# EcoLeaf Type III Environmental Declaration (EPD) Registration number: JR-BW-24001E

# Japan EPD Program by SuMPO

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

Architectural Glass Asia Pacific Company, AGC Inc.

Mirror and Painted Glass



## **Functional unit**

 $1 \text{ m}^2$ 

# **System boundary**

☐ final products ■ intermediate products

Raw material Acquisition-Distribution-Production

## Main specifications of the product

Products; Mirror and Painted Glass

Main application; Architectural and Mobility use

Brand name;

Mirox MNGE, Decomirror, MirroTAG, Lacobel

Registration#		JR-BW-24001E		
PCR number		PA-171190-BW-02		
PCR name		Processed glass		
<b>Publication date</b>		4-Sep-2024		
<b>Verification date</b>		29-Aug-2024		
Verification method		Product-by-product		
Verification#		JV-BW-24001		
<b>Expiration date</b>		28-Aug-2029		
PCR review was conducted by:				
	Approval date	1-Sep-2023		
	PCR review	Ken Yamagishi		
	panel chair	(Sustainable Management Promotion Organization)		

Production sites; Samut Prakan Factory (Thailand) Third party verifier\*

Cikampek Factory (Indonesia)

#### **Specifications**

Thickness of glass; 2,3,4,5,6mm

Weight; 12kg (glass thickness 4.8mm weighted average)

#### Processing method;

Glass; Float glass method Mirror; Silvering method

### **Company Information**

AGC Glass Asia Pacific Sales & General Enquiries

https://agc-glassasia.com/

Takahiro Atoh

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

□internal

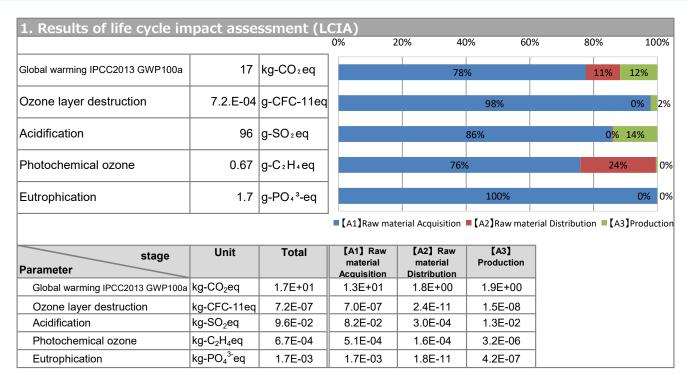
■ external

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<sup>\*</sup>Auditor's name is stated if system certification has been performed.

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2. Life cycle inventory analysis (LCI)		
Specifications		Unit
Non-renewable material resources	1.1E+01	kg
Non-renewable energy resources	2.6E+02	MJ
Processing method ;	3.8E+00	kg
Renewable primary energy	1.2E+01	MJ
Consumption of freshwater	3.5E+00	m <sup>3</sup>

3. Material composition				
Material		Unit		
Silica sand	52	%		
Soda ash	9	%		
Dolomite	10	%		
Cullet	25	%		
Others	4.4	%		

4. Waste to disposal		
Parameter		Unit
Hazardous waste	0.0E+00	kg
Non-hazardous waste	2.3E-02	kg

<sup>\*</sup>Data derived from LCA and not assigned to the impact categories of LCIA  $\,$ 



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# 5. Additional explanation

This calculation consists of Float glass process and Mirrorring process. Float glass process is the result of calculation using the weighted average value (4.8 mm) of the Float glass thickness (2, 3, 4, 5, 6 mm). Similarly, the Mirrorring process is calculated by averaging the mirror type and paint.

# 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 used the IDEA v3.1.0 data

#### 8. Remarks

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- 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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