



Request No 01120/21/R111NZF

Type II Environmental Declaration No nr 291/2021

Products:

termPIR AL R-eco, termPIR BT R-eco, termPIR ETX R-eco insulation panels

according to PN-EN ISO 14021:2016

1. General:

1.1. Requesting party: Gór - Stal Sp. z o. o., ul. Przemysłowa 11, 38-300 Gorlice

1.2. Formal basis of the document:

The formal basis for this document was a request placed by Gór-Stal Sp. z o. o., having its registered office at ul. Przemysłowa 11 in Gorlice, dated 19.10.2021 and Contract No 01120/21/R111NZF entered into with the Building Research Institute for preparing a document entitled “Preparing 3 type II environmental declarations for termPIR R-eco products with respect to hazardous substances content”.

This report sets out the conclusions from the verification of the accuracy of the Manufacturer's environmental claim that reads “free from heavy metals” in respect of the following products: termPIR AL R-eco, termPIR BT R-eco, termPIR ETX R-eco insulation panels. The environmental claim was verified in accordance with current standard PN-EN ISO 14021:2016 on the basis of a test report.

1.3. Scope of the document

- Analysis of heavy metals content in the product carried out by ITB
- Development of “ITB-EKO friendly product” logo
- Preparing a Type II Environmental Declaration certificate

1.4. Materials used

- Test report No LZFO0- 01120/21/R111NZF (heavy metals content in the product)

2. Analysis of documentation

On the basis of the analysis carried out, only trace amounts of heavy metals were found in termPIR R-ECO insulation panels (Table 1 and 2).



Table 1. Metal content values in termPIR R-ECO insulation panel samples


Element	Trace Elements Content* [%]		
	termPIR BT R-ECO insulation panel	termPIR ETX R-ECO insulation panel	termPIR Al R-ECO insulation panel
Arsenium (As)	Less than 0,002	Less than 0,002	Less than 0,002
Cadmium (Cd)	0,00007± 0,00002	Less than 0,00003	0,0003 ± 0,0001
Total Chromium (Cr)	0,0015 ± 0,0004	0,0008 ± 0,0003	0,0003 ± 0,0001
Lead (Pb)	Less than 0,0008	Less than 0,0008	Less than 0,0008
** Selenium (Se)	Less than 0,0003	Less than 0,0003	Less than 0,0003
** Mercury (Hg)	Less than 0,00003	Less than 0,00003	Less than 0,00003

Table 2. Chromium (VI) leaching values from termPIR R-ECO insulation panel samples

Element	Leaching [%]		
	termPIR 80 BT R-ECO insulation panel	termPIR 20 ETX R-ECO insulation panel	termPIR 80 Al R-ECO insulation panel
Chromium (VI)	Less than 0,00001	Less than 0,00001	Less than 0,0001

3. Summary

The analysis carried out confirms the truthfulness of the Manufacturer's self-declared claim that reads "free from heavy metals" with reference to the products evaluated, it being understood that this claim is a generalization used in respect of very low level metal content which has no adverse effect on humans and the environment. Therefore ITB certifies that the one-parameter self-declared claim reading "free from heavy metals" in relation to the products mentioned is consistent with the actual status and complies with the requirements of standard PN-EN ISO 14021:2016 Environmental labels and declarations - Self-declared environmental claims (type II environmental labelling). Moreover, it is hereby certified that in particular, the requirements relating to claim verification (item 6 of the standard) have been met. The favourable results of the verification of the Manufacturer's self-declared claim and satisfaction of the requirements of standard PN-EN ISO 14021:2016 form the basis

 <p>Instytut Techniki Budowlanej <small>Badania naukowe Prace rozwojowe Akredytowany Zespół Laboratoriów Jednostka notyfikowana nr 1488 Członek EOTA Certyfikowane systemy zarządzania ISO 9001, ISO 27001</small></p> <p>ZAKŁAD FIZYKI CIEPLNEJ, AKUSTYKI I ŚRODOWISKA Pracownia Efektywności Energetycznej i Środowiskowej 02-656 Warszawa ul. Ksawerów 21 tel. 22 56 64 343 fax 22 56 64 276 energia@itb.pl</p>	<p>NO OF PAGES 4</p> <hr/> <p>PAGE 3</p>
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for ITB's awarding to the product the “EKO-ITB Friendly Product” logo, accompanied by a one-parameter environmental claim reading “free from heavy metals” - Figure 1.



Fig. Fig 1 “EKO-ITB Friendly Product” mark

The requesting party Gór-Stal Sp. z o. o. has got the right to include in its product offering and other materials (packaging, display boards, articles in the press, advertisements, websites) information about obtaining the “EKO-ITB Friendly Product” in relation to the products mentioned. The Requesting Party is required to notify ITB of any changes in the product manufacturing process that are likely to have an effect on the assessment provided as part of this report.

If no such information is provided or false information is furnished, ITB will decide to revoke the certificate. Certificate No 291/2021 may not be applied in respect of the Manufacturer's other products. The “EKO-ITB Friendly Product” mark - Fig 1 - may not be used in respect of Gór-Stal's other products. This declaration is valid for 3 years and expires on 31 December 2024 .ITB shall not be liable vis-a-vis third parties for awarding the certificate on the basis of untrue data and information obtained from the company Gór-Stal Sp. z o. o.

Prepared by: Michał Piasecki, Ph.D., Eng, Professor of ITB Warszawa, 19.01.2022



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NO OF PAGES 4

PAGE 4

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Instytut Techniki Budowlanej

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Thermal Physics, Acoustics and Environment Department
02-656 Warsaw, Ksawerów 21

CERTIFICATE No 291/2021 of TYPE II ENVIRONMENTAL DECLARATION

Products:

Płyta izolacyjna termPIR AL R-eco, termPIR BT R-Eco, termPIR ETX R-Eco

Manufacturer:

Gór-Stal Sp. z o.o.

ul. Przemysłowa 11, 38-300 Gorlice, Poland



confirms the correctness of the data included in the development of
Type II Environmental Declaration:


**Płyta izolacyjna termPIR AL R-eco, termPIR BT R-Eco, termPIR ETX R-Eco
heavy metals free**

in accordance with the requirements of the standard:

PN-EN ISO 14021:2016-06

Environmental labels and declarations - Self-declared environmental claims
(Type II environmental labelling)

This certificate, issued on 31st December 2021 is valid for 3 years
or until amendment of mentioned Environmental Declaration

Head of the Thermal Physic, Acoustics
and Environment Department

Agnieszka Winkler-Skalna, PhD



Deputy Director
for Research and Innovation

Krzysztof Kuczyński, PhD

Warsaw, December 2021