



GREYDEC® 222 WELDEC - SYNTHETIC DUCTING

The **GREYDEC® 222** ducts are light weight and very flexible ducting of a coated glass fiber fabric, for several applications. The ducts are suitable for flexible mounting and can be mounted to round and oval connection pieces. The **GREYDEC® 222** ducts are also capable of absorbing prolonged vibrations because of its mechanical strength.

The **GREYDEC® 222** consisting of a glass fabric, coated on both sides with a copolymer. The spiral wire has been inserted into the fabric.

APPLICATIONS

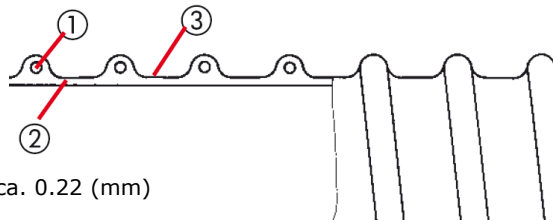
- Mechanical air supply systems
- Machine exhausting
- Air supply and ventilation systems
- Air supply cabinet in air conditioning systems
- Suction of welding fumes

PROPERTIES

- Excellent flexibility
- Good compression
- Self-extinguishing

CONSTRUCTION

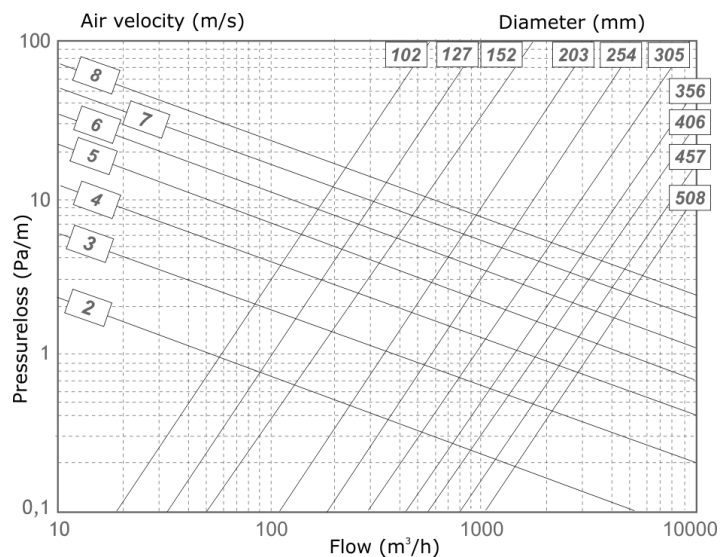
- 1/ Spring steel Helix
- 2/ Wall: PVC coated glass fabric
- 3/ Wall thickness between the windings ca. 0.22 (mm)



SPECIFICATIONS

Article code:	DG222{Ø}
Temperature range:	-30 °C to 70 °C
Operating pressure:	up to +3000 Pa
Operating air velocity:	max. 30 m/s
Bending radius:	min. 1 x Ø
Standard diameter range:	82 – 508 mm
Standard length:	10 mtr
Wire spacing:	22 mm
Appearance:	Grey

PRESSURE LOSS (STRAIGHT DUCT)



The **GREYDEC® 222** fulfills all the requirements and are classified as specified within EN 13180:

Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.

Greydec® 200 fabric is tested and approved according NF P 92-53:1995, M1, UK (BS476) part 6,7 and 20, Sweden BBR: approval

Reach/RoHS Compliant

Directive 2011/65/EU RoHS

Phthalates according to 1907/2006/EC REACH

Test result: Pass - The test items meet the requirements of the test specification



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:

GREYDEC, 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 GREYDEC 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.





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Technical data report no. 07.15-14/2011

Interior Ø = D	Max Vacuum*
mm	mbar
82	163
102	163
127	114
152	85
160	78
165	75
203	53
254	33
508	10

*incl.safety margin

Check before selection Greydec®222:

- Before using the duct in industrial zones and abstract/supply (chemical) fumes check data list: Chemical resistance **Greydec® 100, Greydec®200** product ranges
- Not suitable for antistatic, solid dust, grinding particles demands and or requirements
- Lifetime of the **Greydec®222** duct work depends on uses and application and cannot be guaranteed
- DEC might be able to offer your ducts on request when antistatic- , chemical, solid particles, vacuum, -properties are an issue
- Strong resistance of the fiber glass fabric against mechanical, vibration influences, vacuum demands, chemical properties
Note: glass fabric has a less resistance against movements and vibration than polyester-based fabrics
- For special requirements regarding Max Vacuum/ Mbar **Greydec®222P(Premium)** might fill your technical demands
- By any doubts contact DEC's technical department always on forehand before selecting the ductwork

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Application examples:

Fume extraction:

- Duct mounted mobile units
- Fixed units
- Self-supporting Extraction arms
- Central station system
- Welding fumes
- Exhaust Atmosphere units
- Swing boom arms
- Exhaust capture Nozzles
- Laboratory fume hoods

Dust extraction:

- Duct mounted mobile units
- Fixed units
- Down draught bench
- Self-supporting Extraction arms
- Exhaust capture Nozzles (benchtop fume hoods)

Exhaust – Supply ventilation:

- vehicle Exhaust Extraction Equipment
- Exhaust capture Nozzles
- Duct mounted mobile airco units
- Duct mounted copier machines
- Inline ventilators

(Hot) air distribution:

- Building sites
- Tents
- Agriculture
 - Heat cannons heaters, to dry, heating up building sites and or construction places
 - Heat cannon heaters for tents
 - Air filling tents
 - Heating, Ventilation, chicken stables (chicken reacts on aluminum ducts aggressively, as well as are the stable fumes to aggressive for ductwork, flexible ducts out of metal)
 - Various applications for greenhouses

Exhaust of cabinets in laboratories, hospitals:

- Swing boom arms
- Exhaust capture Nozzles
- Laboratory fume hoods

Domestic and commercial mechanical ventilation:

- Connection to inline ventilators, for exhaust and or supply air where high vibration is influencing lifetime of duct work
- Round duct connector to absorb vibration, between the rigid duct work
- To absorb sound vibration
- Used as ductwork

*Note: check possibilities to have pressed **DEC**® connection caps on the ends of the **Greydec**®222*



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