



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de la Mobilité
et des Travaux publics

Département de la mobilité
et des transports

SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
S.A.

Registre de Commerce: B 27180

L-8070 Bertrange



Référence: E13*43R01/09*10055*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Bertrange, le 05 août 2022



Communication concernant ⁽¹⁾ / Communication concerning ⁽¹⁾:

- la délivrance d'une homologation / approval granted
- l'extension d'homologation / approval extended
- le refus d'homologation / approval refused
- le retrait d'homologation / approval withdrawn
- l'arrêt définitif de la production / production definitely discontinued

d'un type de vitrage de sécurité en application du Règlement N° 43
of a type of safety glazing material pursuant to Regulation N° 43

Numéro d'homologation:

Approval number:

E13*43R01/09*10055*00

Marque d'homologation:

Approval mark:

V-X/B

 43R-0110055

- 1. Classe attribuée au vitrage de sécurité:**
Class of safety glazing material:
Rigid plastic multiple glazed units V-X/B
- 2. Description du type de vitrage:**
Description of the glass pane:
Please refer to Appendix 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 ⁽¹⁾ and in the case of windcreens, the list conforming to Appendix 13
- 3. Marque de fabrique ou de commerce:**
Trade names or marks:
fi ROOFSTAR

Type:
Type:
fi roofSTAR /V-X/B
- 4. Nom et adresse du fabricant:**
Manufacturer's name and address:
Matthias Fischer GmbH
Theobaldstraße 47
97980 Bad Mergentheim
Germany
- 5. Nom et adresse du représentant du fabricant (le cas échéant):**
If applicable, name and address of the manufacturer's representative: Not applicable

6. **Présenté à l'homologation le:**
Submitted for approval on: 14.01.2022
7. **Service technique chargé des essais d'homologation:** ATEEL S.à r.l.
Technical service responsible for conducting approval tests: 14, op Hucfdreich
L-6871 Wecker
8. **Date du procès-verbal d'essai:**
Date of test report issued by that service: 04.07.2022
9. **Numéro du procès-verbal d'essai:**
Number of test report issued by that service: DEMAF1-AL-00001-00C00
10. **Homologation ⁽¹⁾:**
Approval is ⁽¹⁾: Granted / ~~extended~~ / ~~refused~~ / ~~withdrawn~~
11. **Motif(s) de l'extension d'homologation
(le cas échéant):**
Reason(s) for extension of approval (if applicable): Not applicable
12. **Remarques:**
Remarks: None
13. **Lieu:**
Place: Bertrange
14. **Date:**
Date: 05 août 2022
15. **Signature:**
Signature:

Pour le Ministre de la Mobilité
et des Travaux publics



Alain DISTVISCOUR
Conseiller

Pour la SNCH




Laurent LINDEN
Directeur opérationnel



16. **Est annexée la liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré l'homologation et pouvant être obtenue sur demande.**

The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.

See INDEX to TYPE-APPROVAL REPORT

⁽¹⁾ **Biffer les mentions inutiles.**
Strike out what does not apply.



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Bertrange, le 05 août 2022



Annexe 1 - Appendice 7

Annex 1 - Appendix 7

VITRAGES MULTIPLES MULTIPLE GLAZED UNITS

(Caractéristiques principales et secondaires
suivant l'annexe 12 ou l'annexe 16 du Règlement n° 43)

(Principal and secondary characteristics
as defined in annex 12 or annex 16 to Regulation No. 43)

N° d'homologation:

Approval N°:

E13*43R01/09*10055*00

Caractéristiques principales:

Principal characteristics:

- Nature des vitrages multiples

(symétrique/asymétrique):

Composition of multiple-glazed units
(symmetrical/asymmetrical):

Symmetrical/asymmetrical

- Epaisseur nominale de l'espace (des espaces):

Nominal thickness of the gap(s):

27 mm (±5 mm)

- Méthode de montage:

Method of assembly:

Glued

- Type de chaque vitre constitutive suivant les Annexes 5, 7, 9, 11 ou 14:

Type of each glazing as defined in annexes 5, 7, 9, 11, or 14:

Outside: - Cast acryl plastic (PMMA-HI 533)
- Tinted (grey)
- Nominal thickness: 2,8 mm (±0,68 mm)
Inside: - Cast acryl plastic (PMMA-HI 533)
- Colourless, clear
- Nominal thickness: 2,8 mm (±0,68 mm)

Pièces jointes:

Documents attached:

**Une fiche pour tous les vitrages constitutifs d'un vitrage multiple symétrique conformément à l'annexe
suivant laquelle ces vitrages ont été éprouvés ou homologues.**

One form for all panes of a symmetrical multiple-glazed unit in accordance with the annex under which the panes have been tested or approved.

