



**Flexiva**  
Ventilation Systems

Flexible solutions for ventilation...



**444FLEX**

[www.flexiva.com.tr](http://www.flexiva.com.tr)





**CSTB**  
le futur en construction





ISIL MUHENDISLIK A.S. established in 1998, started production of Flexible Ventilation Ducts and Duct Connectors used in Heating, Ventilation and Air Conditioning (HVAC) industry, as the first producer of Turkiye.

ISIL A.S. took place in market primarily with own trademarks of ESBO and KUGAR, achieved to be a leading company of the industry by means of great interest in his products and quality.

In the mean time, due to respond the requirements of the industry, changing and developing rapidly, ISIL A.S. having a dynamic structure and developing quickly, presented new trademark of FLEXIVA at year 2011, by utilising own research-development (r&d) and production technology,

ISIL A.S. completing the essential investments, primarily established new factory having a 5.000. m<sup>2</sup> under roof area. Also, in his industry, as a producer of self-production line and equipment pool, ISIL A.S. achieved to be the only in Turkiye and one of a few companies in the world.

As a result of all these progression, ISIL A.S. presently exports about 40 countries and participating the most important fair of the world from America to Asia and Europe, Middle East to Africa, due to enlarge the current customer range.

While having such progressions at international market, ISIL A.S. also achieved to meet the great parts of the needs of domestic market and participated in many important projects nationally.

ISIL A.S. intended to be the leader of the world in his industry with continuously developing products, technological power and r&d investments.

Flexible solutions for ventilation...



Perfect  
Solution for  
ventilation





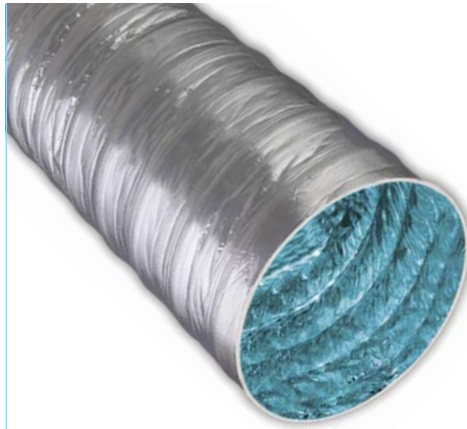
# Flexiva artist®

- Classical Insulated Duct : More heat loss due to separated lamination of inner duct, insulation material and outer jacket.
- ARTIST : No heat loss by means of tight production of fully lamination.
- Classical Insulated Duct : Available only with glasswool for insulation.
- ARTIST : Gives opportunity to use not only glasswool but also Polyethylene, Polyester Fibre, Rubber for insulation.
- Classical insulated Duct : Outer jacket can be easily damaged during application.
- ARTIST : More durable structure is provided by tight production of lamination.
- Classical Insulated Duct : Glasswool is movable between inner duct and outer jacket. It causes lumping, dusting, spalling and disintegration of glasswool during application.
- ARTIST : Free of the above mentioned negative cases due to tight production of lamination.
- Classical Insulated Duct : Glasswool exposed to humidity.
- ARTIST : Not exposed to humidity by means of tight production of lamination.
- ARTIST : Provides easy application and aesthetical appearance.
- ARTIST : Enriches your projects.

# Flexiva artist®



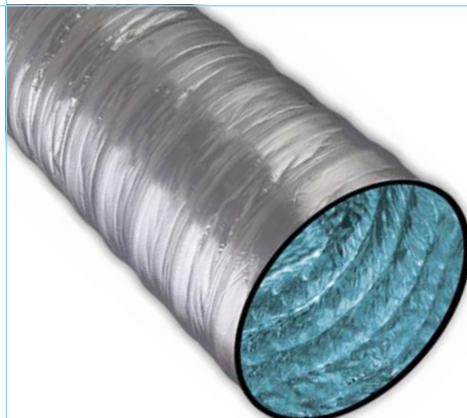
artist Polyethylene



artist Polyethylene Hygienic



artist Rubber



artist Rubber Hygienic







# Flexiva

## artist®

ARTIST made of aluminum foil as fully laminated insulation.

- ARTIST is for middle and low pressure areas.
- ARTIST has ability to press and twist
- ARTIST is air proof.
- ARTIST is flame retardant.

