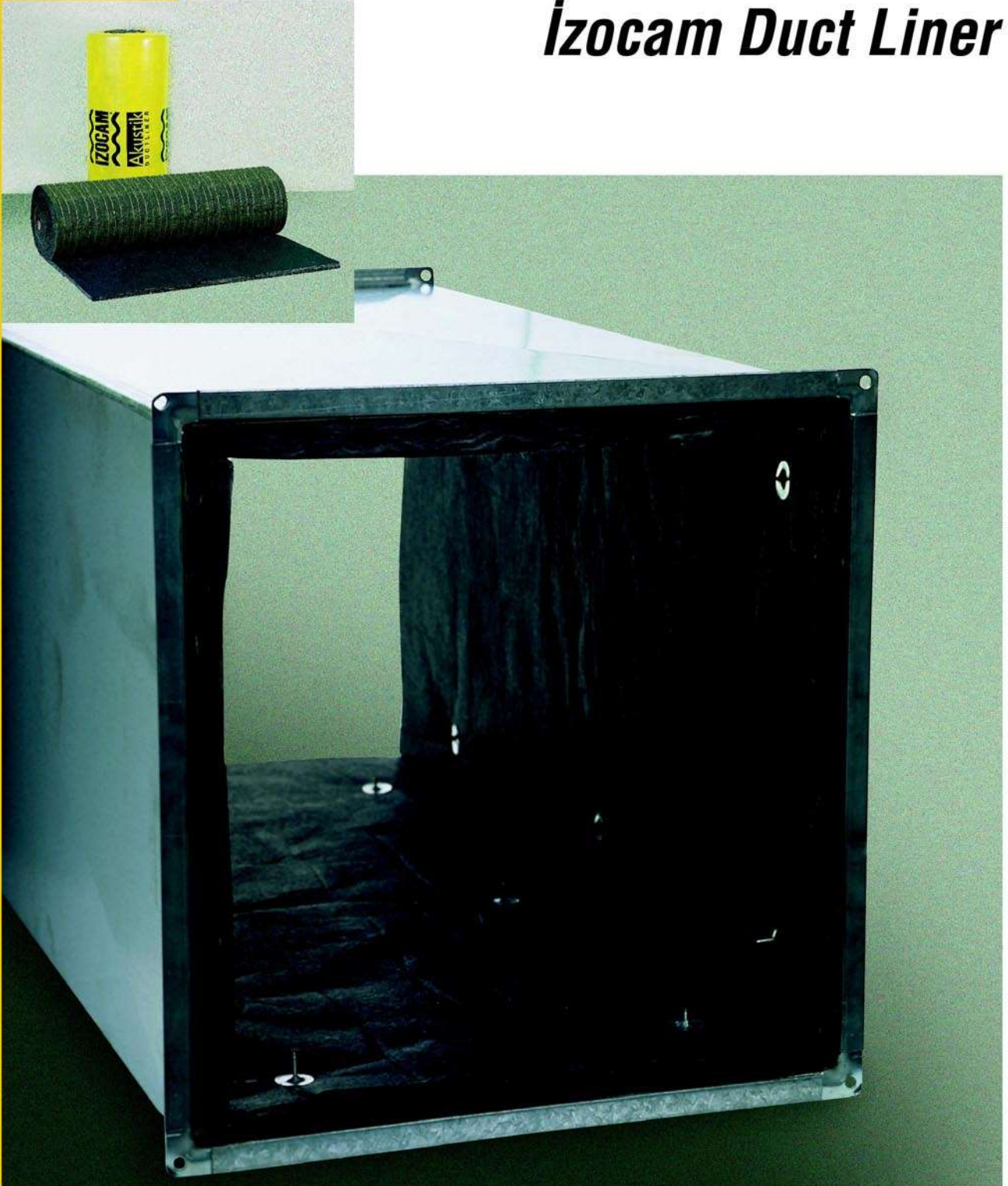


MANUFACTURED UNDER LICENCE OF ISOVER SAINT-GOBAIN

# *İzocam Duct Liner*



*“Sound and Thermal Insulation of Duct System”*

**İZOCAM**<sup>®</sup>  
G L A S S W O O L

## Description :

- Izocam Duct Liner is designed for internal thermal and sound insulation of duct systems. Izocam Duct Liner is manufactured as resilient black glass fibre blankets laminated with acrylene facing.
- Izocam Duct Liner is marketed as compressed rolls with bobbin inside in polyethylene shrink wrap.

## Specifications :

### Dimensions:

Thickness (cm.)	Length x Width (cm.)	m <sup>2</sup> / Packing
2,5	122 x 1600	19,52

Special thickness and dimensions are available according to request.

