



TEBAR®

Test Belgelendirme Araştırma ve Geliştirme Ticaret A.Ş.

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CLASSIFICATION REPORT FOR ROF COVERINGS EXPOSED TO EXTERNAL FIRE – EN 13501-5

Report Number: CPD-S/R10-13

- Owner:** BTM BİTÜMLÜ TECRİT MADDELERİ SAN. ve TİC A.Ş.
- Product Definition:** Oxidized bitumen based, fibreglass-reinforced self adhesive Shingle roof covering and waterproofing membrane coated with siliconized film on the lower surface and by coloured mineral granules on the upper surface.
- Trade Mark:** BTM Rustic Shingle – BTM Ruby Shingle
- Product Standard:** EN 544: Bitumen shingles with mineral and/or synthetic reinforcements - Product specification and test methods
- Production Plant:** Kemalpaşa Organize Sanayi Bölgesi Atatürk Mah Gazi Bulvarı No.152
Kemalpaşa/İzmir-TURKEY

TEBAR A.Ş; 01.04.2009 tarih ve 26875 sayılı Resmî 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: YİG-19/2009-04) ile Bayındırlık ve İskân Bakanlığı tarafından yetkilendirilmiştir

Notified Body Identification Number: 2164

Prepared by Gülsüm ÖZGÜN/AoC Lab. 		Reviewed by Timur DİZ / AoC Man. 
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1.Introduction:

This classification report defines the classification of oxidized bitumen based, fibreglass-reinforced, self adhesive Shingle roof coverings coated with siliconized film on the lower surface and coloured mineral granules on the upper surface assigned to "BTM Rustic Shingle and BTM Ruby Shingle" 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 product manufactured by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş., with a trademark of "BTM Rustic Shingle and BTM Ruby Shingle" is defined as oxidized bitumen based, fibreglass-reinforced, self adhesive shingle roof coverings coated with siliconized film on the lower surface and coloured mineral granules on the upper surface and used as roof covering.

2.2.Description of roof coverings

The product manufactured by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş., with a trademark of "BTM Rustic Shingle and BTM Ruby Shingle", oxidized bitumen based fibreglass-reinforced, self adhesive shingle roof coverings is described below depends on manufacturer's declarations.

Origin of the product	:	Oxidized bitumen
Mass of bitumen	:	Min 1300gr/m ²
Reinforcement	:	Fibre Glass
Thickness	:	2 layer (3,3±0,2)mm
Lower surface covering	:	Siliconized film
Upper surface covering	:	Coloured mineral granules
Colour	:	Red or green
Pattern	:	Rustic or Ruby/Hex

2.3.Product Standard: EN 544: Bitumen shingles with mineral and/or synthetic reinforcements - Product specification and test methods

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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-R10-97	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.

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	0,210	0,240	0,220	0,223	0,240	Y
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤0,800 m	0	0	0	0	0	Y
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤0,800 m	0,200	0,200	0,200	0,200	0,200	Y
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤0,800 m	0	0	0	0	0	Y

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".

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü 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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4.2. Classification:

The product manufactured by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş., with a trademark of "BTM Rustic Shingle and BTM Ruby Shingle", oxidized bitumen based fibreglass-reinforced, self adhesive shingle roof coverings in relation to its external fire performance classified as below.

B_{ROOF} (t2)

4.3. Field of application:

4.3.1. This classification is only valid for oxidized bitumen based, fibreglass-reinforced, self adhesive shingle roof coverings coated with siliconized film on the lower surface and by coloured mineral granules on the upper surface which are to be used as roof covering.

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 **23 May 2015**.

Report	Name	Signature*	Date
Prepared by	Gülsüm ÖZGÜN		03.05.2010
Reviewed by	Timur Diz		03.05.2010

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

*Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.
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CLASSIFICATION REPORT FOR ROF COVERINGS EXPOSED TO EXTERNAL FIRE – EN 13501-5

Report Number: CPD-S/R10-14

- Owner:** BTM BİTÜMLÜ TECRİT MADDELERİ SAN. ve TİC A.Ş.
- Product Definition:** Oxidized bitumen based, fibreglass-reinforced shingle roof covering and waterproofing membrane coated with fine sand on the lower surface and by coloured mineral granules on the upper surface.
- Trade Mark:** BTM Beavertail Shingle – BTM 4 Tab Shingle – BTM Diamond Shingle
- Product Standard:** EN 544: Bitumen shingles with mineral and/or synthetic reinforcements - Product specification and test methods
- Production Plant:** Kemalpaşa Organize Sanayi Bölgesi Atatürk Mah Gazi Bulvarı No.152
Kemalpaşa/İzmir-TURKEY

TEBAR A.Ş.; 01.04.2009 tarih ve 26875 sayılı Resmî 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: YİG-19/2009-04) ile Bayındırlık ve İskân Bakanlığı tarafından yetkilendirilmiştir

Notified Body Identification Number: 2164

Prepared by Gülsüm ÖZGÜN/AoC Lab. 		Reviewed by Timur DİZ / AoC Man. 
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1.Introduction:

This classification report defines the classification of oxidized bitumen based, fibreglass-reinforced, shingle roof coverings coated with fine sand on the lower surface and coloured mineral granules on the upper surface assigned to "BTM Beavertail / BTM 4 Tab / BTM Diamond Shingle" 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 product manufactured by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş., with a trademark of "BTM Beavertail / BTM 4 Tab / BTM Diamond Shingle", is defined as oxidized bitumen based, fibreglass-reinforced, shingle roof coverings coated with fine sand on the lower surface and coloured mineral granules on the upper surface and used as roof covering.

2.2.Description of roof coverings

The product manufactured by BTM Bitümlü Tecrit Maddeleri San. ve Tic. A.Ş., with a trademark of "BTM Beavertail / BTM 4 Tab / BTM Diamond Shingle", oxidized bitumen based fibreglass-reinforced shingle roof coverings is described below depends on manufacturer's declarations.

Origin of the product	:	Oxidized bitumen
Mass of bitumen	:	Min 1300gr/m ²
Reinforcement	:	Fibre Glass
Thickness	:	2 layer (3,3±0,2)mm
Lower surface covering	:	Fine sand
Upper surface covering	:	Coloured mineral granules
Colour	:	Red or Green
Pattern	:	Honeycomb, Diamond, Beaver tail

2.3.Product Standard: EN 544: Bitumen shingles with mineral and/or synthetic reinforcements - Product specification and test methods

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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-R10-98	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.

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	0,270	0,250	0,260	0,260	0,270	Y
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤0,800 m	0	0	0	0	0	Y
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤0,800 m	0,190	0,235	0,170	0,198	0,235	Y
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤0,800 m	0	0	0	0	0	Y

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".

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B_{ROOF} (t2)

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