### Technical Specifications

Material	: Aluminum
Temperature Range	: -30 °C +150 °C
Air Velocity	: max. 30m /sec.
Operating Pressure	: max. 5000 Pa
Class	: Flame Retardant

### Insulation

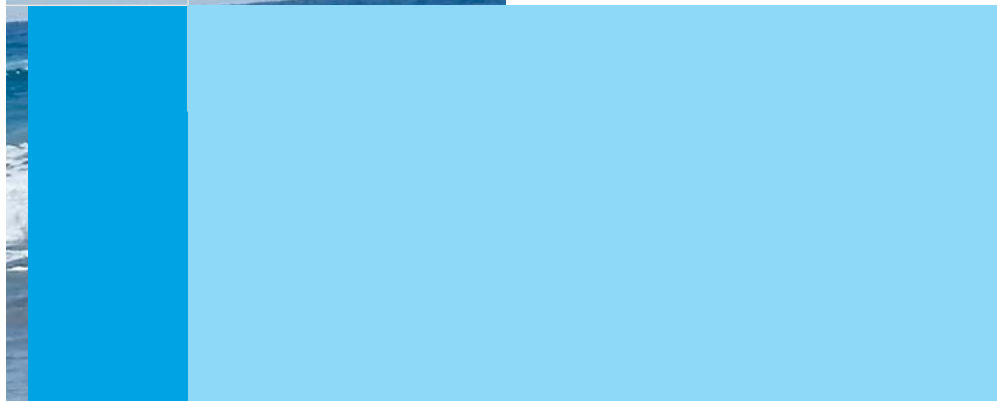
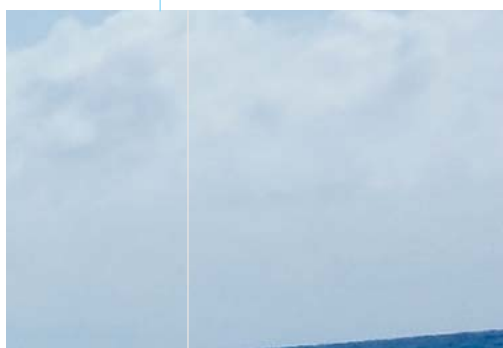
#### A) Polyethylene Foam

• Density	: 35 kg/m <sup>3</sup>
• Thickness	: 1 ~ 16 mm

#### B) Rubber Foam

• Density	: 50 ~ 65 kg/m <sup>3</sup>
• Thickness	: 3 ~ 15 mm

**Outer Surface** : Aluminum



Flexible  
solutions  
for ventilation...







***Flexiva***  
**hygienic** Antimicrobial Flexible  
Ventilation Duct





Durable up to maximum 5000 Pa. operating pressure,  
High Tensile Steel Wire, Polyester laminated aluminum or 450 denier PVC,  
Produced with special antimicrobial solution, having Silver Ion Technology,  
Uninsulated and insulated types are available,  
Ø 52 - Ø 1000 mm diameter range,  
Maximum 30 m/s air velocity,  
Production conforms to ISO 9001 - 2008 Quality Management System,  
Quality conforms to TS EN 13180 standards,  
Antimicrobial Flexible ventilation ducts.

**Technical Specifications :**

Material	: Aluminum
Diameter Range	: Ø 52 mm - Ø 1000 mm
Temperature Range	: -30°C / +150°C
Air Velocity	: Max. 30 m/sec
Operating Pressure	: Max. 5000 Pa
Class	: Flame retardant M1





# Flexiva aluminum airbox/pratik





Made of laminated aluminum foil both inner-outer surface and high tensile steel wire for heating ventilation and gas transition systems.

- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight , resistant to tear and wear.
- Flame retardant.
- No cause of poisonous gas in case of fire.



