



ARGAS
GROUP

ALUMINUM

izol esbo



izol esbo



izol esbo



eko esbo



eko esbo⁺



lux esbo



MO esbo



met esbo



PVC

gr esbo



luxgr esbo



gr esbo⁷⁰

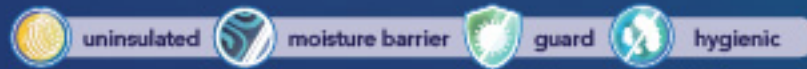


gr esbo¹⁰⁰



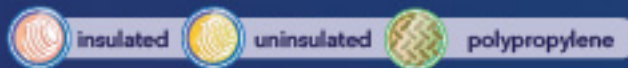
ALUMINUM + PVC

combi esbo



NON-WOVEN POLYPROPYLENE FABRIC CLOTH

now esbo



Unique, Quality, Next-Gen



ESBO offers a range of products that are specialized for use cases, designed with the latest technology, accessible and of high quality.

To find the best solutions for your needs, visit our website.
esbo.com.tr

esbo

izol **esbo**

eko **esbo**

eko **esbo**⁺

lux **esbo**

MO **esbo**

now **esbo**

met **esbo**

gr **esbo**⁷⁰

gr **esbo**¹⁰⁰

gr **esbo**

luxgr **esbo**

combi **esbo**

Globally Patented Products
International Certificates
Industry Leading Innovative Solutions
Professional Technical Team
Constant R&D Efforts



izol esbo FIBERWOOL



fully laminated

Self-isolated product technology.



fiberwool

Fully laminated coated fiber insulation material on the duct



flame retardant

CSTB M1 certified



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



Fully lamination prevents the product from gathering or dusting and forming a thermal bridge.



It can be customized according to different use cases with its design that allows modification.



This product, which is flame-retardant (M1) from the factory, withstands a pressure of 5.000 Pa according to TSE standards.



İZOLESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters.



It is unique in its field thanks to its fully laminated self-isolation.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material

Aluminum + Polyester

Insulation Material

Fiberwool - 20 mm 270 gr/m²

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

Max. 30 m/s

Diameter Range

Ø 102 mm - Ø 356 mm

Temperature Range

-30°C / +150°C

Operating Pressure

Max. 5.000 Pa

Standard Length

10 m

Fire Classification

Flame Retardant (M1)



izol **esbo** RUBBER



fully laminated

Self-isolated product technology.



rubber

Fully laminated coated rubber insulation material on the duct



flame retardant

CSTB M1 certified



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



Fully lamination prevents the product from gathering or dusting and forming a thermal bridge.



It can be customized according to different use cases with its design that allows modification.



This product, which is flame-retardant (M1) from the factory, withstands a pressure of 5.000 Pa according to TSE standards.



İZOLESBÖ is airtight, resistant to stretching and impact.



Standard packaging is 7,5 meters.



It is unique in its field thanks to its fully laminated self-isolation.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material

Aluminum + Polyester

Insulation Material

Rubber - 6 mm 35 kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

30 m/s

Diameter Range

Ø 102 mm - Ø 610 mm

Temperature Range

-30°C / +150°C

Operating Pressure

Max. 5.000 Pa

Standard Length

7,5 m

Fire Classification

Flame Retardant (M1)

izol **esbo** POLYETHYLENE



fully laminated

Self-isolated product technology.



polyethylene

Fully laminated coated polyethylene insulation material on the duct



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



Fully lamination prevents the product from gathering or dusting and forming a thermal bridge.



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 5.000 Pa according to TSE standards.



İZOLESBÖ is airtight, resistant to stretching and impact.



Standard packaging is 7,5 meters.



It is unique in its field thanks to its fully laminated self-isolation.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material

Aluminum + Polyester

Insulation Material

Polyethylene - 6 mm 55 kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

30 m/s

Diameter Range

Ø 102 mm - Ø 610 mm

Temperature Range

-30°C / +150°C

Operating Pressure

Max. 5.000 Pa

Standard Length

7,5 m

Fire Classification

-





HYGIENIC

Hygienic products are %99,9 antimicrobial according to Ekoteks Laboratory results, thanks to the special inner coating.



insulated

Heat insulation design



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 5.000 Pa according to TSE standards.



EKOESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

Aluminum + Polyester

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +80°C

Operating Pressure

Max. 5.000 Pa

Standard Length

10 m

Fire Classification

-



TS EN 13180



insulated

Heat insulation design



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 5.000 Pa according to TSE standards.



EKOESBO Plus is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

Aluminum + Polyester

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +120°C

Operating Pressure

Max. 5.000 Pa

Standard Length

10 m

Fire Classification

-



TS EN 13180

12.000 m² of manufacturing facilities

Esbo flexible air ducts are manufactured at ISIL Inc.'s 12,000 m² facility in Istanbul. These products are exported to over 50 countries across the globe.

R&D and Innovation

Esbo's R&D department drives the development of its entire product line and production technology. Continual investment in new technologies, guided by IŞIL Inc.'s commitment to "Sustainable Development" reinforces Esbo's position as the market's leading innovation-oriented brand.



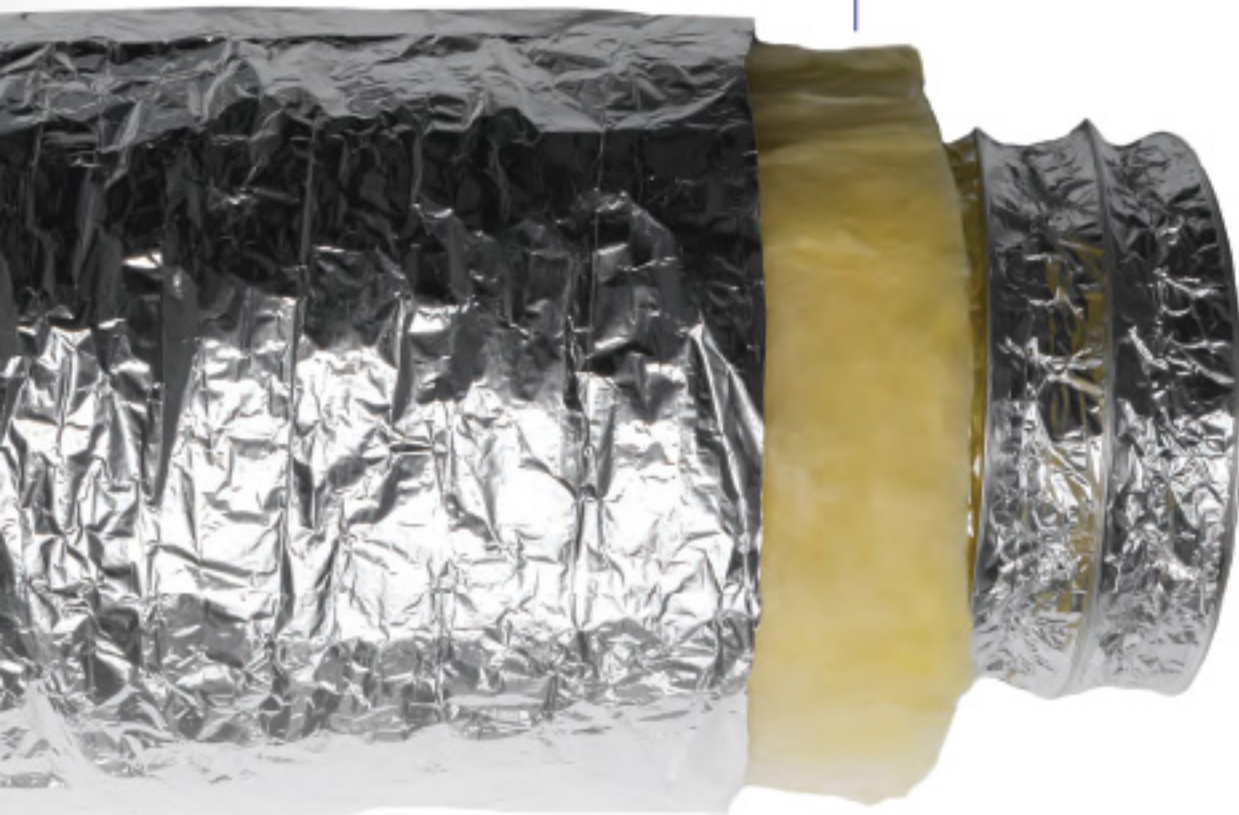
flame retardant

CSTB M1 certified



insulated

Heat insulation design



