

**ECO POWDER
COATING**
VISUAL OPEN SPACES

SUSTAINABLE FEATURES



WEIGHT
SAVING



CO₂
SAVING



WASTE
REDUCTION

CHARACTERISTICS

ECO Powder Coating offers an eco-efficient, lightweight decor solution. The unicolored application of powder coat provides highly durable cabin surfaces and enables the realization of future digital printing options. A neutral cabin is the perfect match for multiple light scenarios and fast changes of brand settings for an airline or leasing company.

BENEFITS

- High surface quality
- Weight reduction compared to current décor solutions
- Robust surface finish
- Eco efficiency
- Enhanced repairability
- Optimal basis for digital cabin branding

SUSTAINABLE FEATURES*



WEIGHT
SAVING

With a 30% smaller surface weight of powder coating compared to décor foil, approximately 3.8 kg (8,4 lbs) can be saved for sidewall panels per single-aisle shipset.



CO₂
SAVING

Due to the weight saving we can estimate a fuel saving of 500 kg per aircraft per year. This fuel saving can be converted into a saving of 1.6 tons CO₂ emissions per aircraft per year.**



WASTE
REDUCTION

Comparing a sidewall with décor foil and a sidewall with powder coating, 80% waste can be saved due to the more efficient processes possible with powder coating.

According to the example calculation: When applying sidewalls with décor foils, a considerable part of the décor foil sheet is waste. For one shipset of sidewall panels, this generates approximately 10 kg (22 lbs) of waste in production. With the more efficient powder coating process, an overspray of approximately 20% can be achieved. This will only generate approximately 2 kg (4 lbs) of waste in production.

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 CO₂ emissions. These initiatives are at the core of the ECO efficiency product range.

*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 average operating hours of 3600 per year