



# TEBAR®

Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.

Order Number:	UDİ1800025
Report Number:	CPR-PTD/R18-31
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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 TİCARET ve SANAYİ A.Ş.

Altayçeşme Mh. Çamlık Sk. Esas Ofispark No:21  
Kat 4-5 Maltepe / İSTANBUL

**Content:** Product type determination report according to EN 13163 and EN 13172 of thermal insulation products from expanded polystyrene foam.

**Product Standard:** TS EN 13163:2012+A1:2015

**Product Description:** Thermal insulation products made from expanded polystyrene foam.

**Trademarks:** Manto İzopor Plus

**Intended Use:** Thermal insulation for building.

**Plant:** Kocaeli-Gebze V (KİMYA) İhtisas Organize Sanayi Bölgesi, Çerkeşli Köyü Yolu üzeri, Kocabayır Tepe Mevkii Kiplasma Cad. No:1 Dilovası / KOCAELİ

**Number of Production Line:** 1

**Approved By**

**Gülsüm ÖZGÜN GÜVEN**

AoC Manager  
V.



*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.*

*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.075/05/01.07.2013



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## 1.PROCEDURE:

The declared values of thermal insulation products made from expanded polystyrene foam established by the manufacturer “İZOCAM TİCARET ve SANAYİ A.Ş.” and documented to the TEBAR Co. Inc.

Characteristics defined by CPR	Related clauses of harmonized product Standard	Test Method	MANTO İZOPOR PLUS (14kg/m3)
Water permeability	4.3.11.1.Long term water absorption by total immersion.	EN 12087	NPD
	4.3.11.1. Long term water absorption by partial immersion.		WL(P)0,5
	4.3.11.2. Water absorption by diffusion.	EN 12088	NPD
Reaction to fire	4.2.6. Reaction to fire	EN 13501-1	E
Release of dangerous substances	4.3.19. Release of dangerous substances	-	-
Thermal Resistance	4.2.1.Thermalconductivity[W/(m.K)]	EN 12667	0,032
	4.2.3.Thickness (mm)	EN 823	40-100 (±1mm)
Compressive strength	4.3.4.Compressive stress at 10 % deformation	EN 826	CS(10)50

The required test samples which are to be used for attestation of conformity purposes were taken by the representative of “İZOCAM TİCARET ve SANAYİ 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 13163 regarding the following properties as requested by the manufacturer:

- Thermal Conductivity and Thermal Resistance EN 12667 / EN 823
- Compressive strength EN 826
- Long term water absorption by partial immersion EN 12087
- Reaction to fire EN ISO 11925-2 / EN ISO 13501-1

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

- Long term water absorption by total immersion EN 12087
- Water absorption by diffusion EN 12088

## 2.TEST RESULTS

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

*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.*

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## 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 regarding to clause 4.2.1 of EN 13163.

**Group 1:** Thermal insulation products made from expanded polystyrene foam (14kg/m<sup>3</sup>)

Product	Production Date (dd.mm.yyyy)	Thickness (mm)	Declared Value (W/m.K)	Measured Value (W/m.K)	Evaluation	Report No
MANTO İZOPOR PLUS	02.05.2018	40	0,032	0,0302	Complied	CPR-T/R18-483
	09.07.2018	40		0,0302	Complied	CPR-T/R18-484
	15.01.2018	100		0,0302	Complied	CPR-T/R18-485
	12.02.2018	100		0,0302	Complied	CPR-T/R18-486

## 2.2.THICKNESS

The products collected into product groups according to clause 4 of EN 13172, regarding to the manufacturer's declaration on single thickness. The thickness of the product is measured according to EN 823 regarding to clause 4.2.3 of EN 13163 and the tolerance class determined "T1" (±1mm).

