



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-BS-22001E-A

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

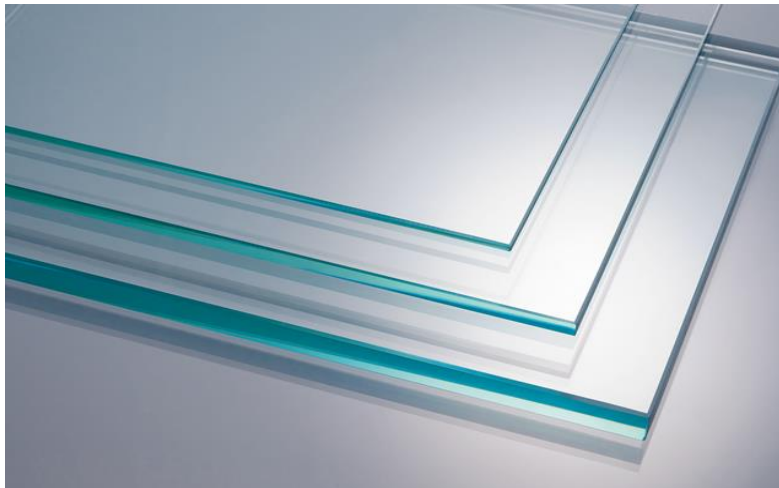
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

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



Asia General Division, Architectural Glass Asia Pacific Company,  
AGC Inc.

Flat Glass



### Functional unit

1ton

### System boundary

final products       intermediate products  
Raw material acquisition-Distribution-Production

### Main specifications of the product

Products (Clear glass, Tinted glass)

Production sites:

Cikampek Factory, Sidoarjo Factory (PT Asamimas Flat Glass Tbk)

Samut Prakan Factory, Chon Buri Factory (AGC Flat Glass Thailand)

Main thickness(unit : mm, t=thickness) t=2~12mm

Area :33.3~200m<sup>2</sup>

### Company Information

Sustainable Management Initiatives Group,  
Architectural Glass Asia Pacific Company, AGC Inc.

Tel : +81-3-5808-6604

<https://agc-glassasia.com/>

Registration#	JR-BS-22001E-A
PCR number	PA-171100-BS-01
PCR name	Flat glass
Publication date	9/27/2022
Verification date	9/20/2022
Verification method	Product-by-product
Verification#	JV-BS-22001
Expiration date	9/19/2027
<b>PCR review was conducted by:</b>	
Approval date	19/8/2022
PCR review panel chair	Ken Yamagishi Sustainable Management Promotion Organization

### Third party verifier\*

Yuki Sakamoto

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

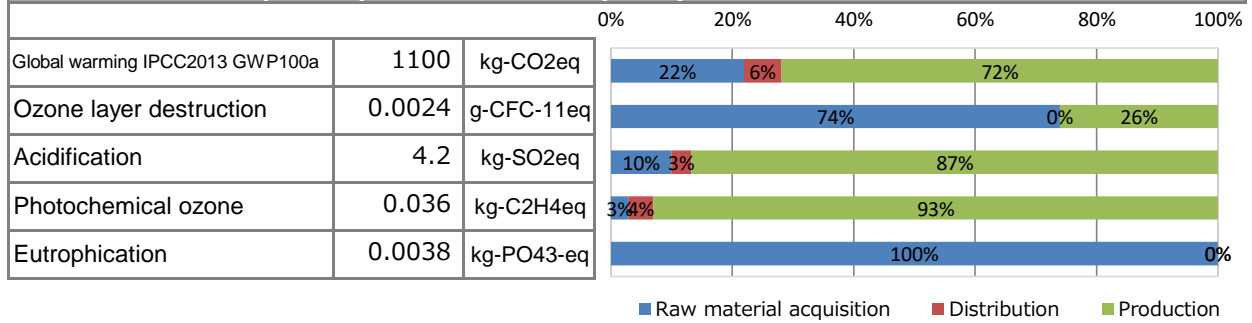
internal       external

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

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1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Distribution	Production
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	1.1E+03	2.3E+02	6.7E+01	7.7E+02
Ozone layer destruction		g-CFC-11eq	2.4E-03	1.7E-03	4.8E-07	6.1E-04
Acidification		kg-SO <sub>2</sub> eq	4.2E+00	4.2E-01	1.4E-01	3.7E+00
Photochemical ozone		kg-C <sub>2</sub> H <sub>4</sub> eq	3.6E-02	1.0E-03	1.5E-03	3.4E-02
Eutrophication		kg-PO <sub>4</sub> <sup>3-</sup> eq	3.8E-03	3.8E-03	4.4E-13	4.6E-07

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	1.2E+03 kg
Non-renewable energy resources	1.5E+04 MJ
Renewable material resources	2.4E+02 kg
Renewable primary energy	3.5E+02 MJ
Consumption of freshwater	2.6E+00 m <sup>3</sup>

3. Material composition

Material	Unit
Silica sand	45.3 %
Soda ash	13.7 %
Dolomite	13.7 %
Cullet	23.2 %
Others	4.2 %

4. Waste to disposal

Parameter	Unit
Hazardous waste	0.00E+00 kg
Non-hazardous waste.	3.2E+00 kg

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

5. Additional explanation

These data are an average of clear and tinted glass, and do not represent data for individual products. The products do not include pyrolytic(on-line CVD) coated glass.



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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
Sulfur dioxide	7446-09-5	Industrial Safety and Health Act
Cobalt monoxide	1307-96-6	Industrial Safety and Health Act
Nickel monoxide	1313-99-1	Industrial Safety and Health Act

### 7. Assumptions of secondary data used

We use the IDEA v2.1.3 data

### 8. Remarks

Changes from the previous version (registration number: JR-BS-22001E) are as follows.

Date of change : February 24, 2023

Reason for change

- (1) Change in the organization name and contact information
- (2) Add ISO21930 in independent verification of data & declaration as ISO accordance
- (3) Correct unit errors in LCIA and LCI information

- 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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