EcoLeaf Type III Environmental Declaration (EPD)

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization 14-8, Uchikanda 1-Chome, Chiyoda-ku, Tokyo Japan https://ecoleaf-label.jp/



Registration number: JR-BH-23001E

KUROSAWA Highly Durable PCaPC Posttension Column Products (Fc=60N/mm²)





Functional unit

 1m^{i}

System boundary

☐ final products ■ intermediate products

Product Stage (Cradle to Gate: A1-A3)

Main specifications of the product

Product Number: Post-PC-60

Specified Design Strenth: 60N/mm2 Product Weight: 2,550kg per 1m²

Kanto Sakuragawa Factory

Company Information

KUROSAWA CONSTRUCTION CO., LTD Marketing Depertment

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

Registration#	JR-BH-23001E	
PCR number	PA-172290-BH-03	
PCR name	Precast Concrete PC (intermediate goods)	
Publication date	1/18/2023	
Verification date	1/11/2023	
Verification method	Product-by-product	
Verification#	JV-BH-23001	
Expiration date	1/10/2028	
PCR review was conducted by:		
Approval date	4/1/2022	
PCR review	Ken Yamagishi	
panel chair	(Affiliation:Sustainable Management Promotion Organization)	

Third party verifier*

Shinichi Inoue

Independent verification of data & declaration in accordance with ISO14025 and ISO 21930

□internal ■ external

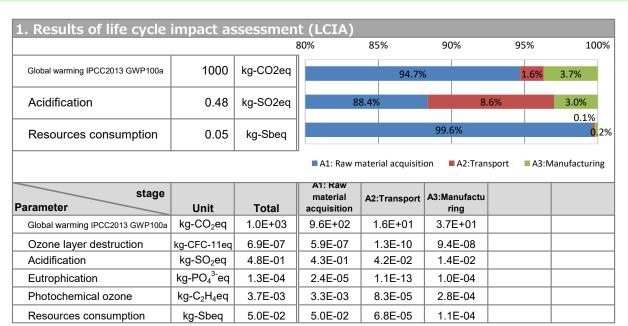
Registration number: JR-BH-23001E

 $[\]hbox{*-} \hbox{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	2.7E+03	kg		
Non-renewable energy resources	1.0E+04	MJ		
Renewable material resources	1.5E+02	kg		
Renewable primary energy	7.9E+01	MJ		
Consumption of freshwater	1.5E+00	m3		
Non-renewable energy resources	3.0E+02	kg		

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

3. Material composition				
Material		Unit		
Cement	17	%		
Admixture	0.27	%		
Aggregates	74	%		
Rebars and PC wires	7.5	%		
Other materials	0.36	%		

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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

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/en/epd/720

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

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- 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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