



CLASSIFICATION REPORT ROOF RESISTANCE THE EFFECT OF EXTERNAL FIRE OF PRODUCT

NATURE IMPACT ROOF® 80 № 01607/22/Z00NZP-ENG

(english version of raport no. 01607/22/Z00NZP)

OWNERS OF CLASSIFICATION REPORT

NATURE IMPACT A/S SDR. HØJRUPVEJEN 130 DK-5750 RINGE

Contract №: 01607/22/Z00NZP

1 Introduction

This classification report defines the classification assigned with Nature Impact Roof® 80 accordance with the procedures given in **PN-EN 13501-5:2016-07, method 2**.

2 Description of the roof

Layer's arrangement from the underside of the roof:

- Substrate particle board planks with thickness 16 mm, density $680 \pm 50 \text{ kg/m}^3$ and width 250 mm. The gaps between the planks were less than 5 mm,
- All-in-one modular system of extensive green roof consisting of the drainage layer, the growing medium (substrate) and rooted, developed extensive vegetation.

3 Test reports and test results in support of this classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report ref. №	Test Method
Laboratorium Badań Ogniwych ITB	NATURE IMPACT A/S	LZP01-01607/22/Z00NZP	CEN/TS 1187:2014 (metoda 2)

3.2 Test results

Parameter	Criteria		Test results					Compliance
	Average	Max	Specimen № 1	Specimen № 2	Specimen № 3	Average	Max	
The length of damaged material 2m/s – roof covering	≤ 550 mm	≤ 800 mm	20	27	18	21,6	27	Y
The length of damaged material 2m/s – substrate	≤ 550 mm	≤ 800 mm	0	0	0	0	0	Y
The length of damaged material 4m/s – roof covering	≤ 550 mm	≤ 800 mm	36	42	30	36	42	Y
The length of damaged material 4m/s – substrate	≤ 550 mm	≤ 800 mm	0	0	0	0	0	Y

Test conditions: Temperature of air: 20.6 °C

Test pitch: 30°

Y – yes, N – no

Substrate: particle board planks with thickness 16 mm density 680 ± 50 kg/m³

4 Classification and field of application

4.1 Reference

This classification has been carried out in accordance with **PN-EN 13501-5:2016-07**.

4.2 Classification

The roofing system described in the section 2 in relation to its fire performance is classified:

B_{ROOF} (t2).

4.3 Field of application

This classification is valid for the following conditions:

- 1) Nature Impact Roof® 80 used on roof systems with a minimum fire classification B_{ROOF} (t2) wg PN-EN 13501-5.
- 2) The minimum thickness of the system with vegetation 80 mm.
- 3) Any slope of the roof.

5 Limitations

5.1 Validity

This classification given remains valid till **15.09.2025**, as long as the composition, structure and/or the production's technology remains unchanged.

5.2 Restrictions

This classification report may only be reproduced by the owner in its entirety together with attachments without comments, abbreviations and changes.

Additional signed copies can be issued by Fire Research Department of ITB on the request of the report's owner only.

5.3 Warning

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

Report	Name	Signature*	Date
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* - For and on behalf of "Name of the organisation"

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