

FIRE RESISTANCE CLASSIFICATION REPORT

**Subject of
classification:**

*Loadbearing walls with fire separating function
according to ČSN EN 13501-2:2024, cl. 7.3.2*

Identification number:

PK2-02-26-012-E-0

Product name:

*Wall made of single-sided sheathed wooden panels
NOVATOP OPEN thickness 227 mm
(exposed to heat from the side of SWP27 board)*

Test sponsor:

AGROP NOVA a.s.
Ptenský Dvorek 99
798 43 Ptení
Czech Republic

Issuing organization:

PAVUS, a.s.
Certification body for product certification No. 3041
- accreditation issued by Český institut pro akreditaci, o. p. s.,
- certificate of accreditation No. 272/2026; scheme PAVUS-1

Prosecká 412/74
190 00 PRAHA 9
Czech Republic

Order No.: Z210260024

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1 INTRODUCTION

- 1.1 This Classification Report defines the resistance to fire classification assigned to the element – *Wall made of single-sided sheathed wooden panels NOVATOP OPEN thickness 227 mm* – in accordance with the procedures given in ČSN EN 13501-2:2024.
- 1.2 This Classification Report consists of 4 pages and may only be used or reproduced in its entirety.

2 DETAILS OF CLASSIFIED PRODUCT

2.1 General

The element – *Wall made of single-sided sheathed wooden panels NOVATOP OPEN thickness 227 mm* – has been defined as a loadbearing construction element with a fire separating function with regards to its parameters of fire resistance mentioned in cl. 5 of ČSN EN 13501-2.

2.2 Description

- ◆ Wall height: 3,000 mm, thickness 227 mm.
- ◆ The wall consists of vertically oriented wooden panels, there are 2 types of joints between panels;
- ◆ panel construction:
 - the loadbearing frame consists of DUO prism posts with a cross-section of 60x200 mm (spruce, class C24, Kloboucká lesní s.r.o.). The spacing of posts is max. 625 mm (a total of 8 posts in a tested wall of 3.0 m in width). The posts are attached between the upper and lower horizontal DUO 60x200 mm profile. The joints are made using 2 pcs. of Ø 8x120 mm screws for each joint;
 - on one side, the panel is sheathed with a SWP27 board made of cross-glued wood, 27 mm thick (AGROP NOVA). The board and posts are joined with JOVAPUR glue (Jowat Adhesives);
 - the cavities between the posts are filled with 2 layers of Isover UNI mineral wool boards, 2x 100 mm thick (40 kg/m³, Saint-Gobain Construction Product CZ a.s. division ISOVER). The joints between the layers of mineral wool are tied up, wider pieces of mineral wool are pressed into the space between the posts to prevent the insulation from loosening;
 - there is no sheathing to the opposite side of the panel.
- ◆ panel connection:
 - 1st type of connection - for panels with an overlap of the SWP27 sheathing over the posts using a 100 mm wide SWP27 insert, the insert is screwed from the inside to the sheathing of adjacent panels using Ø 6x50 mm screws at a spacing of 350 mm. The clearance between the posts at the connection is 200 mm. Isover UNI mineral wool sections are tightly inserted into the free space between the posts;
 - 2nd type of connection - for one panel, the SWP27 sheathing overlaps by approximately 30 mm over the post, for the adjacent panel, the SWP27 sheathing shifts approximately to the post axis. During installation, a strip of Isover UNI 200x10 mm mineral wool is inserted between the posts of adjacent panels along the entire height of the wall. The posts are screwed together and the Isover UNI is compressed to a thickness of approx. 5 mm. Ø 8x120 mm screws are used at a spacing of approx. 350 mm.

Manufacturer of tested wall: AGROP NOVA a.s.

For the detailed product description including drawings see Test Report No. Pr-26-2.085 dated June 22, 2026.

3 TEST REPORTS / EXTENDED APPLICATION REPORTS AND TEST RESULTS IN SUPPORT OF THE CLASSIFICATION

3.1 Test reports / extended application reports

Name of laboratory Address Accreditation number	Sponsor of Test Report	Report No. Date of issue	Test standard and date / extended application standard and date
PAVUS, a. s. Veselí nad Lužnicí ATL No. 1026 Czech Republic	AGROP NOVA a.s. Ptenský Dvorek 99 798 43 Ptení Czech Republic	Pr-26-2.085 2026-06-22	ČSN EN 1365-1:2013

3.2 Stress conditions and test results

Test procedure Report number Date of issue	Parameter	Result, loading details
ČSN EN 1365-1 Pr-26-2.085 2026-06-22	Fire scenario Direction of fire exposure Applied load Supporting conditions	Standard temperature / time curve From the interior side (SWP27 board) $q = 30 \text{ kN / m}$ (90 kN / 3 m of wall width) 3 m wide wall, unrestrained sides of the test wall
	Loadbearing capacity (R) - limiting axial contraction - limiting rate of axial contraction	62 minutes, no failure 62 minutes, no failure
	Integrity (E) - cotton pad - gag gauges - sustained flaming	62 minutes, no failure 62 minutes, no failure 62 minutes, no failure
	Insulation (I) - average temperature - maximum temperature	62 minutes, no failure 61 minutes
	Radiation (W) ¹⁾ <15 kW/m ² (not measured) - average temperature of 300 °C achieved	62 minutes, no failure

Note: ¹⁾ There is no requirement to measure the radiation from a surface with a temperature below 300 °C because the radiation emitted from such a surface is low (usually up to 6 kW/m² even at an emissivity of 1.0 see ČSN EN 1363-2:2000 cl. 8.1).

4 CLASSIFICATION AND FIELD OF APPLICATION

4.1 Reference

This classification has been carried out in accordance with cl. 7.3.2 of ČSN EN 13501-2:2024.

4.2 Classification

The element – *Wall made of single-sided sheathed wooden panels NOVATOP OPEN thickness 227 mm* – has been classified according to the following combinations of performance parameters and fire resistance classes.

Fire resistance classification:

RE 60 / REI 60 / REW 60

- thermal exposure from the side of SWP27 board

4.3 Field of application

This classification applies for the following end use applications in accordance with ČSN EN 1365-1: The results of the fire test are directly applicable to similar constructions where one or more of the changes listed below are made and the construction continues to comply with the appropriate design code for its stiffness and stability:

- decrease in height;
- increase in the thickness of the wall;
- increase in the thickness of component materials;
- decrease in dimensions of board or panel, but not thickness;
- decrease in stud spacing;
- decrease in distance of fixing centres;
- the width may be increased;
- decrease of the applied load.

5 LIMITATIONS

This classification is valid unless the condition, under which it was issued, have been changed (i.e. until the materials used, the composition or design of the product or the technical regulations relating to the product have been changed).

The sponsor may request the issuing authority to review the influence of changes to the classification validity.

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

Elaborated by:

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