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



This product, which is flame-retardant (M1) from the factory, withstands a pressure of 5.000 Pa according to TSE standards.



LUXESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

Aluminum + Polyester

Insulation Material

Glasswool - 16kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

30 m/s

Çap Aralığı

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +150°C

Operating Pressure

Max. 5.000 Pa

Standart Length

10 m

Fire Classification

Flame Retardant (M1)



EN 13501-1C
s1,d0



RoHS



TS EN 13180



BS 476
PART 7&30



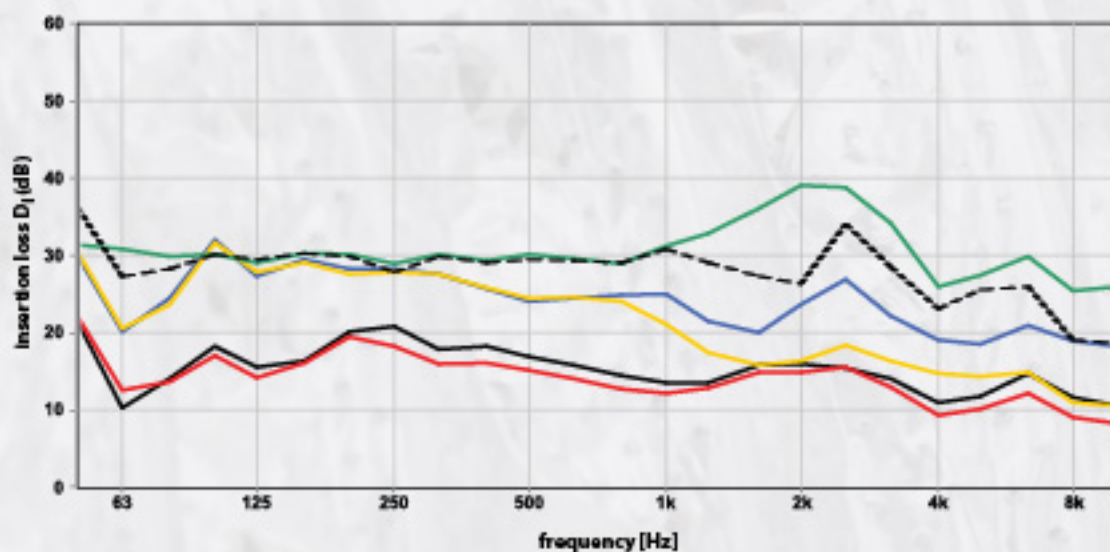


SONO

Flexible air ducts that **provide sound insulation** thanks to their perforated designs on their inner surfaces.

| NR. | Rec-Nr. | DESCRIPTION |
|-----|---------|--|
| 2 | #72 | Invoag; LUXESBO Sono 1,1 m rond 203 (flush rond 200) |
| 3 | #73 | Invoag; M0ESBO Sono 1,1 m rond 203 (flush rond 200) |
| 4 | #74 | Invoag; LUXESBO Sono 2 m rond 203 (flush rond 200) |
| 5 | #75 | Invoag; M0ESBO Sono 2 m rond 203 (flush rond 200) |
| 6 | #76 | Invoag; LUXESBO Sono 3 m rond 203 (flush rond 200) |
| 7 | #77 | Invoag; M0ESBO Sono 3 m rond 203 (flush rond 200) |

