



PRODUCT CARBON FOOTPRINT (PCF) MEASURED STATEMENT OF VERIFICATION

Project number: 4790852701.104.1
Issue Date: March 27th, 2024

UL has assessed the Product Carbon Footprint (PCFs) for

WEI CHIH STEEL INDUSTRIES CO LTD

Wei Chih Steel Industries Co LTD contracted UL to perform an external independent verification of the Product Environmental Footprint Report, **Wei Chih Steel Industries Co LTD Wire Rod (Average), February 2024**

January 2022 to December 2022

Wire Rod (Average)

PCF Total Net GHG Emissions and Removals:

9.64E+02 kg of net CO₂e emissions/removals per one metric ton wire rod

Net Fossil GHG emissions and removals:

9.63E+02 kg of net Fossil CO₂e emissions/removals per one metric ton wire rod

Net Biogenic GHG emissions and removals:

4.84E-01 kg of Biogenic CO₂e emissions per one metric ton wire rod

Direct Land Use Change (dLUC) GHG emissions and removals:

6.87E-01 kg of CO₂e emissions per one metric ton wire rod

*note aircraft emissions are negligible and not reported.

Validity Period: March 27th, 2024 – March 27th, 2024

UL's Product Carbon Footprint Measured approach is a critical review of the product carbon footprint to ISO 14067. Greenhouse Gases – Carbon Footprint of Products – Requirements and Guidelines For Quantification. The review meets the criteria of ISO 14071.

The carbon measured program focuses on methodology and is done through a desk assessment of the LCA and footprint report. The verification confirms that the footprint meets the criteria and is not only in compliance with ISO 14067 but also ISO 14040 and ISO 14044 as well as any relevant Product Category Rule.

LCA Verifier	Sung Mo Yeon	
Project Manager	Cooper McCollum, UL Solutions	

UL Verification Services Inc.
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Wei Chih Steel Industries Co LTD

Project number: 4790852701.104.1

Issue Date: March 27th, 2024**REVIEW SCOPE**

The intent of this review was to provide an independent third-party external verification of a completed carbon footprint of product study report to support the Wei Chih Steel Industries Co LTD Wire Rod (Average)

The review of the Carbon Footprint of Products study was performed to demonstrate conformance with the following standards, general program instructions, and product category rules:

- International Organization for Standardization. (2000). *Environmental labels and declarations -- General principles* (ISO 14020:2000).
- International Organization for Standardization. (2006). *Environmental labels and declarations -- Type III environmental declarations -- Principles and procedures* (ISO 14025:2006).
- International Organization for Standardization. (2020). *Environmental management -- Life cycle assessment -- Principles and framework* (ISO 14040:2006/Amd 1:2020).
- International Organization for Standardization. (2020). *Environmental management -- Life cycle assessment -- Requirements and guidelines* (ISO 14044:2006/Amd 1:2017/Amd 2:2020).
- International Organization for Standardization. (2020). *Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification* (ISO 14067:2018).
- UL Environment. (2022). *General Program Instructions*. Version 2.7, revised March.
- UL Environment. (2022). *Part A – Life Cycle Assessment Calculation Rules and Report Requirements, Version 4*
- UL Environment. (2020). *Part B: Designated Steel Construction Product EPD Requirements*.

The independent third-party verification was conducted by an external expert per ISO/TS 14071:2014:

REVIEW & VERIFICATION PROCESS

The review involved the verification based on the requirements set forth by the applicable ISO standards, UL Part B Designated Steel Construction Products PCR, and UL's General Program Instructions (GPIs). The critical review of the Carbon Footprint of Products project report identified and categorized all requirements specified by the PCR, GPIs, and applicable ISO standards.

This review did not include an assessment of the Life Cycle Inventory (LCI) of the Carbon Footprint of Products model, however, it did include a detailed analysis of the individual datasets used to complete the study.

VERIFICATION STATEMENT

Based on the independent verification objectives, the **Product Environmental Footprint Report, Wire Rod (Average), February 2024**, was verified to be *in conformance* with the applicable ISO standards referenced above, the ISO 14040/ISO 14044/ISO 14067 Core and UL Part B Designated Steel Construction Products PCR, and the UL Environment General Program Instructions and are stated in the table below:

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Indicator		Raw material supply (A1)	Transport (A2)	Manufacturing (A3)	Total
Climate Change (IPCC 2021)	Total net GHG emissions/removals	1.82E+02	5.55E+01	7.27E+02	9.64E+02
	Net fossil GHG emissions/removals	1.81E+02	5.54E+01	7.26E+02	9.63E+02
	Net biogenic GHG emissions/removals	3.50E-01	1.16E-02	1.22E-01	4.84E-01
	Direct Land Use Change (dLUC) GHG emissions/removals	1.26E-01	1.17E-01	4.43E-01	6.87E-01

** Functional Unit is one metric ton wire rod with a 1 years use phase.

The plausibility, quality, and accuracy of the LCA-based data and supporting information are confirmed.

As the External Independent Third-Party Reviewer, I confirm that I have sufficient knowledge and experience to the relevant PCR, ISO standards and the geographical areas intended to generate Carbon Footprint of Products to carry out this verification.

Sincerely,



Sung Mo Yeon
CEO
HIP