

# External Exposure to Fire Classification Report

<b>Name of client:</b>	CM Solar ApS		
<b>Product name:</b>	Sunslate®		
<b>File no.:</b>	PCA10949A		
<b>Date:</b>	2024-03-21	<b>Revision no.:</b>	0
<b>Pages:</b>	4	<b>Encl.:</b>	1
<b>Ref:</b>	LIA / RED		

## Client information

Client: CM Solar ApS

Address: Spicas Alle 29

2770 Kastrup

Denmark

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

## 1. Introduction

This classification report defines the classification assigned to the roof covering group "Sunslate®" in accordance with the procedures given in EN 13501-5:2016.

## 2. Details of roof covering

### 2.1 Nature and end use application

The roof covering "Sunslate®" is defined as a solar power roofing slate.

Its classification is valid for the product that in the end use application is laid onto combustible and non-combustible end-use substrates, cf. 4.3.

### 2.2 Description

The roof covering "Sunslate®" is fully described in the test report in support of the classification listed in 3.1. and the roof covering group "Sunslate®" is listed in enclosure 1.

## 3. Reports and test results in support of this classification

### 3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method	Date
DBI	CM Solar ApS	PFA12119A	CEN/TS 1187 Test 2	2023-08-09

### 3.2 Test results

Test conditions: Loose laid

Test pitch: 30°

Substrate: Standard substrate of expanded polystyrene (EPS) with a measured density of 16.3 kg/m<sup>3</sup>.

Parameter	Criteria		Test results <sup>a</sup>					Compliance Y/N
	Mean	Max	Spe.1	Spe.2	Spe.3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	0.100	0.090	0.085	<b>0.092</b>	<b>0.100</b>	Y
Damaged length at 2 m/s – substrate	≤ 0,550 m	≤ 0,800 m	0.070	0.075	0.085	<b>0.077</b>	<b>0.085</b>	Y
Damaged length at 4 m/s – roof covering	≤ 0,550 m	≤ 0,800 m	0.085	0.085	0.090	<b>0.087</b>	<b>0.090</b>	Y
Damaged length at 4 m/s – substrate	≤ 0,550 m	≤ 0,800 m	0.070	0.070	0.075	<b>0.072</b>	<b>0.075</b>	Y

<sup>a</sup> Not for extended application.

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

##### 4.2 Classification

The roof covering group “Sunslate®” in relation to its external fire performance is classified: B<sub>ROOF</sub>(t2).


##### 4.3 Field of application

This classification is valid for the following conditions:

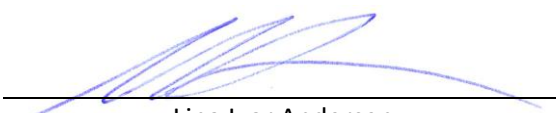
- any combustible and non-combustible substrate with density equal to or greater than 12.5 kg/m<sup>3</sup>

#### 5. Limitations

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



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**Roof covering group "Sunslate®"**

	Sunslate® 25 x 50 slate		
Glass thickness (mm)	3.2	3.2	3.2
Module Dimensions (mm)	503 x 500 x 5	756 x 500 x 5	1010 x 500 x 5
Module weight (kg)	2.4	4.4	6.5

	Sunslate® 30 x 60 slate		
Glass thickness (mm)	3.2	3.2	3.2
Module Dimensions (mm)	603 x 600 x 5	906 x 600 x 5	1210 x 600 x 5
Module weight (kg)	2.6	5.1	7.5