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*22R06/01*10596*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 12 décembre 2022

Communication concernant:
Communication concerning:

- **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  ~~approval withdrawn~~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 CASQUE DE PROTECTION ~~SANS~~ / ~~AVEC UN~~ / AVEC PLUSIEURS TYPE(~~S~~)
D'ECRAN EN APPLICATION DU REGLEMENT N°22
of a type of protective helmet ~~without~~ / ~~with~~ ~~one~~ / more visor type(~~s~~) pursuant to regulation N°22

Homologation N°:
Approval number: E13*22R06/01*10596*00

1.	**Marque de fabrique ou de commerce:** Trade mark:	SCHUBERTH
2.	**Type:** Type:	C5 CARBON
3.	**Tailles:** Sizes:	51, 53, 55, 57, 59, 61, 63, 65
4.	**Nom du fabricant:** Name of manufacturer:	SCHUBERTH GmbH
5.	**Adresse du fabricant:** Address	Stegelitzer Str. 12 D-39126 Magdeburg
6.	**Le cas échéant, nom de son mandataire:** If applicable, name of manufacturer's representative:	not applicable
7.	**Adresse:** Address:	not applicable

8.	**Description sommaire:** Brief description of helmet:	Protective helmet with movable chin guard (lower face cover). Shell made of layers of carbon prepregs based on epoxy Resin. Protective padding made of expanded polystyrene in several parts. The adaptation to the different head sizes is done by different shells, protective padding and different thickness of the comfort padding. The helmet is fitted with: visor with separate approval, 2 sun shields in 2 sizes, mark: IV/1/D respective IV/2/D IV/1/S respective IV/2/S Optional: Communication system SC2 with 2 different microphone positions.
9.	**Casque** **dépourvu de protection maxilaire (J)** **muni d'une protection maxilaire intégrale (P)** ~~**d'une protection maxillaire non intégrale (NP)**~~ Helmet without lower face cover (J) with protective lower face cover (P) ~~with non protective lower face cover (NP)~~	With detachable or movable lower face cover (P/J)
10.	**Type de l'écran ou des écrans:** Type of visor or visors:	SV6/1/C (E13*22R06/01*10511*00) SV6/2/C (E13*22R06/01*10512*00) SV6/1/D (E13*22R06/01*10513*00) SV6/2/D (E13*22R06/01*10514*00) SV6/1/Y (E13*22R06/01*10515*00) SV6/2/Y (E13*22R06/00*10516*00) SV6/1/S (E13*22R06/00*10526*00) SV6/2/S (E13*22R06/00*10527*00)
11.	**Description sommaire de l'écran ou des écrans:** Brief description of visor or visors:	clear or tinted visor, three dimensional injected
12.	**Présenté à l'homologation les:** Submitted for approval:	21.11.2022
13.	**Service technique chargé des essais d'homologation:** Technical service responsble for carrying out the tests:	TÜV Rheinland Luxemburg S.à r.l. 2-4, rue Edmond Reuter L-5326 Contern
14.	**Date du procès-verbal délivré par ce service:** Date of report issued by that service:	21.11.2022
15.	**Numéro du procès-verbal délivré par ce service:** Number of test report issued by that service:	224LP0012-00
16.	**Remarques:** Comments:	not applicable

17. **Homologation:**
Approval: granted

18. **Lieu:**
Place: Bertrange

19. **Date:**
Date: 12 décembre 2022

20. **Signature:**
Signature:

Pour le Ministre de la Mobilité et des Travaux publics

Alain DISIVISCOUR
Conseiller

Pour la SNCH

Société Nationale de Certification et d'Homologation snch

Laurent LINDEN
Directeur opérationnel

ACCREDITATION NUMBER: 5/001 ISO/IEC 17065 OFFICE LUXEMBOURGEOIS D'ACCREDITATION ET DE SURVEILLANCE

21. **Les documents suivants portant le numéro d'homologation indiqué ci-dessus peuvent être obtenues sur demande:** see index to type-approval report
The following documents, bearing the approval number shown above, are available on request:

Modifications faisant l'objet de la présente extension:
Reason for extension:

not applicable

LE GOUVERNEMENT
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Ministère de la Mobilité
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Département de la mobilité
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SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
S.A.

