



# TEBAR®

Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.

<b>Order Number:</b>	UDİ1900011
<b>Report Number:</b>	CPR-PTD/R19-25
<b>Page Number</b>	1/6
<b>Report Date:</b>	05.07.2019

TEBAR A.Ş.; 20.10.2015 tarih ve 29508 sayılı Resmi Gazetede yayımlanan TEBAR Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.'nin Onaylanmış Kuruluş Olarak Görevlendirilmesine Dair Tebliğ (Tebliğ No: MHG/2014-05)'de Değişiklik Yapılmasına Dair Tebliğ (MHG/2015-19) ile Çevre ve Şehircilik Bakanlığı tarafından yetkilendirilmiştir.

## Product Type Determination Report

### Product Type Determination Report

**Notified Body Number: 2164**

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#### **Applicant (Name and Address):**

**İZOCAM TİC. ve SAN. A.Ş.**

Altayçeşme Mahallesi Çamlık Sokak Esas  
Ofispark No:21 Kat 4-5 Maltepe – İstanbul

**Content:** Product type determination report according to EN 14304 and EN 13172 of thermal insulation products from flexible elastomeric foam.

**Product Standard:** EN 14304:2009+A1:2013

**Product Description:** Thermal insulation products made from flexible elastomeric foam.

**Trademarks:** İzocam Optiflex

**Intended Use:** Thermal insulation for building equipment and industrial installations.

**Plant:** 75.Yıl Mah. Organize Sanayi Bölgesi  
Şehitler Bulvarı No:17 Eskişehir

**Number of Production Line:** 1

**Approved By**

**Gülsüm ÖZGÜN GÜVEN**

AoC Manager



*The product type determination report assigned to the related product is appropriate to a declaration of performance by the manufacturer within the context of an assessment and verification of constancy of performance system 3 and CE marking under the Construction Products Directive. The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.*

**This report is signed with electronic signature under the electronic signature law numbered 5070. You can contact TEBAR to verify the report.**

*Bu rapor izin alınmadan kısmi olarak ya da içeriği değiştirilerek çoğaltılamaz. Bu raporun sadece orijinal kopyası geçerlidir.*

*TEBAR A.Ş. Orijinali dışındaki kopyalardan sorumlu tutulamaz.*

FR.075/07/03.04.2019



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<b>Order Number:</b>	UDİ1900011
<b>Report Number:</b>	CPR-PTD/R19-25
<b>Page Number</b>	2/6
<b>Report Date:</b>	05.07.2019

## 1.PROCEDURE:

The declared values of thermal insulation products made from flexible elastomeric foam established by the manufacturer “İZOCAM TİC. ve SAN. A.Ş” and documented to the TEBAR Co. Inc.

Characteristics defined by CPR	Related clauses of harmonized product Standard	Test Method	İzocam Optiflex	
Water permeability	4.3.4. Short term water absorption	EN 1609	NPD	
Reaction to fire	4.2.4. Reaction to fire	EN 13501-1	E	
Release of dangerous substances	4.3.9. Release of dangerous substances	-	-	
Thermal Resistance	4.2.1. Thermal conductivity (W/m.K)	EN 12667	-20 °C	0,031
			0 °C	0,034
			20 °C	0,036
			40 °C	0,037
			60 °C	0,038
	80 °C	0,043		
	4.2.2.1. Thickness	EN 823	6-50 mm	
Compressive strength	4.3.3. Compressive stress at 10 % deformation	EN 826	NPD	
Trace of quantities of water soluble ions and the pH Value	4.3.6. Water soluble ions and the pH Value	EN 13468	NPD	
Water vapour diffusion resistance	4.3.5. Water vapour diffusion resistance factor	EN 13469	NPD	

Characteristics defined by CPR	Related clauses of harmonized product Standard	Test Method	İzocam Optiflex					
Water permeability	4.3.4. Short term water absorption	EN 13472	NPD					
Reaction to fire	4.2.4. Reaction to fire	EN 13501-1	E					
Release of dangerous substances	4.3.9. Release of dangerous substances	-	-					
Thermal Resistance	4.2.1. Thermal conductivity (W/m.K)	EN 12667 / EN ISO 8497	-20 °C	0 °C	25 °C	40 °C	60 °C	80 °C
			0,031	0,034	0,036	0,041	0,042	0,043
	4.2.2.1. Thickness	EN 13467	6	9	13	19	25	32

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Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.

