



✓ Third party verified
Environmental Product Declaration

In conformance with
ISO14025 | ISO14040 | ISO14044



Yamasa Mokuzai Co., Ltd.

Structural Timber (Cypress)



Registration number

SuMPO-EPD-2607-182-1

Verification date

2026/7/7

Publication date

2026/7/17

Expiration date

2031/7/6

EPD type

Single Product EPD

* First publication date

Additional standards in conformance

ISO21930:2017

EPD can be updated or withdrawn during the validity period. To confirm the validity of this EPD, check the following website:
<https://ecoleaf-label.jp/epd/search>

Environmental Product Declaration for **Structural Timber (Cypress)**

● General Information

> Programme

Programme name	SuMPO EPD Japan
Programme operator	Sustainable Management Promotion Organization (SuMPO)
Address	KANDA SQUARE GATE 4F, 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo, 101-0047, Japan
Website	https://ecoleaf-label.jp

> GPI and PCR

GPI	SuMPO EPD Japan General Program Instructions v.2.1.1
PCR name	Engineered wood products for construction
PCR registration number	SuMPO-PCR-01002-2-0-0
PCR publication date	2026/04/17
PCR review panel chair	Nobuharu Hattori (Tokyo University of Agriculture and Technology)
PCR valid until	2031/04/16
PCR issuer	Sustainable Management Promotion Organization (SuMPO)

> Verification

Verification Type	Third-party verification in conformance with ISO14025 and ISO21930:2017		
	☐ Internal	☒ External	
	☐ Third-party verification by individual verifier	☒ Third-party verification by verification body	☐ Third-party verification by system certification
Verification body	Ui Shohei (KAKEN TEST CENTER General Incorporated Foundation)		

> Standards

Standards in conformance with;	☒ ISO14040:2006	☒ ISO14044:2006	☐ ISO14067:2018
	☒ ISO14025:2006	☐ ISO21930:2007	☒ ISO21930:2017
	☐ EN15804+A2	☐ EN50693:2019	☐ ISO/IEC63366:2025

EPD owner is responsible for the information contained in the EPD and for environmental claims related to the information. For any inquiries or requests regarding the content of the EPD, please contact the EPD owner.

EPDs are comparable only if they comply with the same standards, use the same sub-PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works. Comparability of EPDs is limited to those applying a functional unit.

The LCIA results are relative expressions and do not predict impacts on category endpoints, the exceedance of thresholds, safety margins or risks.

When using weighted averages for calculation, the life cycle impact assessment results, life cycle inventory analysis-related information, waste-related information, and environmental information on output flows do not correspond to information about a specific product.

● EPD Owner's Information

Name of company and dept.	Production Department, Yamasa Mokuzai Co.,Ltd.
Address	2090 Maeda, Kimotsuki-cho, Kimotsuki-gun, Kagoshima, Japan
Contact	+81-994-31-4141
LCA practitioner	Woonerf Inc.
Company description	Manufacturing and processing of sawn timber, glulam, and CLT, as well as the design and construction of large-scale timber structures.

Environmental Product Declaration for **Structural Timber (Cypress)**

●Product Information

Product name		Structural Timber (Cypress)	
Product /model number		JAS-certified structural lumber, 120 × 120 mm	
Product specification	Function	Wood-based products for construction	
	Mass	440.01kg/m3	*Calculated value based on production during the reporting period Conversion factor 440.01kg/m3
	Applications	Structural members such as beams, columns, and sills used in buildings	
	TS*	Wood-based building materials compliant with the JAS standard	
Service life	Service life	Based on the service life of the building	
	In-use conditions	Based on the in-use conditions of the building	
	reference	-	
Manufacturing site(s)		Shimoju Factory (Kimotsuki-cho, Kagoshima)	
Product description		Made from domestically sourced Japanese cypress (hinoki), the product is manufactured under strict quality control—including drying and finishing—and is used for applications ranging from residential materials to timber structural construction.	
Website		http://www.woodist.co.jp	

* TS: technical specifications,

●Product Content

Product components	Proportion (%)	Mass (unit)
Wood	100.0	440.00 kg
Packaging materials	Proportion (%)	Mass (unit)
Polypropylene strapping	100.0	0.01 kg

●Biogenic Carbon Content

Item	Content (kg-C)	Content (kg-CO ₂ eq)
Biogenic carbon content per product	191.40	701.80
Biogenic carbon content in packaging	0.00	0.00

● LCA-related Information

> EPD Type Information

EPD type	Product type	☒ Single product EPD	☐ Multiple products EPD	☐ Industry-wide EPD
	Site type	☒ Single site	☐ Multiple sites	
	Value	☒ Specific	☐ Average	☐ Representative ☐ Worst case
Geographical coverage		Global		
Description of representativeness for multiple-products/sites EPD		—		
Description of variation for multiple-products/sites EPD		—		
Description of products covered in the multiple products EPD		—		

