



Technical Drawing Package

Solar Eclipse Plastic Glasses - EclipsePro Plastic Series

Document Title:	Technical Drawing Package
Product	EclipsePro Solar Glasses - Plastic Series
Document No.:	SEGP-TDP-001
Revision:	B
Date	12/7/2025
Status	FOR NOTIFIED BODY SUBMISSION

	Name	Signature	Date
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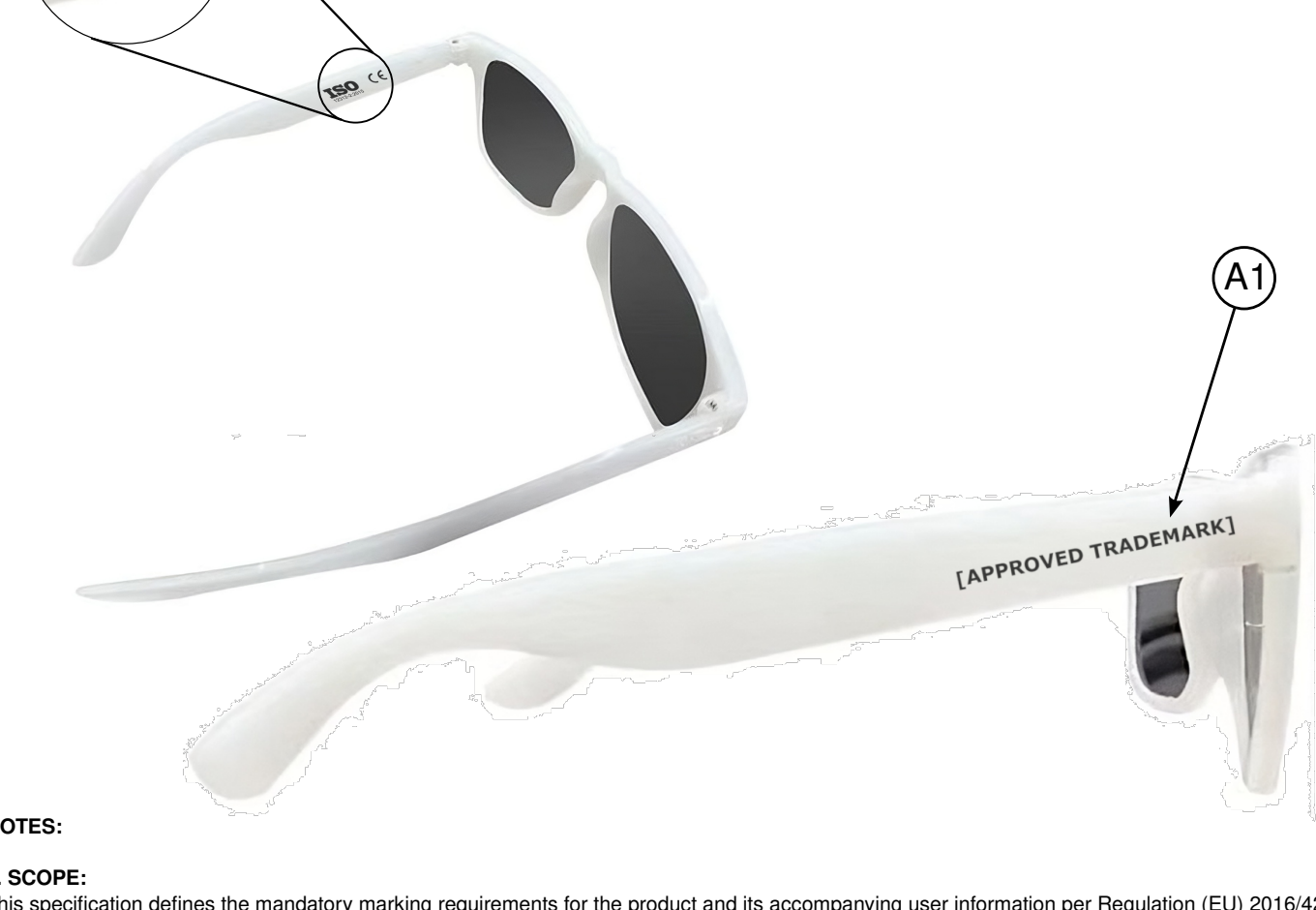
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Table of Contents & Revision History

Sheet	Drawing Number	Drawing Title
1.	N/A	Cover Page
2.	N/A	Table Of Contents & Revision History
3.	SEGP-MRK-001	Marking Specification
4.	SEGP-ASSY-001	Assembly Drawing & Bill of Materials
5.	SEGP-FAB-001	Fabrication Drawing - All Components