**Une fiche pour chaque vitrage différent constitutif d'un vitrage multiple asymétrique conformément aux
annexes suivant lesquelles ces vitrages ont été éprouvés ou homologues.**

One form for each different pane of an asymmetrical multiple-glazed unit in accordance with the annexes under which these panes have been tested or approved.

Remarques:

Remarks:

Light transmittance ≤ 70 %



Référence: E13*43R01/09*10055*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Bertrange, le 05 août 2022

INDEX DU DOSSIER D'HOMOLOGATION INDEX TO TYPE-APPROVAL REPORT

	Numéro d'homologation: Approval number:	E13*43R01/09*10055*00
	Révision: Revision:	00
	Marque de fabrique: Trade name or mark:	fi ROOFSTAR
	Type: Type:	fi roofSTAR /V-X/B
1.	Procès-verbal d'essai: Test report:	N° DEMA F1-AL-00001-00C00
	- Technical report:	Page(s) 1 & 2;
	- Index:	Annex II - Page(s) 1;
	- General information:	Annex GI1 - Page(s) 1 & 2;
	- General test report:	Annex T - Page(s) 1 & 2.
2.	Dossier du constructeur: Report of the manufacturer:	N° ---
	- Manufacturer's information folder:	Annex MID - Page(s) 1 to 5.
3.	Autres documents annexés: Other documents annexed:	Not applicable
4.	Date de délivrance de l'homologation initiale: Date of issue of initial type approval:	05.08.2022
5.	Date de la dernière délivrance de pages révisées: Date of last issue of revised pages:	Not applicable
6.	Date de la dernière délivrance d'une homologation révisée: Date of last extension:	Not applicable

Tests and inspection concerning

SAFETY GLAZING MATERIALS

according to the ECE Regulation No. 43 including all amendments up to Supplement 9 to the 01 series of amendments - Date of entry into force: 29.05.2020

Manufacturer: Matthias Fischer GmbH
Theobaldstraße 47
97980 Bad Mergentheim
Germany

Type: fi roofSTAR /V-X/B	Type Approval No.: E13*43R01/09*10055*00	Manufacturer: Matthias Fischer GmbH
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Conclusion: The tests and checks carried out have shown the compliance of the type described in this report and the attached annexes with the Regulation mentioned above.

Wecker, 04.07.2022



Joël Hoffmann
Ingénieur Inspecteur

Index: see Annex I1

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1 Tests and inspection results

Refer to Annex T

E13*43R01/09*10055*00

2 Type and variants

Société Nationale de Certification et d'Homologation

The tests and inspections carried out and described in this technical report have been selected in order to include the following variants and versions of the type and its equipments, as far as these are relevant for the topic of this report, into the judgement:

As stated in Annex MID (Manufacturer's Information Document):

	Item
- thickness of the component sheets	1.1.4
- width of air gap between the component plastic sheets	1.1.6
- colouring of the plastic sheets	1.1.7

3 Remark

3.1 General:

The described glazing are plastic rooflight with a light transmittance which is less than 70 %. They are mounted in a position not requisite for driver visibility and where no head contact is possible.

The tests have been performed by DEKRA.

DEKRA Automobil Test Center is notified by the KBA and the RDW as a technical service for the regulation. In addition, DEKRA Automobil Test Center is accredited by the DAkkS for the regulation according to ISO 17025.

