

- Insulated
- Aluminium laminated
- Acoustically insulated



Flexible insulated silencers type TRD-NW

The **TRD-NW 25** acoustically insulated duct with a non-woven innerchannel type **SONOFLEX EC**, characterised by a flexibility and excellent acoustic properties for both high and low frequencies. The flexible silencer is equipped with a finished junction for easy assembly at both ends.

Application

- The **TRD-NW 25** flexible ducts are used in ventilation, air conditioning, and air handling systems where high mechanical strength, temperature, fire-resistance, and thermal and sound attenuating qualities are required

Composition

- Inner core, consisting of 1 layer non-woven polypropylene cloth 80 gr/m²
- Metalized polyester outer jacket 3-layer laminate, consisting of 2 layers of polyester of 12 μ each and 1 aluminium of 7μ. Total thickness without glue: 45 μ
- Fibreglass insulation:
 - Density: 16 kg/m³
 - Thickness: 25 mm
 - Thermal resistance: 0,65 K.m²/W
 - Thermal conductivity: 0,039 W/m-K
- Wire spacing: a steel spiral spring of different thicknesses and a pitch of 25mm (Ø82-90mm), 36mm (Ø102-315mm)
- Colour: Aluminium
- Both ends reinforced with alutape connection for easy mounting

Specification

- Hydrophobic and anti-bacterial
- Temperature range: From - 30°C till + 140°C
- Air velocity (max): 20 m/s
- Operating pressure: -188 up to 2500 Pa
- Center bend radius: 0.54 x Ø + 25 mm
- Fire resistance: Class B - s1, d0 according EN13501-1
- As the product does not contain PVC, no toxic vapours are released should fire occur
- Produced according EN 13180: Dia Class B, Tightness Class C, Sag<4°, Crushing strength 13-35 kg compressed; 2.5 kg uncompressed.

Chemical resistance

- TRD non-woven is not suitable for transporting air with high concentration of acids and base

Static properties

- The **TRD-NW 25** is suitable for applications where static discharges have to be avoided

Restrictions

- The **TRD-NW 25** ducts are not suitable for transporting air with a high concentration of acid and base
- The **TRD-NW 25** can not be used for discharging combustion gases from open fire places and oil-fired boilers

Accessories

- Clamps, type **MCA**
- **Alutape 40S**

Order example

- **TRD-NW, 254, 1000**

Explanation :

TRD-NW = Type of Flexible duct

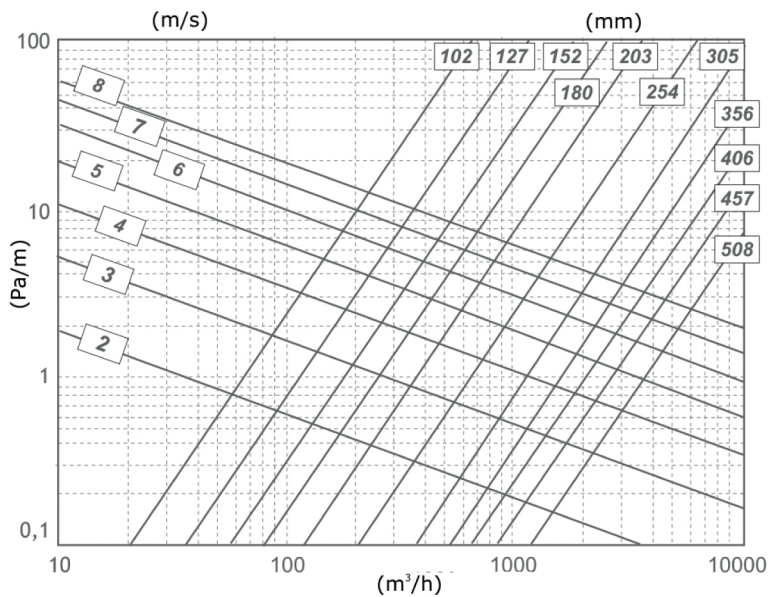
254 = Diameter of flexible duct

1000 = Length of flexible duct

Text for tender

- The connection of the plenum boxes shall be done with the use of acoustically and thermally insulated flexible ducts of length 1m. The outer jacket shall be reinforced to prevent rupture
- Cairox Type **TRD-NW 25**

Pressure loss graph



Sound attenuation for 1m duct - Tolerance +/- 2 dB								
Test report nr. A1672-1/A3198-1 Peutz bv - The Netherlands								
TRD-NW	Attenuation, dB -Mid Frequency [Hz]							
D [mm]	63	125	250	500	1000	2000	4000	8000
82	13.6	22.4	40.2	38.7	36.5	41.3	51.6	45.8
102	15.9	22.9	31.1	38.6	36.4	40.6	50.1	35.9
127	11.7	18.9	32.4	29.9	28.8	34.5	40.9	24.5
152	12.2	10.9	29.7	30.1	29.0	38.3	34.6	20.4
165	19.3	25.4	30.5	27.1	23.8	32.2	27.8	17.3
185	17.3	13.6	27.6	26.5	26.0	35.1	22.7	13.2
203	10.7	12.1	28.7	22.8	22.8	30.6	19.4	11.9
254	12.9	18.7	24.3	19.5	19.9	27.7	12.9	10.2
315	16.6	23.2	18.0	15.2	16.5	19.6	10.1	8.5