Registre de Commerce: B 27180

L-8070 Bertrange

Référence: E13*22R06/01*10596*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 12 décembre 2022

Index du dossier d'homologation
Index to type-approval report

	Numéro d'homologation: Approval number:	E13*22R06/01*10596*00
	Révision: Revision:	00
	Marque de fabrique ou de commerce: *Trade name or mark:*	*SCHUBERTH*
	Type: *Type:*	*C5 CARBON*
1.	**Procès-verbal d'essai:** Test report:	N° 224LP0012-00
	- Technical report: - List of modification: - Test minutes: - Technical information:	Page(s) 1 to5; Appendix 0 - Page(s) 6; Appendix 1 - Page(s) 7 to 24; Appendix L - Page(s) 1 & 2.
2.	**Dossier du constructeur:** Report of the manufacturer:	N° Description Helmet C5_CARBON_GG
	- Manufacturer's information document:	Page(s) 1 to 21.
3.	**Autres documents annexés:** Other documents annexed:	not applicable
4.	**Date de délivrance de l'homologation initiale:** Date of issue of initial type approval:	12.12.2022
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

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Test Report No. 224LP0012-00

Type : C5 CARBON

Manufacturer : SCHUBERTH GmbH

T E S T R E P O R T

according to

UN-R 22

Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds

as last amended by

Amendment 06, Supplement 1

For the Type Approval of:

☐ Helmet + Visor
☒ Helmet
☐ Visor

Approval Status

UN-approval : --

Structure of the Test Report
Section no.
0. General information
1. Tested vehicle(s)/object(s)
2. Test record
3. Appendices
4. Statement of conformity
Attachment L

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

0. General information

0.1.	Trade mark	:	SCHUBERTH
0.2.	Type	:	C5 CARBON
0.3.	Helmet Category	:	see Attachment L, item 9
0.4.	Name and address of the manufacturer	:	SCHUBERTH GmbH Stegelitzer Str. 12 39126 Magdeburg Germany
0.5.	Information Document	:	Description Helmet C5_CARBON_GG
	Date of issue	:	2022-11-11
	Date of last change	:	--

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Test Report No. 224LP0012-00

Type : C5 CARBON

Manufacturer : SCHUBERTH GmbH

1. **Tested vehicle(s) / object(s)**

1.1. Description

1.1.1.	Object	:	see Attachment L, item 8
	Trade name	:	see Attachment L, item 1
	Type(s) /variant(s) / version(s)	:	see Attachment L, item 2
	Identification number	:	without
1.1.2.	Condition of vehicle(s)/object(s)	:	new
1.2.	Worst case configuration	:	no worst case assessment required (no variants/versions)
1.3.	Remarks	:	without

2. Test record

2.1.	Test and measuring equipment	:	The test and measurement equipment used were in compliance with the test requirements.
2.1.1.	Specifications for the test site	:	not applicable
2.1.2.	Subcontracting	:	not applicable

2.2. Test results

Test results referring to measurements	:	passed
Test results of not measurable attributes	:	not applicable
Alternative test methods	:	not applicable
Remarks concerning extension	:	not applicable

2.3.	Additional information	:	The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
	Test site(s)	:	TÜV Rheinland Kraftfahrt GmbH Technology Center Traffic Safety Department Motorcycles & Agricultural Laboratory for Head Protection Am Grauen Stein 51105 Cologne / Germany
	Test date	:	2022-12-06
2.4.	Remarks	:	without

3. **Appendices**

Appendix 0	:	List of modifications
Appendix 1	:	Test minutes
Attachment L	:	Communication

4. **Statement of conformity**

The Information Document listed in section 0.5., and the type described therein, comply with the requirements stated on page 1. The test results in this report refer to the vehicle(s)/object(s) described under section 1.1. With regards to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025:2017.

