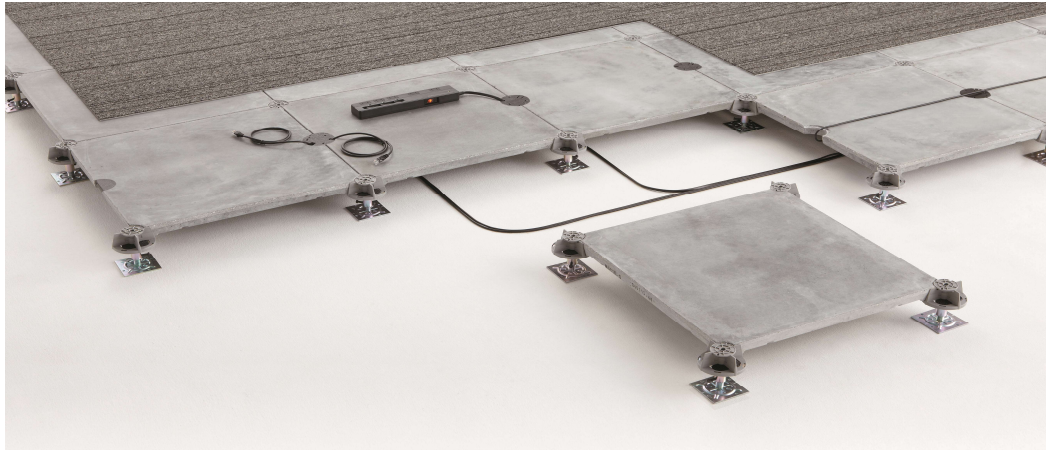




**NICHIAS Corporation**

**NICHIAS OMEGA 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 OMEGA FLOOR M300A
Format	M300A
Size	497.5mm×497.5mm×31.5mm
Weight	49.9kg per 1m2
Max.load	3000N(rigidity, deflection:5.0mm)
Material	Fly ash cement+Rebar
Main Manufacturing Sites	NICHIAS FGS SDN.BHD.

**Company Information**

NICHIAS Corporation Building Materials Division

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

<b>Registration#</b>	JR-AG-24005E
<b>PCR number</b>	PA-242159-AG-07
<b>PCR name</b>	Raised floor
<b>Publication date</b>	6/26/2024
<b>Verification date</b>	5/15/2024
<b>Verification method</b>	Product-by-product
<b>Verification#</b>	JV-AG-24005
<b>Expiration date</b>	5/14/2029
<b>PCR review was conducted by:</b>	
<b>Approval date</b>	5/10/2023
PCR review panel chair	Ken Yamagishi <small>(Affiliation:Sustainable Management Promotion Organization)</small>

**Third party verifier\***

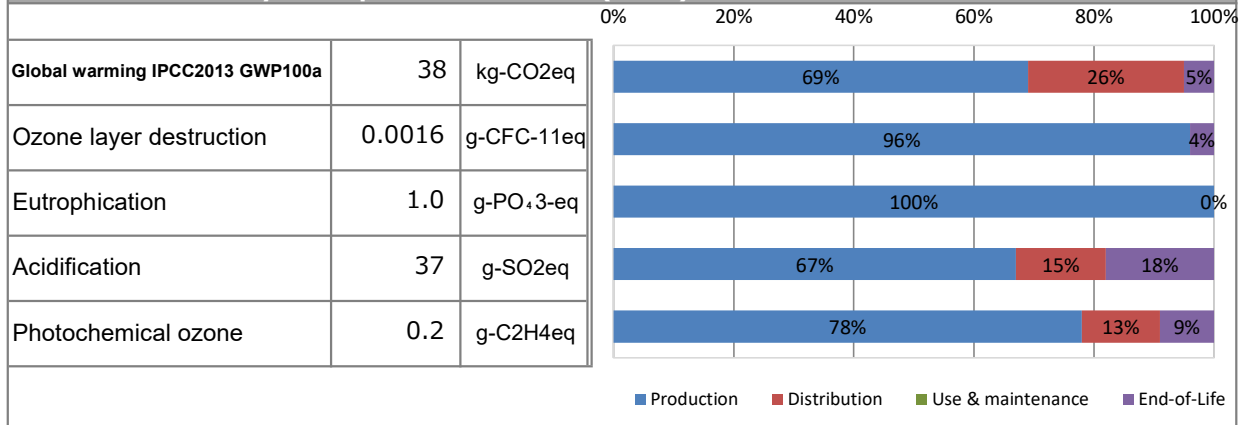
Takahiro Atoh

Independent verification of data & declaration in accordance with ISO14025

- internal
- external

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

### 1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	3.8E+01	2.6E+01	9.7E+00	—	1.8E+00
Ozone layer destruction		g-CFC-11eq	1.6E-03	1.6E-03	5.6E-06	—	6.3E-05
Eutrophication		g-PO <sub>4</sub> -3-eq	1.0E+00	1.0E+00	2.0E-04	—	1.3E-04
Acidification		g-SO <sub>2</sub> eq	3.7E+01	2.4E+01	5.7E+00	—	6.5E+00
Photochemical ozone		g-C <sub>2</sub> H <sub>4</sub> eq	2.0E-01	1.6E-01	2.6E-02	—	1.8E-02

### 2. Life cycle inventory analysis (LCI)

Parameter	Value	Unit
Non-renewable material resources	4.8E+01	kg
Non-renewable energy resources	4.0E+02	MJ
Renewable material resources	5.4E+00	kg
Renewable primary energy	1.8E+01	MJ
Consumption of freshwater	5.2E+00	m <sup>3</sup>

### 3. Material composition

Material	Value	Unit
metal	3.5	%
wood	0.0	%
plastic	0.3	%
others	96.2	%

### 4. Waste to disposal

Parameter	Value	Unit
Hazardous waste	0	kg
Non-hazardous waste.	3.3.E-01	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 maintenance was excluded from the calculation by the PCR method.

**6-1. Supplementary environmental information**

Produced at the 「ISO9001(MY97/10883),ISO14001(MY02/56146)」 factory

**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/>)