

## LIXIL Corporation

## aluminum profile「PremiAL R100」

LIXIL

廃材のない、新たな循環の未来へ。

循環型低炭素アルミ

PremiAL R100

Recycled Low-Carbon Aluminum  
LIXIL

## Functional unit

1kg

## System boundary

 final products     intermediate products

Raw material acquisition-Distribution-Production

## Main specifications of the product

Products type:aluminum profile

aluminum window products

(Aluminum sash for buildings, Building

curtain wall, Aluminum sash for homes)

Mass range : 1~600kg

Material : aluminum

Production sites:Oyabe factory,Shimotsuma factory

Thai factory

## Company Information

LIXIL Corporation,Technical support "eDESK"

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

Registration# JR-AD-23001E-A

PCR number PA-212300-AD-05

PCR name Windows

Publication date 8/4/2023

Verification date 1/24/2024

Verification method Product-by-product

Verification# JV-AD-24001

Expiration date 1/23/2029

## PCR review was conducted by:

Approval date 5/10/2023

PCR review Masayuki Kanzaki

panel chair (Sustainable Management Promotion Organization)

## Third party verifier\*

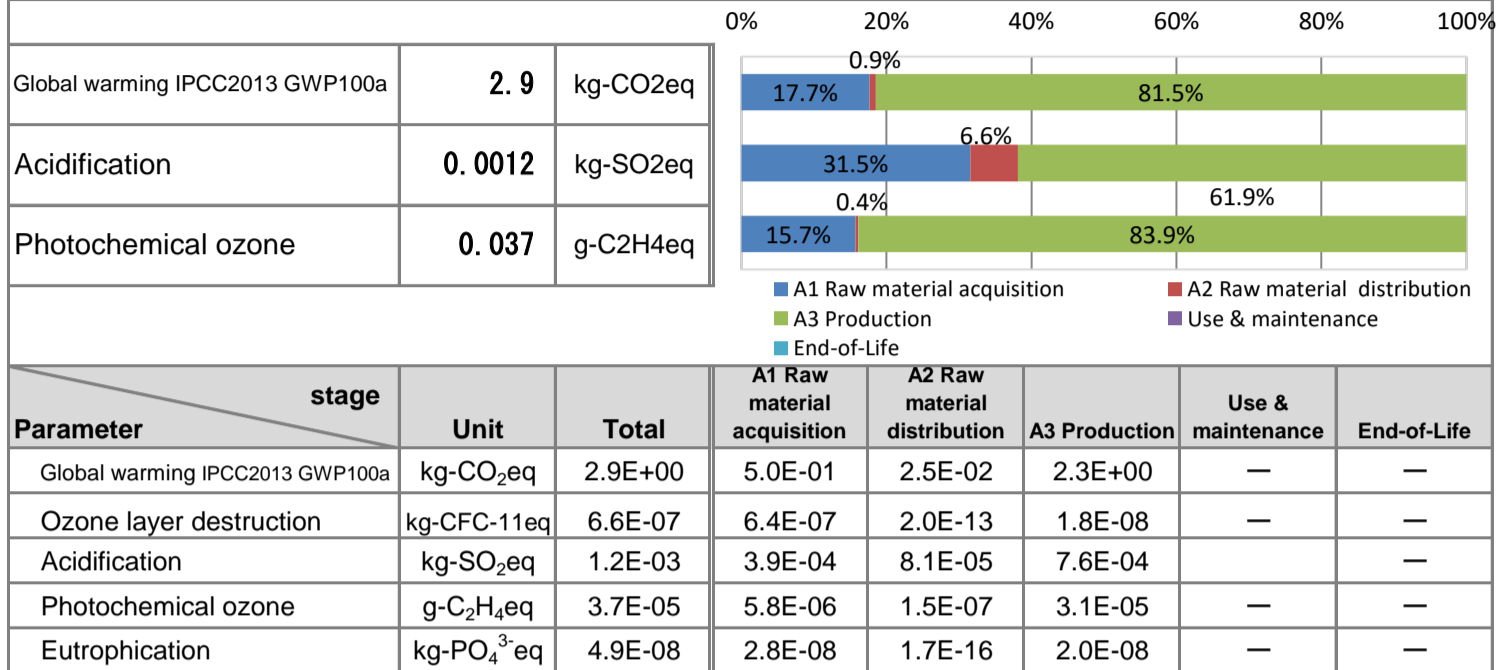
Tetsuya Okuyama

Independent verification of data & declaration in accordance  
with ISO14025 internal     external

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

Registration number : JR-AD-23001E-A

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



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

項目	値	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	割合	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	Value	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.



SuMPO EPD

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/>

#### 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: 9/10/2024 Change from the EcoLeaf mark to the SuMPO EPD mark.

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/>)

Registration number : JR-AD-23001E-A