

**Request No 01120/21/R111NZF****Type II Environmental Declaration No 290/2021****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 03125/21/Z00NZF 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 hazardous substances” 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 an analysis of the documentation furnished. The scope of assessment in terms of the presence of substances hazardous to humans and the environment included: emissions of volatile organic compounds and formaldehyde from products, assessment of fire retardants subject to restrictions, analysis of ozone depletion potential of a blowing agent, assessment of catalysts in terms of the presence of lead, assessment of the content of other hazardous substances subject to restrictions.

**1.3. Scope of the document**

- Analysis of technical documentation submitted by the Requesting Party
- Analysis of the product in light of applicable regulations
- Development of “ITB-EKO friendly product” logo
- Preparing a Type II Environmental Declaration certificate

**1.4. Materials used**

A list and data sheets of materials used in production (the following agents are used as part of the production process: isocyanate, polyol, surfactant, catalyst, anti-pyrene, blowing agent(isopentane)).

- Reports on studies on volatile organic compounds (studies by Eurofins)
- Safety data sheets for the substances used, as provided for in Regulation (EC) No 1907/2006 (REACH), AnnexII, including amendments introduced by Regulation (EU) No 2015/830

- Documentation of the manufacturing process
- Minimum Environmental Criteria (CAM - Italian Environmental Requirements)
- PN-EN ISO 14021 “Environmental labels and declarations”. Environmental self-declarations (Type II environmental labelling)”.
- Regulation (EC) No 2037/2000 on substances that deplete the ozone layer
- Regulation (EC) No 850/2004 on persistent organic pollutants
- Regulation (EC) No 1907/2006 (REACH) Annex XIV, List of substances subject to authorization, as amended
- EU REACH candidate list of substances of very high concern (SVHC) for authorization
- Regulation (EC) No 1907/2006 (REACH) Annex XVII: restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles
- REGULATION (EC) NO 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants
- EC European Commission Report No 29 “Harmonisation framework for health based evaluation of indoor emissions from construction products in the European Union using the EU-LCI”.
- Report on the ozone layer entitled “Polyurethane Foam Without Ozone Depletion Substances”, available at <https://www2.mst.dk/Udgiv/publications/1994/87-7810-285-5/pdf/87-7810-285-5.pdf>

## 2. Analysis of documentation

Based on the analysis carried out of the composition and properties of the products it is hereby stated that termPIR AL R-eco, termPIR BT R-Eco, termPIRETX R-Eco insulation panels;

1. Are not manufactured using fire retardants that are subject to restrictions or prohibitions under applicable national and community regulations
2. Are not manufactured using foam blowing agents with ozone depletion potential higher than zero (isopentane, C5H12, ODP=0)
3. Are not manufactured using lead-based catalysts applied during the spraying or foam blowing process
4. Are not manufactured using substances classified as posing a very high hazard, so-called SVHC, according to Article 59 of Regulation(EC) No 1907/2006 in concentrations exceeding 0,1% weight by weight
5. Emissions of volatile organic compounds and formaldehyde are at low level (class A+, French requirements) and do not exceed the European EU-LCI reference values for VOCs, after 28 days (chamber method)
6. They do not contain heavy metals (a separate report issued by the Building Research Institute on the basis of tests)

### 3. Summary

The analysis carried out confirms the truthfulness of the Manufacturer's self-declaration that reads “free from hazardous substances” in the products assessed, within the scope of assessment described in the document.

Therefore ITB certifies that the one-parameter self-declared claim reading “free from hazardous substances” 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 for ITB's awarding to the product the “EKO-ITB Friendly Product” logo, accompanied by a one-parameter environmental claim reading “free from hazardous substances” - Figure 1.



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 290/2021 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, 28.12.2021



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## CERTIFICATE No 290/2021 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**  
**hazardous substances 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 31<sup>st</sup> 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