

**Title:**

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

**Notified Body No:**

0833

**Product Name:**

"HP Non-woven Durable Wall Paper"

**Report No:**

Additional Report WF 427354

**Issue No:**

1

**Prepared for:**

HP Inc.  
16399 West Bernardo Drive  
San Diego  
California  
92127  
USA

**Date:**

19<sup>th</sup> March 2020

This test report is additional to that issued as WF No. 390364 dated the 18<sup>th</sup> October 2017 and has been issued at the request of the sponsor. The original test report remains valid and is not replaced by this additional test report. The product referred to in the original report and this additional test report has not been re-tested since the original test and neither has a technical review of the original test report resulting in any technical changes been carried out.

The original reference of the product has also been removed and the trade name "HP Non-woven Durable Wall Paper" has been inserted. The sponsor of the test has stated that the material described in this additional report is identical to the material which was tested. The original and the alternative trade names of the product have been documented and the information is maintained in the confidential file covering this investigation.

## 1. Introduction

This classification report defines the classification assigned to "HP Non-woven Durable Wall Paper", a printed non-woven durable wall paper, in line with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, "HP Non-woven Durable Wall Paper", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, "HP Non-woven Durable Wall Paper", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description	A printed non-woven durable wall paper bonded to a fibre cement board substrate. The product can be printed with the HP Latex 500 Printer series and HP 871/831 Latex Inks, HP Latex 1000 Printer series and HP 881 Latex Inks, HP Latex 3000 Printers series and HP 3M 891/881 Latex Inks and HP Latex 300 Printer series and HP 831 Latex inks".	
	The product with the highest amount of ink, representing the worst case printer and ink combination was used for the test.	
Name of manufacturer		HP Inc.
Thickness of overall composite		8.33mm (determined by <b>Warringtonfire</b> )
Weight per unit area of overall composite		14.96kg/m <sup>2</sup> (determined by <b>Warringtonfire</b> )
Thickness of wallpaper		0.33 mm (13 mils) (stated by sponsor) 0.30 mm (determined by <b>Warringtonfire</b> )
Weight per unit area		200 g/m <sup>2</sup> (stated by sponsor) 211 g/m <sup>2</sup> (determined by <b>Warringtonfire</b> )
Product reference		"HP Non-woven Durable Wall Paper".
Printer references		"HP Latex 500 Printer series", "HP Latex 1000 Printer series", "HP Latex 3000 Printers series" and "HP Latex 300 Printer series".
Ink	Product references	"HP 871/831 Latex Inks", "HP 881 Latex Inks", "HP 3M 891/881 Latex Inks" and "HP 831 Latex inks".
	Generic type	Latex Inks
	Name of manufacturer	HP Inc.
	Colour reference	"Brown" (as observed by <b>Warringtonfire</b> )
	Application method	Printed
	Flame retardant details	<b>See Note 1 below</b>

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Paper	Product reference	"HP Non-woven Durable Wall Paper"
	Generic type	Paper
	Name of manufacturer	HP Inc.
	Thickness	0.33mm (13 mils)
	Weight per unit area	200 g/m <sup>2</sup>
	Flame retardant details	<b>See Note 2 below</b>
Adhesive	Product reference	"Murabond Heavy"
	Generic type	PVA based
	Name of manufacturer	<b>See Note 1 below</b>
	Application rate	200g/m <sup>2</sup>
	Application method	Roller
	Flame retardant details	<b>See Note 1 below</b>
Primer	Product reference	"Murabond PVA Primer"
	Generic type	Polyvinyl acetate (PVA)
	Name of manufacturer	<b>See Note 1 below</b>
	Application rate	25g/m <sup>2</sup>
	Application method	Roller
	Flame retardant details	<b>See Note 1 below</b>
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/m <sup>3</sup>
Brief description of manufacturing process of wallcovering		<b>See Note 3 below</b>

Note 1: The sponsor was unable to provide this information.

Note 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 3: The sponsor was unwilling to provide this information.

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

#### 3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
warringtonfire	HP Inc.	WF 388908 (Issue 2)	EN ISO 11925-2
warringtonfire	HP Inc.	WF 388907 (Issue 2)	EN 13823
warringtonfire	HP Inc.	*WF 345192 (Issue 2)	EN/TS 15117
warringtonfire	HP Inc.	*WF 345193 (Issue 2)	EN 13501-1

\* Extended application report WF 345192 and Classification report WF 345193 provide supporting data for the use of different printer and ink combinations. The printer and ink combination with the highest coverage rate was used for the test.

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F <sub>s</sub>	6	4.2	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure – edge)	F <sub>s</sub>	6	10	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	18.56	Compliant
	FIGRA <sub>0.4MJ</sub>		17.90	Compliant
	THR <sub>600s</sub>		2.12	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP <sub>600s</sub>		11.41	Compliant

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1:2009 and EN 15102.

##### 4.2 Classification

The product, "HP Non-woven Durable Wall Paper", a printed non-woven durable wall paper, in relation to its reaction to fire behaviour is classified:

**B**

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 applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

i.e. **B – s1 , d0**

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

##### 4.3 Field of application

This classification is valid for the following end use applications:

- Construction applications used over any substrate with a density equal to or greater than  $1800\text{kg/m}^3$ , having a minimum thickness of 8mm and a fire performance of A2 or better.
- Product installed utilising "Murabond Heavy", a PVA based wall covering adhesive, at an application rate of  $200\text{g/m}^2$  and "Murabond PVA Primer", a PVA based wall covering primer, at an application rate of  $25\text{g/m}^2$ .

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour/pattern	Any variation allowed
Printer references	"HP Latex 500 Printer series", "HP Latex 1000 Printer series", "HP Latex 3000 Printers series" and "HP Latex 300 Printer series".
Ink references	"HP 871/831 Latex Inks", "HP 881 Latex Inks", "HP 3M 891/881 Latex Inks" and "HP 831 Latex inks".
Product composition	No variation allowed
Product construction	No variation allowed

## 5. Limitations

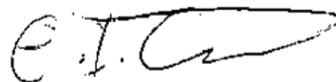
This document does not represent type approval or certification of the product.

### SIGNED



.....  
**Matthew Dale**  
Principal Certification Engineer  
Technical Department

### APPROVED



.....  
**E Gardner**  
Certification Engineer  
Technical Department  
on behalf of **warringtonfire**

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