CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1: 2007+A1:2009

Sponsor: *SLL CIG MEGA CITY, 61020, L.Maloy ave 93, Kharkiv, Ukraine*

Prepared by: *„Center for Testing and European Certification" LTD*
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Notified body №: *1871*

Product name: *Flat and profiled sheets with a coating of stone for roofing QUEENTILE®*

Classification report №: *1871-CPR-RtF-268*

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1 Introduction

This classification report defines the classification assigned to *Stone coated steel roofing QUEENTILE®,* in line with the procedures given in EN 13501-1:2007+A1:2009

2 Details of classified product

2.1 General

The product, *Stone coated steel roofing QUEENTILE®,* is defined as factory made sheets intended for fully supported applications in roofing in accordance with BDS EN 14783. The product is manufactured by SLL CIG MEGA CITY, 61020, L.Maloy ave 93, Kharkiv, Ukraine.

2.2 Product description

The product, *Stone coated steel roofing QUEENTILE®* is described below and in the test report provided in support of classification listed in clause 3.1.

Product description:

The product Stone coated steel roofing QUEENTILE® is a compound multilayer material, based on steel with "Aluzinc" coating. The front side surface of the tile is covered with granules of natural stone. It lays on the metal surface with binder material based on acrylic, stone top coated by transparent acrylic over glaze. The densities of the tested materials are as follow: acrylic primer and acrylic layer -0.45 kg/m2, natural stone granules – 1.74 kg/m2, acrylic glaze – 0.16 kg/m2. Base metal thickness – 0.45mm. Thickness of top coat (acrylic glaze) – 60 microns. Thickness of acrylic primer and acrylic layer – 300 microns

3 Test reports and test results in support of classification.

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports	Test method / extended application rules & date
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	*SLL CIG MEGA CITY, Ukraine*	*1422311/30.01.2018 1422312/30.01.2018 1422313/30.01.2018*	*BDS EN ISO 1716:2010*
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	*SLL CIG MEGA CITY, Ukraine*	*1422314/02.02.2018*	*BDS EN 13823:2010+A1:2015*

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3.2 Test results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
BDS EN ISO 1716:2010 – for external non-substantial component (acrylic glaze)	Q_{PCS} (MJ/m²)	3	3.78	Compliant
BDS EN ISO 1716:2010 – for internal non-substantial component (acrylic primer)	Q_{PCS} (MJ/m²)	3	3.58	Compliant
BDS EN ISO 1716:2010 – for internal non-substantial component (acrylic layer)	Q_{PCS} (MJ/m²)	3	3.58	Compliant
BDS EN ISO 1716:2010 – for internal non-substantial component (natural stone granules)	Q_{PCS} (MJ/m²)	3	0.40	Compliant
BDS EN ISO 1716:2010 – for whole product	Q_{PCS} (MJ/kg)	-	1.67	Compliant
BDS EN 13823:2010+A1:2015	FIGRA 0.2MJ LFS THR 600s	3	76.3 (-) 1.4	Compliant
	SMOGRA TSP600s		0.0 32.8	Compliant
	flaming droplets/particles		None	Compliant

As the steel sheet is conventionally A1 classified, then the non-combustibility test (BDS EN ISO 1182) and the determination of the heat of combustion test (BDS EN ISO 1716) do not have to be carried out on this substantial component.

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11.7.3 of BDS EN 13501-1:2007+A1:2009.

4.2 Classification

The product, *Stone coated steel roofing QUEENTILE®,* in relation to its reaction to fire behavior is classified:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and products for thermal insulation of pipes is:

Fire Behaviour		Smoke Production			Flaming Droplets	
A2	-	s	1	,	d	0

Reaction to fire classification: *A2 – s1, d0*

4.3 Field of application

This classification is valid for the following end use applications:
The product, Stone coated steel roofing QUEENTILE® is for use as a flat and profiled sheets with a coating of stone for roofing.
Mounting and fixing when tested according to BDS EN 13823 is performed in accordance with BDS EN 14783 Annex B.

This classification is valid for the following product parameters:

- The product described in paragraph 2
- Steel sheets with a thickness ≥ 0.45 mm
- Any coating of the same type and with a Gross Heat of Combustion per unit area ≤ 3.78 MJ/m^2
- Any internal non-substantial component of the same type and with a Gross Heat of Combustion per unit area ≤ 3.58 MJ/m^2

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5 Limitations

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

The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Regulation (EU) No 305/2011.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

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 claimed to be relevant to the samples tested and that will provide for their traceability

SIGNED:

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Specialist testing and quality

APPROVED:

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