



Laboratory for Fire Safety

*Classification of reaction to fire in accordance with
EN_13501-1:2018 of Verosol SilverScreen 202/205*

Classification report

Report number YC 2174-5E-RA-001 dated 19 June 2023

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EN_13501-1:2018 of Verosol SilverScreen 202/205*

Classification report

Client Kvadrat High Performance Textiles B.V.
 Kieftte 18
 7151 HZ Eibergen
 The Netherlands

Issued by Peutz bv
 Lindenlaan 41
 NL-6584 AC Molenhoek
 PO Box 66
 NL-6585 ZH Mook
 The Netherlands



Notified body no. NB 2264

Product name **Verosol SilverScreen 202/205**

Report number YC 2174-5E-RA-001
Date 19 June 2023
Reference NvD/DDe//YC 2174-5E-RA-001
Representative ing. N.F. van Dijk
Author BSc D.M. Dechering
 085 8228 697
 d.dechering@peutz.nl

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Table of contents

1 Introduction	4
2 Product description	5
2.1 General	5
2.2 Harmonised product standard	5
2.3 Product identification	5
3 Reports and results in support of this classification	7
3.1 Reports	7
3.2 Results	7
3.3 Classification criteria	8
4 Classification and field of application	9
4.1 Reference of classification	9
4.2 Classification	9
4.3 Field of application	9
5 Limitations	10

1 Introduction

On behalf of Kvadrat High Performance Textiles B.V. an investigation was performed with respect to the reaction to fire properties of Verosol SilverScreen 202/205.

This classification report defines the reaction to fire classification of the product in accordance with the procedures described in EN 13501-1: 2018.



For this type of measurements the Laboratory for Fire safety has been accredited by the Dutch "Raad voor Accreditatie" (RvA).

The RvA is member of EA MLA (**EA MLA: European Accreditation Organisation MultiLateral Agreement**: <http://www.european-accreditation.org>).

EA: "Certificates and reports issued by bodies accredited by MLA and MRA members are considered to have the same degree of credibility, and are accepted in MLA and MRA countries."

2 Product description

2.1 General

The information in this report is based on information provided by the client.

The product investigated is Verosol SilverScreen 202/205, hereinafter also called 'the product'. The intended application is for use as blinds for interior application.

2.2 Harmonised product standard

According to the client there was no harmonised European product standard published at the time the tests were conducted and this report was drawn up.

2.3 Product identification

The most important parameters for identifying the product are summarized in Tables 2.1 and 2.2 below.

t2.1 General information of product to be tested

Product	Verosol SilverScreen 202/205	
Date of delivery	3 February 2023	
Commercial name	Verosol SilverScreen 202/205	
Produced by	Kvadrat High Performance Textiles B.V. Kieft 18 7151 HZ Eibergen The Netherlands	
Identification	batchnr.	EB01 Black (011) – B041405 EB03 Bronze (013) – B040266 ED02 Beige (032) - B041452
	date of manufacture	December 2022 – January 2023
Sampling	date	27 January 2023
	Sampling by	R. Kuipers Kvadrat High Performance Textiles B.V.

Peutz was not involved in the selection of the test specimen (or of its materials). The laboratory cannot make any declaration about the representativeness of the provided specimen and the samples made available. The results apply to the sample as received.

t2.2 Additional information of product tested

Product	Verosol SilverScreen 202/205
	Nominal value
Description	Glassfibre – PVC fabric with a metallic backside
Composition	64% PVC / 36% Glass
Thickness	0.49 mm
Surface weight	400 g/m ²
Fire retardant additive	0% - 5% Sb ₂ O ₃
Colour	EB01 Black (011) – RAL 9011 EB03 Bronze (013) – RAL 8014 ED02 Beige (032) – RAL 9001

The values mentioned are the nominal values as given by the client, unless otherwise stated

3 Reports and results in support of this classification

3.1 Reports

The client has confirmed that the reports provided (see Table 3.1) may be used for this classification.

t3.1 Reports in support of classification

Name of laboratory	Name of client	Number and date of report	Test method Field of application rules
Peutz bv, NB 2264	Kvadrat High Performance Textiles B.V.	YC 2174-4E-RA; 19 June 2023	EN 13823:2020+A1:2022
Peutz bv, NB 2264	Kvadrat High Performance Textiles B.V.	YC 2174-3E-RA; 19 June 2023	EN-ISO 11925-2:2020

