Japan EPD Program by SuMPO
Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
https://ecoleaf-label.jp/

Nakamoto Zourin Co. , Ltd

Yakisugi『Shou Sugi Ban』／Gendai

中本造林株式会社

ブラシ
Gendai

Gendai施工例（米国）

Gendai施工例（日本）

Functional unit

1 m2 (15mm thick)

System boundary

☐ final products ■intermediate products

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

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
NakamotoForestry North America
https://nakamotoforestry.com
NakamotoForestry Europa
https://nakamotoforestry.eu

Registration#	JR-BC-20002E-A
PCR number	PA-120000-BC-03
PCR name	Wood, Wood Materials
Publication date	28/03/2025
Verification date	24/03/2025
Verification method	Product-by-product
Verification#	JV-BC-24002
Expiration date	3/23/2030

PCR review was conducted by:

Approval date	17/Nov/2023
PCR review panel chair	Ken Yamagishi Sustainable Management Promotion Organization

Third party verifier*

Yuki Sakamoto

Independent verification of data & declaration in accordance with ISO14025

☐internal ■external

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

SuMPO EPD

Type III Environmental Declaration (EPD)

Registration number : JR-BC-20002E-A

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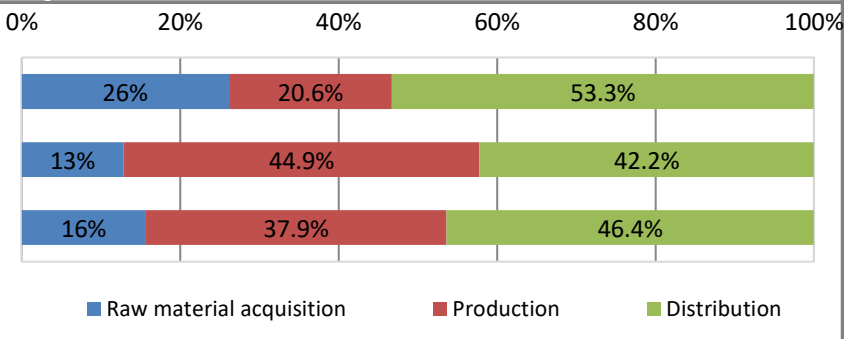
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	3.5	kg-CO_2eq
Acidification	0.0045	kg-SO_2eq
Urban area air pollution	0.000029	kg-Sbeq



Parameter \ stage	Unit	Total	Raw material acquisition	Production	Distribution		
Global warming IPCC2013 GWP100a	kg-CO_2eq	3.5E+00	9.2E-01	7.3E-01	1.9E+00		
Ozone layer destruction	kg-CFC-11eq	2.9E-07	8.7E-08	9.8E-12	2.0E-07		
Acidification	kg-SO_2eq	4.5E-03	5.8E-04	2.0E-03	1.9E-03		
Urban area air pollution	kg-SO_2eq	2.2E-03	3.4E-04	8.3E-04	1.0E-03		
Photochemical ozone	kg-C_2H_4eq	4.4E-05	8.8E-06	1.6E-05	2.0E-05		
Toxic chemicals(cancer)	kg-C_6H_6eq	2.4E-04	2.1E-04	3.6E-06	2.4E-05		
Toxic chemicals(chronic disease)	kg-C_6H_6eq	4.9E-05	4.1E-05	2.4E-06	5.9E-06		
Aquatic toxicity	kg-C_6H_6eq	2.1E-01	2.1E-01	1.2E-07	1.7E-03		
Biological toxity	kg-C_6H_6eq	1.3E+00	1.3E+00	1.9E-06	4.0E-02		
Eutrophication	kg-PO_4^{3-}eq	1.8E-04	1.8E-04	7.5E-12	5.1E-08		
Land use(Occupation)	m^2/year	3.9E+01	3.8E+01	7.8E-02	1.3E-02		
Land use(Transformation)	m^2	2.2E-03	2.9E-04	1.6E-03	2.9E-04		
Resources consumption	kg-Sbeq	2.9E-05	1.6E-05	3.0E-06	1.0E-05		

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	2.9E-02	kg
Non-renewable energy resources	1.2E+00	kg
Non-renewable energy resources	5.1E+01	MJ
Renewable material resources	9.8E+00	kg
Renewable primary energy	6.8E+00	MJ
Consumption of freshwater	3.8E+01	m^3

3. Material composition

Material		Unit
Yakisugi	6.1.E+00	kg
Hot Melt	5.4.E-03	kg
Packing Material (Shrink Film)	5.6.E-03	kg
Packing Material (PP Band)	4.4.E-04	kg

4. Waste to disposal

Parameter		Unit
Hazardous waste	-	kg
Non-hazardous waste.	3.80E-03	kg
Treated MSW for landfill	3.98E-11	kg
Treated industrial waste for landfill	3.80E-03	kg

*Data derived from LCA and not assigned to the impact categories of LCIA

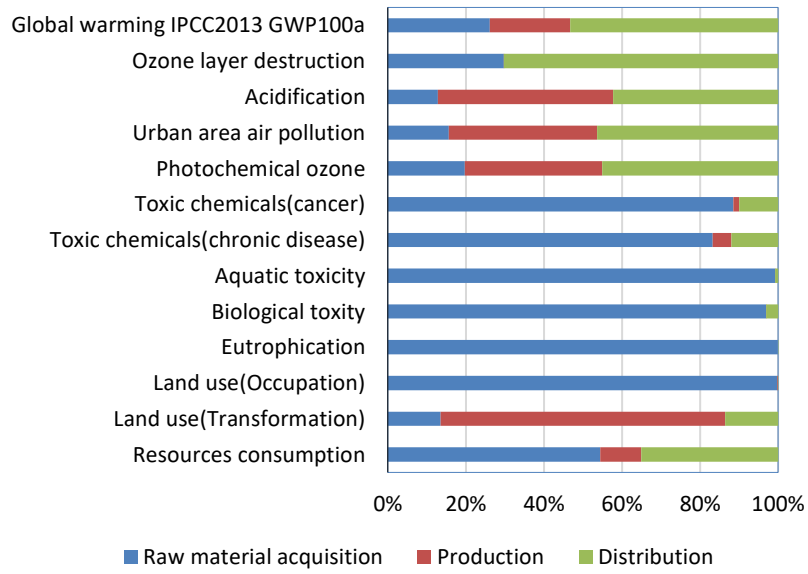
5. Additional explanation

For the analysis, a set of foreground data was first prepared based on the foreground data collected for one year (October 2023 to September 2024) 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 analysis revealed that dominant stages varied depending on the LCI parameters.

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)



6-1. Supplementary environmental information

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6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations

7. Assumptions of secondary data used

Inventory Database: IDEA Ver.3.1.0

8. 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/）
- This is a selfdeclared translation of EPD that can be accessed at [検証済みEPDへのリンクを追加してください]

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