Compilation of Dossier No.: DEMAFA1-AL-00001 - Matthias Fischer GmbH

Extension 00

Technical Report no.: DEMAFA1-AL-00001-00C00

page 1 and 2

Composition of Annex:

I1:	Index	page 1
GI1:	General Information	page 1 to 2
T:	General Test Report	page 1 to 2
MID:	Manufacturer's Information Document	page 1 to 5

Index of the appendices to the Manufacturer's Information Document: see Annex MID, item 3

General Information <Matthias Fischer GmbH>

Numbering according to annex 1 of the ECE Regulation No. 43

- | | | |
|-----|---|---|
| 1. | Class of safety glazing material: | rigid plastic multiple-glazed units V-X/B |
| 2. | Description of the type of glazing: | please refer to appendix 7 |
| 3. | Trade names or marks: | fi ROOFSTAR |
| 4. | Manufacturer's name and address: | Matthias Fischer GmbH
Theobaldstraße 47
97980 Bad Mergentheim
Germany |
| 5. | If applicable, Name and address of manufacturer's representative: | not applicable |
| 6. | Submitted for approval on: | 14.01.2022 |
| 7. | Technical service responsible for conducting approval tests: | ATEEL S.à r.l.
14, op Huefdreisch
L-6871 Wecker |
| 8. | Date of report issued by that service: | 04.07.2022 |
| 9. | Number of report issued by that service: | DEMA1-AL-00001-00C00 |
| 12. | Remarks
Assembly plant: | Prevent Components d.o.o. Goražde
Prve drinske brigade 23
73000 Goražde
Bosnia-Herzegovina |

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Société Nationale de Certification et d'Homologation

General Information <Matthias Fischer GmbH>

Appendix 7 of Annex 1 of the Regulation No. 43

Principal characteristics:

Composition of multiple-glazed units
(symmetrical/asymmetrical):

symmetrical

Nominal thickness of the gap:

27 mm (+/- 5 mm)

Method of assembly:

glued

Type of each glazing component:

Outside: cast acryl plastic (PMMA-HI 533)
tinted (grey)
nominal thickness 2,8 mm (+/- 0,68 mm)

Inside: cast acryl plastic (PMMA-HI 533)
colourless, clear
nominal thickness 2,8 mm (+/- 0,68 mm)

Documents attached:

refer to Annex I1 of the technical Report

Remarks:

light transmittance is less than 70%.

E13*43R01/09*10055*00

Société Nationale de Certification et d'Homologation

General Test Report

The data in this section refer only to the items submitted to testing or inspection.

0 Abstract

0.1 Type fi roofSTAR IV-X/B

1 Dates and resources

1.1 Date of receipt of test item 14.01.2022

1.2 Date of Inspection 14.01.2022

1.3 Place of Inspection
DEKRA Automobil GmbH
Automobil Test Center
Senftenberger Straße 30
D-01998 Klettwitz

1.4 Testing site and testing equipment:

All measuring and test equipment used to carry out the inspections are in accordance with ISO 17025 and the regulatory act(s) applied.

2 Test object

The tests were conducted with a double glazing unit which is representative of the type to be approved.

2.1 Description

Type: fi roofSTAR IV-X/B

Design: Outside: cast acryl plastic (PMMA-HI 533)
tinted (grey)
nominal thickness 2,8 mm (+/- 0,68 mm)
Inside: cast acryl plastic (PMMA-HI 533)
colourless, clear
nominal thickness 2,8 mm (+/- 0,68 mm)

General Test Report

3 Tests and inspections

3.1 General

The requirements of item 6 of the Regulation are fulfilled.

3.2 Particular requirements

3.2.1 Flexibility test

The requirements according to Annex 16, paragraph 3 of the Regulation are fulfilled.

3.2.2 Headform test

The requirements according to Annex 16, paragraph 4 of the Regulation are fulfilled.

3.2.3 Mechanical strenght test 227g ball test

The requirements according to Annex 16, paragraph 5 of the Regulation are fulfilled.

3.2.4 Test resistance to the environment

3.2.4.1 Test of resistance to abrasion

Test not applicable according to item 6.1.3.4 of paragraph 6.1 of Annex 16 of the Regulation.

3.2.4.2 Test of resistance to simulated weathering

The requirements according to Annex 16, paragraph 6.2 of the Regulation are fulfilled.

3.2.4.3 Cross-cut test

Test not applicable according to item 6.3.1 of paragraph 6.3 of Annex 16 of the Regulation. Only coated products are subject to cross-cut testing.

3.2.4.4 Resistance-to-humidity test

The requirements according to Annex 16, paragraph 6.4 of the Regulation are fulfilled.

3.2.5 Optical Qualities

The requirements according to Annex 16, paragraph 7 of the Regulation are fulfilled.

3.2.6 Fire resistance test

The requirements according to Annex 16, paragraph 8 of the Regulation are fulfilled.

