

Features Inner duct:

This high Tech-inner core material is protected with the antimicrobial **Sanitized**[®] hygiene function to reduce microbial growth and unpleasant odors on the surface.

ANTI-MICROBE PROTECTION

Image Non-Sanitized[®] cloth:

Image Sanitized[®] protection of Innerduct of Polypropylene cloth:



GREENDEC® Sanitized® consists of a Polypropylene fabric cloth inner duct, protected with the antimicrobial Sanitized® hygienic function to reduce bacteria growth, it reduces odor-causing bacteria, protecting the material permanently for peace of mind and more freshness.

Properties GREENDEC® self-stretching Inner duct:

- Sanitized[®] Polypropylene fabric cloth inner duct code: ZNW 70 FRABG-01
- The integrated antimicrobial Sanitized[®] hygiene function helps to keep everyday items, surfaces, and appliances clean and offers 24/7 protection against bacteria and odors. BPR PT9 compliant for more information see: <u>www.sanitized.com</u>
- Properties are not subject to aging and or temperature influences
- Vapor pressure Hydrophobic
- Odorless
- Tested and approved according to ISO 184 table 2 in method A of growth intensity 0 and in method C of growth intensity 0. (Test certificates: W-354476e-22-Ho und W-354477e-22-Ho dated 06.01.22)

This means that the inner material with code ZNW 70 FRABG-01: forms no nutrient basis for the development of microorganisms. The tested material therefore meets the requirements with respect to microbial metabolization based on VDI 6022, sheet 1 (01/2018) "Hygiene requirements and room technology systems and devices". Further material requirements according to VDI 6022, Sheet 1 must be checked separately.

APPLICATION

- Cleanrooms
- Hospitals
- Heat recovery units
- Air-conditioning systems
- Air supply systems
- Preventing condensation in air ventilation systems
- ALL HVAC systems



LIABILITY:

12/12/2024

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The SONODEC ducts are not suitable for discharging combustion products from open fireplaces and oil-fired boilers. Neither are the ducts suitable for transporting air with a high concentration of acid and base.

DEC INTERNATIONAL TECHNICAL SPECIFICATIONS





GREENDEC[®] Sanitized[®] Type Connectdec

ACOUSTICALLY AND THERMAL INSULATED DUCTING

SPECIFICATIONS

Article code: Temperature range: Inside: Outside: Operating pressure: Operating air velocity: Min. bending radius: Diameter range: Standard length: Appearance:

CONSTRUCTION

Inner duct

DEC®TECH

Vapor barrier: Glass wool blanket: R-value glass wool:

Outer jacket:

Classification: ISO 184 Method A: ISO 184 Method C: EU (EN 13501-1:

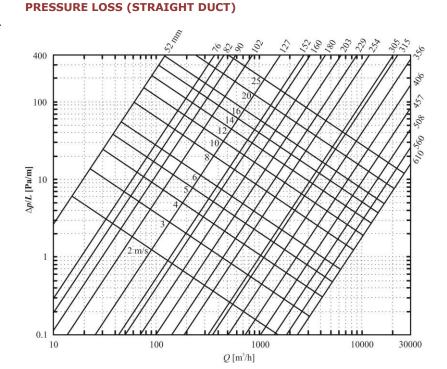
CO(1,2,3)SBGAB{Ø}/L

-30 °C to 90 °C -30 °C to 140 °C up to +2000 Pa max. 30 m/s 0.54 x Ø + 25mm 80 - 315 mm 0,5 and 1 meters Aluminum

High-Tech non-woven polypropylene fabric cloth with Sanitized[®] treatment

Optional 25mm,16kg/m³ 0.65m² K/W (ASTM C177-76) Aluminum/polyester outerjacket

According 0 0 B-s1d0



Regulation or protocol Conclusion

French VOC Regulation



Version of regulation or protocol Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)

A Sanitized sound attenuator with thermically and acoustically properties.

Optional: the insulation wool and the inner core to be separated by a DEC[®]TECH-Barrier surrounding the inner core. The DEC[®]TECH-Barrier has inorganic aluminum layers at both sides to prevent grow of microbes as well to prevent that the airstream can affect the Thermal conductivity of the insulation wool. Note: The DEC[®]TECH-Barrier gives different acoustical properties:



The **Greendec**[®]- **type Connectdec**[®] fulfills all the requirements and are classified as specified within EN 13180: Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.

