



SONODEC 25

ACOUSTICALLY AND THERMAL INSULATED DUCTING

The **SONODEC 25** consists of a perforated aluminum laminate inner duct thermally and acoustically insulated with glass wool and is provided with an aluminium laminated outer jacket. A barrier between the duct and the glass wool prevents the diffusion of glass wool particles.

APPLICATION

- Air-conditioning systems
- Air supply systems
- Preventing condensation in air ventilation systems
- Decreasing of machine noises

SPECIFICATIONS

| | |
|--------------------------|------------------|
| Article code: | DS{Ø} |
| Temperature range: | -30 °C to 140 °C |
| Operating pressure: | up to +2500 Pa |
| Operating air velocity: | max. 25 m/s |
| Min. bending radius: | 0.54 x Ø + 25mm |
| Standard diameter range: | 82 – 508 mm |
| Standard length: | 10 mtr |

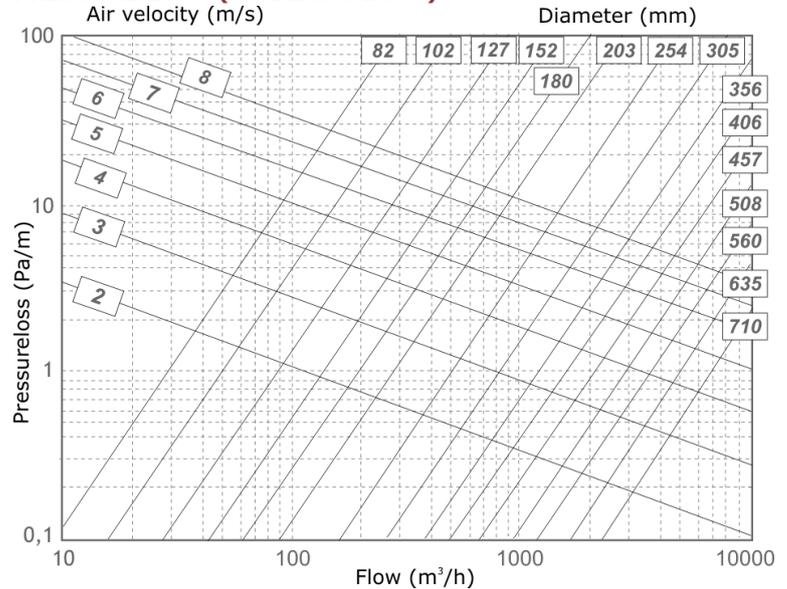
CONSTRUCTION

| | |
|---------------------|---|
| Inner duct: | alu/poly laminate |
| Barrier | closed film |
| Glass wool blanket: | 25mm, 16kg/m ³ |
| Outer jacket: | alu/poly laminate |
| R-value glass wool: | 0.65 m ² K/W (ASTM C177-76) |
| Appearance: | aluminium |

CLASSIFICATIONS

| | |
|----------------------|---|
| UK (BS476): | Part 6, 7 and 20 |
| NL(NEN 6065/6066) | 1 |
| FR (NF): | M1 |
| Marine certified MED |  |

PRESSURE LOSS (STRAIGHT DUCT)



The **SONODEC 25** fulfills all the requirements and are classified as specified within EN 13180: *Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.*

The **SONODEC 25** is also available, on request, as **SONODEC 50** with a 50 mm glass wool layer, the article number is: DS50{Ø}. Specifications are the same as Sonodec 25 except for:

- R-value glass wool: 1.3 (50 mm) m² K/W (ASTM C177-76).
- Min. bending radius: 0.54 x Ø + 50mm

LIABILITY:

The information contained in this brochure was current on the publication date. DEC INTERNATIONAL reserves the right to make changes in details at any time without prior notice. In order to avoid misunderstandings, any interested party is advised to contact DEC INTERNATIONAL checking for any changes in materials and/or information after this brochure was published.

PLEASE NOTICE:

The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

TRADEMARKS:

SONODEC, the DEC logo and DEC International are trademarks, or registered trademarks of Dutch Environment Corporation BV in the Netherlands and/or other countries.