Order Number:	UDİ1900011
Report Number:	CPR-PTD/R19-25
Page Number	3/6
Report Date:	05.07.2019

			6	6	6			
			8	8	8			
			10	10	10	10		
			12	12	12	12		
			15	15	15	15	15	
			16	16	16	16	16	
			18	18	18	18	18	18
			19	19	19	19	19	19
			20	20	20	20	20	20
			22	22	22	22	22	22
			25	25	25	25	25	25
			28	28	28	28	28	28
			35	35	35	35	35	35
				42	42	42	42	42
				48	48	48	48	48
				54	54	54	54	54
				57	57	57	57	57
				60	60	60	60	60
				64	64	64	64	64
				67	67	67	67	67
				70	70	70	70	70
				76	76	76	76	76
				80	80	80	80	80
				89	89	89	89	89
				102	102	102	102	102
				108	108	108	108	108
				114	114	114	114	114
					140	140	140	
					160	160	160	
Compressive strength	4.3.3. Compressive stress at 10 % deformation	EN 826	NPD					
Trace of quantities of water soluble ions and the pH Value	4.3.6. Water soluble ions and the pH Value	EN 13468	NPD					
Water vapour diffusion resistance	4.3.5. Water vapour diffusion resistance factor	EN 12086	NPD					

The required test samples which are to be used for attestation of conformity purposes were taken by the representative of "İZOCAM TİC. ve SAN. A.Ş" according to TEBAR Co. Inc's instructions and EN 13172 product type determination tests performed by the TEBAR Co. Inc. (Notified Body Number 2164); according to Annex ZA2 of EN 14304 regarding the following properties as requested by the manufacturer:

- Thermal Conductivity and Thermal Resistance EN 12667 / EN 8497/EN 823/EN 13467
- Reaction to fire EN ISO 11925-2 / EN ISO 13501-1

This product type determination report does not include the properties below.

- Trace of quantities of water soluble ions and the pH Value EN 13468
- Compressive strength EN 826
- Water permeability EN 13472

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<b>Order Number:</b>	UDİ1900011
<b>Report Number:</b>	CPR-PTD/R19-25
<b>Page Number</b>	4/6
<b>Report Date:</b>	05.07.2019

## 2.TEST RESULTS

The product type determination test results performed by TEBAR Co. Inc. and declared values for related property defined by manufacturer "İZOCAM TİC. ve SAN. A.Ş." are given below in tables.

### 2.1.THERMAL CONDUCTIVITY

The products collected into product groups according to clause 4 of EN 13172, regarding to the manufacturer's declaration on single thickness. Thermal conductivity of the product determined according to EN 12667 and EN ISO 8497 regarding to clause 4.2.1 of EN 14304.

**Grup 1:** Thermal insulation products made from flexible elastomeric foam -Sheets

Product	Production Date (dd.mm.yyyy)	Thickness (mm)	Temperature (°C)	Declared Value (W/m.K)	Measured Value (W/m.K)	Evaluation	Report No
İzocam Optiflex	28.03.2019	6	-20	0,031	0,0298	Complied	CPR-T/R19-239
	11.05.2019	50	0	0,034	0,0332	Complied	CPR-T/R19-240
	11.05.2019	50	20	0,036	0,0356	Complied	CPR-T/R19-241
	10.04.2019	6	40	0,037	0,0348	Complied	CPR-T/R19-242
	28.03.2019	6	60	0,038	0,0374	Complied	CPR-T/R19-243
	26.04.2019	50	80	0,043	0,0423	Complied	CPR-T/R19-244

**Grup 2:** Thermal insulation products made from flexible elastomeric foam -Tubes

Product	Production Date (dd.mm.yyyy)	Thickness (mm)	Inside Diameter (mm)	Temperature (°C)	Declared Value (W/m.K)	Measured Value (W/m.K)	Evaluation	Report No
İzocam Optiflex	28.03.2019	6	-	-20	0,031	0,0298	Complied	CPR-T/R19-239
	11.05.2019	50	-	0	0,034	0,0332	Complied	CPR-T/R19-240
	19.03.2019	6	22	25	0,036	0,0322	Complied	CPR-T/R19-245
	08.02.2019	32	42	40	0,041	0,0401	Complied	CPR-T/R19-246
	05.03.2019	32	22	60	0,042	0,0416	Complied	CPR-T/R19-247
	26.04.2019	50	-	80	0,043	0,0423	Complied	CPR-T/R19-244

## 2.2.LINEAR DIMENSIONS

### 2.2.a) Thickness:

Thickness of the product determined according to EN 823 and EN 13467 regarding to clause 4.2.2.1. of EN 14304.