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RESTRICTIONS:



GREENDEC[®] Sanitized[®] Type Connectdec ACOUSTICALLY AND THERMAL INSULATED DUCTING

Acoustical performances without DEC®TECH-Barrier and with standard aluminum outer jacket:

SOUND

ATTENUATION According: ISO 7235 ± 2 dB

| GREENDEC Sanitized (glass wool blanket 25 mm) Test report No.LAV 7624/23 | | | | | | | | | | |
|--|---|---------------------------|------|------|------|------|------|------|------|--|
| ø | L | SOUND ATTENUATION Di (dB) | | | | | | | | |
| (mm) | (mm) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Hz | Hz | Hz | Hz | Hz | Hz | Hz | Hz | |
| 80 | 500 | 13.2 | 10.3 | 17.7 | 25.2 | 32.1 | 35.0 | 38.4 | 19.4 | |
| 100 | 500 | 2.9 | 11.0 | 18.6 | 25.6 | 24.3 | 30.1 | 38.1 | 13.5 | |
| 125 | 500 | 1.6 | 5.3 | 11.3 | 22.6 | 21.4 | 26.2 | 31.3 | 11.5 | |
| 160 | 500 | 0.8 | 4.3 | 10.9 | 17.1 | 17.9 | 19.7 | 21.9 | 14.2 | |
| 200 | 500 | 5.3 | 11.0 | 15.6 | 13.8 | 12.9 | 15.3 | 13.3 | 5.8 | |
| 250 | 500 | 4.5 | 7.8 | 11.4 | 11.6 | 11.7 | 11.7 | 5.2 | 3.1 | |
| 315 | 500 | 4.8 | 11.5 | 11.2 | 9.0 | 8.1 | 5.7 | 2.5 | 1.7 | |
| 80 | 750 | 4.9 | 12.6 | 22.8 | 39.7 | 39.2 | 43.9 | 39.6 | 21.1 | |
| 100 | 750 | 8.6 | 18.6 | 32.3 | 34.0 | 30.3 | 37.3 | 41.7 | 20.6 | |
| 125 | 750 | 9.4 | 16.7 | 28.5 | 29.4 | 26.7 | 31.7 | 39.9 | 17.5 | |
| 160 | 750 | 1.5 | 8.8 | 19.3 | 22.4 | 20.6 | 25.7 | 32.2 | 14.4 | |
| 200 | 750 | 4.6 | 15.1 | 19.6 | 18.2 | 18.1 | 24.1 | 19.2 | 8.0 | |
| 250 | 750 | 2.2 | 10.7 | 14.5 | 16.3 | 16.2 | 19.3 | 10.3 | 4.6 | |
| 315 | 750 | 3.9 | 13.8 | 14.6 | 13.7 | 13.1 | 10.4 | 4.2 | 1.2 | |
| 80 | 1000 | 5.9 | 13.1 | 27.2 | 40.2 | 35.4 | 42.3 | 38.2 | 21.2 | |
| 100 | 1000 | 3.7 | 17.4 | 28.3 | 39.7 | 32.3 | 40.0 | 41.3 | 22.8 | |
| 125 | 1000 | 6.3 | 10.7 | 23.0 | 36.4 | 34.9 | 40.0 | 40.9 | 20.8 | |
| 160 | 1000 | 1.4 | 12.5 | 28.5 | 27.3 | 25.1 | 29.7 | 37.1 | 18.9 | |
| 200 | 1000 | 5.6 | 15.3 | 24.9 | 25.7 | 24.4 | 32.3 | 27.7 | 15.2 | |
| 250 | 1000 | 6.1 | 15.8 | 21.1 | 21.4 | 20.1 | 25.2 | 13.3 | 7.3 | |
| 315 | 1000 | 8.3 | 20.8 | 18.8 | 16.1 | 16.6 | 16.2 | 7.9 | 4.7 | |
| 80 | 1500 | 8.9 | 20.8 | 36.6 | 41.6 | 37.3 | 46.4 | 39.6 | 21.3 | |
| 100 | 1500 | 5.9 | 19.9 | 30.1 | 42.9 | 37.3 | 47.3 | 42.4 | 24.0 | |
| 125 | 1500 | 12.5 | 14.1 | 27.3 | 42.5 | 37.4 | 42.6 | 42.4 | 25.3 | |
| 160 | 1500 | 1.2 | 12.7 | 28.0 | 39.3 | 33.3 | 36.7 | 40.1 | 21.9 | |
| 200 | 1500 | 8.5 | 19.1 | 36.1 | 30.0 | 28.5 | 32.5 | 33.2 | 13.9 | |
| 250 | 1500 | 8.3 | 16.5 | 29.7 | 25.1 | 26.2 | 30.2 | 18.7 | 9.4 | |
| 315 | 1500 | 10.4 | 28.2 | 24.1 | 20.2 | 22.3 | 20.4 | 9.8 | 10.2 | |

Properties insulation



Reach/RoHs Compliant



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GREENDEC[®] Sanitized[®] Type Connectdec ACOUSTICALLY AND THERMAL INSULATED DUCTING

