Carbon Footprint of Products
CFP Declaration

Registration number： JR-BC-20001C

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』/ Suyaki

素焼

(Suyaki)

Suyaki施工例（米国）

素焼施工例（日本）

Functional unit

1 m^2 (15mm thick)

System boundary

☐ final products ■ intermediate products

- Inclusive of: A1 Raw Material Supply, A2 Transport, A3 Manufacturing
- 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/m2
- 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-20001C
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-20001
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.

Carbon Footprint of Products
CFP Declaration

Registration number : JR-BC-20001C

Ecoleaf Environmental Labeling Program
Sustainable Management Promotion Organization
2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan
https://ecoleaf-label.jp/

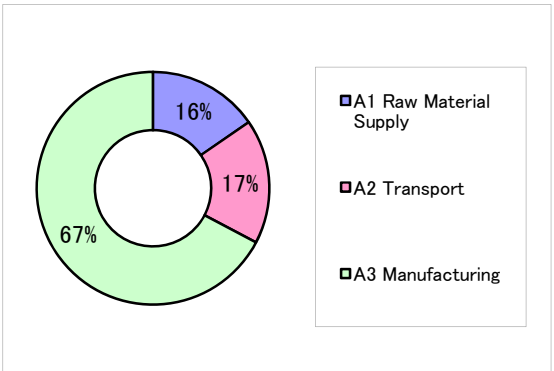
1. Quantification results, and contents of the declaration

CFP quantification unit :

Parameter			Unit
CFP Quantification result		**2.1**	**kg-CO_2eq**
Breakdown	A1 Raw Material Supply	0.32	kg-CO_2eq
	A2 Transport	0.36	kg-CO_2eq
	A3 Manufacturing	1.4	kg-CO_2eq
Value on CFP mark		**2.1**	**kg-CO_2eq**
Unit for the value on CFP mark		**1m^2**	

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

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:

Carbon Storage (kg-C)
=6.06 (kg-wood) × 0.5 =3.03 (kg-C) (=11.1kg-CO2)

3. Supplementary environmental information

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 u

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.