3.2.7 Resistance to chemicals

The requirements according to Annex 16, paragraph 9 of the Regulation are fulfilled.

The safety glazing for the opening roof has a light transmittance below 70%. The glazing bears the additional symbol V specified in item 5.5.2 of the regulation.

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Technische Beschreibung roofSTAR

Mehrscheiben-Isolierglaseinheit aus starrem Kunststoff

0.	Allgemeine Angaben	
0.1	Name und Anschrift des Herstellers:	Matthias Fischer GmbH Theobaldstraße 47 97980 Bad Mergentheim Germany
0.2	Typ:	fi roofSTAR /V-X/B
0.3	Hersteller des Grundwerkstoffs:	LG
1.	Technische Beschreibung	
1.1	Hauptmerkmale:	
1.1.1	Fabrik- oder Handelsmarken:	fi ROOFSTAR
1.1.2	Chemische Bezeichnung der Einzelscheiben:	Außen- und Innenscheibe: Mehrscheiben- Isolierglaseinheit aus starrem Kunststoff (PMMA-HI 533)
1.1.3	Klassifizierung der Scheiben durch den Hersteller:	V-X/B
1.1.4	Nennstärke der Einzelscheiben:	a) Außenscheibe 2,8 mm +/- 0,68 mm b) Innenscheibe 2,8 mm +/- 0,68 mm
1.1.5	Herstellungsverfahren der Isolierglaseinheit:	Die Außen- und Innenscheiben sind miteinander verklebt. Der Aufbau ist symmetrisch. Die Einzelscheiben werden mit einem Spritzgussverfahren hergestellt.
1.1.6	Breite des Luftzwischenraums zwischen den einzelnen Kunststoffscheiben:	27 mm (+/- 5 mm)
1.1.7	Färbung der Kunststoffscheiben:	a) Außenscheibe getönt (grau) b) Innenscheibe farblos, klar
1.1.8	Art und Typ der Oberflächenbeschichtung:	keine Beschichtung auf beiden Scheiben
1.2	Sekundäre Merkmale:	entfällt
2.	Bemerkungen (Fertigungsstätte)	Prevent Components d.o.o. Goražde Prve drinske brigade 23 73000 Goražde Bosnia-Herzegovina, Slovenia
3.	Anlagen	
	- Beispiel des Genehmigungszeichens	
	- Zeichnungen der Scheiben	

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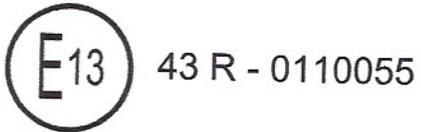


