

# CradleSox®

CERTIFIED AIR DISTRIBUTION ACCORDING  
TO CRADLE TO CRADLE STANDARD

**CradleSox®**  
Cradle to Cradle textile ducting





## Who we are

Euro Air is originally a Danish manufacturer of textile air distribution ducts. The company was founded in 1991 and since 2007 has been a member of the KE Fibertec Group, one of the world's largest manufacturers of textile ducting.

The textile ducts from Euro Air are manufactured at our production sites in Vejen, Denmark and Varnsdorf, Czech Republic.

Euro Air is using tested and approved materials in accordance with a number of globally recognised standards and certifications. In addition, as a member of the KE Fibertec Group, we also are the only manufacturer of textile air distribution systems worldwide with own weaving mill. The KE Fibertec Væveri A/S weaving mill focuses all its activities only on the production of fabrics for air distribution, so we can guarantee you the best materials.

Euro Air's air distribution systems are primarily based on rational thinking and with the aim of providing you with a product that is exactly to your specifications, safe and reliable. We want to offer technologies that make sense above all from a long-term and sustainable point of view.





## Why choose textile ducts?

- Ensure even air distribution without drafts and dead zones.
- Personalisation of the design of the duct with colour options according to architectural requirements.
- The possibility of printing a custom logo.
- Low cost of transportation because of the light weight of the textile.
- Installation is very quick and easy.
- The transport of the ducts is space-saving because they are packed in cardboard boxes.
- Due to the permeability of the materials, condensation does not occur.
- The ducts are also suitable for areas where conventional steel ducting is not appropriate.
- The installation time is up to 70% shorter than with conventional steel ducting.
- Textiles are free from corrosion.
- The ducts help to filter the supply air and can easily be washed if it is needed.
- If the maintenance has to be realized in the area below the ventilation, the ducting can also be easily moved to the side.



# Cradle to Cradle

The concept was founded by William McDonough and Dr. Michal Braungart, who also established in 2010 the Cradle to Cradle Products Innovation Institute. It is a non-profit organization with a global reach that focuses on health and sustainability of products.

## The concept of circular economy

The idea of Cradle to Cradle is deeply connected with the concept of circular economy. The circular economy contrasts with the linear economy, where resources are at the beginning of the cycle and then converted into products, which are then thrown away at the end of their life. The circular economy is based on linking these two imaginary ends, creating a cycle and aiming to reduce the waste of limited natural resources.

The Cradle to Cradle Products Innovation Institute certifies products that have fulfilled its strict criteria. This certification then provides designers and engineers around the world with a standard by which they can recognise products created in line with the idea of a circular economy.

Products certified by Cradle to Cradle are responsible purchases that have a positive impact on everyone on the planet as well as the environment.

## Certification levels

The certification divides products into a total of five award categories - basic, bronze, silver, gold and platinum. The final certification level is then based on the lowest score achieved in the all the criteria.

The criteria relate mainly to environmental and social issues. In addition, as a condition for certification, all suppliers of components for the final product also have to meet these criteria.

## Rated criteria for certification:

- Material composition and chemical ingredients.  
The chemicals must not be toxic to humans or the environment.
- The reuse of materials at the end of the product's life cycle, thus ensuring a circular economy.
- Maximum renewable resources in production and efforts to eliminate the produced emissions of gases.
- Water management and protection of water resources from contamination.
- Social responsibility within the production.







## CradleSox®

### Cradle to Cradle certified textile ducting

Despite the fact that the choice of fabric ducting itself is a much more sustainable air distribution solution compared to traditional steel ducting, Euro Air's ducting can be furthermore certified by Cradle to Cradle standard and become the most sustainable air distribution solution.

The process of developing the CradleSox® was extremely time-consuming, but extremely important, as at the end of the process stands a product that is sustainable in the long term and will also distribute fresh air to all kinds of spaces - from offices, schools, laboratories to other public spaces and areas with high comfort requirements.

Thanks to the increasing demand from designers and architects for sustainable products, CradleSox® is becoming an increasingly popular option for new construction, as well as for renovations of older buildings.

