



CLASSIFICATION REPORT FOR RESISTANCE OF ROOF TO THE EFFECTS OF EXTERNAL FIRE FOR PRODUCT

WPC GAMRAT composite decking profile system
02070/24/Z00NZIP (extension of 02020/22/Z00NZIP)

for

OWNER OF CLASSIFICATION REPORT

Gamrat WPC Sp. z o.o.
ul. Mickiewicza 108
38-200 Jasło

Contract No.: 02070/24/Z00NZIP

1 Introduction

This classification report gives the classification for the WPC GAMRAT Composite Decking Profile System according to the procedure given in PN-EN 13501-5:2016.

2 Roof/roofing description

WPC GAMRAT composite decking profile system by Gamrat WPC Sp. z o.o.

WPC GAMRAT decking board made from a composite of wood flour, polyvinyl chloride (PVC) and modifying additives: 160x25 fluted on two sides, 140x25 fluted on one side, 140x25 fluted on two sides, 185x20 fluted on one side. Composite trim made from a composite of wood flour, polyvinyl chloride (PVC) and modifying additives. Aluminum trim, aluminum joist. Steel hardware: starter clip, mounting clip, mounting screw. Plastic adjustable bracket with adapters – Premium line.

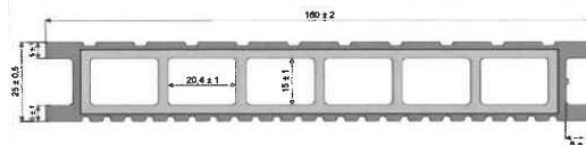


Fig. 1 WPC GAMRAT 160x25 decking board, fluted on two sides

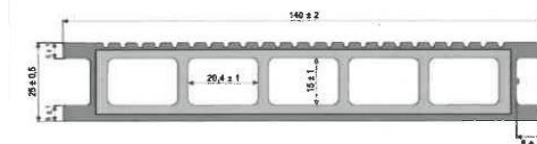


Fig. 2 WPC GAMRAT 140x25 decking board, fluted on one side

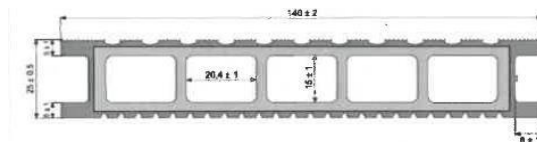


Fig. 3 WPC GAMRAT 140x25 decking board, fluted on two sides

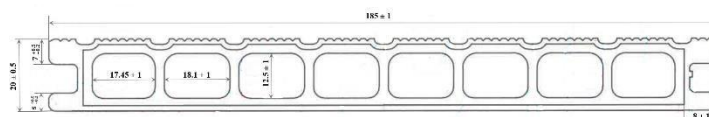


Fig. 4 WPC GAMRAT 185x20 decking board, fluted on one side

Cross-section of WPC GAMRAT composite board (drawings provided by the Principal)

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3 Test reports and results that form the basis for classification

3.1 Test reports

Name of laboratory	Principal's name	Test report number	Test method
BRI Fire Testing Laboratory	Gamrat WPC Sp. z o.o.	LZP01-02148/19/Z00NZP	CEN/TS 1187:2012 (test 1)

3.2 Test results for WPC GAMRAT composite decking profile system set at an angle of 15°

Parameter	Criteria	Sample testing results				Compliance
		1	2	3	4	
Internal upward flame propagation	< 0.700 m	0.0	0.0	0.0	0.0	Yes
External upward flame propagation	< 0.700 m	0.025	0.020	0.080	0.075	Yes
Internal downward flame spread	< 0.600 m	0.0	0.0	0.0	0.0	Yes
External downward flame spread	< 0.600 m	0.010	0.010	0.010	0.010	Yes
Maximum internal burned length	< 0.800 m	0.0	0.0	0.0	0.0	Yes
Maximum external burned length	< 0.800 m	0.025	0.020	0.080	0.075	Yes
Burning drops/debris from the exposed side	No	None	None	None	None	Yes
Burning drops/debris from the underside	No	None	None	None	None	Yes
Single holes	< 25 mm ²	None	None	None	None	Yes
Total of all openings	< 4500 mm ²	0.0	0.0	0.0	0.0	Yes
Lateral flame spread	To the edge*	None	None	None	None	Yes
Internal flameless burning	No	None	None	None	None	Yes
Radius of flame spread (flat roofs)	< 0.200 m	-	-	-	-	<i>not applicable</i>

Ambient conditions: air temperature: 23.5°C

4 Classification and scope of application

4.1 References

The classification was determined in accordance with PN-EN 13501-5:2016.

4.2 Classification

The WPC GAMRAT composite decking profile system described in Section 2 of this classification report is classified in terms of external fire resistance as follows:

BR00F (t1).

This classification is valid for end-use applications in accordance with the technical conditions to be met by buildings and their location, and as for "fire retardant" element according to the Regulation of the Minister of Infrastructure of April 12, 2002 (Journal of Laws No. 75 of June 15, 2002, item 690 as amended).

4.3 Scope of application

- The WPC GAMRAT composite decking profile system can be used on Euroclass A1 or A2 bases,
- The WPC GAMRAT composite decking profile system can be used over a roof system with fire rating according to PN-EN 13501-5:2016 **BR00F (t1)**.
- roofs with a slope of up to 20°.

5 Restrictions

5.1 Validity

The classification is valid until **31-08-2025 (extension)**, provided that the composition and production technology remain unchanged.

5.2 Disclaimers

This classification report is issued in electronic form, with qualified electronic signatures of the responsible persons. A document bearing a qualified electronic signature whose certificate has already expired remains valid nonetheless (the certificate was valid on the day the document was signed). Certified copies can be issued by the BRI Fire Research Department only at the request of the report Owner.

5.3 Notice

This classification document is not a technical approval or product certification.

Classification	Full name	Date	Signature
Prepared by	Tomasz Gwiżdż, Eng.	21.08.2024	Electronically signed document
Reviewed by	Bartłomiej K. Papis, Ph.D. Eng.	21.08.2024	Electronically signed document

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