Technische Beschreibung roofSTAR

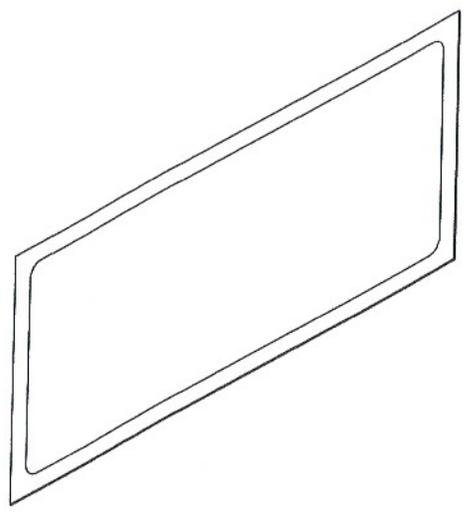
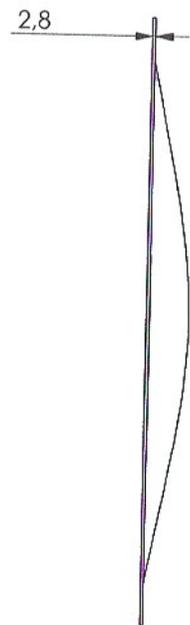
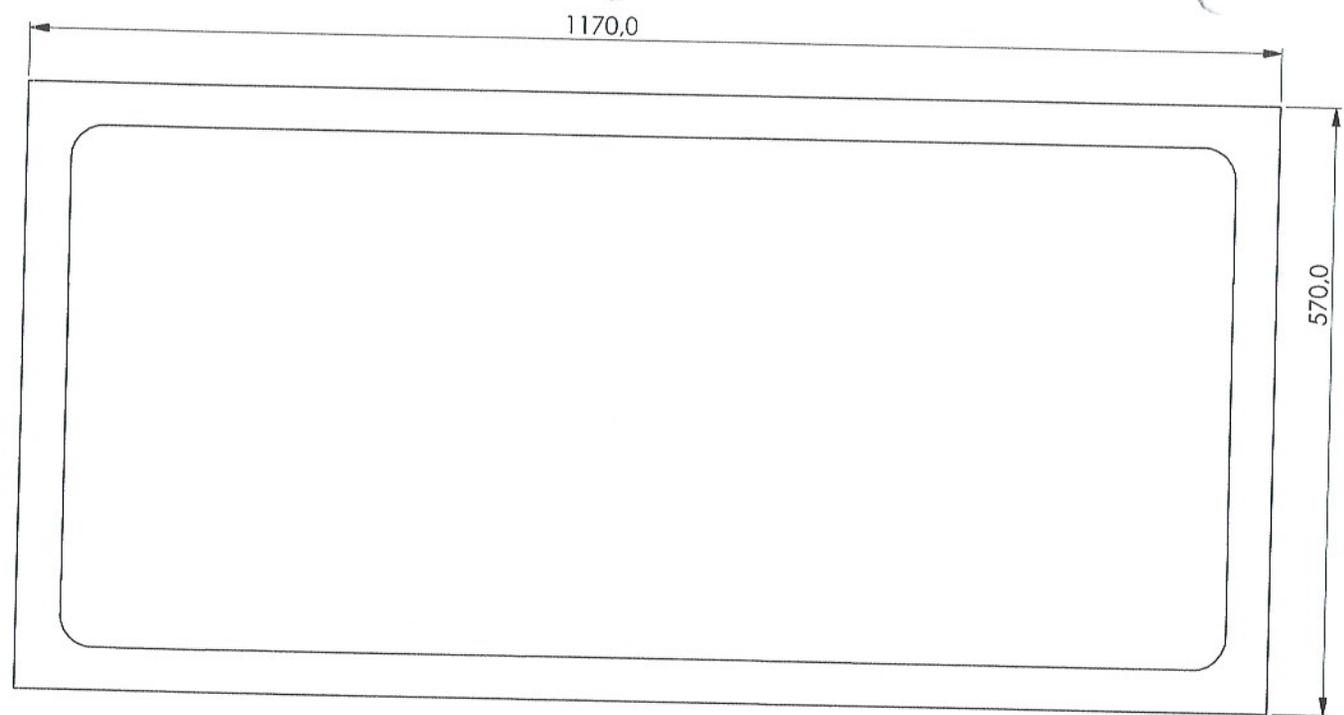
Mehrscheiben-Isolierglaseinheit aus starrem Kunststoff

