



**TEBAR TEST BELGELENDİRME
ARAŞTIRMA ve GELİŞTİRME TİC. A.Ş.**

Şerifali Mahallesi Hendem Caddesi No:58 Y.Dudullu
34775 Ümraniye/İSTANBUL



Test
TS EN ISO/IEC 17025
AB-0302-T

AB-0302-T

SR24-18

11-24

EXTERNAL FIRE CLASSIFICATION REPORT- EN 13501-5

Customer Name/Adresse: Bitufa Yapı ve Yalıtım Sistemleri A.Ş.
Maltepe Mah. Eski Çırpıcı Yolu Sokak No:8/191 Zeytinburnu/İstanbul

Order No: İ2400124

Specimen No: N2400230

Name and identity of test item : SBS modified bitumen based waterproofing membrane with PE film on the bottom surface and slate stone on the top surface: "Flexowall Slate-Stone"

The date of receipt of test item: 24.09.2024

The date of acceptance of test item: 24.09.2024

Remarks: Test sample was sent by client to the laboratory. The sample was tested according to "CEN/TS 1187:2015 Test methods for external fire exposure to roofs-test method 2"


Date of Test: 21.10-25.10.2024

Number of pages of the Report:1/5

TEBAR Test Belgelendirme Araştırma ve Geliştirme Tic. A.Ş., accredited by TÜRKAK under registration number AB-0302-T for TS EN ISO/IEC 17025:2017 as test laboratory.

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Seal 	Date 01.11.2024	Person in charge of test / Head of Testing Laboratory	Approval/ Technical Regulatory Officer
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This report is signed with electronic signature under the electronic signature law numbered 5070. You can contact TEBAR to verify the report.

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EXTERNAL FIRE CLASSIFICATION REPORT- EN 13501-5**Page : 2/3****1.Introduction:**

This classification report defines; the classification of the bituminous waterproofing membrane manufactured by "BİTUFA YAPI VE YALITIM SİSTEMLERİ A.Ş." with a trademark of "Flexowall Slate-Stone" in accordance with procedures given in EN 13501-5.

2. Details of classified product:**2.1. General information:**

"Flexowall Slate-Stone" branded "waterproofing membrane" products produced by "BİTUFA YAPI VE YALITIM SİSTEMLERİ A.Ş." are used for waterproofing purposes on roofs.

2.2. Description of the product:

The detailed description of the " Flexowall Slate-Stone " branded "waterproofing membrane" product produced by "BİTUFA YAPI VE YALITIM SİSTEMLERİ A.Ş.", according to the Customer's declaration, is given below.

Trademark	:	Flexowall Slate-Stone
Reinforcement	:	Composite (Polyester-Glass tulle)
Mass Per Unit Area	:	6,00 kg/m ²
Bottom Layer covering	:	PE Film
Upper Layer covering	:	Slate-Stone
Color	:	Gray
Fire Retardant Type and Usage	:	0

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

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EXTERNAL FIRE CLASSIFICATION REPORT- EN 13501-5**Page : 3/3****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.	BİTUFA YAPI VE YALITIM SİSTEMLERİ A.Ş.	R2400420	CEN/TS 1187 (test 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

Application surface: Wood fibre board with a density of (150±20) kg/m³ and a thickness of (50±10) mm.

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EXTERNAL FIRE CLASSIFICATION REPORT- EN 13501-5**Page : 4/5**

Test results according to EN 13501-5:

Parameter	Criteria		Test Results					Copliance
	Mean	Max	Spe. 1	Spe. 2	Spe. 3	Mean	Max	
Damaged length at 2m/s – roof covering (mm)	≤ 0,550 m	≤0,800 m	270	470	425	388	470	Y
Damaged length at 2m/s – substrate (mm)	≤ 0,550 m	≤0,800 m	235	370	355	320	370	Y
Damaged length at 4m/s – roof covering (mm)	≤ 0,550 m	≤0,800 m	290	350	360	333	360	Y
Damaged length at 4m/s – substrate (mm)	≤ 0,550 m	≤0,800 m	210	280	270	253	280	Y

4. Classification and field of application:

4.1. Reference of classification: This classification has been carried out in accordance with clause 6.5.3, 7.,8.2. and 9. of EN 13501-5: "Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests".

4.2. Classification :

Waterproofing cover by "BİTUFA YAPI VE YALITIM SİSTEMLERİ A.Ş." with a trademark of "Flexowall Slate-Stone" in relation to its external fire performance classified as below.

B_{ROOF} (t2)

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EXTERNAL FIRE CLASSIFICATION REPORT- EN 13501-5**Page: 5/5****4.3.Field of application:**

4.3.1. This classification is valid for general purpose waterproofing; bituminous waterproofing membranes for waterproofing on roofs.

4.3.2. This classification is only valid for the products which complies with definition in clause 2 and produced in the manufacturing plant defined in this report.

Application (Substrate) Surface Range: OSB with a thickness of (50±10)mm and a density of (150±20) kg/m³ and a size of (1000x400)mm was used as a flammable substrate and a waterproofing membrane was used as a non-flammable substrate.

5. Warning and Limitations:

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

Rapor	İsim	İmza*	Tarih
Hazırlayan	Kemal ÇATKIN		01.11.2024
Onaylayan	Timur DİZ		01.11.2024
*For and on behalf of "BİTUFA YAPI VE YALITIM SİSTEMLERİ A.Ş."			

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