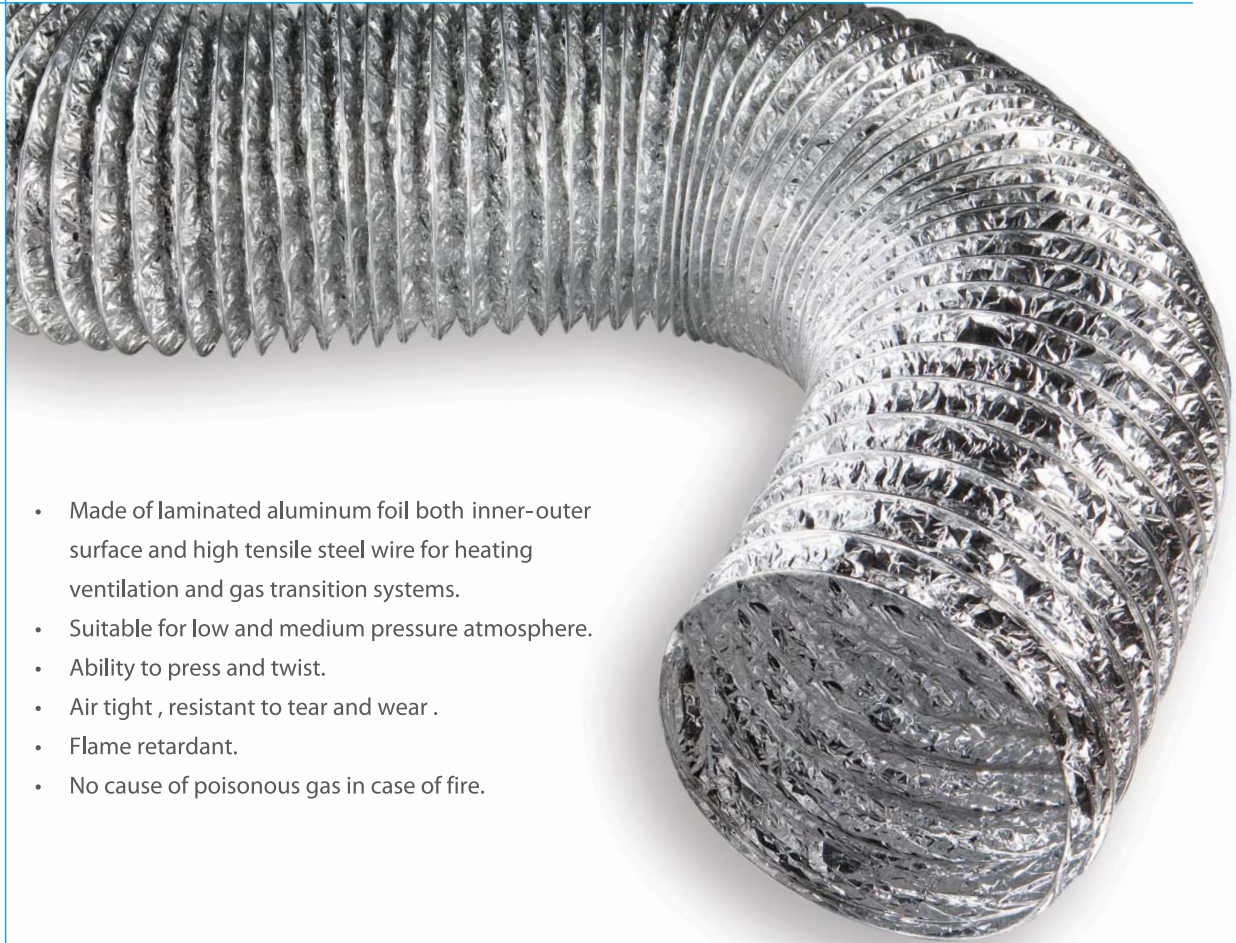
#### Technical Specifications :

Material	: Aluminum
Diameter Range	: Ø 100 mm – Ø 150 mm
Temperature Range	: -30 °C / + 150 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 5000 Pa.
Class	: Flame retardant.
Standard offer type	: Package / 3 m.





# Flexiva aluminum sky



- Made of laminated aluminum foil both inner-outer surface and high tensile steel wire for heating ventilation and gas transition systems.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight , resistant to tear and wear .
- Flame retardant.
- No cause of poisonous gas in case of fire.





#### Technical Specifications :

Material	: Aluminum
Diameter Range	: Ø 52 mm – Ø 1000 mm
Temperature Range	: -30 °C / + 150 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 5000 Pa.
Class	: Flame retardant M1
Standard offer type	: Package / 10 m.

#### Insulated Sky

Insulation	: 25 mm – 100 mm thickness and 12-16 kg / m <sup>3</sup> density glasswool
Jacket	: Aluminum

**SONO SKY**

Made of micro perforated laminated aluminum foil which provides sound insulation and high tensile steel wire for heating ventilation and gas transition systems.

#### Technical Specifications :

Insulation	: 25 mm – 100 mm thickness and 12-16 kg / m <sup>3</sup> density glasswool
Jacket	: Aluminum
Barrier	: PET



# Flexiva aluminum wind



- Made of laminated aluminum foil both inner-outer surface and high tensile steel wire for heating ventilation and gas transition systems.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight, resistant to tear and wear.
- Non flammable.
- No cause of poisonous gas in case of fire.