3.1 Beispiel Genehmigungszeichen

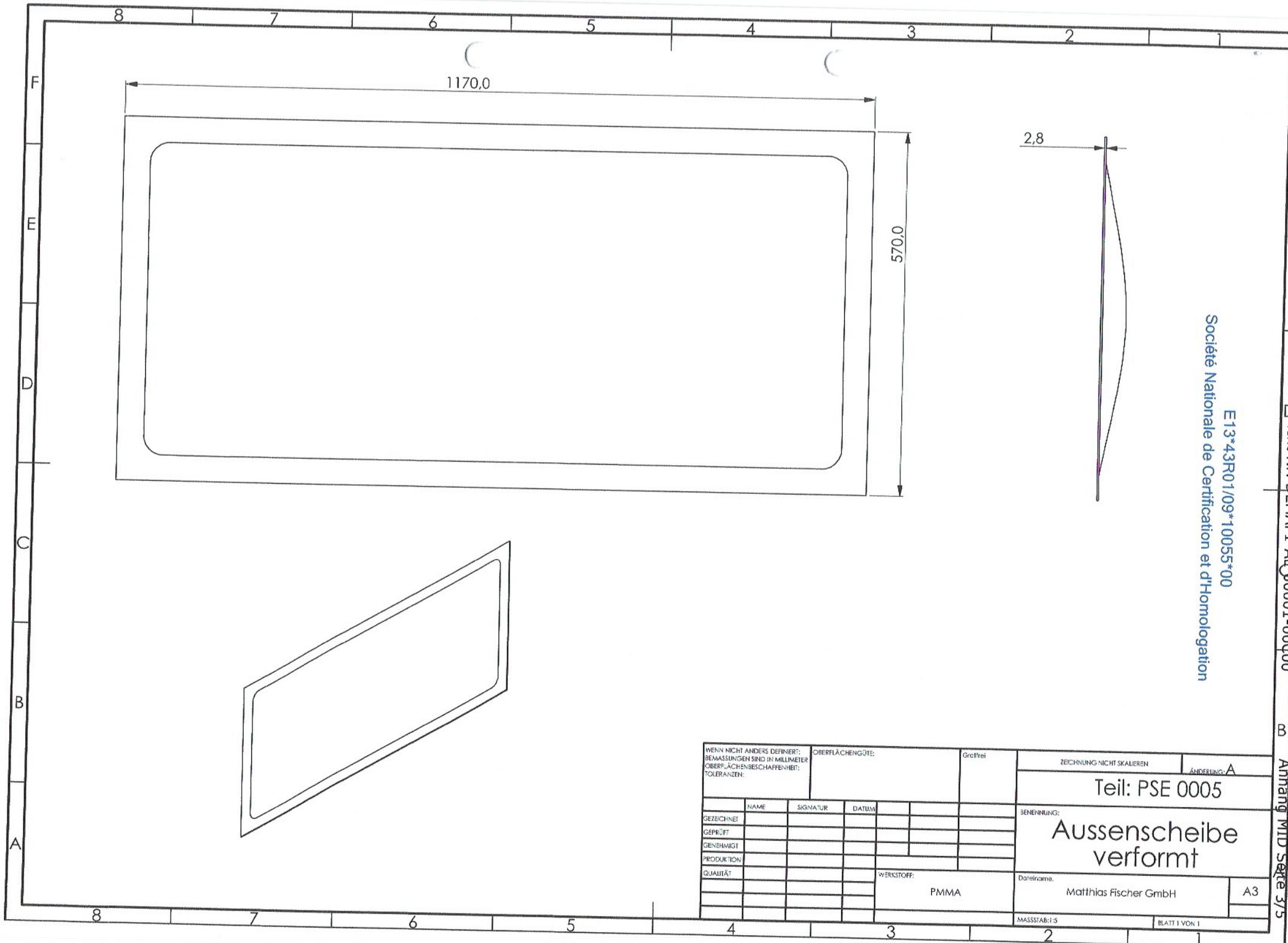
V-X/B



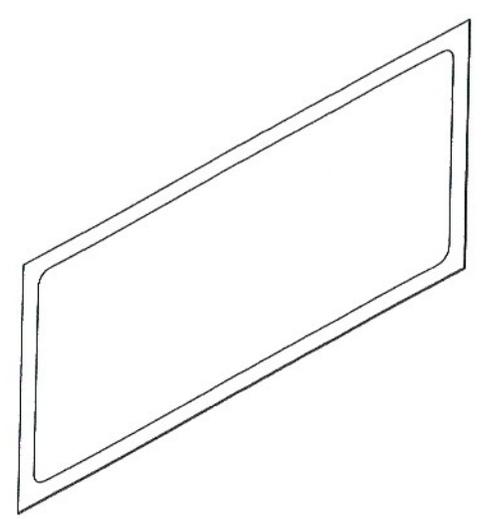
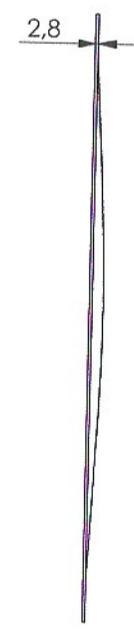
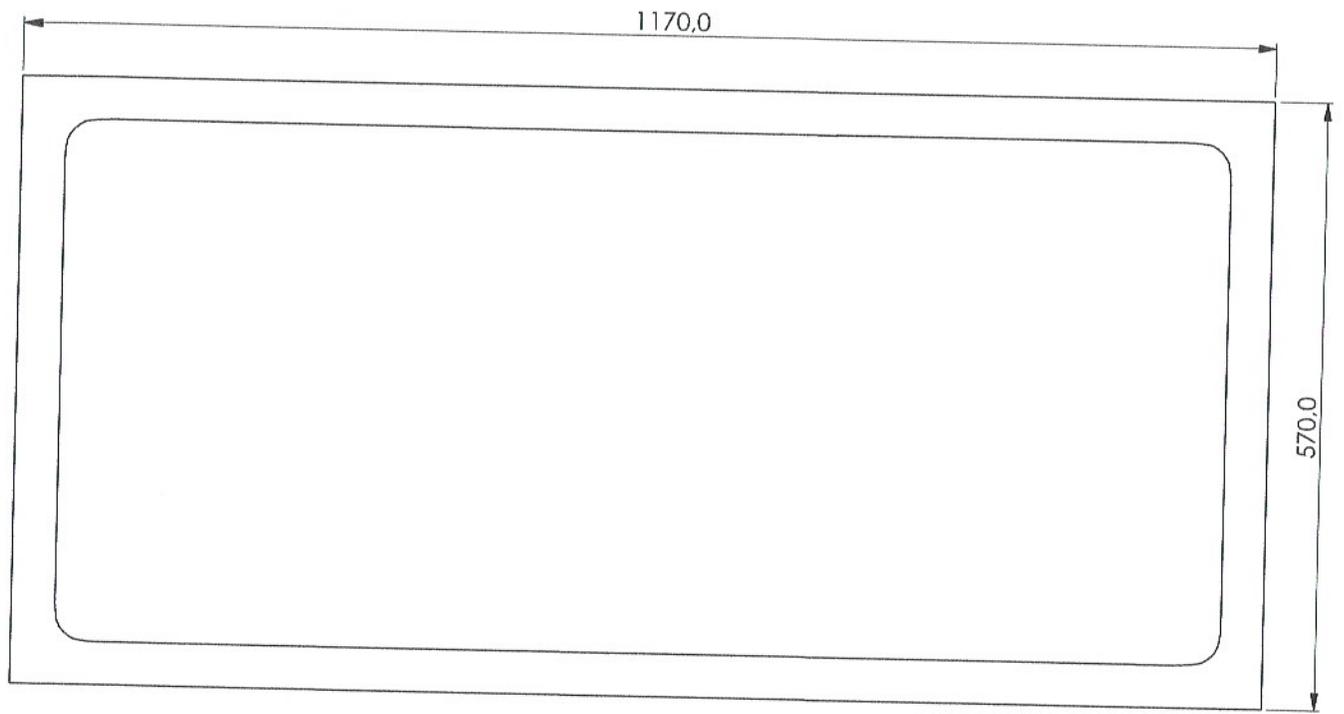
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WENN NICHT ANDERS DEFINIERT: BEMASSUNGEN SIND IN MILLIMETER OBERFLÄCHENBESCHAFFENHEIT: TOLERANZEN:		OBERFLÄCHENGÜTE:		Gratfrei		ZEICHNUNG-NICHT SKALIEREN		ÄNDERUNG: A	
						Teil: PSE 0005			
						BENENNUNG: Aussenscheibe verformt			
						Dateiname: Matthias Fischer GmbH		A3	
						WERKSTOFF: PMMA		MASSTAB: 1:3	
						BLATT 1 VON 1			

