



INSULATES THE FUTURE



TURKEY EPD®
THE INTERNATIONAL EPD® SYSTEM



ISO 9001
ISO 27001
ISO 14001
ISO 50001
OHSAS 18001

CE
EN 13162
EN 14303



GLASS WOOL

STARFLEX

ODE



Blanket, Board & Prefabricated Pipe



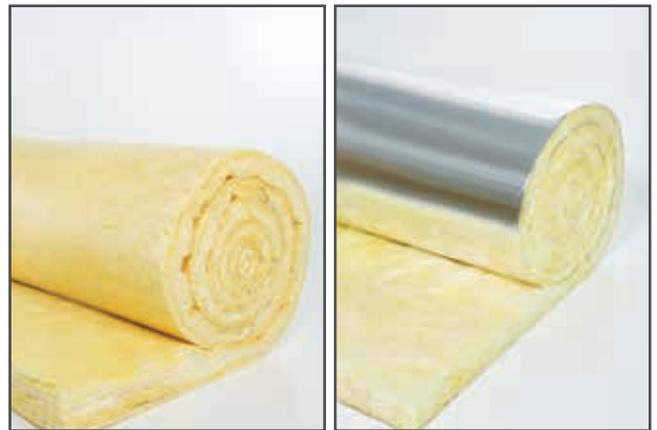
BUILDING INSULATION

ODE STARFLEX ROLL

The roll is made of silica sand molten into fiber at high temperature. It is used for thermal insulation, sound insulation and acoustic arrangements and fire safety.

Thermal Conductivity Coefficient range of Ode Starflex Roll is $\lambda = 0.044-0.032 \text{ W/mK}$.

Density kg/m ³	Thickness mm	Thermal Conductivity $\lambda \text{ W/(mK)}$	Thermal Resistance R m ² K/W
12-18	50	0,040-0,035	1,25-1,40
	80		2,00-2,25
	100		2,50-2,85
	120		3,00-3,40
	150		3,75-4,25



Application Areas:

- Roofing
- Prefabric Houses
- Partition Walls
- Hangars
- Sandwich Panel
- Chicken Farms
- Backloading of Ceiling
- Backloading of Facade

Facing:

Unfaced (UF), Foil Scrim Kraft (FSK), Kraft Paper (Kraft), Yellow Glass Tissue (YGT), White Metalized Scrim Kraft (WMSK)



ODE STARFLEX BOARD

Thermal Conductivity Coefficient range of Ode Starflex Board is $\lambda = 0.037-0.031 \text{ W/mK}$.

Density kg/m ³	Thickness mm	Thermal Conductivity $\lambda \text{ W/(mK)}$	Thermal Resistance R m ² K/W
22-100	20	0,035-0,031	0,55-0,60
	30		0,85-0,95
	40		1,10-1,25
	50		1,40-1,60



Application Areas:

- Roofing
- Partition Walls
- Sandwich Panel
- Backloading of Facade
- Prefabric Houses
- Chicken Farms
- Hangars

Facing:

Unfaced (UF), Foil Scrim Kraft (FSK), Kraft Paper (Kraft), Yellow Glass Tissue (YGT), White Metalized Scrim Kraft (WMSK)



TECHNICAL INSULATION

ODE STARFLEX ROLL

Thermal Conductivity Coefficient range of Ode Starflex Roll is $\lambda = 0.044-0.032 \text{ W/mK}$.