| Rec.nr | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------|----|
| #72 | 13,3 | 16,6 | 19,4 | 16,9 | 13,8 | 15,7 | 12,1 | 11,9 | dB |
| #73 | 14,5 | 15,6 | 17,6 | 15,1 | 12,6 | 15,1 | 10,5 | 9,5 | dB |
| #74 | 23,3 | 29,2 | 28,1 | 24,7 | 23,5 | 22,6 | 19,6 | 19,2 | dB |
| #75 | 23,4 | 29,2 | 27,6 | 24,9 | 20,0 | 16,7 | 15,0 | 11,7 | dB |
| #76 | 30,6 | 29,8 | 29,7 | 29,7 | 30,7 | 37,8 | 28,0 | 26,6 | dB |
| #77 | 29,2 | 30,0 | 29,1 | 29,3 | 29,5 | 28,2 | 25,2 | 20,2 | dB |





fireproof

CSTB M0 certified



insulated

Heat insulation design



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



This product, which is fireproof (M0) from the factory, withstands a pressure of 5.000 Pa according to TSE standards.



M0ESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters.
Varies according to customer demand



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

Aluminum + Polyester

Insulation Material

Glasswool - 16kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +250°C

Operating Pressure

Max. 5.000 Pa

Standard Length

10 m

Fire Classification

Fireproof (M0)





insulated

Heat insulation design



economic

High quality with affordable prices.



Add-on Features



sono

Perforated inner surface designed for sound insulation.



hygienic

According to the results of Ekoteks laboratory, it has 99.9% antimicrobial properties.



guard

It plays an active role in protection from the danger of coronavirus.



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 2.500 Pa according to TSE standards.



METESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

Metallized Polyester

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

Metallized Polyester

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +80°C

Operating Pressure

Max. 2.500 Pa

Standard Length

10 m

Fire Classification

-



TS EN 13180



insulated

Heat insulation design



Add-on Features



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 2.500 Pa according to TSE standards.



GRESBO is airtight, resistant to stretching and impact.



Standard packaging is 6 meters. Varies according to customer demand.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

PVC - 70 micron

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

LDPE Film - 45 micron

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +80°C

Operating Pressure

Max. 2.500 Pa

Standard Length

6 m

Fire Classification

-



TS EN 13180



insulated

Heat insulation design



Add-on Features



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 2.500 Pa according to TSE standards.



GRESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

PVC - 100 micron

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

LDPE Film - 90 micron

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +80°C

Operating Pressure

Max. 2.500 Pa

Standard Length

10 m

Fire Classification

-

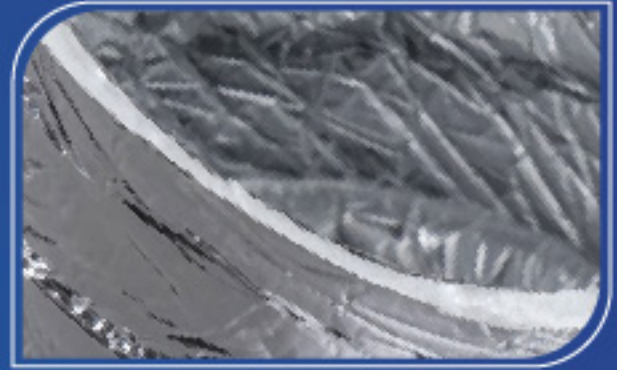


TS EN 13180

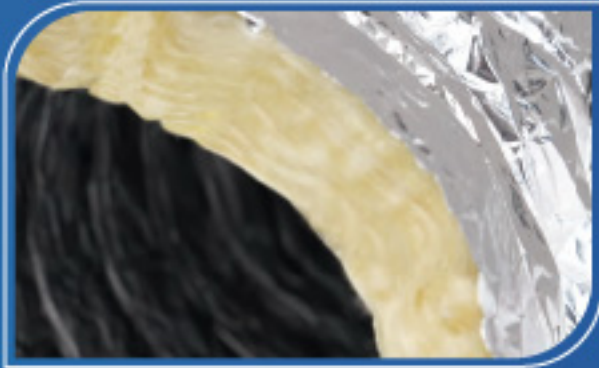
INSULATION



rubber



polyethylene



glasswool



fiberwool

Features that provide thermal insulation with
rubber, polyethylene, glass wool or fiber insulation