**Group 1:** Thermal insulation products made from expanded polystyrene foam (14kg/m<sup>3</sup>)

Product	Production Date (dd.mm.yyyy)	Nominal Thickness (mm)	Measured Value (mm)	Evaluation	Report No
MANTO İZOPOR PLUS	02.05.2018	40	40	Complied	CPR-T/R18-479
	09.07.2018	40	41	Complied	CPR-T/R18-480
	15.01.2018	100	101	Complied	CPR-T/R18-481
	12.02.2018	100	101	Complied	CPR-T/R18-482

## 2.3. COMPRESSIVE STRENGTH

The products collected into product groups according to clause 4 of EN 13172, regarding to the manufacturer's declaration on single thickness. The compressive strength of the product is measured according to EN 826 regarding to clause 4.3.4 of EN 13163.

**Group 1:** Thermal insulation products made from expanded polystyrene foam (14kg/m<sup>3</sup>)

*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.*

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Product	Production Date (dd.mm.yyyy)	Nominal Thickness	Declared Value	Measured Value (kPa)	Evaluation	Report No
		(mm)				
MANTO İZOPOR PLUS	16.01.2018	40	50	60,0	Complied	CPR-T/R18-487
	13.03.2018	40		59,5	Complied	CPR-T/R18-488
	14.03.2018	100		63,7	Complied	CPR-T/R18-489
	05.04.2018	100		62,1	Complied	CPR-T/R18-490

## 2.4. LONG TERM WATER ABSORPTION

The products collected into product groups according to clause 4 of EN 13172, regarding to the manufacturer's declaration on single thickness. The long term water absorption by total immersion of the product is measured according to EN 12087 regarding to clause 4.3.11.1 of EN 13163.

**Group 1:** Thermal insulation products made from expanded polystyrene foam (14kg/m<sup>3</sup>)

Product	Production Date (dd.mm.yyyy)	Nominal Thickness	Declared Value	Measured Value (kg/m <sup>2</sup> )	Evaluation	Report No
		(mm)				
MANTO İZOPOR PLUS	16.01.2018	40	≤0,5 (WL(P)0,5)	0,12	Complied	CPR-T/R18-491
	13.03.2018	40		0,12	Complied	CPR-T/R18-492
	14.03.2018	100		0,12	Complied	CPR-T/R18-493
	05.04.2018	100		0,12	Complied	CPR-T/R18-494

## 2.5. REACTION TO FIRE

The products collected into product groups regarding to clause 4.2.6 of EN 13163 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.

**Group 1:** Thermal insulation products made from expanded polystyrene foam (14kg/m<sup>3</sup>)

Product	Production Date (dd.mm.yyyy)	Thickness (mm)	Reaction to fire		Evaluation	Report No
			Declared Value	Measured		
MANTO İZOPOR PLUS	16.01.2018	40	E	E	Uygun	CPR-T/R18-495
	13.03.2018					
	02.05.2018					
	09.07.2018					

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.

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### 3.EVALUATION:

The tested thermal insulation products made from expanded polystyrene foam samples comply with the declared thermal conductivity, thickness, compressive strength, long term water absorption by partial immersion and reaction to fire classes of the manufacturer “İZOCAM TİCARET ve SANAYİ 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 13163 (Annex ZA Clause ZA2.2.2) only if factory production control is correctly carried out.

**The manufacturer “İZOCAM TİCARET ve SANAYİ A.Ş.” entitled to use CE Conformity Mark regarding to Performance Declaration with the declared values of thermal conductivity, thickness, compressive strength, long term water absorption by partial immersion and reaction to fire classes as long as factory production control is correctly carried out according to EN 13163:2012+A1:2015: Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products – Specification” which are produced with a trademark of “MANTO İZOPOR PLUS” in the plant in “Kocaeli-Gebze V (KİMYA) İhtisas Organize Sanayi Bölgesi, Çerkeşli Köyü Yolu üzeri, Kocabayır Tepe Mevkii Kiplasma Cad. No:1 Dilovası/ KOCAELİ”**

Date: 24/09/2018, İstanbul



Approved by  
Gülsüm ÖZGÜN GÜVEN  
AoC Manager  
V.