

VVNH brand-klasseringsrapport Efectis R 0429 I

Massaranduba



Houtsoort Massaranduba

Brandklasse Bfl-s1

Toepassingsgebied Vloeren, loopdekken, vlonders en traptreden \geq 24 mm

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

Classification no.	2013-Efectis-R0429I
Sponsor	Koninklijke Vereniging van Nederlandse Houtondernemingen (VVNH) P.O. Box 1380 1300 BJ ALMERE The Netherlands
Product name	Massaranduba (Manilkara spec.div.) natural (flooring) timber - 24 mm
Prepared by	Efectis Nederland BV
Notified body no.	1234
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1. INTRODUCTION

This classification report defines the classification assigned to **Massaranduba (Manilkara spec.div.) natural (flooring) timber - 24 mm** in accordance with the procedures given in EN 13501-1:2007 +A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. GENERAL

The product, **Massaranduba (Manilkara spec.div.) natural (flooring) timber - 24 mm**, is defined as flooring and flooring for galleries, walk-ways and stairs.

2.2. PRODUCT DESCRIPTION

According to the sponsor the product (Massaranduba, Beefwood, Bolletrie or Balata Rouge) is a high-density natural wood species.

The product has a total thickness of 24 mm, a nominal density of approx. 1050 kg/m³ at a moisture content of approx. 12% and a mass per unit area of approx. 25.2 kg/m². After conditioning a constant mass of 1063 kg/m³ was determined.

2.3. MANUFACTURER/IMPORTER

Member of the Koninklijke Vereniging van Nederlandse Houtondernemingen (VVDH)
P.O. Box 1380
1300 BJ ALMERE
The Netherlands

3. TEST REPORTS & TEST RESULTS IN SUPPORT OF CLASSIFICATION

3.1. APPLICABLE (PRODUCT) STANDARDS

EN 14342:2005+A1:2008 Wood flooring - Characteristics, evaluation of conformity and marking

3.2. TEST REPORTS

Name of Laboratories	Name of sponsor	Test reports	Test method
Efectis Nederland BV The Netherlands	Koninklijke Vereniging van Nederlandse Houtondernemingen (VVDH) The Netherlands	2013-Efectis-R0429j 2013-Efectis-R0429k	EN ISO 11925-2:2010 EN ISO 9239-1:2010

3.3. TEST RESULTS

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN-ISO 11925-2 surface flame impingement	$F_s \leq 150$ mm	6	22	-
	Ignition of filter paper		-	Compliant
EN-ISO 11925-2 edge flame impingement	$F_s \leq 150$ mm	6*	25	-
	Ignition of filter paper		-	Compliant
EN ISO 9239-1	Critical Heat Flux [kW/m ²]	3	≥ 11.0	-
	Smoke density [%.min]		18	-
EN ISO 9239-1	Critical Heat Flux [kW/m ²]	1	≥ 11.0	-
	Smoke density [%.min]		0	-

*) Remark: For flooring applications only, the ignitability examination with “edge ignition” is not relevant for the formal assessment. This examination has been carried out additionally for occasions when this information could become relevant.

3.4. CLASSIFICATION CRITERIA

Classification criteria of the Floor Radiant Panel (FRP) test			
Class	Fire	Class	Smoke
A _{fl} , A _{2fl} , B _{fl}	Critical flux ≥ 8.0 [kW/m ²]	s1	$\leq 750\%$ min
C _{fl}	Critical flux ≥ 4.5 [kW/m ²]	s2	$> 750\%$ min
D _{fl}	Critical flux ≥ 3.0 [kW/m ²]		

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 12 of EN 13501-1:2007+A1:2009.

4.2. CLASSIFICATION

The product, **Massaranduba (Manilkara spec.div.) natural flooring timber - 24 mm**, in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

Reaction to fire classification: B_{fl} - s1

4.3. FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	≥24 mm
Surface density	20.4 - 28.8 (average 25.2) kg/m ²
Density	850 - 1200 (average 1050) kg/m ³
Other properties	Applied as parallel planks (approx. width 100 mm)

Assessment:

Based on the relationship of measured densities of the samples and the related test results, it can be assumed that the effect of possible changes in density on the results will stay within the same (minimum) reaction to fire classification.

This classification is valid for the following end use applications:

Substrate	At least Class B substrate, or mounted without substrate underneath (in free air).
Air gap	≤15 mm
Methods and means of fixing	Mechanically mounted/affixed with or without gap between boards/planks or with shiplap (1/2 lap) overlay
Joints	Yes
Other aspects of end use conditions	The product can be profiled in various ways: Square edged timber, machined timber, planed all around timber, profiled timber

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.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

A handwritten signature in blue ink, appearing to read "E.O. van der Laan".

E.O. van der Laan M.Sc.
Project leader reaction to fire

A handwritten signature in blue ink, appearing to read "A.J. Lock".

A.J. Lock
Project leader reaction to fire