SuMPO EPD

Type III Environmental Declaration (EPD)

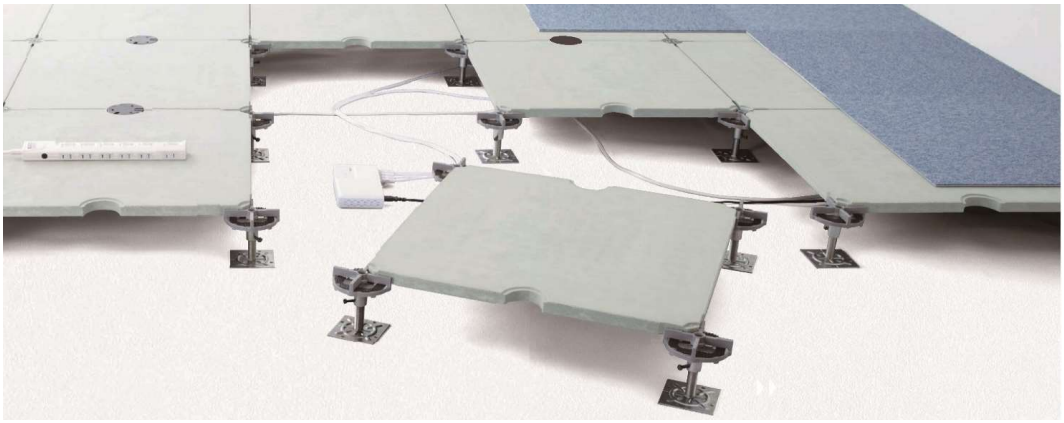
Registration number： JR-AG-24003E

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

NICHIAS

NICHIAS Corporation

NICHIAS PAT FLOOR M300A



Functional unit

1m2

System boundary

■ final products　□intermediate products

Raw material procurement,production,
distribution,disposal・recycle

Main specifications of the product

Product Name	NICHIAS PAT FLOOR M300A
Format	M300A
Size	498mm×498mm×21mm
Weight	49.6 kg per 1m2
Max.load	3000N(rigidity,deflection:5.0mm)
Material	GRC cement+Steel sheet
Main Manufacturing Sites	Amenity building material Corporation

Company Information

NICHIAS Corporation Building Materials Division

URL:https://www.nichias.co.jp

Registration#	JR-AG-24003E
PCR number	PA-242159-AG-07
PCR name	Raised floor
Publication date	6/26/2024
Verification date	4/23/2024
Verification method	Product-by-product
Verification#	JV-AG-24003
Expiration date	4/22/2029

PCR review was conducted by:

Approval date	5/10/2023
PCR review panel chair	Ken Yamagishi (Affiliation:Sustainable Management Promotion Organization)

Third party verifier*

Takahiro Atoh

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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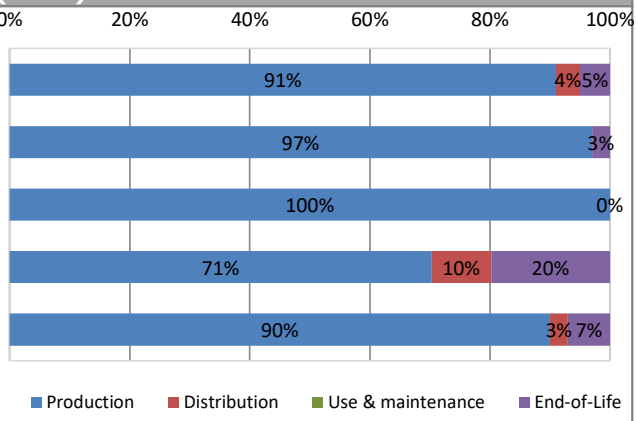
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	35	kg-CO2eq
Ozone layer destruction	0.0022	g-CFC-11eq
Eutrophication	0.79	g-PO43-eq
Acidification	33	g-SO2eq
Photochemical ozone	0.26	g-C2H4eq



Parameter \ stage	Unit	Total	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	3.5E+01	3.2E+01	1.3E+00	—	1.8E+00
Ozone layer destruction	g-CFC-11eq	2.2E-03	2.2E-03	5.0E-07	—	6.2E-05
Eutrophication	g-$PO4^{3-}$eq	7.9E-01	7.9E-01	7.1E-06	—	1.3E-04
Acidification	g-SO_2eq	3.3E+01	2.3E+01	3.2E+00	—	6.5E+00
Photochemical ozone	g-C_2H_4eq	2.6E-01	2.3E-01	7.3E-03	—	1.8E-02

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	4.5E+01	kg
Non-renewable energy resources	4.0E+02	MJ
Renewable material resources	5.6E+00	kg
Renewable primary energy	2.9E+01	MJ
Consumption of freshwater	9.3E-02	m^3

3. Material composition

Material		Unit
metal	2.9	%
wood	0.0	%
plastic	0.7	%
others	96.4	%

4. Waste to disposal

Parameter		Unit
Hazardous waste	0	kg
Non-hazardous waste.	51.4	kg

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

5. Additional explanation

・Transportation primary data was difficult to obtain, those items were calculated by the PCR method.

・The stage of use and maintainance was excluded from the calculation by the PCR method.

6-1. Supplementary environmental information

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6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations
Methylenebis(4,1-phenylene)diisocyanate	101-68-8	Pollutant Release and Transfer Register Industrial Safety and Health Act
Di-isononyl phthalate	28553-12-0	Industrial Safety and Health Act

7. Assumptions of secondary data used

IDEA ver.3.1.0 was used.

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/)