#### Technical Specifications :

Material	: Aluminum
Diameter Range	: Ø 52 mm – Ø 1000 mm
Temperature Range	: -30 °C / + 250 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 5000 Pa.
Class	: Non flammable M0
Standard offer type	: Package / 10 m.

#### Insulated Wind

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
Jacket	: Aluminum

## SONO WIND

Made of micro perforated laminated aluminum foil which provides sound insulation and high tensile steel wire for heating ventilation and gas transition systems.

#### Technical Specifications :

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density Glasswool
Jacket	: Aluminum
Barrier	: PET





# Flexiva aluminum air



- Outer surface is made of aluminum foil, inner surface is made of Metallized Opp and high tensile steel wire for heating ventilation and gas transition systems.
- Opp allows smooth inner surface and as a result it decreases pressure loss and provides hygienic environment which bacterias can not growth.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight, resistant to tear and wear.
- Flame retardant.
- No cause of poisonous gas in case of fire.



#### Technical Specifications :

Material	: Aluminum + Opp
Diameter Range	: Ø 52 mm – Ø 1000 mm
Temperature Range	: -30 °C / + 80 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 5000 Pa.
Class	: Flame retardant
Standard offer type	: Package / 10 m.

#### Insulated Air

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
Jacket	: Aluminum

#### SONO AIR

Made of micro perforated laminated aluminum foil + Opp which provides sound insulation and high tensile steel wire for heating ventilation and gas transition systems.

#### Technical Specifications :

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
Jacket	: Aluminum
Barrier	: PET









# Flexible solutions for ventilation

# Flexiva pvc joy

- Made of PVC film and high tensile steel wire for heating ventilation and gas transition systems.
- Suitable for low and medium pressure atmosphere.
- High resistant to physical strokes and tears.
- Air tight .
- Flame retardant.
- Ability to press and twist.
- No cause of poisonous gas in case of fire.

#### Technical Specifications :

Material	: 70 – 150 mic. thickness PVC
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Diameter Range	: Ø 52 mm – Ø 1000 mm
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Temperature Range	: -30 °C / + 80 °C
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Air Velocity	: Max. 30 m/sec.
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Operating Pressure	: Max. 2500 Pa.
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Standard offer type	: Package / 10 m.
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#### Insulated Joy

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
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Jacket	: PVC / AI / PE
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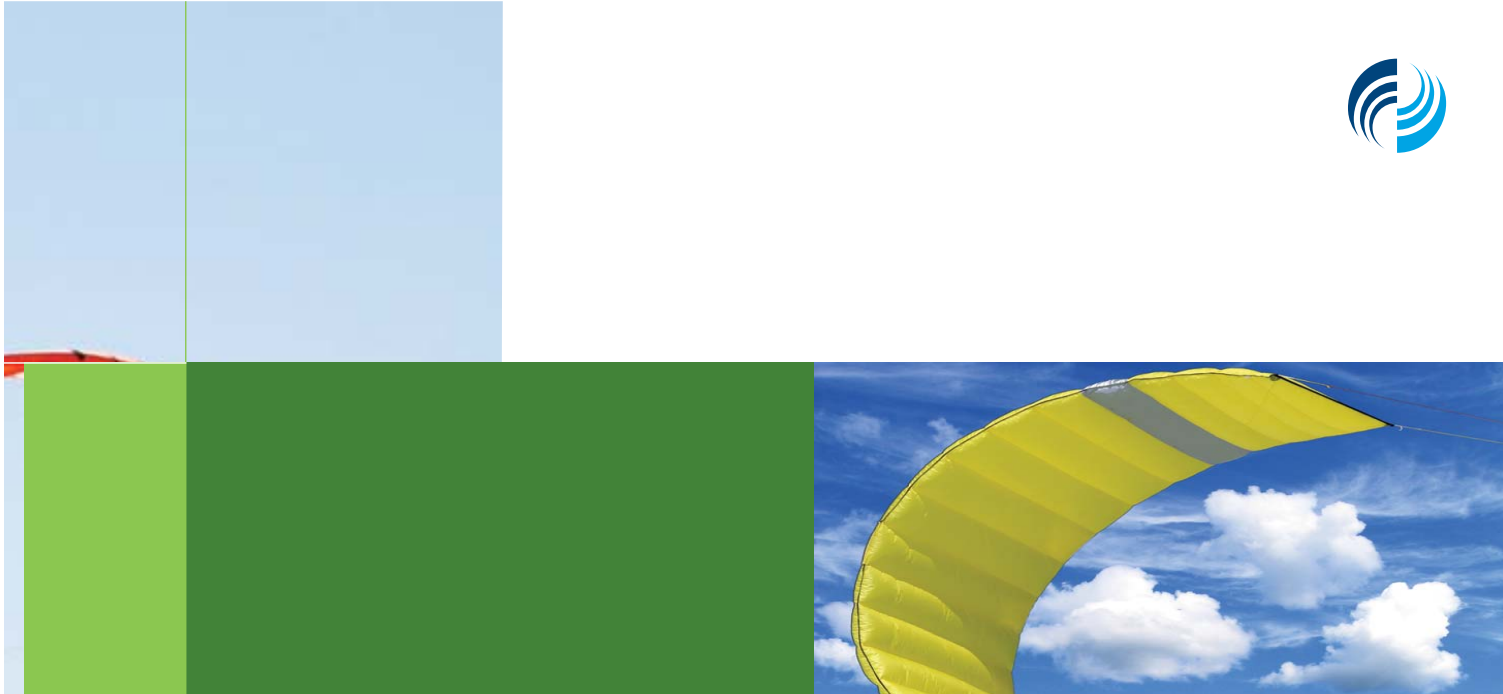






