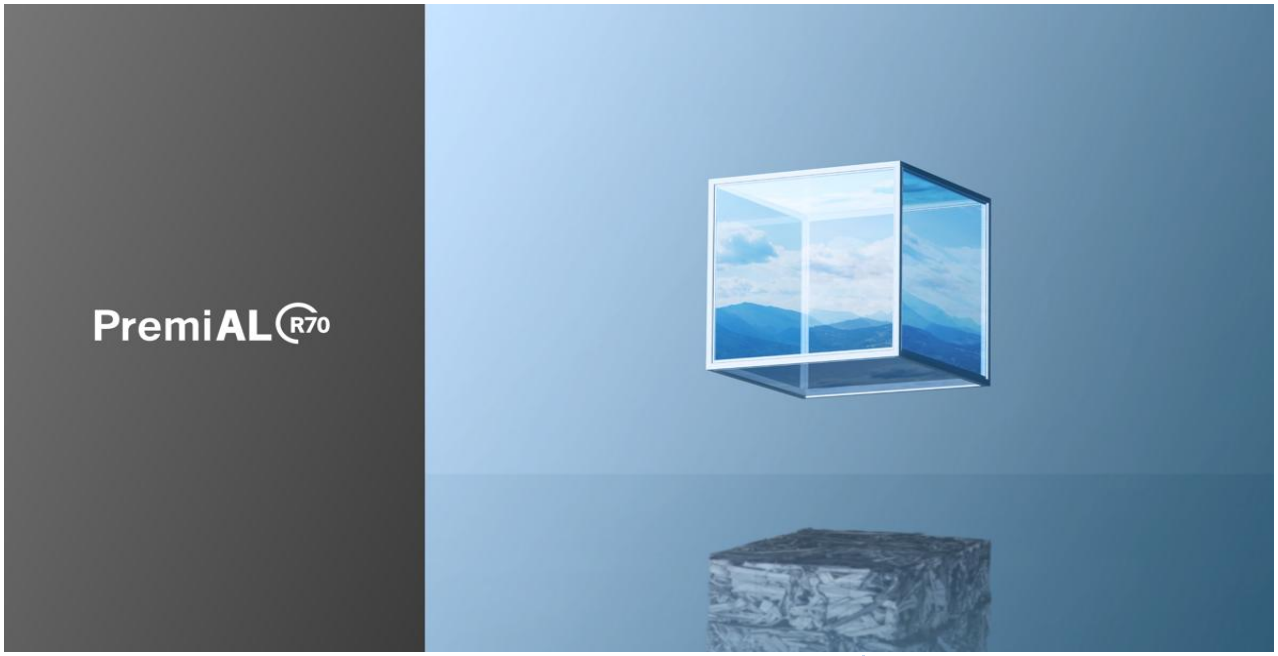
SuMPO EPD
Type III Environmental Declaration (EPD)
Registration number： JR-AD-22001E-B

Japan EPD Program by SuMPO
Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
https://ecoleaf-label.jp/

LIXIL Corporation

aluminum profile「PremiAL R70」



Functional unit

1kg

System boundary

☐ final products ■intermediate products

Raw material acquisition-Distribution-Production

Main specifications of the product

Products type:aluminum profile
aluminum products
(sashes for homes and buildings,
curtain walls, etc.)

Mass range : 1～600kg

Material : aluminum

Main Production sites:Thai works,Shimotsuma works, Oyabe works

Company Information

LIXIL Corporation,Technical support "eDESK"
edesk@lixil.com

Registration#	JR-AD-22001E-B
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

PCR review was conducted by:

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

☐internal ■external

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

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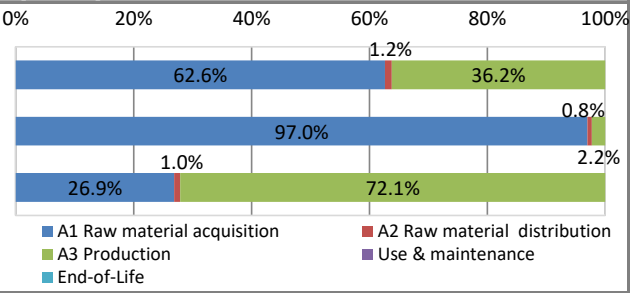
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1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	6.8	kg-CO_2eq
Acidification	0.035	kg-SO_2eq
Photochemical ozone	0.047	g-C_2H_4eq



Parameter \ stage	Unit	Total	A1 Raw material acquisition	A2 Raw material distribution	A3 Production	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	6.8E+00	4.3E+00	7.9E-02	2.5E+00	—	—
Ozone layer destruction	kg-CFC-11eq	9.1E-07	9.0E-07	6.5E-13	1.5E-08	—	—
Acidification	kg-SO_2eq	3.5E-02	3.4E-02	2.6E-04	7.8E-04	—	—
Photochemical ozone	g-C_2H_4eq	4.7E-02	1.3E-02	4.8E-04	3.4E-02	—	—
Eutrophication	kg-PO_4^{3-}eq	5.3E-07	5.2E-07	5.6E-16	1.0E-08	—	—

2. Life cycle inventory analysis (LCI)

項目		単位
Non-renewable material resources	5.4E-01	kg
Non-renewable energy resources	8.4E+01	MJ
Renewable material resources	1.1E-01	kg
Renewable primary energy	8.1E-01	MJ
Consumption of freshwater	2.2E-03	m^3

3. Material composition

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

September 17, 2025: Change: Product name and 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/)