Acoustical performances without DEC®TECH-Barrier and with standard aluminum outer jacket:

WALL REDUCTION According: ISO 7235 ± 2 dB

| GREENDEC Sanitized (glass wool blanket 25 mm) Test report No.LAV 7624/23 | | | | | | | | | | |
|--|-----------|------------------------|-----------|-----------|-----------|------------|------------|------------|------------|--|
| Ø (mm) | L (mm) | WALL REDUCTION Dt (dB) | | | | | | | | |
| | | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | |
| 80 | 500 | 34.9 | 27.1 | 20.3 | 13.7 | 10.1 | 9.2 | 12.8 | 34.9 | |
| 100 | 500 | 29.0 | 24.1 | 16.3 | 12.2 | 10.4 | 11.6 | 14.4 | 29.0 | |
| 125 | 500 | 33.7 | 23.4 | 18.2 | 11.7 | 10.8 | 10.5 | 13.3 | 33.7 | |
| 160 | 500 | 34.5 | 27.1 | 20.1 | 12.5 | 9.6 | 9.7 | 13.5 | 34.5 | |
| 200 | 500 | 25.9 | 20.7 | 14.5 | 8.9 | 6.8 | 9.7 | 12.6 | 25.9 | |
| 250 | 500 | 29.3 | 22.2 | 16.1 | 8.2 | 7.4 | 9.1 | 12.2 | 29.3 | |
| 315 | 500 | 31.5 | 26.2 | 18.3 | 11.5 | 8.4 | 8.0 | 11.5 | 31.5 | |
| 80 | 750 | 28.7 | 23.9 | 16.4 | 10.2 | 6.9 | 10.2 | 12.7 | 28.7 | |
| 100 | 750 | 30.5 | 24.7 | 18.6 | 10.7 | 9.2 | 10.1 | 12.9 | 30.5 | |
| 125 | 750 | 36.0 | 26.2 | 20.7 | 12.4 | 8.5 | 8.7 | 12.2 | 36.0 | |
| 160 | 750 | 26.4 | 22.9 | 15.3 | 10.3 | 6.7 | 10.1 | 12.2 | 26.4 | |
| 200 | 750 | 30.4 | 23.2 | 18.0 | 10.2 | 9.5 | 10.6 | 13.2 | 30.4 | |
| 250 | 750 | 26.2 | 21.4 | 17.0 | 11.2 | 9.7 | 9.8 | 11.9 | 26.2 | |
| 315 | 750 | 26.3 | 19.8 | 10.9 | 5.2 | 5.6 | 8.3 | 10.7 | 26.3 | |
| 80 | 1000 | 29.0 | 19.3 | 11.3 | 8.6 | 8.9 | 10.2 | 14.0 | 29.0 | |
| 100 | 1000 | 22.4 | 16.0 | 9.4 | 7.0 | 7.1 | 7.9 | 12.8 | 22.4 | |
| 125 | 1000 | 24.5 | 21.5 | 16.3 | 10.8 | 9.7 | 9.9 | 11.8 | 24.5 | |
| 160 | 1000 | 26.3 | 19.8 | 11.5 | 6.3 | 6.6 | 8.7 | 11.7 | 26.3 | |
| 200 | 1000 | 28.4 | 20.2 | 11.1 | 8.5 | 9.1 | 10.1 | 13.3 | 28.4 | |
| 250 | 1000 | 23.5 | 15.9 | 9.9 | 7.5 | 7.6 | 8.3 | 12.5 | 23.5 | |
| 315 | 1000 | 23.2 | 22.0 | 17.5 | 11.5 | 10.5 | 10.5 | 11.9 | 23.2 | |
| 80 | 1500 | 26.5 | 20.3 | 12.5 | 7.6 | 7.7 | 10.4 | 12.0 | 26.5 | |
| 100 | 1500 | 26.4 | 19.9 | 10.7 | 8.2 | 8.2 | 9.4 | 11.8 | 26.4 | |
| 125 | 1500 | 20.3 | 15.2 | 8.7 | 6.7 | 7.3 | 7.9 | 12.2 | 20.3 | |
| 160 | 1500 | 20.2 | 22.6 | 18.9 | 12.3 | 11.3 | 11.1 | 12.6 | 20.2 | |
| 200 | 1500 | 24.1 | 21.2 | 12.8 | 7.3 | 7.6 | 10.6 | 12.6 | 24.1 | |
| 250 | 1500 | 28.1 | 21.2 | 13.4 | 9.7 | 9.8 | 11.0 | 12.8 | 28.1 | |
| 315 | 1500 | 19.8 | 16.5 | 10.0 | 7.9 | 8.0 | 8.3 | 11.9 | 19.8 | |

Properties insulation



Reach/RoHs Compliant



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