KE FIBERTEC

AIR THE WAY YOU WANT

INSIGHT INTO EVERY FOOTPRINT

Complete clarity

Third-party verified EPD
for Textile Based Ventilation

Our EPD is anything but standard

Climate requirements in the construction industry are becoming increasingly stringent, and today the building regulations require that new buildings must be able to document the total climate impact of the building. This is called an LCA, Life Cycle Assessment, which estimates how much CO2 a building emits over a given period. With the requirement for an LCA, the EPD, Environmental Product Declaration, becomes a valuable tool. Both as documentation and as a tool to help make the smartest climate choices.

For many years KE Fibertec has had a strong focus on offering our customers climate-friendly, customised ventilation solutions with the smallest possible footprint and the greatest possible recycling potential. Therefore, it was natural for us to take the next step in developing an EPD. It is prepared according to ISO 14025 and EN 15804+A2.

Project-specific CO2 data

Since EPDs are third-party verified, our customers are guaranteed a credible starting point. In addition, our documentation is dynamic and customised for each individual project.

For dimensioning our customised textile ducts, we use the advanced 3D programme TBV Designer. We have now further developed the system to also include CO2 emissions calculated in our documentation that include everything from textile materials, mounting parts and accessories to packaging.

This means that our CO2 documentation is not based on a standard template, but on the climate impact and life cycle of each specific TBV solution including production, use and disposal. In this way, our CO2 data allows you to make highly informed decisions when choosing a ventilation solution.

CRADLE-TO-GATE

CRADLE-TO-GRAVE

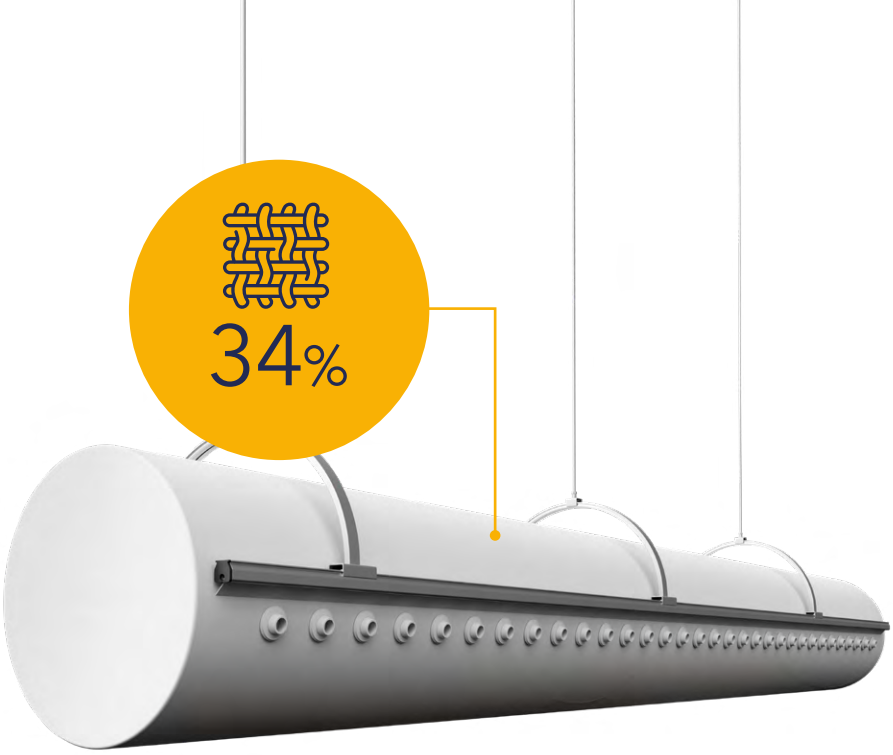
A1-A2
Raw materials
and transport
to production

A3
Construction

B2
Use

C1-C4
Deconstruction
Transport
Waste processing
Disposal

D
Reuse
Recovery
Recycling
potential



Materials

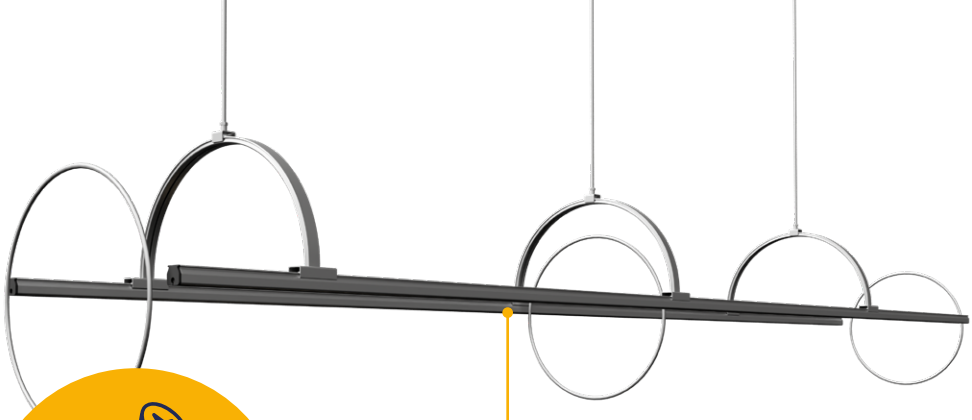
All our textile materials are woven at KE Fibertec's own weaving mill, where we have the latest technology, including high-tech air looms to produce our two main qualities, MultiWeave and GreenWeave. This enables us to control the entire production process.