Cologne, 2022-12-06

Schaudt

Peter Schaudt
Technical Expert Technical Service

Appendix 0

List of modifications

Correction of	:	--
Modification of	:	--
Addition of	:	--
Deletion of	:	--

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Test Report No. 224LP0012-00

Type : C5 CARBON

Manufacturer : SCHUBERTH GmbH

Test minutes **Appendix 1**

General Requirements for Helmets

1	Basic construction *(6.1)*	:	The helmet consists of a shell, protective padding, comfort padding and a retention system.
2	Additional construction *(6.2/ 6.2.1)*	:	refer Attachment L, item 8
3	Lower Face cover *(6.2.2.)*	:	refer Attachment L, item 9
4	Protection areas *(6.4)*	:	The shell and padding of the helmets of each size cover the required areas.
5	Hearing ability and Temperature *(6.5)*	:	The wearer's ability to hear is not dangerously affected by the helmet. The helmet has ventilation holes in the shell to prevent overheating.
6	Outer Projections *(6.6 / 6.7)*	:	All external projections are rounded and smooth. All external projections ≤ 2 mm have a radius ≥ 1 mm There are projections of the outer shell, greater than 2mm. All external projections > 2 mm have a radius ≥ 2 mm. The shear assessment was successful.
7	Inner Projections *(6.8)*	:	No inward facing sharp edges. All internal parts are covered with padding.
8	Helmet components *(6.9)*	:	The components of the helmet are assembled in a way that they do not become easily detached as a result of impact.
9	Retention system		
9.1	Abrasion protection *(6.10)*	:	The wearer is protected from abrasion by the retention system.
9.2	General *(6.11)*	:	The retention system fully complies with the requirements of the regulation: - Retention System is permanently attached - Chin strap is adjustable and maintains tension

			- Strap has a width of minimum 20 mm - No chin-cup - No rigid parts 130 mm below head form reference plane - Total opening of retention system only with voluntary action - Detailed instructions for use of the buckle - If sliding bar or double D ring: red pulling flap with minimum dimensions of 10x20 mm is provided - Buckle cannot be left in partially closed position
9.3	Chin strap *(6.11.1 / 7.12.1.1)*	:	Under a load of 150 N the width of the chin strap is > 20 mm. The chin strap is covered with an additional comfort padding. It is not possible to open the quick-release mechanism with a ball of diameter 100 mm.
10	Detachable/movable Face cover *(6.12)*	:	The lower face cover complies with the requirements of the regulation: - Device maintains intended position during tests - Incorrect handling is impossible - Control / actuating device is red - Helmet complies with requirements of category “J” and “P”
11	Materials *(6.13)*	:	The materials used for the helmet comply with the regulation.
12	Breakage and Deformation *(6.14)*	:	The helmet does not show breakage or deformation dangerous to the wearer after testing.
13	Peripheral Vision *(6.15)*	:	Complies with the requirements of the regulation, refer test results.
14	Sun Shield		
14.1	General *(6.17.1)*	:	The sun shield does not affect the visor in any way. The sun shield is controlled separately from the visor.
14.2	Field of Vision *(6.17.2)*	:	Complies with the requirements of the regulation, see also test results: - Field of Vison - Luminous transmittance - No defects impairing vision - No noticeable distortion - Spectral transmittance - Reflective power values

15	Conspicuity marking *(6.18)*	:	The helmet is optionally equipped with retroreflective parts. The dimensions and locations of the retro-reflective devices are in acc. with the regulation.
16	Information *(14)*	:	Manufacturer-information about size and weight are located on the outer shell by adhesive label(s). Additional consumer information in accordance with the ECE-R 22 is given by the owner's manual. It has to always be enclosed to the offered helmet.

6.15. Peripheral vision

Helmet Size	Testhead	horizontal angle min. 210°	upwards angle min. 7°	downwards angle min. 45°
61	605	Pass	Pass	Pass
51	495	Pass	Pass	Pass

7.3. Impact-absorption-tests

All values are within the limits of the regulation, 275 g respectively 2400 HIC.