Density kg/m ³	Thickness mm	Thermal Conductivity $\lambda \text{ W/(mK)}$	Thermal Resistance R m ² K/W
12	25	0,040	0,60
	50		1,25
16	25	0,037	0,65
	50		1,35
24	25	0,032	0,75
	50		1,55
32	25	0,032	0,75
	50		1,55



Application Areas:

- HVAC Works
- Home Appliances
- Solar Energy
- Water Heaters
- Boilers

Facing:

Foil Scrim Kraft (FSK), Class 0 Alum. Foil (Class 0)

ODE STARFLEX LINER INSULATION ROLL

Density kg/m ³	Thickness mm	Thermal Conductivity $\lambda \text{ W/(mK)}$	Thermal Resistance R m ² K/W
16	25	0,037	0,65
	50		1,35
24	25	0,032	0,75
	50		1,55
32	25	0,032	0,75
	50		1,55



Application Areas:

- HVAC Works
- Cinemas
- Generators Rooms
- Studios
- Theaters
- Conference Rooms

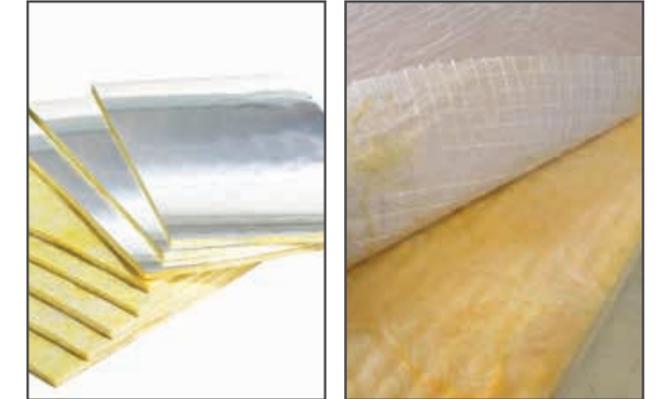
Facing:

Black Glass Tissue (BGT), Woven Glass Fabric (WGF)

TECHNICAL INSULATION

ODE STARFLEX BOARD

Density kg/m ³	Thickness mm	Thermal Conductivity $\lambda \text{ W/(mK)}$	Thermal Resistance R m ² K/W
24-96	25	0,032-0,031	0,75-0,80
	30		0,90-0,95
	40		1,25-1,25
	50		1,55-1,60



Application Areas:

- HVAC Works
- Home Appliances
- Solar Energy

Facing:

Foil Scrim Kraft (FSK), Class 0 Alum. Foil (Class 0)

ODE STARFLEX LINER INSULATION BOARD

Density kg/m ³	Thickness mm	Thermal Conductivity $\lambda \text{ W/(mK)}$	Thermal Resistance R m ² K/W
24-96	25	0,032-0,031	0,75-0,80
	30		0,90-0,95
	40		1,25-1,25
	50		1,55-1,60



Application Areas:

- HVAC Works
- Cinemas
- Generators Rooms
- Studios
- Theaters
- Conference Rooms

Facing:

Black Glass Tissue (BGT), Woven Glass Fabric (WGF)

TECHNICAL INSULATION

ODE STARFLEX PREFABRICATED PIPE

Thermal Conductivity Coefficient range of Ode Starflex Pipe is $\lambda = 0.035 \text{ W/mK (10}^\circ \text{C)}$

Density (kg/m ³)	Diameter (mm)	Diameter (inch)	Thickness (mm)	Thickness (inch)	Thermal Conductivity λ (W/mK)					Thermal Resistance R (m ² K/W)
					10°C	50°C	100°C	150°C	200°C	
60-100	21-324	1/2"-12"	25-100	1"- 4"	0,035	0,040	0,045	0,055	0,070	0,70-2.85

Application Areas:

- Radiator and central heating systems
- Solar energy systems
- Protection of pipes from perspiration and frost
- Against sound and vibration in pressure water pipes and in many other mechanical and industrial systems.

Facing:

Unfaced (UF), Foil Scrim Kraft (FSK), Class 0 Aluminium Foil (Class 0)



QUALITY CONTROL

The quality of ODE Starflex products are certified with CE Certification as well. ODE Starflex has obtained the **EUCEB** certificate to prove that the product is not hazardous for human health. We have completed the **EPD (Environmental Product Declaration)** process for all of our products. With EPD documents, we transparently prove the environmental performance of our products certified with the **ISO, CE, TSE** quality certificates.

