

**EXTERNAL EXPOSURE TO FIRE
CLASSIFICATION REPORT**

of product:

**the roofs with liquid membranes Promalit UV Filtr and Telsilcoat
02407/25/Z00N-ZP-ENG**

(English version of classification report no. 002407/25/Z00N-ZP)

on behalf of

OWNER OF CLASSIFICATION REPORT

**Bal Teluria Sp. z o.o.
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43-300 Bielsko Biała****Contract No: 02407/25/Z00N-ZP****1 Introduction**

This classification report defines the classification assigned to the roofs with liquid membranes Primalit UV Filtr and Telsilcoat 200 in accordance with the procedures given in PN-EN 13501-5:2016 test 1.

2 Description of the roof

Roof system I

Water-based liquid roof membrane Primalit UV Filtr, applied in an amount of approx. 1.5 kg/m²

Glass fiber fabric with a surface mass 150 g/m², STR 028-150-110/125

Top layer bituminous roofing felt Lembit Super W-PYE250 S52 WSBS

Underlayer bituminous roofing felt Lembit Super P-G200 S40 SBS

EPS polystyrene insulation labeled GOLD roof-floor EPS 100, EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS150-CS(10)100-DS(N)2-DS(70,-)2

Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

Roof system II

Water-based liquid roof membrane Primalit UV Filtr, applied in an amount of approx. 1.5 kg/m²

Glass fiber fabric with a surface mass 150 g/m², STR 028-150-110/125

Polyurethane foam insulation labeled PUR PUREX NG 0440 NS with thickness c.a. 100 mm applied by spray method

Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

Roof system III

Solvent-based liquid roof membrane Telsilcoat 200, applied in an amount of approx. 1.3 kg/m²

Glass fiber fabric with a surface mass 150 g/m², STR 028-150-110/125

Top layer bituminous roofing felt Lembit Super W-PYE250 S52 WSBS

Underlayer bituminous roofing felt Lembit Super P-G200 S40 SBS

EPS polystyrene insulation labeled GOLD roof-floor EPS 100, EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS150-CS(10)100-DS(N)2-DS(70,-)2

Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

Roof system IV

Solvent-based liquid roof membrane Telsilcoat 200, applied in an amount of approx. 1.3 kg/m²

Glass fiber fabric with a surface mass 150 g/m², STR 028-150-110/125

Polyurethane foam insulation labeled PUR PUREX NG 0440 NS with thickness c.a. 100 mm applied by spray method

Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

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
Fire Research Laboratory of ITB	Bal Teluria Sp. z o.o.	LZP01-02407/25/Z00NZP	CEN/TS 1187:2012 (test 1)
		LZP02-02407/25/Z00NZP	
		LZP03-02407/25/Z00NZP	
		LZP04-02407/25/Z00NZP	

3.2 Test results

Report no. LZP01-02407/25/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	0,0	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	0,0	0,0	0,0	0,0	Yes
Burning, droplets/debris falling from expose side	No	None	None	None	None	Yes
Burning, glowing particles penetrating the roof	No	None	None	None	None	Yes
Single through opening	< 25 mm ²	0,0	0,0	0,0	0,0	Yes
Sum of all through openings	< 4500 mm ²	0,0	0,0	0,0	0,0	Yes
Lateral fire spread	< edge*	None	None	None	None	Yes
Internal glowing combustion	No	None	None	None	None	Yes
Radius of fire spread (horizontal roof)	< 0.200 m	-	-	-	-	not applicable

N – no
Y – yes
Test conditions: Temperature of air: 19,7°C relative humidity: 41,7%
Roof pitch: 15°
Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