RESTRICTIONS:

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



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SOUND ATTENUATION

| SONODEC 25 | | (Test report nr. AB323-1 Peutz bv - The Netherlands) | | | | | |
|---------------------|---------|--|-----|-----|------|------|------|
| D _i (mm) | L (mtr) | Attenuation, dB - Mid-frequency, Hz | | | | | |
| | | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| 82 | 1 | 16 | 26 | 33 | 38 | 28 | 17 |
| | 2 | 21 | 37 | 48 | 53 | 46 | 29 |
| | 3 | 29 | 45 | 49 | 54 | 57 | 38 |
| 102 | 1 | 9 | 19 | 32 | 37 | 31 | 21 |
| | 2 | 19 | 33 | 52 | 53 | 49 | 36 |
| | 3 | 25 | 39 | 50 | 52 | 54 | 40 |
| 127 | 1 | 12 | 20 | 21 | 25 | 29 | 17 |
| | 2 | 17 | 31 | 44 | 45 | 46 | 26 |
| | 3 | 23 | 46 | 44 | 47 | 51 | 34 |
| 160 | 1 | 17 | 22 | 22 | 27 | 19 | 14 |
| | 2 | 31 | 39 | 34 | 38 | 31 | 20 |
| | 3 | 29 | 43 | 41 | 46 | 39 | 27 |
| 203 | 1 | 7 | 15 | 17 | 20 | 16 | 13 |
| | 2 | 20 | 34 | 32 | 35 | 30 | 22 |
| | 3 | 18 | 40 | 38 | 41 | 39 | 30 |
| 254 | 1 | 16 | 16 | 16 | 16 | 13 | 10 |
| | 2 | 26 | 31 | 28 | 33 | 25 | 18 |
| | 3 | 32 | 36 | 32 | 37 | 34 | 27 |
| 315 | 1 | 11 | 12 | 12 | 14 | 11 | 7 |
| | 2 | 28 | 25 | 22 | 27 | 22 | 15 |
| | 3 | 27 | 32 | 28 | 34 | 28 | 19 |
| 457 | 1 | 12 | 10 | 8 | 8 | 6 | 8 |
| | 2 | 20 | 17 | 15 | 16 | 13 | 12 |
| | 3 | 25 | 22 | 21 | 25 | 19 | 16 |
| 508 | 1 | 8 | 8 | 8 | 9 | 6 | 7 |
| | 2 | 20 | 17 | 16 | 17 | 11 | 11 |
| | 3 | 24 | 22 | 20 | 25 | 15 | 14 |

| SONODEC 50 | | (Test report nr. AB323-4 Peutz bv - The Netherlands) | | | | | |
|---------------------|---------|--|-----|-----|------|------|------|
| D _i (mm) | L (mtr) | Attenuation, dB - Mid-frequency, Hz | | | | | |
| | | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| 82 | 1 | 14 | 19 | 34 | 40 | 27 | 18 |
| | 2 | 19 | 31 | 42 | 59 | 45 | 30 |
| | 3 | 23 | 39 | 50 | 61 | 63 | 41 |
| 102 | 1 | 7 | 18 | 31 | 43 | 28 | 20 |
| | 2 | 11 | 32 | 49 | 61 | 45 | 27 |
| | 3 | 13 | 35 | 55 | 62 | 51 | 33 |
| 127 | 1 | 7 | 15 | 22 | 32 | 26 | 18 |
| | 2 | 14 | 27 | 47 | 56 | 40 | 28 |
| | 3 | 17 | 32 | 54 | 59 | 54 | 34 |
| 160 | 1 | 12 | 20 | 23 | 28 | 18 | 11 |
| | 2 | 22 | 36 | 43 | 50 | 29 | 20 |
| | 3 | 32 | 45 | 47 | 55 | 43 | 28 |
| 203 | 1 | 4 | 9 | 14 | 20 | 14 | 13 |
| | 2 | 13 | 22 | 35 | 43 | 30 | 24 |
| | 3 | 15 | 34 | 47 | 50 | 41 | 34 |
| 254 | 1 | 14 | 14 | 16 | 15 | 11 | 10 |
| | 2 | 26 | 28 | 30 | 31 | 18 | 14 |
| | 3 | 36 | 36 | 35 | 44 | 25 | 23 |
| 315 | 1 | 15 | 13 | 15 | 16 | 9 | 7 |
| | 2 | 27 | 26 | 28 | 32 | 15 | 13 |
| | 3 | 31 | 32 | 30 | 37 | 20 | 17 |
| 457 | 1 | 9 | 9 | 10 | 9 | 5 | 7 |
| | 2 | 20 | 19 | 21 | 17 | 11 | 13 |
| | 3 | 24 | 23 | 27 | 24 | 16 | 17 |
| 508 | 1 | 7 | 8 | 9 | 8 | 5 | 7 |
| | 2 | 19 | 17 | 20 | 15 | 9 | 10 |
| | 3 | 23 | 24 | 28 | 21 | 14 | 14 |

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