

ECO PARTICLE FOAM AIR OUTLETS

DIEHL
Aviation

SUSTAINABLE FEATURES



WEIGHT
SAVING



CO₂
SAVING



RECYCLABLE
MATERIAL

**Climbing higher.
Together.**

CHARACTERISTICS

As the market leader in air distribution in aircraft cabins we are constantly expanding our product portfolio. The combination of innovative materials and a special joining method developed by Diehl Aviation guarantees a new level of efficiency and weight reduction and knows no equal on the current market. Air outlets made of granulated foam plastic offer many benefits in lightweight construction and in manufacturing processes. As soon as all testing for this new and automated technology has been completed, our customers will be able to profit from its benefits. The technologies not only make faster customization processes, lower cost, and weight reduction possible, it is above all ecologically efficient.

BENEFITS

- Weight reduction
- Reduced CO₂ in manufacturing
- Reduced fuel consumption due to lower weight
- Very fast manufacturing
- Lower manufacturing cost
- Improved recycling through the use of thermoplastic material

SUSTAINABLE FEATURES*



WEIGHT
SAVING

Compared to the state-of-the-art sandwich technology for air outlets the particle foam outlets are approximately 30% lighter. this adds up to a weight saving of 9,7kg per single aisle aircraft.



CO₂
SAVING

Due to the weight saving we can estimate a fuel saving of 1,3 kg per aircraft per year. his fuel saving can be converted into a saving of 4,0 tons CO₂ emission per aircraft per year.**



RECYCLABLE
MATERIAL

The innovativ air outlets produced from particle foam material are easily recyclable as they are designed as nearly mono-material parts. the material itself is a thermoplastic material that can be granulated an then reused.

*More Infos about the Sustainability Features you can find here:
<https://www.highlights-diehlaviation.com/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