P-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	+50°C	Kerb	B	65	134	887	7,55
625	+50°C	Kerb	X right	65	158	1057	7,55
625	+50°C	Kerb	P	65	185	1047	7,58
625	+50°C	Kerb	R	65	135	926	7,58
625	-10°C	Flat	B	65	147	1071	7,58
625	-10°C	Flat	X right	65	215	1680	7,58
625	-10°C	Flat	P	65	184	1934	7,58
625	-10°C	Flat	R	65	173	1135	7,58
625	-10°C	Flat	S	65	167	646	6,04
625	+50°C	Kerb	B	63	133	658	7,62
625	+50°C	Kerb	X right	63	194	1211	7,62
625	+50°C	Kerb	P	63	137	843	7,62
625	+50°C	Kerb	R	63	135	915	7,62
625	AMB	Kerb	B	63	140	775	7,59
625	AMB	Kerb	X right	63	184	1179	7,59
625	AMB	Kerb	P	63	127	868	7,62
625	AMB	Kerb	R	63	131	877	7,59
625	-10°C	Flat	B	63	145	1053	7,59
625	-10°C	Flat	X right	63	190	1503	7,55
625	-10°C	Flat	P	63	177	1614	7,62
625	-10°C	Flat	R	63	155	1190	7,62
625	-10°C	Flat	S	63	103	367	6,1
625	AMB	Flat	B	63	142	1116	7,65
625	AMB	Flat	X right	63	190	1506	7,62
625	AMB	Flat	P	63	180	1551	7,59
625	AMB	Flat	R	63	154	1171	7,62

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Test Report No. 224LP0012-00

Type : C5 CARBON

Manufacturer : SCHUBERTH GmbH

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	MOIST.	Flat	B	63	140	1092	7,65
625	MOIST.	Flat	X right	63	186	1389	7,59
625	MOIST.	Flat	P	63	164	1515	7,65
625	MOIST.	Flat	R	63	139	998	7,59
605	+50°C	Kerb	B	61	122	637	7,62
605	+50°C	Kerb	X right	61	159	1102	7,49
605	+50°C	Kerb	P	61	132	745	7,62
605	+50°C	Kerb	R	61	139	930	7,62
605	+50°C	Kerb	X left	61	154	1066	7,59
605	-10°C	Flat	B	61	148	1057	7,62
605	-10°C	Flat	X right	61	210	1698	7,59
605	-10°C	Flat	P	61	193	1669	7,60
605	-10°C	Flat	R	61	171	1189	7,58
605	-10°C	Flat	S	61	141	617	6,07
575	+50°C	Kerb	B	59	154	865	7,60
575	+50°C	Kerb	X right	59	158	1155	7,55
575	+50°C	Kerb	P	59	167	1185	7,58
575	+50°C	Kerb	R	59	164	1358	7,53
575	AMB	Kerb	B	59	156	959	7,58
575	AMB	Kerb	X right	59	169	1268	7,55
575	AMB	Kerb	P	59	151	1145	7,58
575	AMB	Kerb	R	59	166	1295	7,58
575	-10°C	Flat	B	59	174	1375	7,58
575	-10°C	Flat	X right	59	207	1752	7,55
575	-10°C	Flat	P	59	193	1768	7,60
575	-10°C	Flat	R	59	209	1984	7,58
575	-10°C	Flat	S	59	115	452	6,07
575	AMB	Flat	B	59	170	1302	7,60
575	AMB	Flat	X right	59	210	1755	7,55
575	AMB	Flat	P	59	191	1940	7,53
575	AMB	Flat	R	59	190	1727	7,55
575	MOIST.	Flat	B	59	169	1334	7,55
575	MOIST.	Flat	X right	59	199	1668	7,58
575	MOIST.	Flat	P	59	195	1972	7,58
575	MOIST.	Flat	R	59	185	1661	7,58
535	+50°C	Kerb	B	55	146	950	7,53
535	+50°C	Kerb	X right	55	166	1166	7,58
535	+50°C	Kerb	P	55	149	785	7,60
535	+50°C	Kerb	R	55	154	1136	7,55
535	-10°C	Flat	B	55	147	1046	7,55
535	-10°C	Flat	X right	55	190	1549	7,55
535	-10°C	Flat	P	55	174	1676	7,55
535	-10°C	Flat	R	55	169	1345	7,55
535	-10°C	Flat	S	55	129	519	6,07
515	+50°C	Kerb	B	53	130	787	7,55
515	+50°C	Kerb	X right	53	149	1106	7,55
515	+50°C	Kerb	P	53	146	832	7,53
515	+50°C	Kerb	R	53	131	877	7,53