BLACK

Black outer coating for cosmetic purposes.

eko esbo

eko esbo

lux esbo

MO esbo

met esbo

now esbo





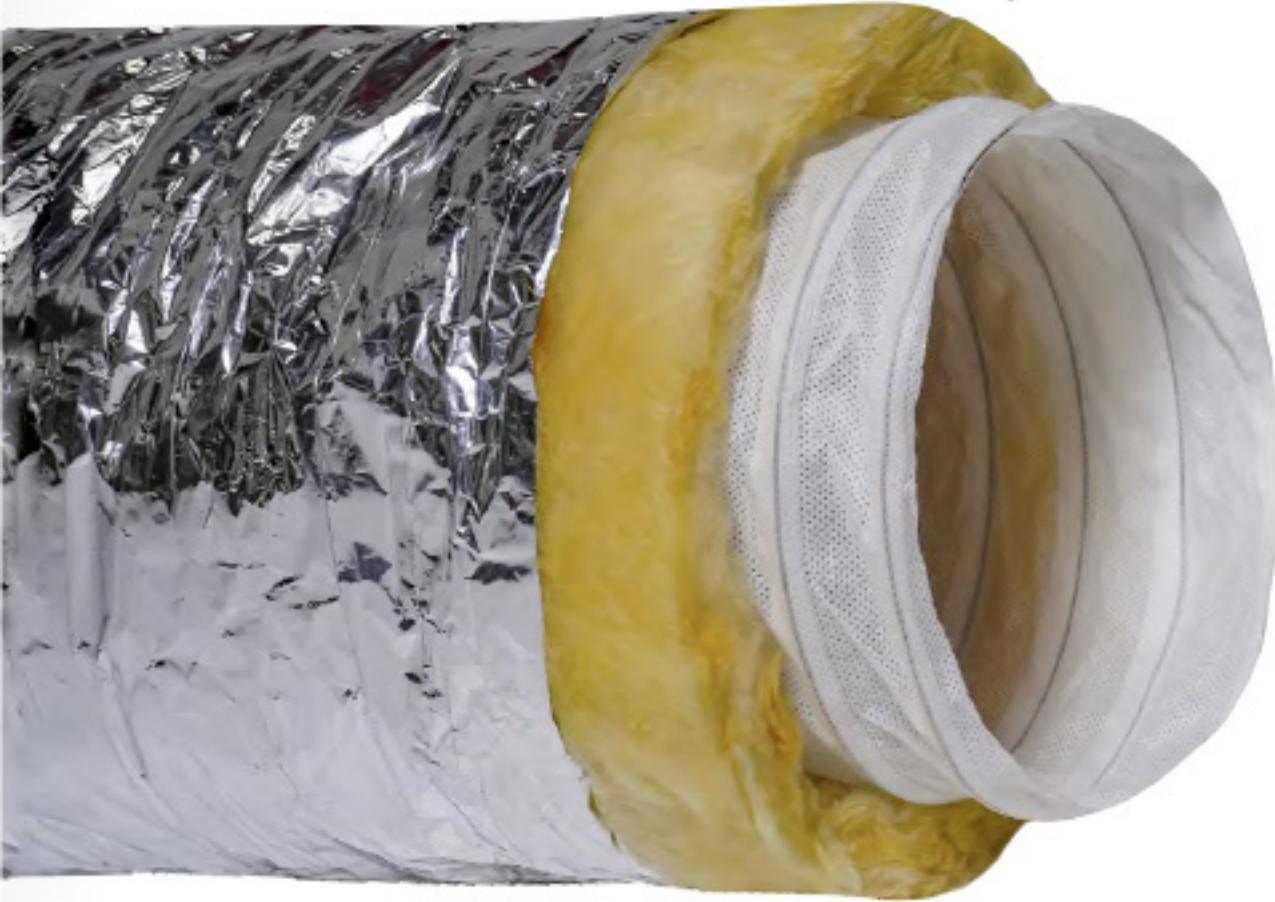
insulated

Heat insulation design



polypropylene

Non-woven Polypropylene
fabric cloth



Add-on Features



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 2.500 Pa according to TSE standards.