GreenWeave is a well-documented and recyclable material for ventilation ducts. GreenWeave is particularly suitable for comfort installations with high demands on the indoor air quality such as offices, schools, laboratories, conference centres and cold workspaces in the food industry. GreenWeave is a recyclable material and Cradle to Cradle certified.

MultiWeave is also a proven and recyclable material suitable for many different industries - from ISO class 4 cleanroom facilities, industrial premises and sports halls to equalisation rooms in slaughterhouses. The durable material is cleanroom certified according to class 4, ISO 14644-1.

Complete clarity

Our CO2 documentation differentiates itself by providing insight into how all elements of our textile based ventilation solutions impact the climate. We have made calculations for all components that show how much the four categories - textile material, mounting parts, accessories and packaging - account for of the total climate impact. In this way, the product-specific CO2 data provides insight into every footprint when choosing textile based ventilation from KE Fibertec.



51%

Installation

Textile based ventilation solutions from KE Fibertec are always customised to the individual application. Our suspension rails are always made to measure. This minimises waste and saves time on site, as the aluminium rails are quick and easy to install in almost any ceiling. The low weight of both the rails and textile ducts also offers ergonomic advantages compared to steel ducts.

7%

Accessories

When it comes to precision and increased transparency, the details play a significant role in the final result. And here we have really gone into detail, because our CO2 documentation naturally includes zips, nozzles, clamps, end sections, SRD, screws, Velcro and sewing thread when calculating the climate impact.

8%

Packaging

Our new packaging concept is based on the recyclable Hexacomb material. Hexacomb is core board, a 100% biodegradable material that, in addition to being much more environmentally friendly, offers benefits such as low weight, high durability and high flexibility with easy customisation to any product shape. As a result, we have been able to reduce our carbon footprint by as much as 62% on the packaging front.

Obtain 5-6 times lower carbon footprint* with KE Fibertec's TBV solutions and extra sustainability points in building certifications with EPDs.

* compared to a round steel duct.
Source: Industry-specific EPD, VELTEK Denmark

Sustainable ventilation

Even though ventilation is only a small part of a building's overall carbon footprint, choosing a more sustainable solution is certainly not insignificant. The benefits of choosing textile based ventilation from KE Fibertec are not only about the product itself, but also all the results it produces.

Simpler workflows

An EPD is an extremely valuable tool for those who work with building certifications or want to know the exact values for the carbon footprint of a given ventilation solution. The dynamic form creates simpler workflows because the maths is always done - no matter which textile based ventilation solution is involved. In this way, we have made it easy to make a conscious, climate-friendly choice with simple workflows.

Increased transparency

Sustainability can be a tricky concept. Especially when it comes to precision, transparency and meaning. We want to change that by creating more transparency in the way we work with sustainability. Our CO2 documentation is an example of this. It provides complete clarity about the impact each individual component has on the climate footprint. This makes it easy to work with and even easier to communicate because EPDs operate on objective, third-party verified standards.

Action behind the words

With an EPD we have taken an important step towards making it more attractive for our customers to choose environmentally friendly ventilation solutions through documentation and transparency.

- **Complete clarity with CO2 documentation**
- **Documented sustainability - gain extra sustainability points in your DGNB and BREEAM certification**
- **Obtain 5-6 times lower carbon footprint compared to a steel duct***
- **Waste is a resource. Circular economy with buy-back scheme and recycling of production waste**

* Source: Industry-specific EPD, VELTEK Denmark

Carbon neutral by **2030**

Respect for the environment

Already in 2012, we became Cradle to Cradle certified and are the first and only textile duct manufacturer to offer the Cradle to Cradle option with CradleVent, a future-proof ventilation solution that is useful, not harmful to the environment. Furthermore, we are certified according to ISO 14001 and our textile ducts are made from Oeko-Tex Standard 100 certified yarns. Our focused work on UN Sustainable Development Goals 6, 7, 8 and 12 has provided us with additional tools to achieve our ambitious goal of becoming carbon neutral by 2030.

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