# Flexiva **pvc** **essi**





- Manufactured for heating ventilation and gas transition systems especially for industrial field which is carrying various particles.
- Made of 300/450 denier polyester fabric reinforced PVC and high tensile steel wire.
- Suitable for low and medium pressure atmosphere.
- High resistant to physical strokes and tears.
- Air tight .
- Flame retardant.
- Manufactured from antistatic material which provides particles not to stick.
- Ability to press and twist.

#### **Technical Specifications :**

Material : 300/450 denier polyester fabric reinforced PVC

Diameter Range : Ø 52 mm – Ø 1000 mm

Temperature Range : -30 °C / + 80 °C

Air Velocity : Max. 30 m/sec.

Operating Pressure : Max. 10.000 Pa.

Standard offer type : Package / 10 m.

#### **Insulated Essi**

Insulation : 25 mm – 100 mm thickness and 12–16 kg / m<sup>3</sup> density glasswool

Jacket : PVC / Al / PE







# Flexiva pvc swing

- Manufactured for heating ventilation and gas transition systems especially for industrial field which is carrying various particles.
- Made of 750 denier polyester fabric reinforced high weight in grams PVC and high tensile steel wire.
- Suitable for low and medium pressure atmosphere.
- High resistant to physical strokes and tears.
- Air tight .
- Flame retardant.
- Manufactured from antistatic material which provides particles not to stick.
- Ability to press and twist.

#### Technical Specifications :

Material	: 750 denier polyester fabric reinforced PVC
Diameter Range	: Ø 52 mm – Ø 1000 mm
Temperature Range	: -30 °C / + 80 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 15.000 Pa.
Standard offer type	: Package / 10 m.

#### Insulated swing

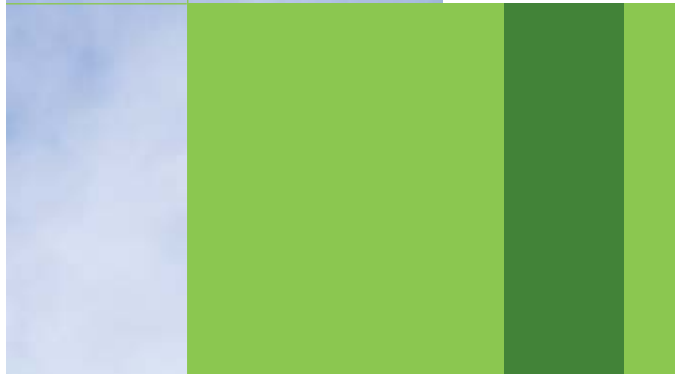
Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
Jacket	: PVC / AI / PE





Flexiva **pvc**  
**combi**





- Made of aluminum covered with PVC on outer surface and high tensile steel wire for heating ventilation and gas transition systems.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight, resistant to tear and wear.
- Flame retardant.
- No cause of poisonous gas in case of fire.

#### **Technical Specifications :**

Material	: Aluminum + PVC
Diameter Range	: Ø 52 mm – Ø 1000 mm
Temperature Range	: -30 °C / + 120 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 5000 Pa.
Standard offer type	: Package / 10 m.