> LCA Information

Declared unit		per 1m ³ of product		
Mass per declared unit (Conversion factor to mass)		440.01kg/m ³ *Calculated value based on production during the reporting period		
Reference flow (number of products required to fulfil the function)		—		
System boundary		☒ Cradle-to-Gate	☐ Cradle-to-Gate with options	☐ Cradle-to-Grave
LCA software		MiLCA ver1.2.2.0		
LCI database		IDEA v3.5.1		
Characterization model		GWP IPCC2021 100a、LIME2		
Use of other background data		—		
Secondary data quality		Calculations were performed using data that meets the secondary data quality requirements specified in the GPI. The data quality assessment was conducted in accordance with Section 4.2.3.6 of ISO 14044:2006 (Environmental management – Life cycle assessment – Requirements and guidelines).		
Primary data collection sites		Shimoju Factory		
Primary data collection period		From May 2024 to April 2025		
Biogenic carbon		☐ 0/0 approach	☒ -1/+1 approach	
Information about electricity	Use	☒ Average consumption mix	☐ Others	
	Type	—		
	Purchase date	—		
	Issuing body	—		

> Modules

Production stage			Construction stage		Use stage							End-of-life stage				Suppl. info
A1	A2	A3	A4	A5	Use					Operation		End-of-life stage				D
B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4						
Extraction and upstream production	Transport to factory	Manufacturing	Transport to site	Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction / Demolition	Transport to waste processing or disposal	Waste processing	Disposal of waste	Potential net benefits
☒	☒	☒	—	—	—	—	—	—	—	—	—	—	—	—	—	—

■ : declared module — : module not declared

> Allocation

In this assessment, process subdivision and allocation were examined in accordance with the procedures specified in the GPI. In particular, fuel, electricity, water used for crack prevention spraying, and steam used for drying in the manufacturing process were allocated to the target products based on the production output (physical quantity) ratio. This allocation approach was adopted because, due to the nature of the products, there are no differences in manufacturing processes or processing time between the target and non-target products. Polypropylene strapping used as packaging materials were also allocated to each product based on the production output (physical quantity) ratio.

By-products generated during the lumber manufacturing process, including sawdust, wood chips, planer shavings, and offcuts (used as boiler fuel or collected by third-party purchasers), are not the primary products of the manufacturing process. Therefore, no allocation of energy, water, or other resources was applied to these by-products, and the target products bear the entire environmental burden within the system boundary.

> Cut-off rules

Since the environmental impact of consumables is subject to the cutoff, we applied the cutoff. And processes with negligible environmental impacts for which data collection was challenging were excluded by applying the 5% cut-off criteria specified in the PCR. Regarding the application of JAS certification stickers, requirements vary by manufacturer, making it difficult to establish representative or specific data. Since these stickers account for less than 1% of the total weight and pose no hazardous concerns, they were excluded from the assessment as a cut-off item.

> System Boundary

The system boundaries were established in accordance with the PCR. Modules A4 through C, as well as Module D—defined as outside-boundary processes in the GPI and PCR—are excluded from the assessment. The temporal system boundary is set at 100 years.

The assessment scope is 'Cradle-to-Gate,' covering Modules A1, A2, and A3.

Based on PCR Section 4.4.6, the following items were excluded from the scope of calculation as being outside the system boundaries:

- Processes related to employee work activities and commuting.
- Processes related to research and development (R&D) and administrative office operations.
- Processes related to the manufacturing and construction of capital goods, such as manufacturing facilities and equipment (excluding power plants and power generation equipment).
- Processes related to the manufacturing of transport vehicles, such as trucks and ships.
- Processes related to general-purpose materials (e.g., work clothes, gloves) that are used for purposes other than the manufacturing of the target product.