NOWESBO is resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

Non-woven Polypropylene fabric cloth

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

Aluminum + Polyester

Operating Air Velocity

25 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +140°C

Operating Pressure

Max. 2.500 Pa

Standart Length

10 m

Fire Classification

-



moisture barrier

Exterior surface that is not
affected by moisture



uninsulated

Standard flexible air duct





It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 5.000 Pa according to TSE standards.



COMBIESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material

Aluminum + PVC

Insulation Material

-

Outer Jacket

-

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +120°C

Operating Pressure

Max. 5.000 Pa

Standart Length

10 m

Fire Classification

-



TS EN 13100



insulated

Heat insulation design



300 denier PVC

300 denier, particle and
tear-resistant inner duct



Add-on Features



uninsulated

Standard flexible air duct



PARTICLE RESISTANT FLEXIBLE AIR DUCT (300 DENIER)



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 10.000 Pa according to TSE standards.



GRESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

PVC-300 denier polyester fabric

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

Aluminum + Polyester / PVC

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +80°C

Operating Pressure

Max. 10.000 Pa

Standard Length

10 m

Fire Classification

-



TS EN 12190



insulated

Heat insulation design



750 denier PVC

750 denier, particle and
tear-resistant inner duct



Add-on Features



uninsulated

Standard flexible air duct



It can be customized according to different use cases with its design that allows modification.



Withstands a pressure of 10.000 Pa according to TSE standards.



LUXGRESBO is airtight, resistant to stretching and impact.



Standard packaging is 10 meters. Varies according to customer demand



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.



Standard insulation material is glasswool 25 mm (R-4.2). Can also be 40 mm (R-6), 50 mm (R-8) and fiberwool according to customer demand.

Material

PVC-750 denier polyester fabric

Insulation Material

Glasswool - 16 kg/m³

Outer Jacket

Aluminum + Polyester / PVC

Operating Air Velocity

30 m/s

Diameter Range

Ø 76 mm - Ø 610 mm

Temperature Range

-30°C / +80°C

Operating Pressure

10.000 Pa

Standard Length

10 m

Fire Classification

-



TS EN 13100

KUGAR



flame retardant

PVC KUGAR

KUGAR

KUGAR with 750 denier PVC material, galvanized or stainless steel sheet options for use in duct applications.



0,40 mm galvaniz / stainless sheet,
750-PVC denier polyester fabric



This product, which is flame retardant from the factory, is resistant to temperatures up to 80°C.



Airtight, resistant to stretching and impact.



PVC KUGAR product is airtight and resistant to UV rays.



Standard packaging is 25 meters.



It is an environmentally friendly product produced within the framework of the KUGAR sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material
PVC

Sheet
Galvanise / Stainless

Temperature Range
-30°C / +80°C

Standart Length
25 m

Fire Classification
Flame Retardant



KUGAR

esbo.com.tr

CANVAS KUGAR

KUGAR

KUGAR with moisture-proof canvas weaving, galvanized or stainless steel options for use in duct applications.



0,40 mm galvaniz / stainless sheet,
500 gr/m² moisture-proof canvas woven
fabric



Is resistant to temperatures up to 80°C.



Airtight, resistant to stretching and
impact.



Canvas KUGAR product is airtight and
resistant to UV rays.



Standard packaging is 25 meters.



It is an environmentally friendly product
produced within the framework of the
ESBO sustainability program.



It is not affected by humidity and does not
cause allergic effects.

