



**Instytut Techniki Budowlanej**

Research and development works | Accredited Group of Laboratories |

Notified Body N° 1488 | EOTA member | Certified management systems ISO 9001, ISO 27001

## EXTERNAL EXPOSURE TO FIRE

### CLASSIFICATION REPORT

of product:

**WPC - Woodplastic® Premium decking board 137x22mm/195x22mm**

**03180/20/Z00NZP-ENG**

(english version of raport no. 03180/20/Z00NZP)

on behalf of

**OWNER OF CLASSIFICATION REPORT**

**WPC – WOODPLASTIC a.s.**

**Na Folimance 2154/17, 128 00 Praha 2**

**Česká republika**

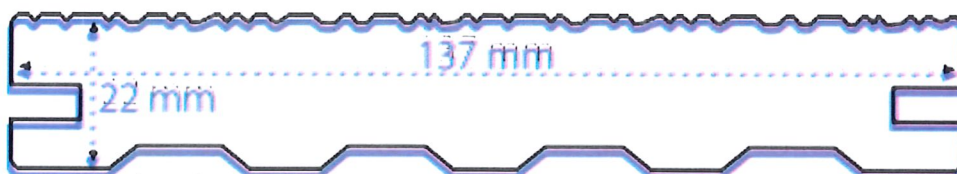
Contract N°: 03180/20/Z00NZP

#### 1 Introduction

This classification report defines the classification assigned to roof with WPC - Woodplastic® Premium decking board 137x22mm/195x22mm in accordance with the procedures given in PN-EN 13501-5:2017 method 1.

#### 2 Description of the roof/roofing

Roof with solid terrace board WPC - Woodplastic® Premium decking board 137x22mm/195x22mm. Substrate was particle board planks with thickness 16 mm density  $680 \pm 50 \text{ kg/m}^3$ . The gaps between the planks were c.a. 5 mm. Solid terrace board WPC - Woodplastic® Premium Forest 137x22mm with complementary elements produced by WPC – WOODPLASTIC a.s. Solid terrace board WPC - Woodplastic® Premium Forest dimensions 137x22mm/195x22mm, color palisander, made of a composite based on wood and plastic.



Cross-section of a solid terrace board WPC - Woodplastic® Premium decking board 137x22mm

#### 3. Test reports and test results in support of this classification

##### 3.1 Test reports

Name of laboratory	Name of sponsor	Test report ref. N°	Test Method
Fire Research Laboratory of ITB	WPC – WOODPLASTIC a.s.	LZP01-03180/20/Z00NZP	CEN/TS 1187:2012, method-1

### 3.2 Test results for a roof with a solid terrace board WPC - Woodplastic® Premium decking board 137x22mm

Test report: LZP01-03180/20/Z00NZP

Parameter	Criteria	Test results				Compliance
		1	2	3	4	
Internal fire spread upwards	< 0,700 m	0,0	0,0	0,0	0,0	Yes
External fire spread upwards	< 0,700 m	0,0	0,0	0,0	0,0	Yes
Internal fire spread downwards	< 0,600 m	0,0	0,0	0,0	0,0	Yes
External fire spread downwards	< 0,600 m	0,025	0,0	0,0	0,0	Yes
Maximum burned length internal	< 0,800 m	0,0	0,0	0,0	0,0	Yes
Maximum burned length external	< 0,800 m	0,025	0,0	0,0	0,0	Yes
Burning, droplets/debris falling from expose side	No	N	N	N	N	Yes
Burning, glowing particles penetrating the roof	No	N	N	N	N	Yes
Single through opening	< 25 mm <sup>2</sup>	0,0	0,0	0,0	0,0	Yes
Sum of all through openings	< 4500 mm <sup>2</sup>	0,0	0,0	0,0	0,0	Yes
Lateral fire spread	< edge*	N	N	N	N	Yes
Internal glowing combustion	No	N	N	N	N	Yes
Radius of fire spread (horizontal roof)	< 0,200 m	-	-	-	-	<i>not applicable</i>

"0" means no damage

\* - edges of the measurement zone

Test conditions: Temperature of air: 18,5°C

The test was carried out with a roof slope of 15 °

Substrate: particle board planks with thickness 16 mm density 680 ± 50 kg/m<sup>3</sup>.

The gaps between the planks were c.a. 5 mm

## 4 Classification and field of application

### 4.1 Reference

This classification has been carried out in accordance with PN-EN 13501-5:2017 method 1.

### 4.2 Classification

Roof with solid terrace board WPC - Woodplastic® Premium decking board 137x22mm/195x22mm described in the section 2, in terms of resistance to external fire, as follows is classified:

**B<sub>ROOF</sub> (t1)**

This classification is valid for final applications in accordance with the technical conditions to be met by buildings and their location and as for the "non-spreading fire" element according to Rozporządzenia Ministra Infrastruktury z dnia 12 kwietnia 2002 r. (Dz. U. Nr 75 z 15 czerwca 2002, poz.690 z późniejszymi zmianami).

### 4.3 Field of application

This classification is valid for the following conditions:

- 1) any wood or wooden deck with minimum thickness 16 mm and with gaps not exceeding 5 mm, any substrates from profiled or none profiled steel, and any non-flammable substrates with a thickness of at least 10 mm,
- 2) Solid terrace board WPC - Woodplastic® Premium Forest 137x22mm/195x22mm with supplementary elements produced by WPC – WOODPLASTIC a.s can be used over a roof system with a fire classification according to PN-EN 13501-5 **B<sub>ROOF</sub> (t1)**.
- 3) Roofs with pitch no more than 20°

## 5 Limitations

### 5.1 Validity

This classification given remains valid till **27.02.2024**, as long as the composition, structure and/or the production's technology remains unchanged.


### 5.2 Restrictions

This classification report has been issued in three copies (2 for client, 1 for Fire Research Department of ITB). Additional signed copies can be issued by Fire Research Department of ITB on the request of the report's owner only.

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

**5.3 Warning**

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

Report	Name	Signature*	Date
Prepared by	Tomasz Gwiżdż		23.02.2021

\* - For and on behalf of "Name of the organisation"

**HEAD**  
of Fire Research Department  
  
Bartłomiej Papiś, PhD Eng.