



# AeroFLAX

Cabin interior made  
from renewable material

Aircraft operators are constantly looking for ways to make flying more sustainable. Lufthansa Technik has developed an airworthy composite solution that is based on renewable materials. Thanks to ampliTex™ flax fabrics this composite technology can replace certain interior parts allowing companies to save weight, fuel and improve their eco footprint.

Whether in politics, the economy or in the private sphere, the pressure towards sustainable aviation is increasing through society and legislation. New eco-efficient aircraft types will only come into market in a decade. The development of sustainable cabin concepts is another hurdle for the aviation industry to take by closing the technology gap to become CO<sub>2</sub> neutral.

With AeroFLAX, Lufthansa Technik is paving the way to a more environmental-friendly aircraft interior. By offering eco-efficient materials for cabin interior, additional weight and CO<sub>2</sub> savings can be achieved and sustainability becomes perceivable on board.

## Benefits

Flax fibers and a bio based resin system allows for revolutionary lightweight component designs

Improve eco footprint through bio based materials

Unique combination of natural fibers and bio based resin system

Weight and CO<sub>2</sub> saving potential thanks to renewable flax fibers and their unique material properties

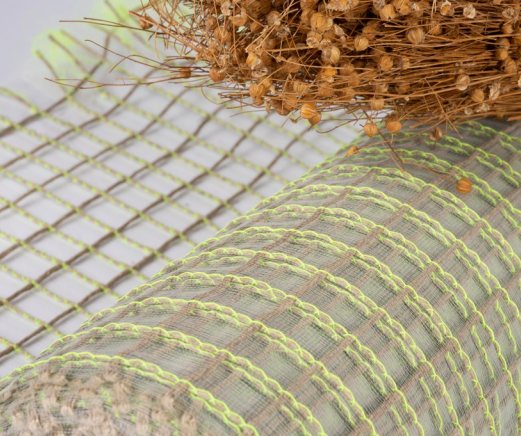
Innovative fiber and resin treatment to achieve FAR25.853 requirements



In cooperation with



**Lufthansa Technik**



#### Dry powerRibs™

Combining the powerRibs™ with ampliTex™ flax fibre reinforcements allows natural fibre composites to outperform any standard engineering materials for thin-walled shell structures.

#### B-Side

Ribbed B-side boosting flexural stiffness, analogous to veins on leaves.

#### A-side ampliTex™ reinforcement

Compatible with standard manufacturing techniques.



Save up to 20 % weight through flax optimized design



Improve eco footprint through bio based materials



Additional CO<sub>2</sub> e savings over the entire component lifecycle



#### Application Areas for AeroFLAX

Sidewall panel

Ceiling panel

Door frame lining

Lavatory shroud

#### Contact

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