Material
Canvas

Sheet
Galvaniz / Stainless

Temperature Range
-30°C / +80°C

Standart Length
25 m

Fire Classification
-

KUGAR



fireproof

500 C°

SILICON FIREPROOF KUGAR

KUGAR

KUGAR with fireproof and moisture-proof glass fiber woven canvas material, galvanized or stainless steel sheet options for use in duct applications.



570 gr/m² Silicon coated on both sides, fireproof and moisture proof glass fiber woven fabric



This product, which is fireproof from the factory, is resistant to temperatures up to 260°C.



Airtight, resistant to stretching and impact.



Silicon Fireproof KUGAR product is airtight and resistant to UV rays.



Standard packaging is 25 meters.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material
Silicon

Sheet
Galvaniz / Stainless

Temperature Range
-30°C / +260°C

Standart Length
25 m/ kutu

Fire Classification
Fireproof

KUGAR



fireproof

500 C°

PU FIREPROOF KUGAR

KUGAR

KUGAR with PU material on both sides, galvanized or stainless steel options for use in duct applications.



530 gr/m² PU coated on both sides, fireproof and moisture proof glass fiber woven fabric



This product, which is fireproof from the factory, is resistant to temperatures up to 100°C.



Airtight, resistant to stretching and impact.



PU Fireproof KUGAR product is airtight and resistant to UV rays.



Standard packaging is 25 meters.



It is an environmentally friendly product produced within the framework of the ESBO sustainability program.



It is not affected by humidity and does not cause allergic effects.

Material
Polyurethane

Sheet
Galvaniz / Stainless

Temperature Range
-30°C / +100°C

Standart Length
25 m

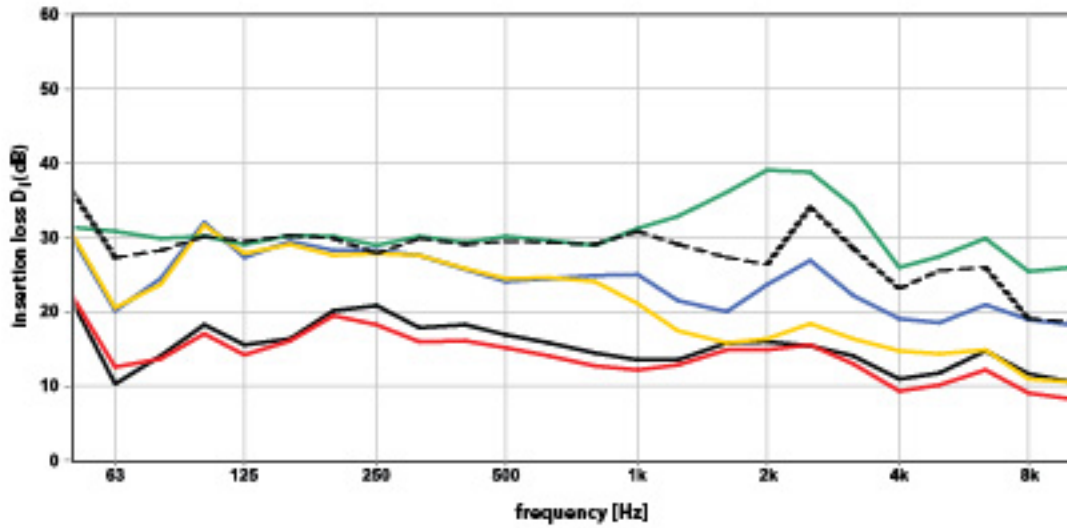
Fire Classification
Fireproof

SILENCER

Applicable Products



Standard Length
0,5 m / 1 m / 2 m



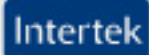
CERTIFICATES



This certificate is the classification that reports the reaction of the material to flame.



This certificate is the classification that reports the reaction of the material to flame.



UL 181 Section 11 certification is the safety standard for factory-made air ducts and connectors.



Italian Class 1 certificate is a certificate issued by the Italian Ministry of Interior according to the measurement of the flame resistance of the products.



Our products with Sono feature are certified for sound insulation.