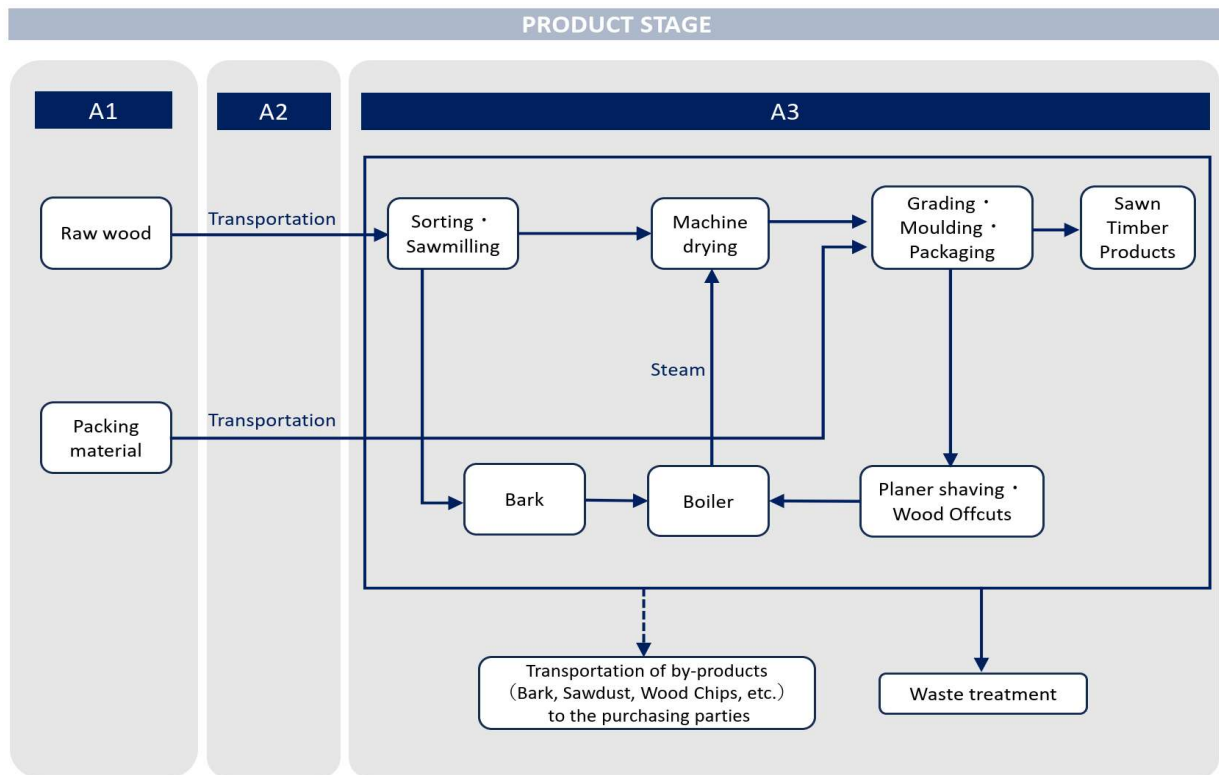
> Scenario

Modules	Description
A2	The scenarios specified in the PCR were applied for transport vehicles and loading rates.
A3	The scenarios specified in the PCR were applied for transport vehicles and loading rates.

> Electricity Modelling

For all life cycle stages within the scope, the calculation was conducted using the Japanese national average grid electricity data for the year 2022.

> Life Cycle System Diagram



---> This refers to by-products that are collected by the purchasing party;
Therefore, transportation is not accounted for as a burden in this calculation.

[illegible][illegible]

*RPRE: Renewable primary resources used as an energy carrier. RPRM: Renewable primary resources with energy content used as material. NRPRE: Non-renewable primary resources used as an energy carrier. NRPRM: Non-renewable primary resources with energy content used as material.

[illegible][illegible]

> Description of LCA Results

- This declaration covers the manufacturing stage only (A1: Raw material supply, A2: Transport of raw materials, and A3: Manufacturing).
- For the transport scenarios in Modules A2 and A3, the vehicle types and load factors specified in the PCR were applied. The transport distances for raw materials and packaging materials are based on primary data.
- The calculation for this product does not include the pre-cutting process or the construction stage (Modules A4–A5).
- The calculation results for the declared product may vary depending on the data collection year, as the production volume of the product is subject to fluctuations in customer orders.

● Additional Environmental Information

> Additional Environmental Information not related to LCA

- All logs utilized in the production of this product are compliant with the Japan's Clean Wood Act. We are registered as both a "Type 1" Wood-related Business Entity for log handling and a "Type 2" Wood-related Business Entity for processed wood products.
- This product has obtained forest-certification, and Chain of Custody (CoC) certification, which ensures that the timber is properly managed throughout the processing and distribution stages, can be provided upon request at the time of order.

> Information on Hazardous Substances

Hazardous materials name	CAS No.	Standards or regulations
-	-	-
-	-	-
-	-	-

Release of dangerous substances from construction products

N/A

● Definitions of Terms

N/A

● References

- ISO14025:2006 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
- ISO14040:2006 Environmental management - Life Cycle Assessment - Principles and framework
- ISO14044:2006 Environmental management - Life Cycle Assessment - Requirements and guidelines
- ISO21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services
- Forestry Agency "Guidelines on the Disclosure of Carbon Storage Quantities for Wood Used in Buildings"

● Version History

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