Report no. LZP02-02407/25/Z00NZP

Parameter	Criteria	Test results				Compliance
		1	2	3	4	
Internal fire spread upwards	< 0.700 m	0,115	0,0	0,101	0,105	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	0,0	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	0,115	0,0	0,101	0,105	Yes
Burning, droplets/debris falling from expose side	No	None	None	None	None	Yes
Burning, glowing particles penetrating the roof	No	None	None	None	None	Yes
Single through opening	< 25 mm ²	0,0	0,0	0,0	0,0	Yes
Sum of all through openings	< 4500 mm ²	0,0	0,0	0,0	0,0	Yes
Lateral fire spread	< edge*	None	None	None	None	Yes
Internal glowing combustion	No	None	None	None	None	Yes
Radius of fire spread (horizontal roof)	< 0.200 m	-	-	-	-	not applicable

N – no
Y – yes
Test conditions: Temperature of air: 19,7°C relative humidity: 41,7%
Roof pitch: 15°
Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

Report no. LZIP03-02407/25/Z00NZIP

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	0,0	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	0,0	0,0	0,0	0,0	Yes
Burning, droplets/debris falling from expose side	No	None	None	None	None	Yes
Burning, glowing particles penetrating the roof	No	None	None	None	None	Yes
Single through opening	< 25 mm ²	0,0	0,0	0,0	0,0	Yes
Sum of all through openings	< 4500 mm ²	0,0	0,0	0,0	0,0	Yes
Lateral fire spread	< edge*	None	None	None	None	Yes
Internal glowing combustion	No	None	None	None	None	Yes
Radius of fire spread (horizontal roof)	< 0.200 m	-	-	-	-	<i>not applicable</i>

N – no
Y – yes
Test conditions: Temperature of air: 19,9°C relative humidity: 40,7%
Roof pitch: 15°
Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

Report no. LZIP04-02407/25/Z00NZIP

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	0,0	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	0,0	0,0	0,0	0,0	Yes
Burning, droplets/debris falling from expose side	No	None	None	None	None	Yes
Burning, glowing particles penetrating the roof	No	None	None	None	None	Yes
Single through opening	< 25 mm ²	0,0	0,0	0,0	0,0	Yes
Sum of all through openings	< 4500 mm ²	0,0	0,0	0,0	0,0	Yes
Lateral fire spread	< edge*	None	None	None	None	Yes
Internal glowing combustion	No	None	None	None	None	Yes
Radius of fire spread (horizontal roof)	< 0.200 m	-	-	-	-	<i>not applicable</i>

N – no
Y – yes
Test conditions: Temperature of air: 20,3°C relative humidity: 42,8%
Roof pitch: 15°
Substrate made of particle board plank acc. to CEN/TS 1187 method 1, installed so that gaps do not exceed 5 mm

4 Classification and field of application

4.1 Reference

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

4.2 Classification

Roof systems with membranes Promalit UV Filtr and Telsilcoat 200 described in the section 2, in relation to its fire performance is classified:

B_{ROOF} (t1)

4.3 Field of application

This classification is valid for the following conditions:

- layers of glass fabric with a weight not less than 150 g/m²; overlaps between fabric strips to be at least 50 mm wide
- liquid membrane Primalit UV Filtr applied in an amount of 1.1–1.5 kg/m² or liquid membrane Telsilcoat 200 applied in an amount of 0.9–1.3 kg/m²

applied on:

- any wooden or wood-based substrate with a minimum thickness of 16 mm and gaps not exceeding 5.0 mm; any non-perforated, profiled or non-profiled steel substrate; and any non-combustible continuous substrate (e.g. concrete) with a thickness not less than 10.0 mm
- existing roofs with insulation made of PUR/PIR polyurethane foam, EPS polystyrene, or mineral wool with a bituminous covering
- existing roofs with a non-combustible substrate (e.g. concrete) covered with bituminous roofing felt of any thickness
- roofs with a slope up to 20 degrees
- under the glass fabric layer, the use of thermal insulation made of spray-applied PUR/PIR polyurethane foam with a minimum thickness of 50 mm and a fire reaction class of at least E according to PN-EN 13501-1 is permitted

5 Limitations

5.1 Validity

This classification given remains valid till 19.03.2029, as long as the composition, structure and/or the production's technology remains unchanged.

5.2 Restrictions

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

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