Our hygienic certified products are 99,9% antimicrobial.



The EN 13501-1 European Standard is the standard that classifies the fire resistance and response of products and materials.



The EN 13501-1 European Standard is the standard that classifies the fire resistance and response of products and materials.



It is the standard for dimensions and mechanical properties for ventilation of buildings, air ducts and flexible ducts.



RoHS is the European Union's directive that restricts the use of hazardous substances in electrical and electronic equipment.



BS 476 is the British standard for combustion tests on building materials and structures.

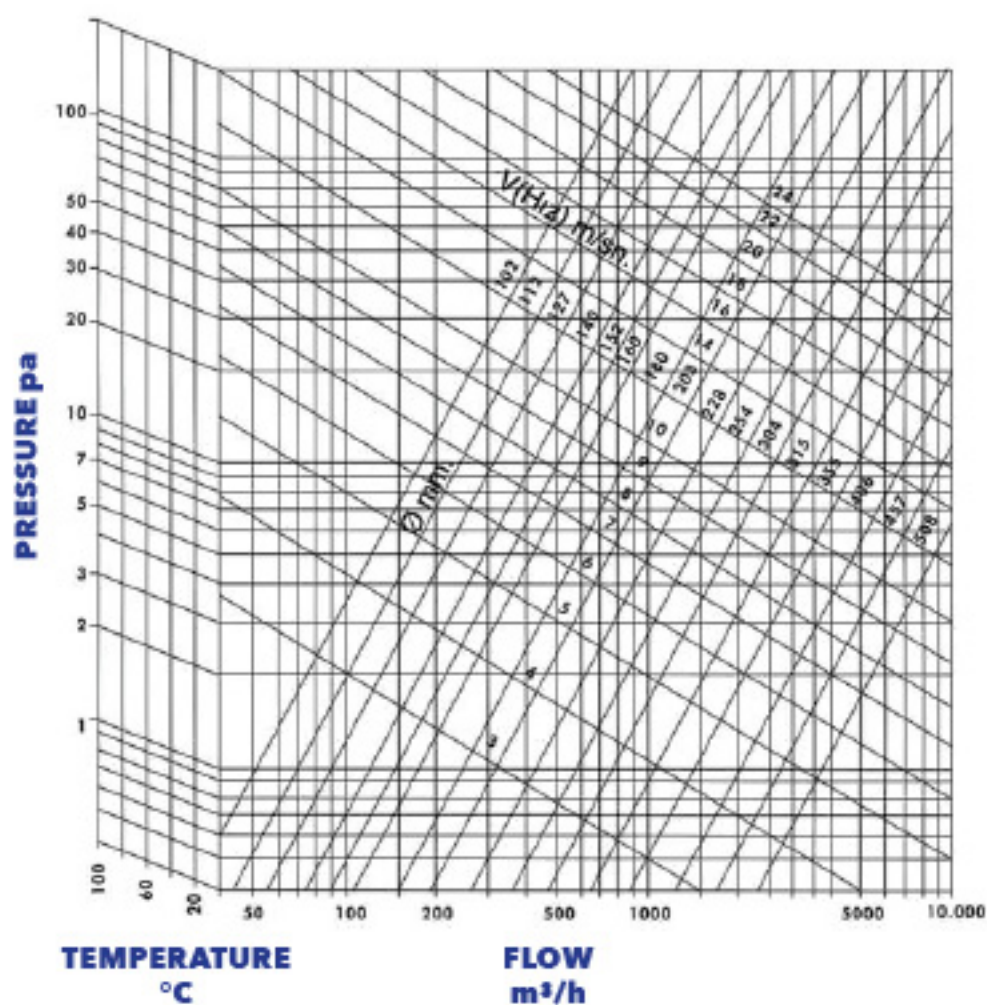


ISO 9001 is the international standard for quality control systems.



It is a certificate given to products produced in accordance with ecological product criteria.

PRESSURE LOSS DIAGRAM





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ARGAS
GROUP



esbo.com.tr