TURKEY **EPD**[®] **What is EPD? & Why is it important?**
THE INTERNATIONAL EPD[®] SYSTEM

• EPD (Environmental Product Declaration):

EPD (Environmental Product Declaration) aims to share verified quantitative environmental information about the product or the service transparently with the society and thus to encourage the use of products and services having fewer adverse effects on the environment.



WHY IS EPD IMPORTANT?

- It improves competitiveness in the sector with harmonization of European Union Legislation
- It provides international recognition.
- It improves preferableness in green buildings market.

ISO 9001



ISO 27001



ISO 14001



ISO 50001



OHSAS 18001



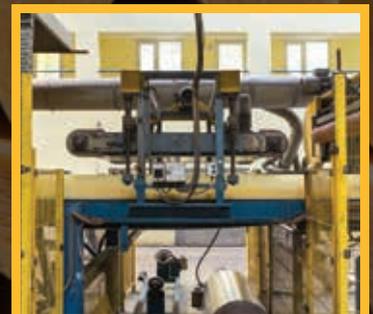
EUCEB



EPD



CE EN 13162
CE EN 14303





INSULATES THE FUTURE

COMPANY PROFILE

ODE Insulation was founded in 1985 as a contractor in construction industry. In 1988, the company made a strategic decision to specialize in insulation industry. ODE started to import insulation products in 1990 and then the company became a manufacturer in insulation industry in 1996. Today, ODE manufactures insulation materials under two main categories; Building Insulation and HVAC Insulation. Building insulation materials are Isipan (Extruded Polystyrene Foam), Membran (Polymer Bitumen Based Waterproofing Membrane) and Starflex (Glass Wool), while HVAC insulation materials are Starflex (Glass Wool) and R-flex (Flexible Elastomeric Foam). As of today, ODE is one of the biggest insulation manufacturers in the region with manufacturing and exporting 4,000 different kinds of insulation materials to 75 countries.

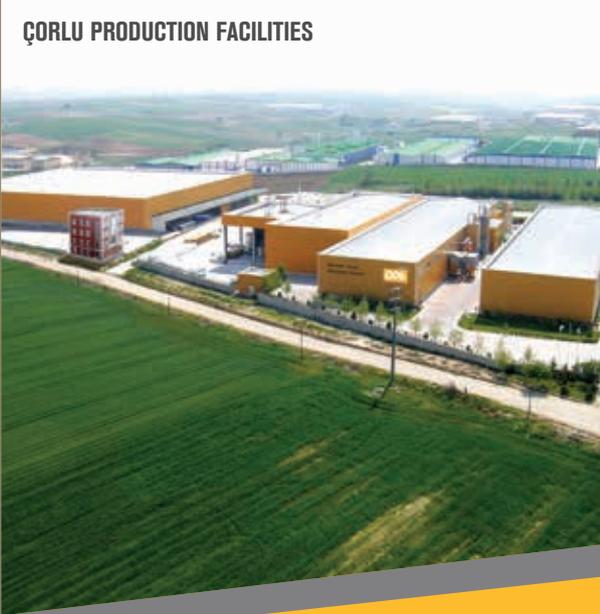
ODE became a regional leader over the years and during 2017, the company has completed the first phase of its new investment and started manufacturing in the new factory in Eskişehir,

Turkey. Once the second phase of this investment is completed and the production capacity in technical insulation (HVAC) is increased, ODE will be the biggest manufacturer in technical insulation between China and Germany.

Besides, ODE Insulation has identified 15 target countries for its export under Turquality brand building program. Currently, ODE is focusing on these countries in order to develop its distribution channels. In 2015, ODE became the first and the only company in insulation industry in the region with its Environmental Product Declaration (EPD) certificate for all product range, which means that ODE products are internationally approved and they are in accordance with the European standards.

ODE insulates the future and it will keep investing in the future by transferring its 30 years of experience in insulation in order to create a sustainable environment for the next generations.

ÇORLU PRODUCTION FACILITIES



ESKİŞEHİR PRODUCTION FACILITY



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