



# Carbon Footprint of Products

## CFP Declaration

Registration number : JR-BC-20003C

# Ecoleaf Environmental Labeling Program

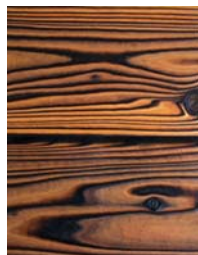
Sustainable Management Promotion Organization

2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>

Nakamoto Zourin Co.,Ltd

Yakisugi 『Shou Sugi Ban』 / Pika-Pika



浮造

(Pika-Pika)



Pika-Pika施工例 (米国)



浮造施工例 (日本)

### Functional unit

1 m<sup>2</sup> (15mm thick)

### System boundary

final products     intermediate products

- Inclusive of: A1 Raw Material Supply, A2 Transport, A3 Manufacture

- Exclusive of: A4 Transport, A5 Construction, B1 Use, B2 Maintenance, B3 Repair, B4 Replacement, B5 Refurbishment, B6 Operational energy use, B7 Operational water use, C1 Demolition, C2 Transport, C3 Waste processing, C4 Disposal

### Main specifications of the product

- Weight: 6.1kg/m<sup>2</sup>
- No paint applied
- Production sites: Hiroshima and Tokushima

### Company Information

Nakamotozourin Co.,Ltd  
<https://nakamotozourin.co.jp>  
 Nakamoto Forestry North America  
<https://nakamotoforestry.com>  
 Nakamoto Forestry Europe  
<https://nakamotoforestry.eu>

Registration#	JR-BC-20003C
PCR number	PA-120000-BC-01
PCR name	Wood、WoodMaterials
Publication date	04/06/2020
Verification date	03/12/2020
Verification method	Product-by-product
Verification#	JR-BC-20003
Expiration date	03/12/2025
PCR review was conducted by:	
Approval date	12/25/2019
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)
Third party verifier*	Tomoko Fuchigami

Independent verification of data & declaration in accordance with ISO/TS14067

internal     external

\*Auditor's name is stated if system certification has been performed.

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1. Quantification results, and contents of the declaration

CFP quantification unit :

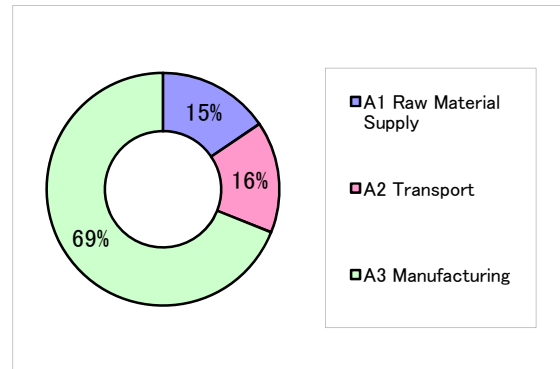
Parameter			Unit
<b>CFP Quantification result</b>		<b>2.3</b>	<b>kg-CO<sub>2</sub>eq</b>
Breakdown	A1 Raw Material Supply	0.36	kg-CO <sub>2</sub> eq
	A2 Transport	0.36	kg-CO <sub>2</sub> eq
	A3 Manufacturing	1.6	kg-CO <sub>2</sub> eq
<b>Value on CFP mark</b>		<b>2.3</b>	<b>kg-CO<sub>2</sub>eq</b>
<b>Unit for the value on CFP mark</b>		<b>1m<sup>2</sup></b>	

\*Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

3. Supplementary environmental information

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2. Additional information



For the analysis, a set of foreground data was first prepared based on the foreground data collected for one year (October 2017 to September 2018) and then they were multiplied by the pertinent background data to estimate environmental loads. Transportation was calculated by collecting actual data over one year. As the product is manufactured in the plants in Hiroshima and Tokushima Prefectures, the averages of data taken from the two plants were used to represent the product data.

The carbon storage was calculated based on Annex F of the PCR as follows:

$$\text{Carbon Storage (kg-C)} = 6.06 \text{ (kg-wood)} \times 0.5 = 3.03 \text{ (kg-C)} \quad (=11.1\text{kg-CO}_2)$$

4. Interpretation

The results revealed greenhouse gas emissions from the A3 Manufacturing stage to be approximately 4 times as large as those from the A1 Raw Material Supply stage or A2 Transport stage.

Furthermore, the process analyses showed that, within the A1 Raw Material Supply stage, the most responsible for the gas emissions were power consumption for product processing (i.e., the sawmilling and baking processes) and also fossil fuel consumption in the baking process. While in the A1 Raw Material Supply stage or A2 Transport stage, log production and transportation of logs to sawmills/factories were found responsible for large CO2 emissions.

5. Assumptions of secondary data used

Inventory Database: IDEA Ver.2.1.3

6. Remarks

- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied. (Reference URL : <https://ecoleaf-label.jp/regulation/>)
- The CFP only addresses the single impact category of climate change and does not assess other potential social, economic and environmental impacts arising from the provision of a product.