



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AD-22001E-A

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan

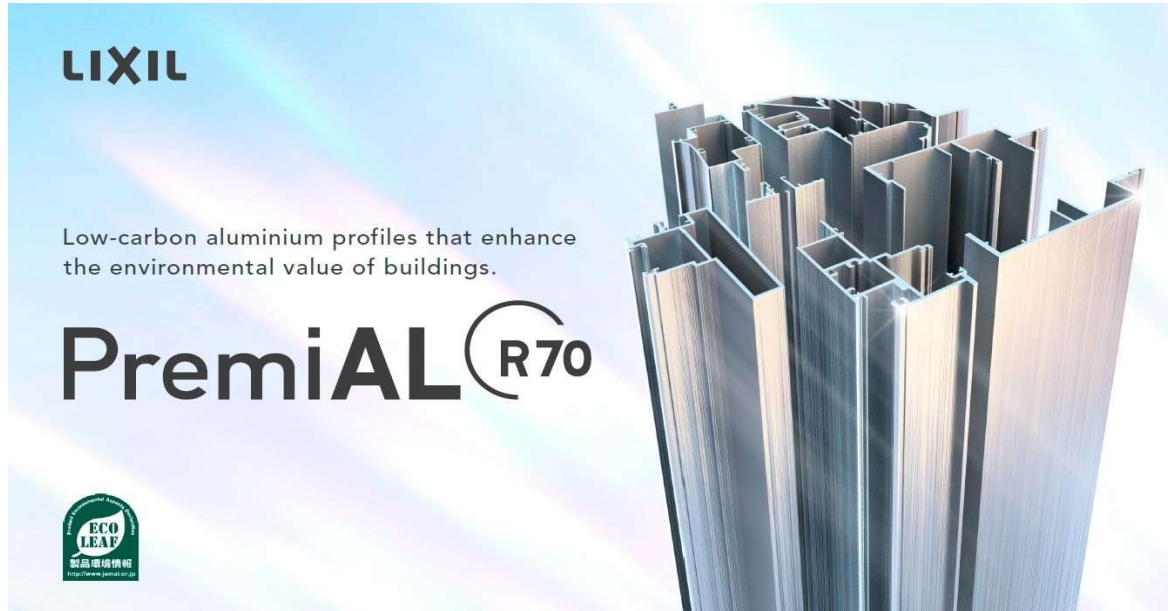
<https://ecoleaf-label.jp/>

# LIXIL

## LIXIL Corporation

# PremiAL<sup>®</sup>R70

## building aluminium profile「PremiAL」



### Functional unit

1kg

### System boundary

final products     intermediate products

Raw material acquisition-Distribution-Production

### Main specifications of the product

Products type:building aluminium profile

aluminium window products

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

Mass range : 1~600kg

Material : aluminium

Production sites:Thai works,Shimotsuma works, Oyabe works

### Company Information

LIXIL Corporation,Technical support "eDESK"

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

Registration#	JR-AD-22001E-A
PCR number	PA-212300-AD-03
PCR name	Windows
Publication date	12/15/2022
Verification date	11/28/2022
Verification method	Product-by-product
Verification#	JV-AD-22001
Expiration date	11/27/2027
<b>PCR review was conducted by:</b>	
Approval date	4/1/2022
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

### Third party verifier\*

Wataru Kawamura

Independent verification of data & declaration in accordance with ISO14025 and ISO21930.

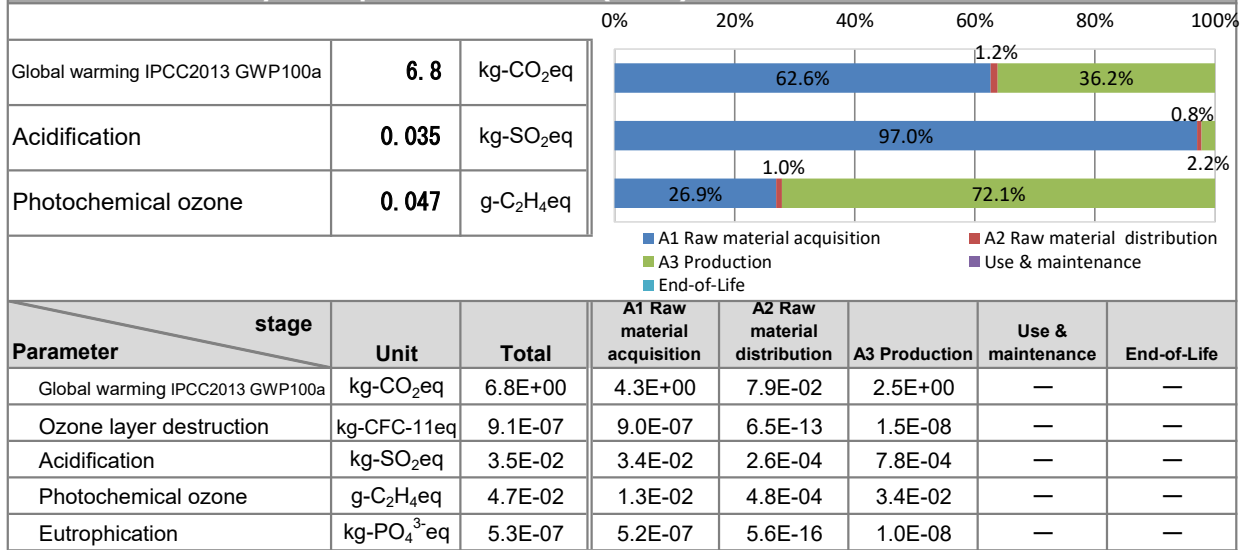
internal     external

\*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)

Parameter	Unit	Value
Non-renewable material resources	kg	5.4E-01
Non-renewable energy resources	MJ	8.4E+01
Renewable material resources	kg	1.1E-01
Renewable primary energy	MJ	8.1E-01
Consumption of freshwater	m <sup>3</sup>	2.2E-03

### 3. Material composition

Material	Value	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	Value
Hazardous waste	kg	1.03E-05
Non-hazardous waste.	kg	2.0E-03
Treated MSW for landfill	kg	0.0E+00
Treated industrial waste for landfill	kg	2.0E-03

\*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

Date of change: December 26, 2022

Addition of compliance with ISO 21930.

- 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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