

Technical Drawing Package



Solar Eclipse Filter Sheet (EFS-SHT-TDP)

Document Title:	Technical Drawing Package
Product	EclipsePro Filter Sheet
Document No.:	EFS-SHT-TDP-001
Revision:	A
Date:	1/2/2026
Status:	FOR NOTIFIED BODY SUBMISSION

	Name	Signature	Date
Drawn By:	Māris Grāvītis	<i>Māris Grāvītis</i>	# TODO
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Table of Contents

Revision History.....2

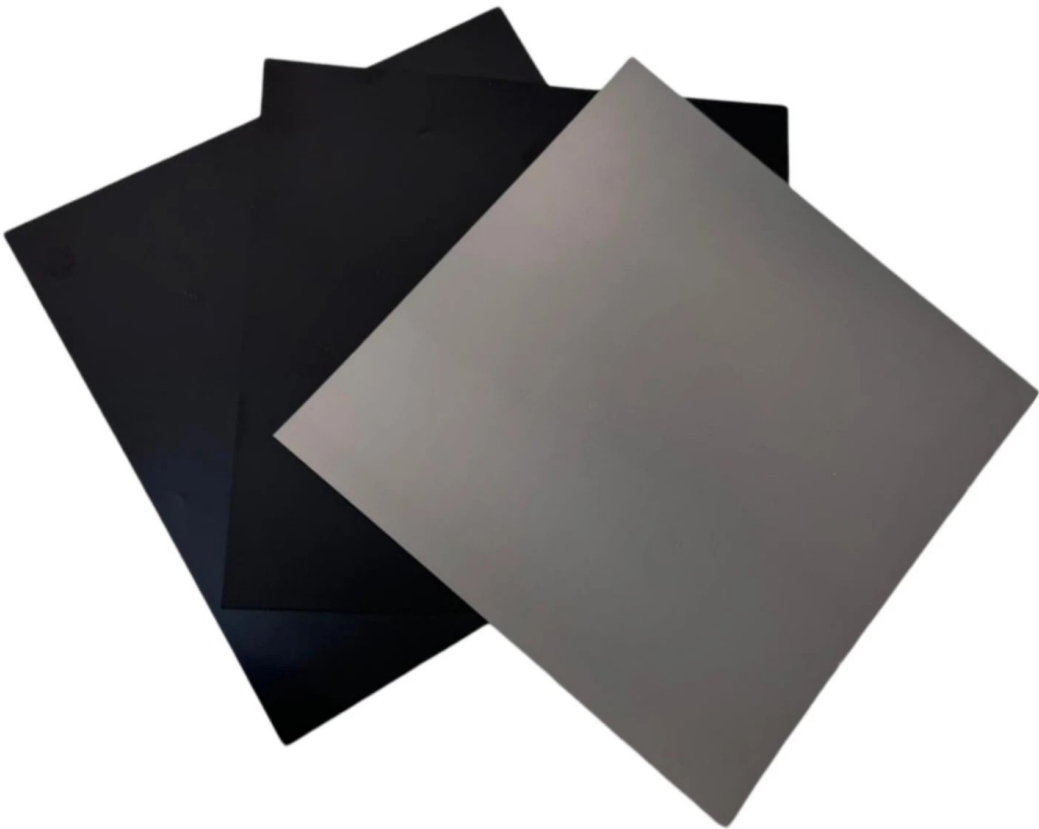
Fabrication Specification (EFS-SHT-FAB-001).....3

Fabrication Specification (EFS-SHT-MRK-001).....5

Revision History

Revision	Description Of Changes	Date	Approved By
A	Initial Release	03/02/2026	Māris Grāvītis