Type : **C5 CARBON**

Manufacturer : **SCHUBERTH GmbH**

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
515	-10°C	Flat	B	53	172	1365	7,58
515	-10°C	Flat	X right	53	197	1594	7,53
515	-10°C	Flat	P	53	178	1795	7,53
515	-10°C	Flat	R	53	165	1394	7,53
515	-10°C	Flat	S	53	143	739	6,02
495	+50°C	Kerb	B	51	159	1231	7,58
495	+50°C	Kerb	X right	51	150	1161	7,55
495	+50°C	Kerb	P	51	166	1101	7,55
495	+50°C	Kerb	R	51	168	1454	7,55
495	-10°C	Flat	B	51	169	1265	7,58
495	-10°C	Flat	X right	51	228	1964	7,55
495	-10°C	Flat	P	51	190	2047	7,55
495	-10°C	Flat	R	51	193	1683	7,55
495	-10°C	Flat	S	51	133	555	6,03

J-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	+50°C	Kerb	B	65	62	270	7,55
625	+50°C	Kerb	X right	65	166	1041	7,55
625	+50°C	Kerb	P	65	207	1134	7,55
625	+50°C	Kerb	R	65	132	993	7,58
625	-10°C	Flat	B	65	87	364	7,55
625	-10°C	Flat	X right	65	200	1570	7,53
625	-10°C	Flat	P	65	174	1378	7,58
625	-10°C	Flat	R	65	170	1236	7,60
625	+50°C	Kerb	B	63	67	270	7,65
625	+50°C	Kerb	X right	63	154	931	7,59
625	+50°C	Kerb	P	63	158	915	7,65
625	+50°C	Kerb	R	63	135	952	7,62
625	-10°C	Flat	B	63	86	378	7,62
625	-10°C	Flat	X right	63	184	1452	7,59
625	-10°C	Flat	P	63	171	1204	7,62
625	-10°C	Flat	R	63	156	1132	7,59
605	+50°C	Kerb	B	61	69	310	7,58
605	+50°C	Kerb	X right	61	138	970	7,53
605	+50°C	Kerb	P	61	132	943	7,58
605	+50°C	Kerb	R	61	132	965	7,58
605	-10°C	Flat	B	61	90	446	7,58
605	-10°C	Flat	X right	61	212	1742	7,53
605	-10°C	Flat	P	61	196	1999	7,55
605	-10°C	Flat	R	61	173	1307	7,55

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Test Report No. 224LP0012-00

Type : C5 CARBON

Manufacturer : SCHUBERTH GmbH

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
575	+50°C	Kerb	B	59	63	270	7,55
575	+50°C	Kerb	X right	59	136	999	7,58
575	+50°C	Kerb	P	59	160	1100	7,58
575	+50°C	Kerb	R	59	160	1234	7,55
575	-10°C	Flat	B	59	86	400	7,55
575	-10°C	Flat	X right	59	204	1720	7,55
575	-10°C	Flat	P	59	202	2032	7,55
575	-10°C	Flat	R	59	214	2000	7,55
535	+50°C	Kerb	B	55	65	283	7,58
535	+50°C	Kerb	X right	55	143	1002	7,58
535	+50°C	Kerb	P	55	146	899	7,55
535	+50°C	Kerb	R	55	151	1156	7,55
535	-10°C	Flat	B	55	71	305	7,58
535	-10°C	Flat	X right	55	197	1602	7,58
535	-10°C	Flat	P	55	179	1734	7,55
535	-10°C	Flat	R	55	163	1275	7,58
515	+50°C	Kerb	B	53	70	265	7,58
515	+50°C	Kerb	X right	53	134	920	7,53
515	+50°C	Kerb	P	53	151	869	7,53
515	+50°C	Kerb	R	53	141	925	7,53
515	-10°C	Flat	B	53	90	455	7,58
515	-10°C	Flat	X right	53	191	1662	7,53
515	-10°C	Flat	P	53	181	1868	7,52
515	-10°C	Flat	R	53	161	1350	7,53
495	+50°C	Kerb	B	51	79	337	7,55
495	+50°C	Kerb	X right	51	136	1000	7,55
495	+50°C	Kerb	P	51	170	1207	7,55
495	+50°C	Kerb	R	51	172	1342	7,55
495	-10°C	Flat	B	51	80	429	7,55
495	-10°C	Flat	X right	51	221	2105	7,53
495	-10°C	Flat	P	51	190	1911	7,55
495	-10°C	Flat	R	51	179	1591	7,58

