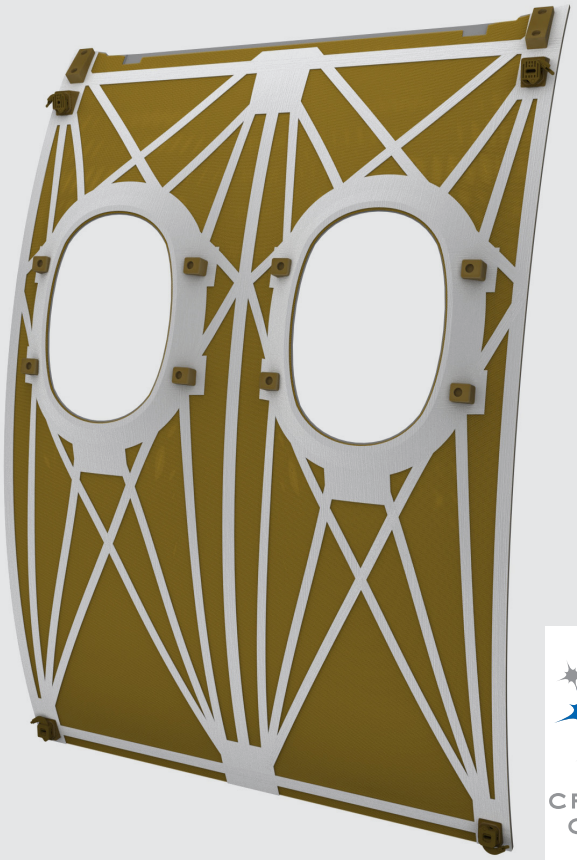
DIEHL
Aviation

ECO SIDEWALL

DEMONSTRATION OF INNOVATIVE SIDEWALL TOPICS



CRYSTAL CABIN AWARD®
Winner 2024

SUSTAINABLE FEATURES

WEIGHT SAVING
CO_2 SAVING
WASTE REDUCTION
BIO-BASED MATERIAL

CHARACTERISTICS

The *ECO* Sidewall is the most eco-efficient, innovative sidewall concept. The *ECO* Sidewall is the first key element in applying new technologies to other products, paving the way for a whole new generation of eco-friendly cabin designs. By creating a sustainable cabin platform, Diehl Aviation enables the possibility of customized products and supports its customers in achieving their individual sustainability goals.

Diehl Aviation aims to contribute to the industry's goal of achieving net-zero aviation by utilizing lightweight, recycled, or bio-based materials to optimize resource consumption and reduce CO_2 emissions. These initiatives are at the core of the ECO efficiency product range.

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BENEFITS

- Reduced kerosene consumption due to lightweight design
- Reduces the number of CO_2-certificates required in the future
- Fair cost-benefit-ratio
- Eco-image for the airline
- Perfect fit to current cabin interior and industrial design
- Possibility to add an *ECO* icon on the decor
- Sustainable cabin platform enables the possibility to customize the *ECO* Sidewall to meet individual sustainability goals (e.g. lightweight, recyclable...)

SUSTAINABLE FEATURES*


WEIGHT SAVING

The *ECO* Sidewall saves 10 % weight through lightweight materials and design.


CO_2 SAVING

The carbon footprint in production is reduced by 19%, and the carbon footprint during operation is also reduced through weight savings.**


WASTE REDUCTION

Prepreg trim waste is reduced by 33% using new technologies and avoiding unnecessary material usage.


BIO-BASED MATERIAL

The *ECO* Sidewall uses 9% bio-based materials in order to lower the use of fossil resources.

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*More Infos about the Sustainability Features you can find here:
https://www.diehl.com/aviation-highlights/en/eco-efficiency/

** estimated for a current generation single aisle aircraft e.g. A321, operating on medium range missions, e.g. Paris-Istanbul, with an average operating hours of 3600 per year