### Saving natural resources

Natural resources like copper or iron (its compounds are used for the production of steel) are inevitably running out of stock. Therefore, textile ducts are the ideal choice for air distribution that also meet the requirements according to the Cradle to Cradle concept.

At the moment when the CradleSox® can no longer be used, they can be returned to Euro Air where they will be disassembled into their individual parts. These parts are further used and no additional waste is produced.

In addition to the Cradle to Cradle idea itself, CradleSox® also brings the basic benefits of textile ducts, such as lower energy consumption or the generation of a smaller carbon footprint during transport.



## Fulfilling the criteria

We can guarantee the certainty of the composition and use of chemicals for the production of textile ducts. All fabrics for the production not only CradleSox®, but also standard textile ducts are produced in our own weaving mill. In this category we have been awarded a bronze rating for the Euro Air certificate.

We received a gold rating in the area of secondary use of materials. The aluminium profiles used for suspension of the systems can be recycled at the end of the duct's life cycle without reducing the quality of the aluminium. The textile material is recycled when it is returned to Euro Air.



Renewable energy is also one of our priorities. At our Danish subsidiary, we generate energy through solar panels and the remaining energy we buy is 100% wind-powered.

Similarly, the management of water is very crucial for us. Therefore, we have significantly changed the colouring of our TCS fabrics. Previously, dyeing was carried out in a dye bath. However, now the yarns are dyed directly, so that there is a very significant saving of water from the previous 10-12 l/kg to 4 l/kg.

We also received an excellent rating in terms of the social aspects of production.





## Certification of ducts

In order to be certified according to the Cradle to Cradle certification it is required to meet the following conditions.

The reason for their definition is to guarantee that the goals of the overall concept are met and to ensure a cycle of materials usage in terms of a circular economy.

For ducts which meet these conditions, we subsequently issue a certificate and also offer the possibility of embroidering the CradleSox® logo on the duct. The logo then informs at a first sight about the received certification.

### CradleSox® specification

Material:	Trevira CS DFC HT
Color:	White, dark and light grey, yellow, red, dark and light blue, black.
Suspension:	Fasttrack
Mounting:	Wingrail, Flexrail



## Discounts for spare set of ducts



### Euro Air A/S

has successfully achieved Cradle to Cradle Certified® Bronze for the product(s) under the name:

**Cradle Sox®**

Certification Number:  
65790  
Standard Version:  
3.1  
Product/Service/Brand:  
Euro Air GmbH – Fast of Ducts & Systems  
Material/Health:  
Associated Body:  
Euro Air GmbH – Fast of Ducts & Systems  
Effective Date:  
12 May 2022  
Expiration Date:  
05 January 2024

*Christina Raab*  
President & CEO

Cradle to Cradle Products Innovation Institute

In order to ensure the cycle of the circular economy, Euro Air is providing a discount for a new replacement set of ducts that will replace the previous Cradle to Cradle certified systems.

10% discount when the ducts are returned within 10 years,

7% discount for returns between 10 and 15 years,

5% discount at the end of the life of the ducts.

\* Discount is given on the original selling price of the ducts and is applicable only for Cradle to Cradle systems.



## It's in the air

We value a professional attitude in dealing with any project or enquiry. Whether it is a large or small project, all our fabric duct systems are tailored according to your requirements. With the specially developed TBV Designer software, our engineers can provide the necessary technical documentation and CAD drawings.

We supply materials that have been tested and approved. All our textiles are manufactured in our own weaving mill and are designed exclusively for air distribution applications. In addition, they are tested to the most respected international standards. Our solutions are based on common sense and technical expertise and are assembled in close collaboration with our customers to ensure a product that meets your requirements at a competitive price.

At Euro Air, we specialise in selected European markets, the Middle East and also Asia. In all these regions we have a wide network of partner distribution companies that contribute to easier cooperation with our international customers. Distribution in Denmark, Germany, England or the United States is handled by our mother company KE Fibertec

[www.euroair.eu](http://www.euroair.eu)

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