Healthy air,  
quality life...





# Flexiva Metallized Opp meta







- Made of multi layer Metallized Opp and high tensile steel wire for heating ventilation and gas transition systems.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight.
- Economic.
- Non flame retardant, flammable
- No cause of poisonous gas in case of fire.



#### **Technical Specifications :**

Material	: Metallized Opp
Diameter Range	: Ø 52 mm – Ø 610 mm
Temperature Range	: -30 °C / + 80 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 2500 Pa.
Standard offer type	: Package / 10 m.

#### **Insulated Meta**

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
Jacket	: Metallized Opp

# Flexiva polyester dia

- Made of multi layer polyester and high tensile steel wire for heating ventilation and gas transition systems.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.
- Air tight.
- Economic.
- Non flame retardant, flammable
- No cause of poisonous gas in case of fire.

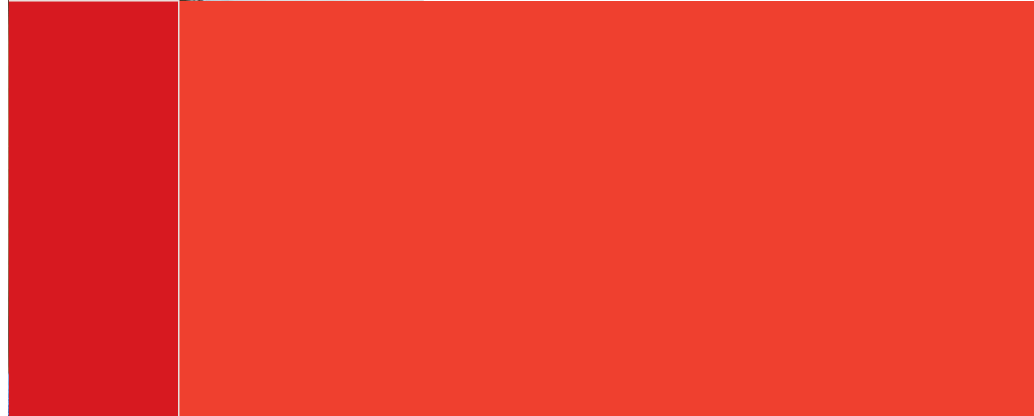
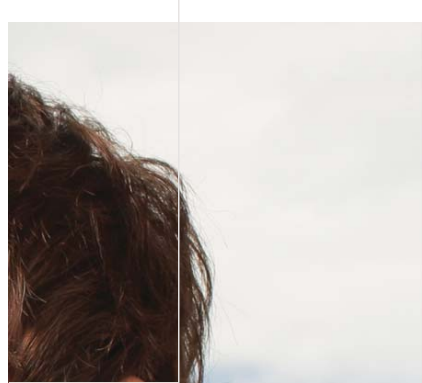
#### Technical Specifications :

Material	: Polyester
Diameter Range	: Ø 52 mm – Ø 610 mm
Temperature Range	: -30 °C / + 80 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 2500 Pa.
Class	: Non flame retardant, flammable
Standard offer type	: Package / 10 m.

#### Insulated Dia

Insulation	: 25 mm – 100 mm thickness and 12–16 kg / m <sup>3</sup> density glasswool
Jacket	: Metallized Opp





