

Japan EPD Program by SuMPO

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



KUROSAWA Highly Durable PCaPC Pretension Girder & Beam Products (Fc=60N/mm²)



Registration#

PCR number

PCR name

Publication date

Verification date

Verification#

Expiration date

PCR review

panel chair

Functional unit

1m³

System boundary

☐ final products ■ intermediate products

Product Stage (Cradle to Gate: A1-A3)

Main specifications of the product

Product Number: Pre-PG-PB-60 Specified Design Strenth: 60N/mm2 Product Weight: 2,500kg per 1m²

Kanto Sakuragawa Factory

Company Information

KUROSAWA CONSTRUCTION CO., LTD Marketing Depertment

TEL +813-6302-0222 URL:https://www.kurosawakensetu.co.jp,

Takahiro Atou
Independent verification of data & declaration in accordance
with ISO14025 and ISO21930

JR-BH-22007E-A

PA-172290-BH-03

11/18/2022

12/2/2022

JV-BH-22008

Ken Yamagishi

12/1/2027

Verification method Product-by-product

PCR review was conducted by:

Approval date 4/1/2022

Precast Concrete PC (intermediate goods)

(Affiliation: Sustainable Management Promotion Organization)

■ external

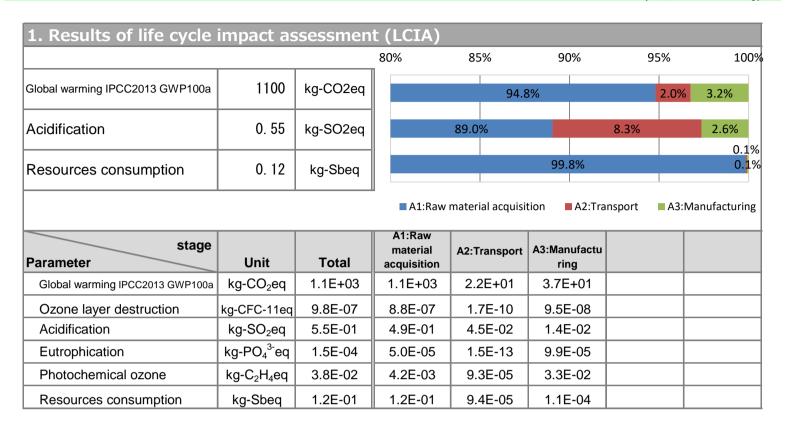
Registration number: JR-BH-22007E-A

□internal

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

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2. Life cycle inventory analysis (LCI)			
項目		単位	
Non-renewable material resources	2.8E+03	kg	
Non-renewable energy resources	1.2E+04	MJ	
Renewable material resources	1.6E+02	kg	
Renewable primary energy	9.6E+01	MJ	
Consumption of freshwater	1.7E+00	m3	

3. Material composition			
Material		Unit	
Cement	18	%	
Admixture	0.24	%	
Aggregates	76	%	
Rebars and PC wires	6.1	%	
Other materials	0.53	%	

4. Waste to disposal		
Parameter		Unit
Hazardous waste	0.00E+00	kg
Non-hazardous waste.	2.7E+00	kg

^{*}Data derived from LCA and not assigned to the impact categories of LCIA $\,$



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5. Additional explanation

<Scope of Lifecycle Stages>

- This declaration result consists of the Cradle to Gate stages (A1:Raw material acquisition, A2:Transport, A3:Manufacturing).
- <Outline of Transport Scenarios>
- For transportation of raw material procurement, the scenarios in PCR Annex B were applied for the means of transportation, loading rate, and domestic transportation at the import destination. When transportation involved marine transportation and domestic transportation, the distance was calculated based on the primary data.

6-1. Supplementary environmental information

- · No toxic substances in the product.
- The design service life of this product shall be 200 years. The specified design service life of the building's structural frame has been verified by a third-party organization, the Center for Better Living (report on verification results dated May 25, 2020).
- The installing of prestress into the structural frame and members of high-strength concrete in advance prevents cracks that cause deterioration and suppresses the intrusion of deterioration factors such as carbonization, resulting in a highly durable product with significantly less deterioration over time.
- This product's declaration URL:

https://ecoleaf-label.jp/english/?monthFrom=&yearFrom=&monthTo=&yearTo=&keyword=JR-BH-22007E&search=Search

7. Assumptions of secondary data used

Based on the IDEA v2.1.3 and the intensity data v1.12 registered in Japan EPD Program by SuMPO

8. Remarks

Date of change: December 7, 2022

- · Calculation results changed due to changes in the amount of activity in the manufacturing process.
- · Added declaration URL to "6-1, Supplementary environmental information".
- 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/)

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