

FBS Ceiling Panel (GreenWeave)

- Square panel for installation in suspended ceilings. The panels are installed in the same way as conventional ceiling panels.
- Size 600x600 or 1200x600 mm.
- Panel with woven polyester material in a suitable permeability so that the air can diffuse through the fabric with a low turbulence intensity. The cold air drops slowly below the duct and will displace the warm air in the occupied zone.
- The textile panels must be classified according to the European Fire Protection Code EN13501-1. The classification must be B-s1, d0 (flame spread / smoke spread).
- The textile material must be permeability-stable and have a maximum shrinkage of 0.5% after washing.
- The textile material must be Cradle to Cradle certified (min. Bronze) as documentation of its sustainability.
- The textile material must be approved according to the Oeko-Tex 100 Standard.
- The textile material must have a filtration efficiency classification of PM10 (M6) with a documented minimum dust holding capacity of 25 g/m² in accordance with ISO 16890.
- The textile ducts are supplied in the colour xxx RAL xxxx. The final choice of colour must be approved by the site management before the order is placed.

Points for BREEAM

- The textile duct works as an additional filter (PM10/M6) that holds dust and dirt from the ventilation system (Dust Holding Capacity of 25 g/m² textile surface according to ISO 16890), providing the rooms and their users with clean and fresh air. Complies with the requirements of the BREEAM according to the criterion Hea 02, Indoor air quality.
- The air velocity in the occupied zone must be provided for the technical documentation with a 2D or 3D flow chart representation in relation to the room temperature. Complies with the requirements of BREEAM according to criterion Hea 04, Thermal comfort.
- The sound power levels should be calculated for all systems and displayed graphically according to frequencies. Complies with the requirements of BREEAM according to criterion Hea 05, Acoustic performance.

Requirements for the supplier

- Quality assurance: The supplier must be certified according to ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.
- Warranty: The supplier must provide a 10-year warranty on products supplied for the fabric portion of this system.
- Submissions: The supplier must submit performance data for each textile duct, including air flow rate, inlet velocity, indoor air/supply air temperature differential, static pressure, total inlet pressure and thermal air velocity in the occupied zone. In addition, the ESP (External Static Pressure), which is important for the commissioning of the entire ventilation system.
- Maintenance data: The supplier must provide maintenance data, including washing instructions for the panels.

Supplier

KE Fibertec AS
Industrivej Vest 21
DK-6600 Vejen
Tel. +45 7536 4200
E-mail: info@ke-fibertec.dk
www.ke-fibertec.com