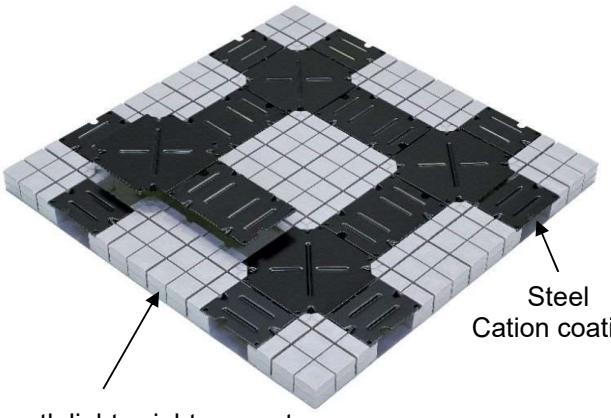
EcoLeaf
Type III Environmental Declaration (EPD)
Registration number： JR-AG-23005E-A

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

KYODO KY-TEC CORP.

Network Floor 40

(For using in North America)



High Strength lightweight concrete
+
Plastic

【Product image】

Functional unit

1㎡

System boundary

■ final products ☐intermediate products

Production, Construction, Use, Disposal and Recycle

It is an export product for North America.

Main specifications of the product

Product Name : Network Floor

Product Type : Network Floor 40 (For using in North America)

Product Size(mm) : 600 X 600 X 40

Product Weight : 30kg/㎡

Load capacity：5000N･3000N evaluated product
by Japan Public Buildings Association

Composition : High Strength lightweight concrete, Plastic, Steel, Cation coating

Main plants :
KYODO KY-TEC CORP. Kanagawa Technical Center
Tokai Plant Ube Plant

Reference Service Life : 40 Years

Company Information

KYODO KY-TEC CORP. Floor System Division
TEL : (03) 6825-7040 E-mail : floor@ky-tec.co.jp
URL : https://www.ky-tec.co.jp/english/oa/ (English)
https://www.ky-tec.co.jp/oa/ (Japanese)

Registration#	JR-AG-23005E-A
PCR number	PA-242159-AG-05
PCR name	Raised floor
Publication date	2/24/2023
Verification date	2/17/2023
Verification method	Product-by-product
Verification#	JV-AG-23005
Expiration date	2/16/2028

PCR review was conducted by:

Approval date	12/26/2022
PCR review panel chair	Ken Yamagishi (Affiliation Sustainable Management Promotion Organization)

Third party verifier*

Tetsuya Okuyama

Independent verification of data & declaration in accordance with ISO14025

☐internal ■external

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

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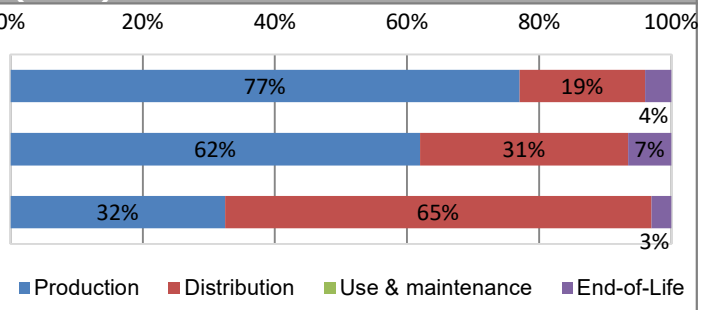
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	65	kg-CO2eq
Acidification	0.051	kg-SO2eq
Photochemical ozone	0.00075	kg-C2H4eq



Parameter \ stage	Unit	Total	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	6.5E+01	5.0E+01	1.2E+01	-	2.6E+00
Ozone layer destruction	kg-CFC-11eq	4.0E-07	3.8E-07	7.7E-11	-	1.3E-08
Acidification	kg-SO_2eq	5.1E-02	3.2E-02	1.6E-02	-	3.4E-03
Photochemical ozone	kg-C_2H_4eq	7.5E-04	2.4E-04	4.9E-04	-	2.3E-05
Eutrophication	kg-PO_4^{3-}eq	2.1E-04	8.1E-07	7.6E-14	-	2.1E-04

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	4.0E+01	kg
Non-renewable energy resources	2.4E+01	kg
Non-renewable energy resources	9.0E+02	MJ
Renewable material resources	9.6E+00	kg
Renewable primary energy	6.6E+00	MJ
Consumption of freshwater	7.3E-02	m^3

3. Material composition

Material		Unit
Metal (Coated Steel)	32	%
Wood	0	%
Plastic	3	%
Others (Concrete)	65	%

4. Waste to disposal

Parameter		Unit
Hazardous waste	0.00E+00	kg
Non-hazardous waste.	3.6E+01	kg
Treated MSW for landfill	0.0E+00	kg
Treated industrial waste for landfill	3.6E+01	kg

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

5. Additional explanation

・As for the product is produced domestically in Japan and used in North America. Therefore, the transportation load at the production stage was calculated in accordance with PCR scenario. The Transportation load at the construction stage was calculated in accordance with the realized projects in the U.S. market. The disposal/recycling stage was calculated by using the disposal scenario in Japan described in the PCR.
The load of installation is not included in the construction stage.

・The material recycled content

Materials	Weight（kg）	Percent of Total Weight	Percent of Recycled Contents	
			Percent of Pre Consumer	Percent of Post Consumer
STEEL	9.67	32.3%	0.0%	25.0%
PAINT	0.03	0.1%	0.0%	0.0%
PLASTIC	0.83	2.8%	0.0%	60.0%
CEMENT	9.37	31.3%	42.1%	0.0%
AGGREGATE	2.85	9.5%	0.0%	0.0%
WATER	7.17	24.0%	0.0%	0.0%
TOTAL	29.92	100.0%	13.2%	9.7%

Pre-consumer and post-consumer were classified based on the definitions of terms in JIS Q 14021. Metals were determined and calculated based on the raw material information procured by KYODO KY-TEC CORP. in the last year, plastics were determined and calculated based on information on the material specifications of the supplier, and cement was determined and calculated based on information published by the Japan Cement Association.

・End-of-Life scenario: The scenario complies with PCR's scenario for waste disposal of used products.

	Waste	Recycled	Incineration	Landfill
End-of-Life	WOOD	83.5%	13.3%	3.2%
	STEEL	96.2%	1.3%	2.6%
	PLASTIC	60.3%	24.4%	15.3%
	PAPER	81.3%	15.3%	3.3%
	COMBUSTIBLE WASTE	0.0%	100.0%	0.0%
	NON COMBUSTIBLE WASTE	0.0%	0.0%	100.0%

6-1. Supplementary environmental information

Japan ECO MARK:Registration No. 08123025

6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations
-	-	-

7. Assumptions of secondary data used

IDEA v2.1.3

8. Remarks

Date of change: April 14, 2023 ・Corrected errors in some units and changed to easier-to-understand notation.

- 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/)