

## LIXIL Corporation

## aluminum profile「PremiAL R100」

PremiAL R100



### 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

Main 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-B

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

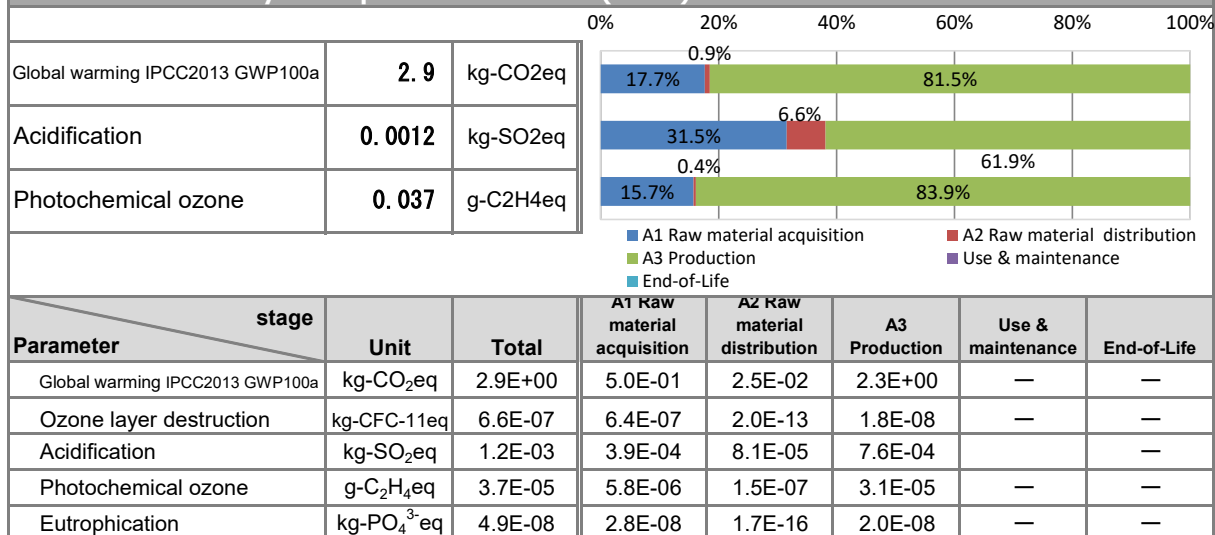
Independent verification of data & declaration in accordance with ISO14025

☐ internal      ☒ external

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

Registration number : JR-AD-23001E-B

## 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.

#### 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

September 17, 2025: Change: Photo

Date of change: 9/10/2024 Change from the EcoLeaf mark to the SuMPO EPD mark.

- 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/>)