



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AD-23001E-A

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>

LIXIL Corporation

aluminium profile「PremiAL R100」



**Functional unit**

1kg

**System boundary**

final products     intermediate products

Raw material acquisition-Distribution-Production

**Main specifications of the product**

Products type:aluminium profile

aluminium window products

(Aluminium sash for buildings, Building curtain wall, Aluminium sash for homes)

Mass range : 1~600kg

Material : aluminium

Production sites:Oyabe factory,Shimotsuma factory

Thai factory

**Company Information**

LIXIL Corporation,Technical support "eDESK"

[edesk@lixil.com](mailto:edesk@lixil.com)

<b>Registration#</b>	JR-AD-23001E-A
<b>PCR number</b>	PA-212300-AD-05
<b>PCR name</b>	Windows
<b>Publication date</b>	8/4/2023
<b>Verification date</b>	1/24/2024
<b>Verification method</b>	Product-by-product
<b>Verification#</b>	JV-AD-24001
<b>Expiration date</b>	1/23/2029
<b>PCR review was conducted by:</b>	
<b>Approval date</b>	5/10/2023
<b>PCR review panel chair</b>	Masayuki Kanzaki (Sustainable Management Promotion Organization)

**Third party verifier\***

Tetsuya Okuyama

Independent verification of data & declaration in accordance with ISO14025

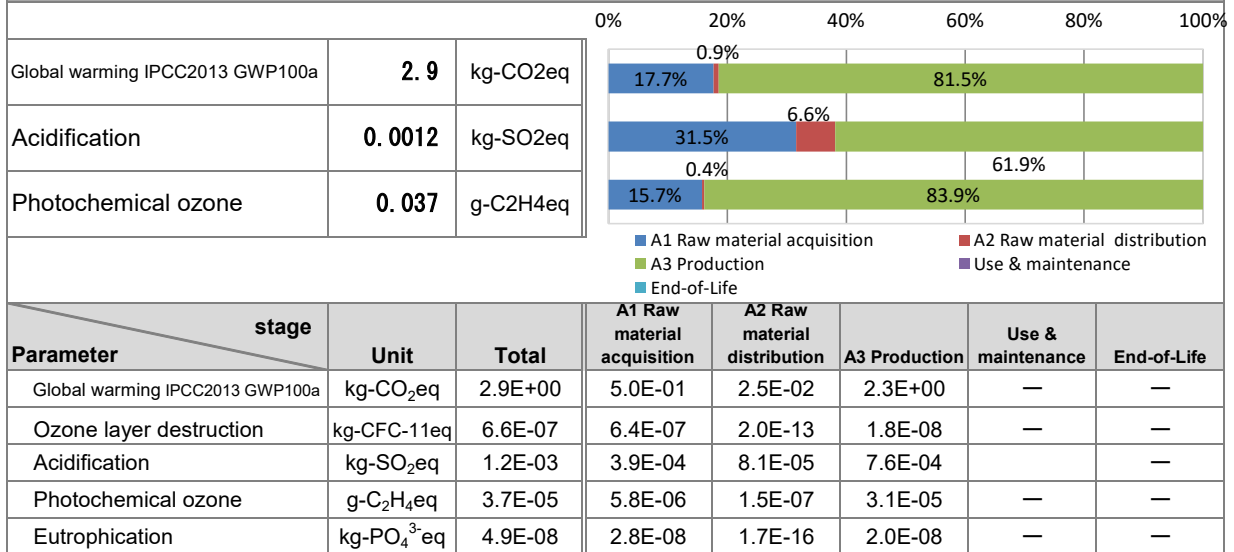
internal     external

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

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



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

項目	Unit	単位
Non-renewable material resources	5.1E-02	kg
Non-renewable energy resources	3.6E+01	MJ
Renewable material resources	1.0E-01	kg
Renewable primary energy	5.3E-01	MJ
Consumption of freshwater	1.9E-03	m <sup>3</sup>

### 3. Material composition

Material	Unit	Unit
aluminium	98 or more	%
magnesium	0.45~0.9	%
silicon	0.20~0.6	%
nickel	0.01~0.07	%

### 4. Waste to disposal

Parameter	Unit	Unit
Hazardous waste	3.81E-05	kg
Non-hazardous waste.	8.3E-04	kg
Treated MSW for landfill	0.0E+00	kg
Treated industrial waste for landfill	8.3E-04	kg

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

### 5. Additional explanation

Overview of transportation scenarios: For inter-country transport, the distance is calculated based on the actual data, and for others, the PCR scenario is used.



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#### 6-1. Supplementary environmental information

The Products are manufactured in ISO14001 certified factories.

#### 6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations
nickel sulfate	7786-81-4	Chemical Substances Control Law
boric acid	10043-35-3	chemical control law

#### 7. Assumptions of secondary data used

We use the IDEA v2.1.3 data

#### 8. Remarks

Change date: 2/1/2024 Calculation details changed due to expansion of data acquisition range

- 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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