### Thermal Conductivity and Resistance:

$\lambda$ (W/mK at 10 °C)	0,034
k (Btu in / ft <sup>2</sup> . h . °F)	0,02
R (m <sup>2</sup> K/W)	0,74
R (ft <sup>2</sup> . h . °F/ Btu)	4,2

- Surface Burning Characteristics :**  
According to ASTM E 84;  
Flame Spread < 25  
Smoke Developed < 50
- Temperature Limit:**  
Maximum working temperature must not exceed 121 °C (250 °F).
- Maximum Velocity:**  
Maximum air velocity must not exceed 12 m/s. (Safety factor is 2,5)
- Izocam Duct Liner has sound insulating property.

### Sound absorption coefficient, $\alpha$ :

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
$\alpha$	0,07	0,30	0,65	0,81	0,91	0,99	0,65

## Advantages :

- Thermal insulation minimizes operation costs by reducing heat gain or loss from the surfaces of the metal duct.
- System can function under reduced load, due to the conservation of heating or cooling energy.

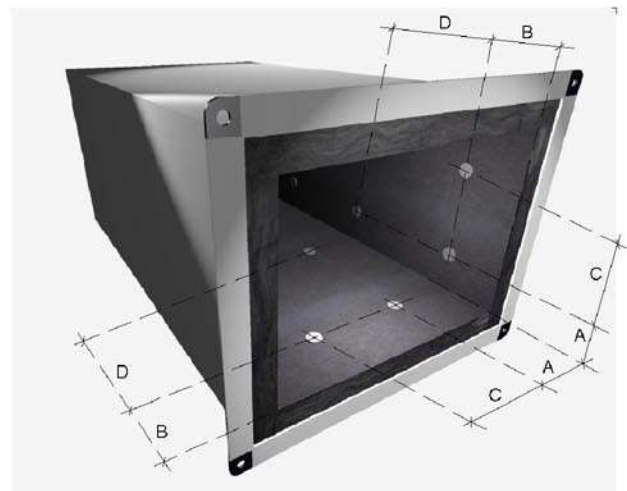
- Duct Liner is light in weight, easy to cut and applies to over flat or curved surfaces, elbows, T or Y joints and other surfaces.
- Duct Liner does not absorb moisture from the ambient air or water by capillary attraction. Only water under pressure can enter the insulation products, but that will quickly dry out from the materials fibre structure.
- The tough interior surface makes it easier to clean the Duct Liner using methods and equipment described in North American Insulation Manufacturers Association (NAIMA).
- Neat and perfect appearance after insulation.
- Izocam Duct Liner is easily applied with self adhesive pins, over the elbows and along the duct system.

## Application :

- Before applying Izocam Duct Liner, duct surface should be clean, dry and free from dust and grease.
- Longitudinal joints and tears should be close butted and sealed with sealant or adhesive.
- Length of pins should assure a maximum 10% compression of Duct Liner thickness.
- Distance between fasteners are changing with the air velocity as shown below;

### Mechanical Fastener Spacing

Velocity (m/s) [feet/minute]	0 - 12,7 ( 0 - 2500)
A	102 mm. (4")
B	76 mm. (3")
C	305 mm. (12")
D	457 mm. (18")







*Measure the dimensions of the duct.*



*Do the marking in accordance with measured dimensions on the Duct Liner.*



*Cut to shape the Duct Liner.*



*Affix mechanical fastener pins in accordance with manufacturers instructions.*



*Apply suitable adhesive to duct surface before positioning Duct Liner over mechanical fastener pins.*



*Apply the shaped Duct Liner over the mechanical fastener pins. Fit the washers or caps to pins and snip off excess shank of pins.*

## Quality Control:

- Izocam Glasswool is manufactured in conformity with the Turkish Standard TS 901 "Fibrous Thermal and Sound Insulation Materials" and are under continuous quality inspection of the "Institute of Turkish Standards". They also comply with International Standards.

## Recommendations:

- Izocam insulation products which are stored outside must be kept dry.
- Izocam, the manufacturer, reserves the right to alter product specifications without prior notice.
- Izocam Glasswool products are manufactured under the license of Isover Saint-Gobain, France.
- Izocam is granted with the "Quality Approval Certificates" of the Institute of Turkish Standards, BVQI, Chamber of Mechanical Engineers and Chamber of Civil Engineers of Turkey.
- Izocam also manufactures special products upon request.
- For your requirements, you are requested to contact our Export Department in Gebze, Kocaeli-Turkey.

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