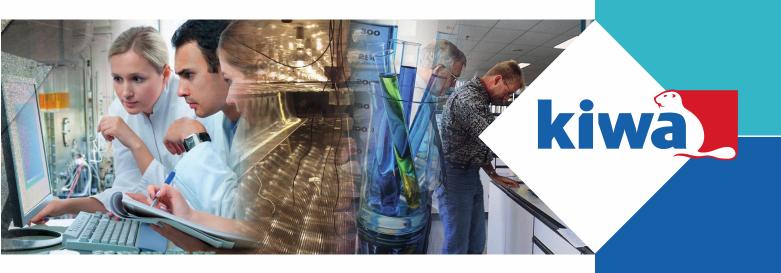
0418-L-20/51 June 2023

Classification report

for roof coverings exposed to external fire

Techriet / wood particle board deck



Trust Quality Progress





0418-L-20/51 June 2023

Classification report

for roof coverings exposed to external fire

Techriet / wood particle board deck

© 2023 Kiwa N.V.
All rights reserved.
No part of this report may be reproduced, stored in a database or retrieval system, or published, in any form or in any way, electronically, mechanically, by print, photoprint, microfilm or any other means without prior written permission from the publisher.

Kiwa BDA Testing B.V.

Avelingen West 35-37 P.O. Box 389 4200 AJ Gorinchem The Netherlands

Tel. +31 183 669 690 testing@bda.nl www.kiwabda.nl

Commercial register Registered by Chamber of Commerce Midden Nederland 23059445

Details

Owner of the Classification report

Contact person Email

Date of order Project number

Author

Subject

Techriet Holding B.V. Cabauwsekade 93

NL-3411 EG LOPIK

H.J. Straver info@hjstraver.nl 20 February 2023 0418-L-20/5 R.J. de Jongh

classification using test data from external fire exposure to roofs tests

All assignments accepted by Kiwa BDA Testing B.V. are subject to our general terms and conditions. The report may only be reproduced in full.



Contents

	Contents	1
1	Introduction	2
2	Description of the roof	2
3	Test report and test results in support of this classification	2
4	Results	3
5	Classification and field of application	4
6	Limitations	4



1 Introduction

By order of Techriet Holding B.V., Kiwa BDA Testing B.V. has drawn a classification report with reference to a fire test according to CEN/TS 1187:2012, test 1. This concerns the classification of the **Techriet** roofing system directly applied on the supporting deck in accordance with the procedures given in EN 13501-5:2016 – Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests.

2 Description of the roof

The roof is fully described in the test report in support of this classification listed in table 1.

3 Test report and test results in support of this classification

Table 1

Name of laboratory	Name of sponsor	Number test report	Test method
Kiwa BDA Testing B.V.	Techriet Holding B.V.		CEN/TS 1187: 2012, test 1



4 Results

Test conditions

Test pitch : 45°

 Supporting deck wood particle board deck, constructed from planks 250 mm

wide \times 16 mm thick, density (680 ± 50) kg/m³ with plain edges and tightly but jointed so that gaps between planks do not exceed 0,5 mm.

Table 2

Parameter	Criteria	Test results on test specimen				Compliance	
Farameter		1	2	3	4	Compliance	
Internal fire spread upwards	< 0,700 m	0 mm	0 mm	0 mm	0 mm	yes	
External fire spread upwards	< 0,700 m	30 mm	10 mm	5 mm	10 mm	yes	
Internal fire spread downwards	< 0,600 m	0 mm	0 mm	0 mm	0 mm	yes	
External fire spread downwards	< 0,600 m	75 mm	45 mm	95 mm	70 mm	yes	
Maximum burned length internal	< 0,800 m	0 mm	0 mm	0 mm	0 mm	yes	
Maximum burned length external	< 0,800 m	105 mm	55 mm	100 mm	80 mm	yes	
Burning, droplets/debris falling from exposed side	none	none	none	none	none	yes	
Burning, glowing particles penetrating the roof	none	none	none	none	none	yes	
Single through opening	< 25 mm²	none	none	none	none	yes	
Sum of all through openings	< 4500 mm ²	0 mm²	0 mm²	0 mm²	0 mm²	yes	
Lateral fire spread, left	< edges 1)	15 mm	0 mm	20 mm	10 mm	yes	
Lateral fire spread, right	< edges 1)	0 mm	0 mm	5 mm	15 mm	yes	
Internal glowing combustion	none	none	none	none	none	yes	
Radius of fire spread (horizontal roof)	< 0,200 m	-	-	-	-	n.a.	
1) Edges of the measuring zone.							



5 Classification and field of application

Reference

This classification has been carried out in accordance with EN 13501-5:2016.

Classification

The roof covering Techriet directly applied on the supporting deck, in relation to its external fire performance is classified: **B**_{ROOF} (t1)

Field of application

This classification is valid for the following conditions:

- range of pitches: ≥ 20°.
- range of decks:
 - any wooden continuous deck (thickness ≥ 16 mm) with gaps not exceeding 0,5 mm;
 - any continuous non-combustible board (thickness ≥ 10 mm) without gaps;

6 Limitations

The classification results relate to the behaviour of a product and/or product family under the particular conditions of the test. The results are not intended to be the sole criteria for assessing the potential fire hazard of the product and/or product family.

This document is not valid as type approval or as certificate of the product.

Gorinchem, 1 June 2023

The laboratory

R.J. de Jongh

laboratory technician

Kiwa BDA Testing B.V.

N.W.J. Haanappel BSc

manager testing

Designated as Notified Body NB 1640 pursuant to the Construction Products Regulation (EU, No 305/2011)