3.2 Results

The results obtained are summarised in Tables 3.2 and 3.3.

t3.2 Summary of test results EN-ISO 11925-2

Flame application time 30 s		Number of tests	Results	
Parameter			Continuous parameters (average)	Compliance parameters
Surface exposure	Fs ≤ 150 mm	6	-	Y
	Ignition of filter paper		-	N
Edge exposure	Fs ≤ 150 mm	6	-	Y
	Ignition of filter paper		-	N

t3.3 Summary of test results EN 13823

Parameter		Number of tests	Results	
			Continuous parameters (average)	Compliance parameters
FIGRA _{0,2MJ}	[W/s]	3	345	-
FIGRA _{0,4MJ}	[W/s]		0	-
THR _{600s}	[MJ]		0.6	-
SMOGRA	[m ² /s ²]		1694	-
TSP _{600s}	[m ²]		93	-
LFS reaching edge			-	N
Flaming droplets/particles				
- FDP ≤ 10 s			-	N
- FDP > 10 s			-	N

3.3 Classification criteria

The classification to be obtained is based on the classification criteria given in EN 13501-1. In Tables 3.4 and 3.5 these criteria are summarised.

t3.4 Classification criteria

Test	Parameter Continuous (average) or compliance		Class		
			B	C	D
EN-ISO 11925-2	Flame spread ≤ 150 mm		Y	Y	Y
EN 13823	FIGRA _{0,2MJ}	[W/s] ≤ 120	-	-	-
	FIGRA _{0,4MJ}	[W/s] -	≤ 250	≤ 750	-
	THR _{600s}	[MJ] $\leq 7,5$	≤ 15	-	-
	LFS reaching edge	N	N	-	-

t3.5 Criteria additional classifications

Test	Parameter Continuous (average) or compliance		Class			Class		
			s1	s2	s3	d0	d1	d2
EN-ISO 11925-2	Ignition of filter paper		-	-	-	N	N	Y
<i>Note: ignition of filter paper leads to classification d2, irrespective of the results for FDP in EN 13823</i>								
EN 13823	SMOGRA	[m ² /s ²] ≤ 30	≤ 180	not s1	-	-	-	
	TSP _{600s}	[m ²] ≤ 50	≤ 200	or s2	-	-	-	
EN 13823	Flaming droplets/particles (FDP) within 600 s							
	-	FDP ≤ 10 s	-	-	-	N	Y	-
	-	FDP > 10 s	-	-	-	N	N	not d0 or d1

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product, Verosol SilverScreen 202/205, has been classified to its reaction to fire behaviour as: C. The additional classification for the smoke production is: s3, the additional classification for flaming droplets is: d0.

Reaction to fire classification: C-s3, d0

4.3 Field of application

The classification is valid for the product parameters and end use applications as stated in Tables 4.1 and 4.2.

t4.1 Product parameters

Parameter	
Thickness	0.49 mm
Surface weight	400 g/m ²
Fire retardants (%)	0% - 5% Sb ₂ O ₃
Colours	EB01 Black (011) – RAL ??? EB03 Bronze (013) – RAL ??? ED02 Beige (032) – RAL ???

t4.2 End use parameters

Parameter	
Substrate	Not applicable (free standing)
Cavity	Ventilated
Method of attachment	Free hanging
Joints	No joints can be used
Orientation	Warp direction upwards (machine direction)
Other	Use as free hanging blinds for interior applications

5 Limitations

There are no limits in time on the validity of this classification document.

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



H.H.A. Leenders, BSc.
Head of Laboratory for For Fire Testing

Mook,



D.J. den Boer, BSc.
Management

This report contains 10 pages and 1 appendix:
Appendix 1 Colour range (1 page)

Appendix 1 Colour range

PEUTZ

Colour range:



ED01
Wit



ED02
Beige



ED03
Lichtgrijs



EB02
Donkergrijs



EB01
Zwart



ED04
Donkerbeige



EB03
Brons



EC02
Staalgrijs