

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

<b>Sponsor</b>	Warmteplan B.V. P.O.box 20 NL 6970 AA BRUMMEN 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>Sprayplan+</b>
<b>Classification report no</b>	2012-Efectis-R0006
<b>Issue number</b>	1
<b>Date of issue</b>	January 2012
<b>Project number</b>	2011474

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

This report is issued by Efectis Nederland BV (previously **TNO** Centre for Fire Research). Efectis Nederland BV and her sister company Efectis France are full subsidiaries of Efectis Holding SAS since 1<sup>st</sup> January 2008, in which the Dutch TNO and the French CTICM participate. The activities of the TNO Centre for Fire Research were privatised in Efectis Nederland BV since 1<sup>st</sup> July 2006. This is in response to international developments and requests by customers. In order to be able to give a better answer to the customer's request and offer a more comprehensive service of high quality and a wider range of facilities, the international collaboration has been further expanded. This is done with highly experienced partners in fire safety in Norway (Sintef-NBL), Spain (Afiti-Licof), Germany (IFT), USA (South West Research Institute) and China (TFRI). Further information can be found at our website.

## 1. Introduction

This classification report defines the classification assigned to **Sprayplan+** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

## 2. Details of classified product

### 2.1 General

The product, **Sprayplan+**, is defined as a ceiling covering.

### 2.2 Product description

According to the sponsor the product is composed of cellulose with fire- and fungi retarding additives.  
The product has a total thickness of 20 mm, a density of approx. 70 kg/m<sup>3</sup> and a mass of approx. 1.4 kg/m<sup>2</sup>.

### 2.3 Manufacturer/Importer

Warmteplan B.V.  
P.O.box 20  
NL 6970 AA BRUMMEN  
The Netherlands

## 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	Warmteplan The Netherlands	2012-Efectis-R0004 2012-Efectis-R0005	EN ISO 11925-2:2010 EN 13823:2010

### 3.2 Test results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Sprayplan+ 20 mm	FIGRA <sub>0.2MJ</sub> [W/s]	3	15	-
	FIGRA <sub>0.4MJ</sub> [W/s]		15	-
	THR <sub>600s</sub> [MJ]		1.9	-
	LFS < edge		-	Compliant
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		24.2	-
	TSP <sub>600s</sub> [m <sup>2</sup> ]		91	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant
EN-ISO 11925-2				
surface flame impingement	Fs ≤150 mm	6	29	-
	Ignition of filter paper		-	Compliant
edge flame impingement	Fs ≤150 mm	6	23	-
	Ignition of filter paper		-	Compliant

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2007+A1:2009.

### 4.2 Classification

The product, **Sprayplan+** in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s2**

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

**d0**

## Reaction to fire classification: B - s2, d0

### 4.3 Field of application

This classification is valid for the following product parameters:

- Thickness 20 mm
- Surface density approx. 1.4 kg/m<sup>2</sup>

This classification is valid for the following end use applications:

- Substrate minimum class A2 according to EN 13238:2010
- Air gap not applicable
- Methods and means of fixing by spraying
- Joints no joints

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

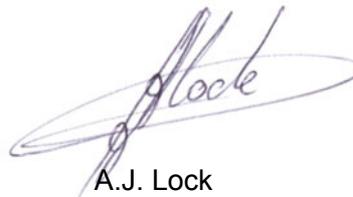
There are no limitations in time on the validity of this report.

## 5. Limitations

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



S.D. Nieuwendijk M.Sc.



A.J. Lock

This report is issued by Efectis Nederland BV (previously **TNO** Centre for Fire Research). Efectis Nederland BV and her sister company Efectis France are full subsidiaries of Efectis Holding SAS since 1<sup>st</sup> January 2008, in which the Dutch TNO and the French CTICM participate. The activities of the TNO Centre for Fire Research were privatised in Efectis Nederland BV since 1<sup>st</sup> July 2006. This is in response to international developments and requests by customers. In order to be able to give a better answer to the customer's request and offer a more comprehensive service of high quality and a wider range of facilities, the international collaboration has been further expanded. This is done with highly experienced partners in fire safety in Norway (Sintef-NBL), Spain (Afiti-Licof), Germany (IFT), USA (South West Research Institute) and China (TFRI). Further information can be found at our website.