Rev.	Description of Changes	Date	Approved By
A	Initial Release	29/6/2025	Māris Grāvītis
B	Updated CE logo to meet requirements. Added dimensions markings. Updated Material references for additive	12/7/2025	Māris Grāvītis

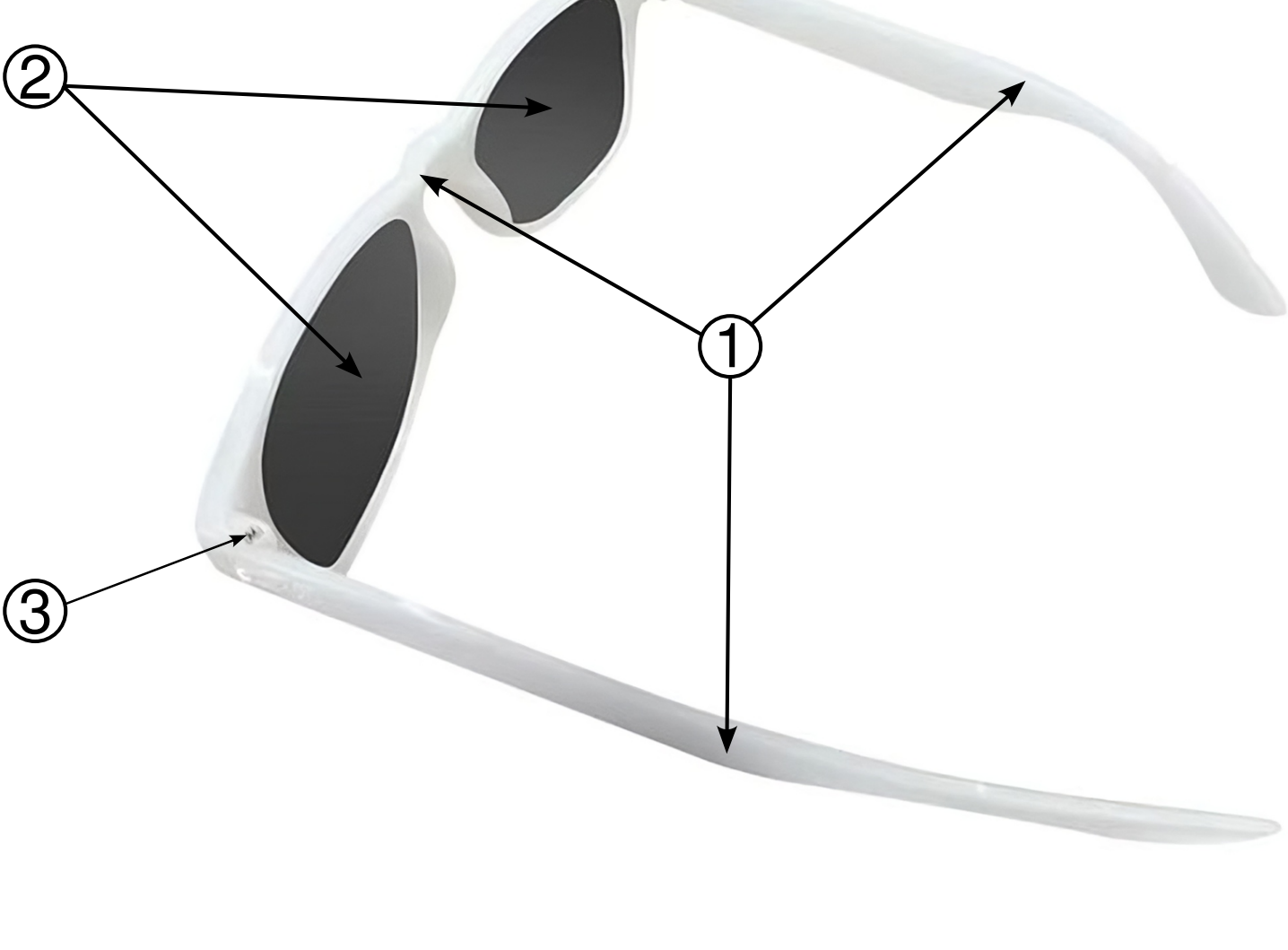
Ref.	Location	Specification Description	Required Content & Visual Reference
A1	Product Frame: Outside, Right Temple Arm	Brand Identification Marking	Optional Decorative Artwork Area
A2	Product Frame: Inside, Left Temple Arm	Regulatory Compliance Marking	Marking shall be permanent, legible, and include the official CE logo (min. 5mm height). The content and layout shall be as shown in the visual representation on this drawing. The following mandatory information shall be provided to the end-user with each unit sold. Required Content Includes: - Product Identification: <i>EclipsePro Plastic Series</i> / Serial number / QR Code for traceability. Full Manufacturer Address: SIA "GRAVITIS ENTERPRISE LIMITED", Lauku iela 7 - 4, Cēsis, LV-4101, Latvia - Safety Warnings: Full warnings as per EN ISO 12312-2. - DoC & IFU Access: Instructions for Use (IFU) and the EU Declaration of Conformity (DoC) are available at: verify.absoluteclipse.com/docs
B	Packaging and/or Instructions for Use (IFU)	User Information & Manufacturer Details	