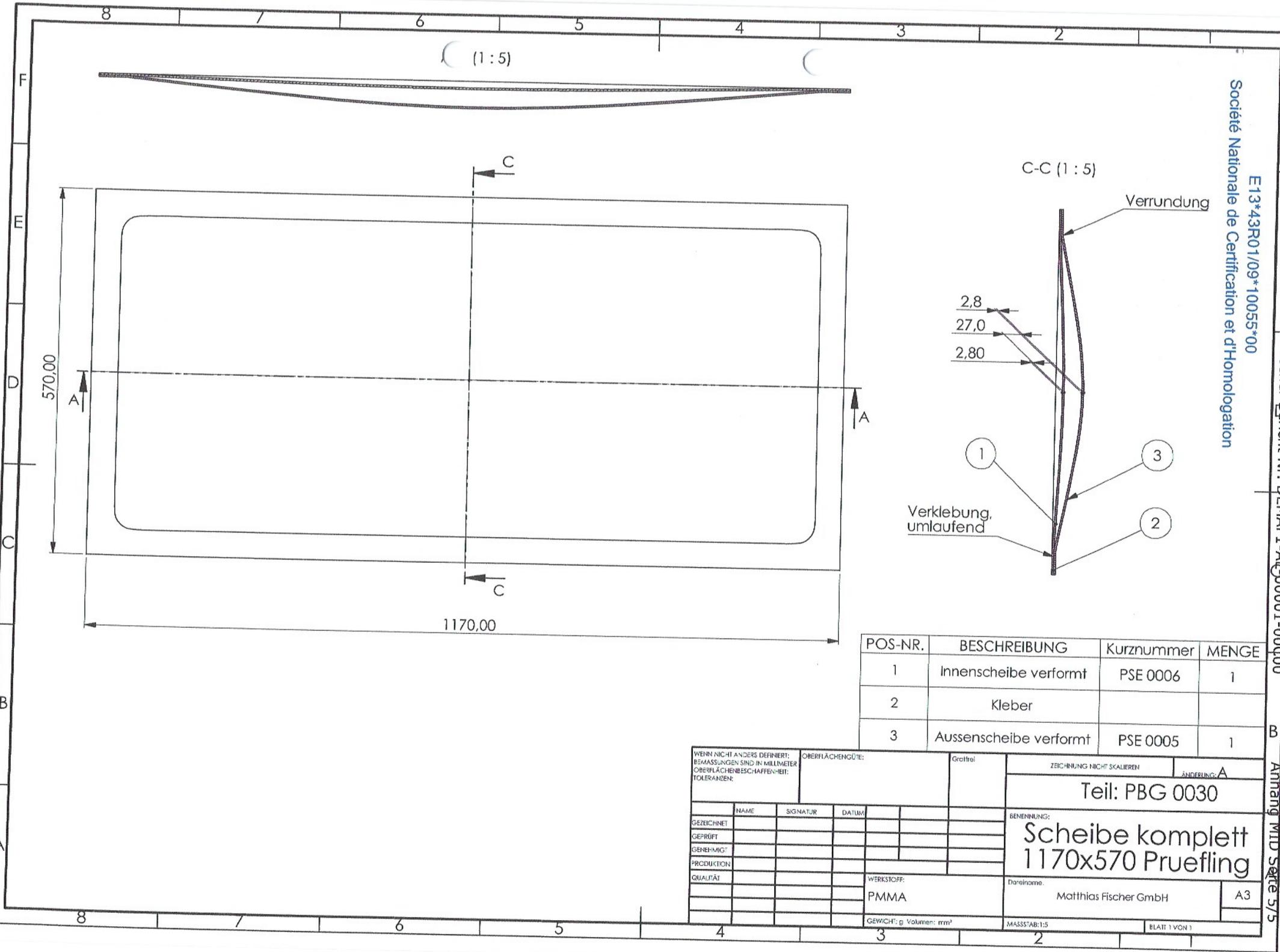


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WENN NICHT ANDERS DEFINIERT: BEMASSUNGEN SIND IN MILLIMETER OBERFLÄCHENBESCHAFFENHEIT: TOLERANZEN:				OBERFLÄCHENGÜTE:		Gratfrei		ZEICHNUNG NICHT SKALIEREN		ÄNDERUNG: A			
								Teil: PSE 0006					
								BENENNUNG: Innenscheibe verformt					
								Dateiname:		Matthias Fischer GmbH		A3	
								WERKSTOFF: PMMA		MASSSTAB: 1:5		BLATT 1 VON 1	
GEZEICHNET		NAME		SIGNATUR		DATUM							
GEPRÜFT													
GENEHMIGT													
PRODUKTION													
QUALITÄT													

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POS-NR.	BESCHREIBUNG	Kurznummer	MENGE
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2	Kleber		
3	Aussenscheibe verformt	PSE 0005	1

WENN NICHT ANDERS DEFINIERT: BEMASSUNGEN SIND IN MILLIMETER OBERFLÄCHENBESCHAFFENHEIT: TOLERANZEN:				OBERFLÄCHENGÜTE:		Größtteil:		ZEICHNUNG NICHT SKALIEREN		ÄNDERUNG: A			
								Teil: PBG 0030					
								BENENNUNG: Scheibe komplett 1170x570 Pruefing					
								WERKSTOFF: PMMA		Darsinome: Matthias Fischer GmbH		A3	
								GEWICHT: g Volumen: mm³		MASSSTAB: 1:5		BLATT 1 VON 1	

	NAME	SIGNATUR	DATUM
GEZEICHNET			
GEPRÜFT			
GENEHMIGT			
PRODUKTION			
QUALITÄT			