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<b>Order Number:</b>	UDİ1900011
<b>Report Number:</b>	CPR-PTD/R19-25
<b>Page Number</b>	5/6
<b>Report Date:</b>	05.07.2019

## Grup 1: Thermal insulation products made from flexible elastomeric foam -Sheets

Product	Production Date (dd.mm.yyy y)	Thickne-ss (mm)	Tolerances from EN 14304 (mm)	Measure d Value (mm)	Evaluation	Report No
İzocam Optiflex	28.03.2019	6	±1	7	Complied	CPR-T/R19-248
	10.04.2019	6	±1	7	Complied	CPR-T/R19-249
	26.04.2019	50	±2	48	Complied	CPR-T/R19-250
	11.05.2019	50	±2	48	Complied	CPR-T/R19-251

## Grup 2: Thermal insulation products made from flexible elastomeric foam -Tubes

Product	Production Date (dd.mm.yyy y)	Thickne-ss (mm)	Inside Diamet er (mm)	Tolerances from EN 14304 (mm)	Measure d Value (mm)	Evaluati on	Report No
İzocam Optiflex	19.03.2019	6	22	±1	5	Complied	CPR-T/R19-252
	15.01.2019	9	89	±1	8	Complied	CPR-T/R19-254
	05.03.2019	32	22	±3	30	Complied	CPR-T/R19-253
	21.03.2019	32	89	±3	29	Complied	CPR-T/R19-255

### 2.2.b) Inside Diameter

Inside diameter of the product determined according to EN 13467 regarding to clause 4.2.2.1. of EN 14304.

## Grup 1: Thermal insulation products made from flexible elastomeric foam -Tubes

Product	Production Date (dd.mm.yyyy )	Thickne-ss (mm)	Inside Diamet er (mm)	Tolerances from EN 14304 (mm)	Measure d Value (mm)	Evaluati on	Report No
İzocam Optiflex	19.03.2019	6	22	23≤Di≤26	25	Complied	CPR-T/R19-252
	05.03.2019	32	22	23≤Di≤26	23	Complied	CPR-T/R19-253
	15.01.2019	9	89	90≤Di≤93	93	Complied	CPR-T/R19-254
	21.03.2019	32	89	90≤Di≤93	91	Complied	CPR-T/R19-255

## 2.3. REACTION TO FIRE

The products collected into product groups regarding to clause 4.2.4 of EN 14304 according to EN 13501-1. Regarding to the manufacturer's declaration on reaction to fire classification as "E", the product tested according to EN ISO 11925-2.

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Order Number:	UDİ1900011
Report Number:	CPR-PTD/R19-25
Page Number	6/6
Report Date:	05.07.2019

## Grup 1: Thermal insulation products made from flexible elastomeric foam -Sheets

Product	Production Date (dd.mm.yyyy)	Thickness (mm)	Reaction to fire		Evaluation	Report No
			Declared Value	Measured		
İzocam Optiflex	30.03.2019	50	E	E	Complied	CPR-T/R19-256
	12.04.2019					
	26.04.2019					
	11.05.2019					

## Grup 2: Thermal insulation products made from flexible elastomeric foam -Tubes

Product	Production Date (dd.mm.yyyy)	Thickness (mm)	Inside Diameter (mm)	Reaction to fire		Evaluation	Report No
				Declared Value	Measured		
İzocam Optiflex	12.04.2019	32	22	E	E	Complied	CPR-T/R19-257
	05.03.2019						
	22.04.2019						
	09.05.2019						

### 3. EVALUATION:

The tested thermal insulation products made from flexible elastomeric foam samples comply with the declared thermal conductivity, linear dimensions, reaction to fire classes of the manufacturer "İZOCAM TİC. ve SAN. A.Ş."

Product type determination tests are valid until the conditions not changed. Any modifications on manufacturing process and raw materials or any changes on component suppliers which may have affect on one or more properties of the product, product type determination testing should be repeated for relevant characteristics. The manufacturer can use this product type determination report for issuing Performance Declaration according to EN 14304:2009+A1:2013 (Annex ZA Clause ZA2.2.2) only if factory production control is correctly carried out.

**The manufacturer "İZOCAM TİC. ve SAN. A.Ş." entitled to use CE Conformity Mark regarding to Performance Declaration with the declared values of thermal conductivity, reaction to fire, linear dimensions classes as long as factory production control is correctly carried out according to EN 14304:2009+A1:2013: Thermal insulation products for building equipment and industrial installations - Factory made flexible elastomeric foam (FEF) products - Specification which are produced with a trademark of "İzocam Optiflex" in the plant in "75.Yıl Mh. Organize Sanayi Bölgesi Şehitler Bulvarı No:17 Eskişehir"**

Date:05/07/2019, İstanbul



Approved by  
Gülsüm ÖZGÜN GÜVEN  
AoC Manager

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