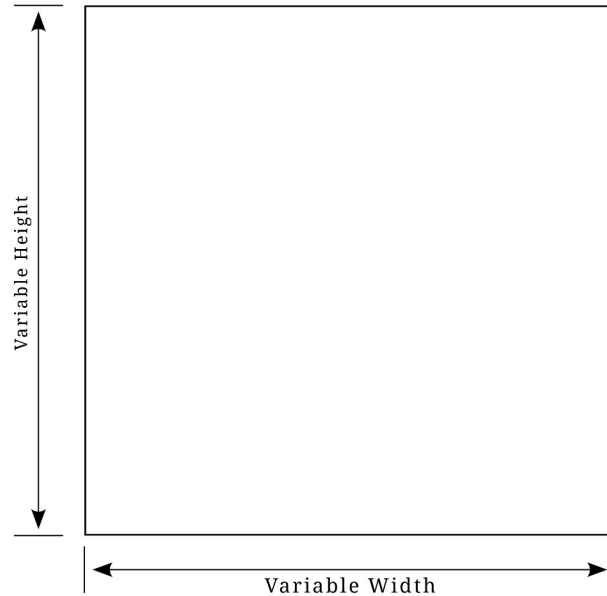
Silver-Black Polymer Sheets



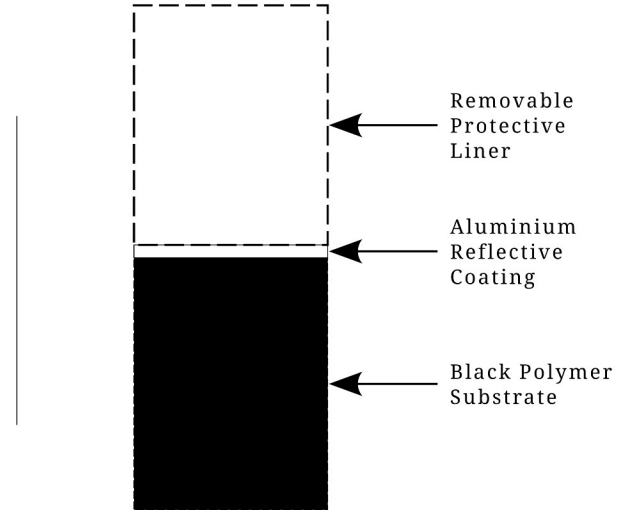
Package includes single sheet
One side is black & other is silver/metallic

Fabrication Specification (EFS-SHT-FAB-001)

VIEW 1: TOP-DOWN VIEW



VIEW 2: SECTION A-A



NOTES & SPECIFICATIONS:

1. **MATERIAL:** Polymer substrate with Aluminium Reflective Coating.
 - Optical Density (OD) > 5.0.
 - Certified to **EN ISO 12312-2:2015**.
2. **ASSEMBLY ORIENTATION:**
 - **Aluminium (Reflective) Side:** Faces the Sun.
 - **Black (Substrate) Side:** Faces the User/Eyes.
3. **PROTECTIVE LINER:**
 - Removable opaque liner applied to the Aluminium surface.
 - Liner carries Safety & Regulatory markings (See Doc: EFS-SHT-MRK-001).
4. **TOLERANCES:**
 - Linear Dimensions (W, H): $\pm 1.0\text{mm}$.
 - Squareness: $\pm 1^\circ$.
5. **QUALITY CONTROL:**
 - Optical surface must be free of scratches, pinholes, and delamination.
 - **Edges must be clean cut and free of burrs.**

Dimension	Min	Max
Variable Width (W)	100mm (4")	305mm (12")
Variable Height (H)	100mm (4")	305 (12")
Thickness	0.12mm	N/A

STANDARD PRODUCT CONFIGURATIONS

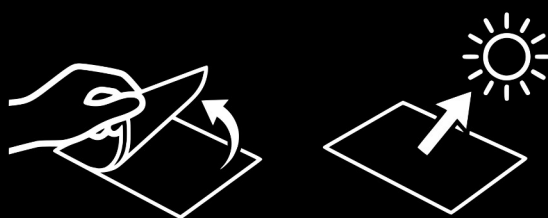
Variant Code	Nominal Size (Metric)	Equivalent (Imperial)	Intended Use
EFS-SHT-4x4	100mm x 100mm	4" x 4"	Camera / Small Telescope
EFS-SHT-6x6	150mm x 150mm	6" x 6"	Medium Telescope / Binoculars
EFS-SHT-8x8	200mm x 200mm	8" x 8"	Large Telescope
EFS-SHT-12x12	300mm x 300mm	12" x 12"	Oversized / Custom Application
EFS-SHT-CUST	Custom*	Custom*	<i>Defined by Customer Order</i>

Marking Specification (EFS-SHT-MRK-001)



