

## **CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-5:2016**

<b>Sponsor</b>	Arundo Reed Europe Waalbandijk 91-92 NL-6669 ME DODEWAARD The Netherlands
<b>Prepared by</b>	Efectis Nederland BV Lange Kleiweg 5 P.O. Box 1090 NL-2280 CB RIJSWIJK The Netherlands
<b>Notified Body no.</b>	1234
<b>Product name</b>	<b>'Arundo Reed' a.k.a. 'Thai Coconut Thatch' tiles, PVC reed roof covering</b>
<b>Classification report no</b>	2010-Efectis-R1092[Rev.1]
<b>Issue number</b>	2
<b>Date of issue</b>	July 2022
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<b>Project number</b>	2010395

This classification report consists of five pages and may only be used in its entirety.

## 1. Introduction

This classification report defines the classification assigned to a **'Arundo Reed' outside Europe also known as 'Thai Coconut Thatch' tiles, PVC reed roof covering** in accordance with the procedures given in EN 13501-5:2016.

This is a revised version of this report. This version supersedes all previous versions of this reports that are hereby withdrawn. Details on the changes can be found in the tables below.

*Table 1.1: Revision information*

Issue	Date of issue	Report no.
First issue	November 2010	2010-Efectis-R1092
First revision	July 2022	2010-Efectis-R1092[Rev.1]

### 1.1.1 First revision detailed information

*Table 1.2: First revision information*

Chapter of revision	Chapter 4.2
Reason of revision	Editorial error in classification made, adjusted to B <sub>ROOF</sub> (t1)
Consequences of revision	Correct notification of the classification

## 1.2 ASSESSMENT INFORMATION

Efectis compared the two versions of the CEN/TS 1187 standard (previous ENV 1187) and concluded that the results from the tests according to the ENV 1187:2003 standard are still valid according to the CEN/TS 1187:2012 standard. Therefore, this report can be used for classification according to EN 13501-5:2016.

## 2. Details of classified product

### 2.1 General

The product, **Arundo Reed/Thai Coconut Thatch tiles, PVC reed roof covering**, is defined as a roof covering.

### 2.2 Product description

- Plywood; the reed thatch tiles are attached to plywood with a thickness of 18 mm.
- Silisto Max Plus; on the plywood Silisto Max Plus roof covering is attached; 1 layer of fire retardant polypropylene (PP) laminate with a thickness of 0.5 mm and a weight of  $150 \pm 8 \text{ g/m}^2$ .
- Silisto Max Plus; on the plywood Silisto Max Plus roof covering is attached; 1 layer of fire retardant polypropylene (PP) laminate with a thickness of 0.5 mm and a weight of  $150 \pm 8 \text{ g/m}^2$ .
- -PVC Reed thatch tiles; on the plywood and the roof covering the Arundo Reed polyvinylchloride (PVC) thatch tiles are attached.

The product has a weight of 0.5 kg/tile and a square meter of roof contains approx. 16 tiles.

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

### 3.1 Reports

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV The Netherlands	Arundo Reed Europe The Netherlands	2010-Efectis-R1091	ENV 1187:2003 + A1:2005

### 3.2 Test results

Test method: Test 1; Method with burning brands

Roof pitch: 45°

Parameter	Criteria	Test result				Compliance [Y/N]
		1	2	3	4	
Flame spread:						
- Internal, upwards [cm]	< 70	Y	Y	Y	Y	Y
- External, upwards [cm]	< 70	Y	Y	Y	Y	Y
- Internal, downwards [cm]	< 60	Y	Y	Y	Y	Y
- External, downwards [cm]	< 60	Y	Y	Y	Y	Y
Maximum burned length:						
- Internal [cm]	< 60	3-5	3-5	3-5	3-5	Y
- External [cm]	< 80	3-5	3-5	3-5	3-5	Y
Lateral flame spread	< edges <sup>1)</sup>	Y	Y	Y	Y	Y
Burning droplets/debris falling from exposed side	None	N	N	N	N	Y
Burning/glowing particles Penetrating the roof	None	N	N	N	N	Y
Size of through openings:						
- one single opening [mm <sup>2</sup> ]	< 25	0	0	0	0	Y
- sum of all openings [mm <sup>2</sup> ]	< 4500	0	0	0	0	Y

<sup>1)</sup> Edge of the measuring zone

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-5.

### 4.2 Classification

The product, **Arundo Reed/Thai Coconut Thatch tiles, PVC reed roof covering**, in relation to its reaction to fire behaviour is classified:

**Reaction to fire classification: B<sub>ROOF</sub> (t1)**

### 4.3 Field of application

This classification is valid for the following product parameters:

- Roof pitch > 20°
- Supporting deck Plywood covered with fire retardant polypropylene laminate

### 4.4 Duration of the validity of this classification report

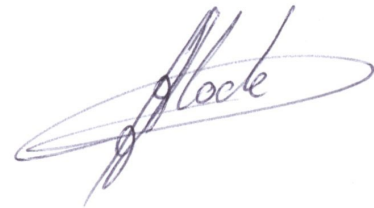
There are no limitations in time on the validity of this report.

## 5. Limitations

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



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Project leader Reaction to Fire



A.J. Lock  
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