



TEBAR®

Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.

Şerif Ali Çiftliği Hendem Cd. Kible Sk. No:33
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CLASSIFICATION REPORT FOR BITUMEN WATERPROOFING MEMBRANES EXPOSED TO EXTERNAL FIRE – EN 13501-5

Report Number: CPD-S/R10-32-01

Owner: BTM BİTÜMLÜ TECRİT MADDELERİ SAN. ve TİC A.Ş.

Product Definition: Polyester reinforced modified bituminous membrane (modified with SBS: styrene-butadiene-styrene) coated with PE (polyethylene) film on the lower surface and colored mineral granules on the upper surface

Trade Mark: BTM Elastobit PE 4 M, BTM Elastobit PE 5 M

Product Standard: EN 13707: Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics

Production Plant: Kemalpaşa Organize Sanayi Bölgesi Atatürk Mah Gazi Bulvarı No.152
Kemalpaşa/İzmir-TURKEY

TEBAR A.Ş; 17.04.2013 tarih ve 28621 sayılı Resmi Gazetede yayımlanan Yapı Malzemeleri Yönetmeliği (89/106/EEC) Kapsamında TEBAR Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.'nin Onaylanmış Kuruluş Olarak Görevlendirilmesine Dair Tebliğ (Tebliğ No: MHG/2013-4) ile Çevre ve Şehircilik Bakanlığı tarafından yetkilendirilmiştir.

Notified Body Identification Number: 2164

Prepared by Pelin Göksu 		Reviewed by Timur DİZ 
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1.Introduction:

This classification report defines the classification of polyester reinforced, SBS-modified bitumen based waterproofing membrane coated with PE (polyethylene) film on the lower surface and colored mineral granules on the upper surface assigned to "Elastobit PE 5 M and Elastobit PE 4 M" produced by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş. in accordance with procedures given in EN 13501-5:2005.

2.Details of classified product:

2.1.General information:

The bitumen membranes manufactured by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş., with a trademark of "Elastobit PE 5 M and Elastobit PE 4 M" is used as top layer for roof waterproofing.

2.2.Description of the product:

Polyester reinforced, SBS-modified bitumen based waterproofing membrane coated with PE (polyethylene) film on the lower surface and colored mineral granules on the upper surface assigned to "Elastobit PE 5 M and Elastobit PE 4 M" produced by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş. is described below depends on manufacturer's declarations.

Trademark	:	Elastobit PE 4 M	Elastobit PE 5 M
Origin of the product	:	SBS (styrene-butadiene-styrene) Modified bitumen	SBS (styrene-butadiene-styrene) Modified bitumen
Mass per Unit Area	:	4200gr/m ²	5300gr/m ²
Reinforcement	:	Polyester	Polyester
Thickness	:	(3,5±0,2)mm	(4,5±0,2)mm
Lower surface covering	:	PE (polyethylene) film	PE (polyethylene) film
Upper surface covering	:	Mineral	Mineral
Colour	:	Red/Green/Slate (Black&Blue)	Red/Green/Slate (Black&Blue)
Fire Retardant Type	:	-	-
Fire Retardant Usage	:	%0	%0

2.3.Product Standard: EN 13707:Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

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3. Test reports and test results in support of this classification:

3.1. Test Report:

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
TEBAR A.Ş.	BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş.	CPD-T-R10-162-01 CPD-T-R10-359-01 CPD-T-R10-360-01	ENV 1187-2

3.2. Test results:

Test Conditions: Test specimen is mounted at a roof pitch of 30° to horizontal plane and a forced airflow is passing over the exposed surface. A burning wooden crib is placed on the surface of the specimen

Test Pitch: Roof pitch of 30° to horizontal plane

Substrate: Wood particle board with density of (680±50)kg/m³ and thickness of 18mm.

Test Results for PE 3M according to EN 13501-5

Parameter	Criteria		Test Results					Compliance
	Mean	Max	Spe. 1	Spe. 2	Spe. 3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 0,550 m	≤0,800 m	0,345	0,360	0,425	0,377	0,425	Y
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤0,800 m	0,251	0,070	0,145	0,155	0,251	Y
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤0,800 m	0,210	0,260	0,260	0,240	0,260	Y
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤0,800 m	0,085	0,065	0,045	0,065	0,085	Y

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Test Results for PE 4M according to EN 13501-5

Parameter	Criteria		Test Results					Criteria
	Mean	Max	Mean	Max	Mean	Max	Mean	
Damaged length at 2 m/s – roof covering	≤ 0,550 m	≤0,800 m	0,320	0,295	0,305	0,307	0,320	Y
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤0,800 m	0,240	0,230	0,250	0,240	0,250	Y
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤0,800 m	0,240	0,245	0,250	0,245	0,250	Y
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤0,800 m	0,075	0,142	0,062	0,093	0,142	Y

This report, "04.11.2010" dated "CPD-S/R10-32" report number is the revision of the Classification Report Exposed To External Fire. The product name from "Elastobit PE 3 M and Elastobit PE 4 M" has changed to "Elastobit PE 5 M and Elastobit PE 4 M". "04.11.2010" dated "CPD-S/R10-32" report number is invalid.

4. Classification and field of application:

4.1. Reference of classification:

This classification has been carried out in accordance with clause 6.4.3, 7., 8.2. and 9. of EN 13501-5: 2005 "Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests".

4.2. Classification:

Polyester reinforced, SBS-modified bitumen based waterproofing membrane (coated with PE (polyethylene) film on the lower surface and colored mineral granules on the upper surface) produced by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş. with trademark of "Elastobit PE 5 M and Elastobit P E4 M" in relation to its external fire performance classified as below.

B_{ROOF} (t₂)

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4.3.Field of application:

4.3.1. This classification is only valid for SBS modified bitumen based; polyester reinforced waterproofing membranes coated with PE (polyethylene) film on the lower surface and by colored mineral granules on the upper surface which are to be used as roof waterproofing.

4.3.2. This classification is only valid for the products which complies with definition in clause 2.2 and produced in the manufacturing plant defined in this report .

Range of Substrates: Combustible and non combustible substrates.

5.Warning and Limitations:

5.1. This classification report does not represent type of approval or certification of the product.

5.2. This classification report is valid for 5 years period until **04 November 2015**.

Report	Name	Signature*	Date
Prepared by	Pelin Göksu		24.06.2013
Reviewed by	Timur Diz		24.06.2013

*For and on behalf of "BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş."

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