Solar Eclipse Sheet
for direct sun observation

**REMOVE PROTECTIVE LINER BEFORE USE
THIS SIDE TOWARDS THE SUN**



(LV) ŠO PUSI VĒRST PRET SAULI

(DE) DIESE SEITE ZUR SONNE

(FR) CE CÔTÉ FACE AU SOLEIL

(ES) ESTE LADO HACIA EL SOL

(IT) QUESTO LATO VERSO IL SOLE

(NL) DEZE KANT NAAR DE ZON



Conforms to Regulation (EU) 2016/425 & EN ISO 12312-2:2015. CE Certified, Category II PPE.
MTIC Intercert S.r.l. Notified Body: 0068, Via G. Leopardi, 14 – 20123 Milan (MI) - Italy
Manufactured by SIA GRAVITIS ENTERPRISE LIMITED Lauku iela 7 - 4, Cēsis, LV-4101, Latvia

Marking Location

- **Primary Location:** Printed directly on the removable protective liner applied to the Silver (Sun-facing) side of the filter.
- **Secondary Location:** Repeated on the external retail packaging (Document PKG-SHEET-OUTER-001).

The following table defines each element present in the marking artwork and acknowledges the applicable regulatory requirement.

#	Visual Element / Text	Description / Function	Regulatory Requirement / Acknowledgment
1	Brand Logo & Text "Absolute Eclipse" "Solar Eclipse Sheet"	Product Identification. Identifies the product type and brand family.	Reg (EU) 2016/425, Art 8(6): Requirement to identify the product type/model.
2	Safety Imperative "REMOVE PROTECTIVE LINER BEFORE USE"	Critical Safety Instruction. Prevents the user from looking through the cloudy/printed liner, which would obscure vision and degrade optical quality.	EN ISO 12312-2, Clause 5(b): Instructions for use / warnings to ensure safe usage.
3	Orientation Instruction "THIS SIDE TOWARDS THE SUN"	Safety/Orientation Warning. Instructs the user to orient the reflective (Silver) side towards the radiation source to ensure proper thermal handling of the filter.	EN ISO 12312-2, Clause 5(b): Instructions for use. Necessary because the filter is asymmetric (Silver/Black).
4	Graphic Icons (Peeling Hand & Sun Reflection)	Pictogram Instructions. Visual reinforcement of the text instructions (1. Remove Liner, 2. Reflective side faces Sun) to aid comprehension independent of language.	Reg (EU) 2016/425, Annex II, 1.4: Manufacturer shall provide information... such information shall be clear and comprehensible.
5	Translations (LV, DE, FR, ES, IT, NL)	Localization. Translation of the critical orientation instruction into the languages of the Target Member States.	Reg (EU) 2016/425, Art 8(7): Manufacturer shall ensure PPE is accompanied by instructions in a language easily understood by consumers...
6	CE Marking (Graphic Symbol)	Conformity Marking. Declaration that the product meets all applicable provisions of the PPE Regulation. Minimum height: 5mm.	Reg (EU) 2016/425, Art 16 & 17: General principles of the CE marking.
7	Standard Identification "ISO 12312-2:2015"	Harmonised Standard. Identifies the specific technical standard the product claims compliance with.	Reg (EU) 2016/425: Requirement to presume conformity via Harmonised Standards.
8	Regulatory Text "Conforms to Regulation (EU) 2016/425..."	PPE Category Declaration. Explicit statement of the legislation and Category (II) PPE status.	Good Practice: Reinforces the CE claim and clarifies the regulatory basis.
9	Notified Body Info "MTIC Intercert S.r.l. Notified Body: 0068..."	Surveillance Information. Identifies the body responsible for the EU Type-Examination (Module B) and conformity (Module C2/D).	Reg (EU) 2016/425: Required for Category II PPE to trace the certifying body.
10	Manufacturer Address "Cesis, Lauku iela 7..."	Traceability.	Reg (EU) 2016/425, Art 8(6): Manufacturer name and postal address must be on the product or packaging.

Technical Parameters

- **Dimensions:** Scalable vector artwork. **Minimum Constraint:** The "CE" mark shall never be rendered smaller than 5.0mm in vertical height, regardless of the sheet cut size.
- **Color:** High-contrast opacity (White or Silver ink on Black background, or Black ink on Clear/Silver background) to ensure legibility.

- **Permanence:** The marking is "Permanent" in the sense that it accompanies the raw material until the moment of fabrication/usage, satisfying the traceability requirement for the supply chain.