product comparison

Technical data	COMFLOOR® Basic	Wooden floor Standard
Material	AL or GRP Sandwich with foam core	Plywood / laminated wood
Weight compared the same floor-stiffness (example: 23 mm.)	9.8 kg/m ²	13.8 kg/m ²
Thickness tolerance	+/- 0.2 mm	+/- 1.0 mm
Water absorption	< 0.1 %	8 - 12 %
Thermal conductivity (λ)	0.034 W/mK	0.161 W/mK
Acoustic insulation	27 dB	25 dB
Fire protection class EN 45545-2 (R10)	HL3	HL2
Available thickness	starting from 10 mm	11 / 16 / 21 mm
Total cost installed Floor-Set (TCO)	80 %	100 %



Function overview



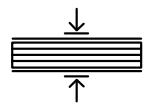
Lightweight construction



Cost saving



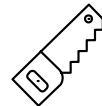
Sandwich technology



Optimized thickness



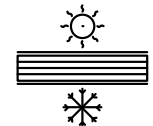
Fire protection



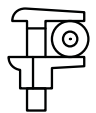
Easy machining



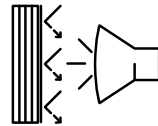
Water resistant



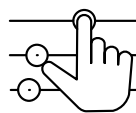
Thermal insulation



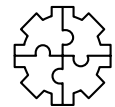
Tolerance



Acoustic insulation



Customization



Easy installation



Wood free



Fungal resistant
EN 15534



Phenolic resin free



Termite resistant
EN 117



Sustainable materials



Recyclable



TSI LOC&PAS
DIN EN 12663
GMRT 2100



REACH regulation
UNIFE
EN 45545 / DIN 6701



Mobility

3A Composites Mobility AG
Park Altenrhein
CH-9423 Altenrhein
Switzerland
+41 71 858 48 48

3A Composites Mobility S.A.
Inwestorów 6
39-300 Mielec
Poland
+48 17 773 78 00

www.3acompositesmobility.com