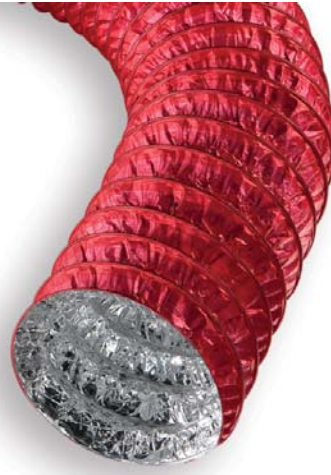




Clean air,  
high performance









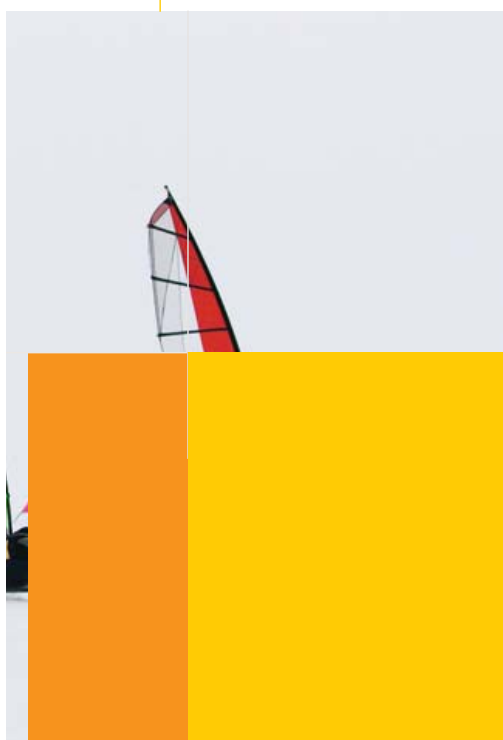


# Flexiva colour show

- Made of coloured polyester covering on aluminum or Opp (on demand) and high tensile steel wire.
- Manufactured for decorative purposes in heating ventilation systems.
- Suitable for low and medium pressure atmosphere.
- Ability to press and twist.

#### Technical Specifications :

Material	: Alu + Opp
Diameter Range	: Ø 52 mm – Ø 610 mm
Temperature Range	: -30 °C / + 80 °C
Air Velocity	: Max. 30 m/sec.
Operating Pressure	: Max. 2500 Pa.
Standard offer type	: Package / 10 m.





A technology  
makes you feel better











# Flexiva connector

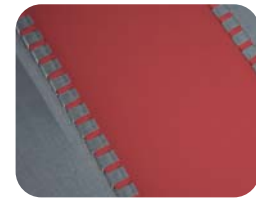
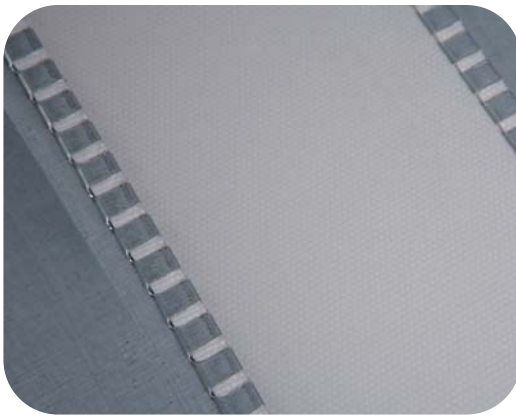
## Flexiva Connector

- Flexible Connector prevents vibration and sound to transfer the galvanized duct which carries air in heating ventilation systems.
- The material which is placed between two galvanized sheet is locked with multi lock system. Never separates each other.
- Air tight.
- Easy application for corner, square, oval and round connection areas.

### Standard dimensions

35 mm	x	60 mm	x	35 mm
45 mm	x	60 mm	x	45 mm
45 mm	x	75 mm	x	45 mm
70 mm	x	100 mm	x	70 mm

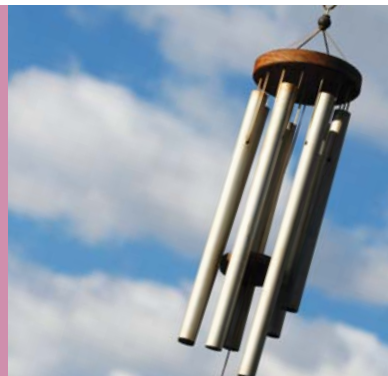
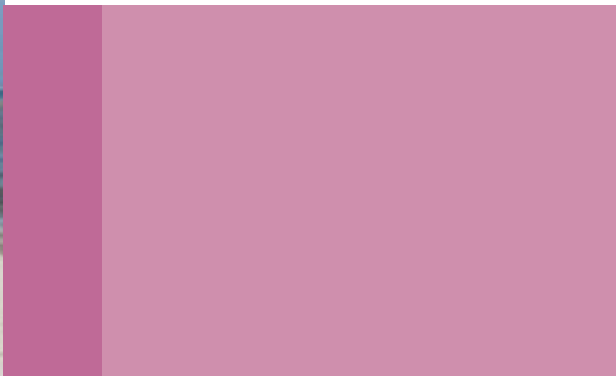
\* Other dimensions and lengths are available on request.



### Flexiva PVC Connector

- Material : 0,40 mm galvanized sheet, 750 denier polyester fabric reinforced PVC.
- Flame Resistance : Flame retardant.
- Temperature Range : -30 °C / + 80 °C
  - Resistant to UV rays
  - High resistant to tear and stretch
  - Air tight.
- Standard offer type : Package / 25 m.





