

## TNO Building and Construction Research

Centre for Fire Research  
Van Mourik Broekmanweg 6  
P.O. Box 49  
2600 AA Delft

### TNO report

**2005-CVB-R0026**

Reaction to fire classification report following EN  
13501-1:2002 of Trespa Athlon FR

[www.tno.nl](http://www.tno.nl)

P +31 15 276 30 00  
F +31 15 276 30 25

Date	27 January 2005
Author(s)	F. Paap W. Langstraat
Number of pages	4
Sponsor	Trespa International BV Wetering 20 6002 SM WEERT The Netherlands
Project name	Reaction to fire - classification
Project number	006.45102/01.20.01

All rights reserved.

No part of this publication may be reproduced and/or published by print, photoprint, microfilm or any other means without the previous written consent of TNO.

In case this report was drafted on instructions, the rights and obligations of contracting parties are subject to either the Standard Conditions for Research Instructions given to TNO, or the relevant agreement concluded between the contracting parties. Submitting the report for inspection to parties who have a direct interest is permitted.

© 2005 TNO

## 1. Introduction

This classification report defines the classification assigned to Trespa Athlon FR, thickness 6 mm, in accordance with the procedures given in EN 13501-1:2002

## 2. Details of classified product

### 2.1 General

The product, Trespa Athlon FR, thickness 6 mm, is defined as a HPL according to EN 438-7

### 2.2 Product description

**Trespa Athlon FR** is a flat panel for interior applications based on thermosetting resins and fire retarding additives, homogeneously reinforced with cellulosic fibres and manufactured under high pressure and temperature. On both sides the panels have an integrated, decorative surface with melamine-impregnated paper.

The product density is approximately  $1450 \text{ kg/m}^3$ , resulting in a surface weight of  $8.7 \text{ kg/m}^2$  at 6 mm thickness.

## 3. Test reports & test results in support of classification

### 3.1 Test reports/extended application reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
TNO - Centre for Fire Research	Trespa International BV	2005-CVB-R0022	NEN-EN-ISO 11925-2:2002 NEN-EN 13823:2003

### 3.2 Test results for construction products except floorings

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
NEN-EN-ISO 11925-2 surface; edge flame attack, 30 s exposure	$F_s \leq 150 \text{ mm}$ $F_s \leq 150 \text{ mm}$ Ignition of filter paper	6 6	31 mm 31 mm	Compliant

NEN-EN 13823;	FIGRA <sub>0.2MJ</sub>	3	54 W/s	Compliant
	FIGRA <sub>0.4MJ</sub>		53 W/s	
	LFS < edge			
	THR <sub>600s</sub> (MJ)		5.2	
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		18	
	TSP <sub>600s</sub> (m <sup>2</sup> )		131	
	Flaming debris			Compliant

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8.2 of EN 13501-1:2002

##### 4.2 Classification

The product, **Trespa Athlon FR**, 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 end use application:

As ceiling or wall panel

This classification is also valid for the following product parameters:

A product thickness of approximately 6 mm, and a product density of approximately 1450 kg/m<sup>3</sup>.

The mounting and fixing of the panels in the SBI test was according to EN 438 part 7: mechanical fixing with screws onto wooden battens. The field of application is as specified in this standard.

## 5. Warning

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

## Restrictions

The validity of this classification report is set to be 3 years.

Signed

A handwritten signature in blue ink, consisting of a large, rounded loop on the left and a vertical line extending upwards from the center, with a horizontal stroke at the bottom.

W. Langstraat

Approved<sup>1</sup>

A handwritten signature in blue ink, featuring a large, stylized 'P' followed by a series of loops and a long, sweeping tail.

F. Paap, Ph.D.

---

<sup>1</sup> \*For and on behalf of TNO Centre for Fire Research. TNO Centre for Fire Research is Notified Body No 1234