NOTES:
1. SCOPE: This specification defines the mandatory marking requirements for the product and its accompanying user information per Regulation (EU) 2016/425.
2. PRODUCT MARKING REQUIREMENTS: a. All markings on the product frame (Ref A1, A2) shall be permanent and clearly legible. b. The [APPROVED TRADEMARK] (Ref A1) is controlled by document BRD-001.
3. MARKING DIMENSIONAL REQUIREMENTS: a. ISO symbol height: 7.1mm ± 0.1mm b. CE logo height: 5.0mm ± 0.1mm c. All regulatory markings shall maintain proportional width dimensions according to respective standards.
ALL OPTIONAL DECORATIVE ARTWORK MUST CONFORM TO THE SPECIFICATIONS DEFINED IN TECHNICAL FILE TF-SG-ECL-001, SECTION [3.3].

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Item No.	Part Name / Description	Material Specification	Qty.
1.	Frame Assembly (Main Frame & Temple Arms)	Base Resin: Polypropylene Homopolymer (PP) Manufacturer: FORMOSA CHEMICALS & FIBRE CORP. Grade: TAIRIPRO PP K1011 Compliance: RoHS compliant per SGS Report No. ETR25206074. Additive (Glow Effect): Strontium Aluminate-based Phosphorescent Pigment CAS No.: Mixture (see components below): Strontium Carbonate: 1633-05-2. Aluminum Oxide: 1344-28-1. Dysprosium Oxide: 1308-87-8. Europium Oxide: 1308-96-9. Supplier: FOSHAN JULIANG PHOTOLUMINESCENT PIGMENT CO., LTD. Grade: Glow powder Compliance: RoHS compliant per SGS Report No. CANEC25006940001.	1
2.	Solar Filter Lens	Polymer Film, Certified to EN ISO 12312-2:2015 per ICS Labs Report No. T18671-01-5.	2
3.	Hinge Screw	Material: Stainless Steel, Type 304	2



Assembly Notes:
LENSES (ITEM 2) TO BE SECURELY PRESS-FIT INTO FRAME ASSEMBLY (ITEM 1). ASSEMBLE TEMPLE ARMS TO MAIN FRAME USING HINGE SCREWS (ITEM 3). FINAL ASSEMBLY MUST BE FREE OF SCRATCHES AND COSMETIC DEFECTS.

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Top View 	Front View
Lense 	Side View

NOTES:
1. DIMENSIONS: ALL DIMENSIONS ARE IN MILLIMETERS (mm).
2. SCALE: DRAWING IS NOT TO SCALE (NTS). FABRICATE TO DIMENSIONS SHOWN.
3. TOLERANCES: UNLESS OTHERWISE SPECIFIED, THE FOLLOWING TOLERANCES APPLY: * LINEAR: ± 0.2 mm * ANGULAR: ± 1°
4. MATERIAL: FOR ALL MATERIAL SPECIFICATIONS, REFER TO THE BILL OF MATERIALS ON ASSEMBLY DRAWING SGP-ASSY-001.
5. PLASTIC COMPONENTS (FRAME & TEMPLES): * REMOVE ALL MOLDING FLASH, SINK MARKS, AND SHARP EDGES. * PARTING LINES TO BE MINIMIZED AND CLEAN. * SURFACE FINISH: SEMI-GLOSS (REF: VDI 3400, #24).
6. LENS COMPONENTS: * LENSES MUST BE FREE OF SCRATCHES, DENTS, AND OPTICAL DISTORTIONS. * DIE-CUT EDGES TO BE CLEAN AND FREE OF BURRS.

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