### Flexiva Canvas Connector

Material	: 0,40 mm galvanized sheet, 500 gr/m <sup>2</sup> humidity proof canvas fabric.
Flame Resistance	: Flammable
Temperature Range	: -30 °C / + 120 °C
	High resistant to tear and stretch
	Air tight.
	Water proof.
	High resistant to humidity.
	Resistant to UV rays.
Standard offer type	: Package / 25 m.



### Flexiva Non combustible Connector

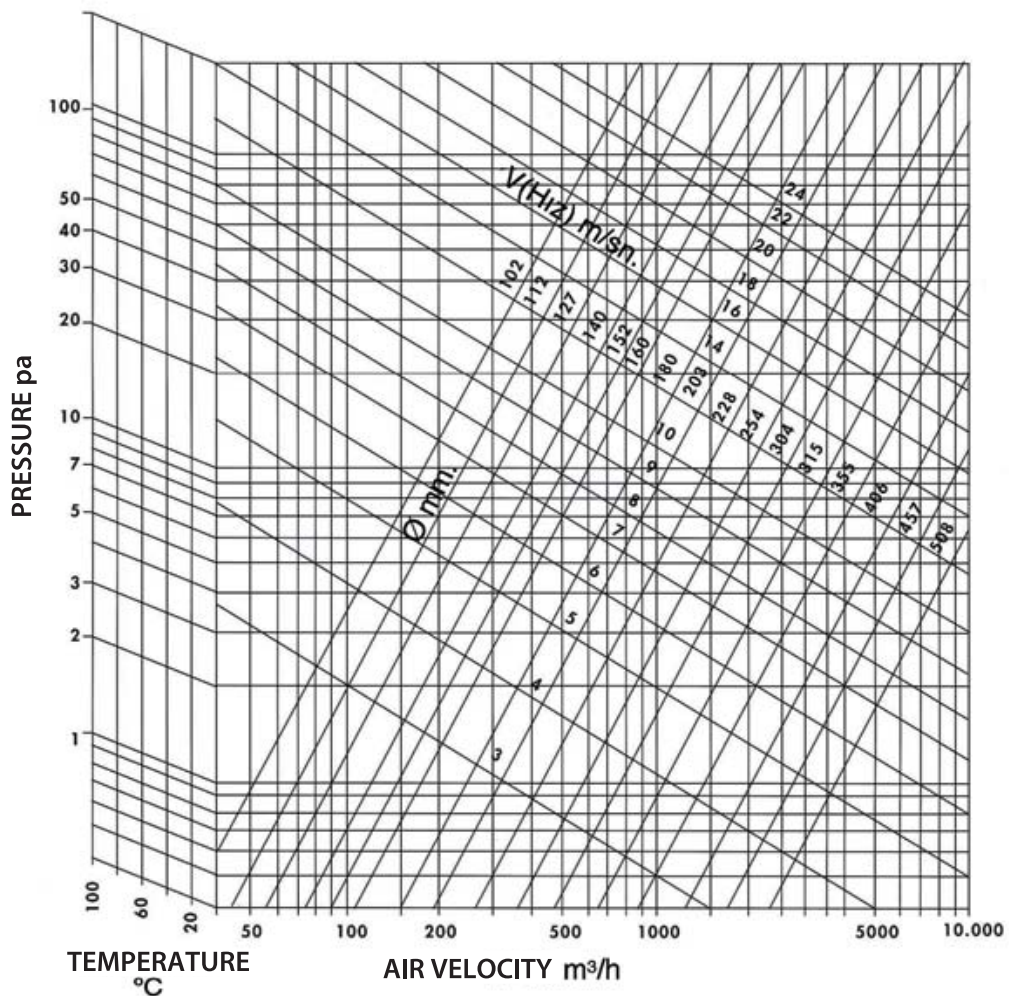
Material	: 0,40 mm galvanized sheet, 650 gr/m <sup>2</sup> both side silicone coated non-combustible and humidity proof glassfiber woven fabric.
Flame Resistance	: Non combustible.
Temperature Range	: -30 °C / + 450 °C
	Resistant to UV rays.
	Air tight.
	Water proof.
Standard offer type	: Package / 25 m.



### Flexiva Neoprene Connector

Material	: 0,40 mm galvanized sheet, flame retardant neoprene
Flame Resistance	: Flame retardant.
Temperature Range	: -30 °C / + 110 °C
	High resistant to chemicals.
	Air tight.
	High resistant to tear and stretch.
Standard offer type	: Package / 25 m.

# Pressure Loss Diagram









**Flexiva**  
Ventilation Systems

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