Low energy impact

All values are within the limits of the regulation, 180 g respectively 1300 HIC.

P-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	AMB	Flat	B	63	122	624	6,12
625	AMB	Flat	X right	63	151	883	6,12
625	AMB	Flat	P	63	154	1200	6,12
625	AMB	Flat	R	63	139	735	6,10
575	AMB	Kerb	B	59	127	666	6,05
575	AMB	Kerb	X right	59	116	648	6,08
575	AMB	Kerb	P	59	131	553	6,07
575	AMB	Kerb	R	59	144	924	6,07

J-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	AMB	Kerb	B	63	46	122	6,12
625	AMB	Kerb	X right	63	90	464	6,08
625	AMB	Kerb	P	63	121	451	6,10
625	AMB	Kerb	R	63	107	511	6,08
575	AMB	Flat	B	59	53	196	6,07
575	AMB	Flat	X right	59	164	998	6,07
575	AMB	Flat	P	59	162	1189	6,05
575	AMB	Flat	R	59	163	1164	6,04

High energy impact

All values are within the limits of the regulation, 275 g respectively 2880 HIC.

P-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	AMB	Flat	B	63	159	1459	8,29
625	AMB	Flat	X right	63	211	1895	8,26
625	AMB	Flat	P	63	177	1917	8,29
625	AMB	Flat	R	63	162	1398	8,29
575	AMB	Flat	B	59	189	1725	8,31
575	AMB	Flat	X right	59	245	2328	8,25
575	AMB	Flat	P	59	223	2619	8,31
575	AMB	Flat	R	59	204	2156	8,28

J-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	AMB	Flat	B	63	100	504	8,26
625	AMB	Flat	X right	63	213	1839	8,22
625	AMB	Flat	P	63	202	1943	8,29
625	AMB	Flat	R	63	172	1494	8,29
575	AMB	Flat	B	59	95	556	8,31
575	AMB	Flat	X right	59	232	2183	8,25
575	AMB	Flat	P	59	221	2498	8,25
575	AMB	Flat	R	59	203	2077	8,28

Extra point

All values are within the limits of the regulation, 275 g respectively 2400 HIC.

P-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Max Peak [g]**	**HIC**	**Speed [m/s]**
625	AMB	Flat	BXL	63	143	1108	7,55
625	AMB	Flat	BXPR	63	163	1327	7,59
625	AMB	Flat	RXPR	63	163	1305	7,62
625	AMB	Flat	RXL	63	194	1580	7,59

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	AMB	45°L	BXR	63	124	803	7,59
625	AMB	45°L	BXPL	63	118	789	7,59
625	AMB	45°L	RXPL	63	126	906	7,59
625	AMB	45°L	RXR	63	137	897	7,62
575	AMB	Flat	BXL	59	166	1271	7,55
575	AMB	Flat	BXPR	59	185	1603	7,58
575	AMB	Flat	RXPR	59	183	1602	7,58
575	AMB	Flat	RXL	59	208	1896	7,58
575	AMB	45°L	BXR	59	122	814	7,55
575	AMB	45°L	BXPL	59	131	936	7,58
575	AMB	45°L	RXPL	59	141	1086	7,58
575	AMB	45°L	RXR	59	135	1061	7,58

7.4.2 Test for projections and surface friction (method B).

All values are within the limits of the regulation.

Test of outer surface friction at point P of the outer shell.

Test at the following points of the outer shell:

Helmet size	Test head	Place of test	Result
57	575	rear wind tearing edge	sheared off
57	575	front air vent cover	sheared off

7.4.3 Test for projections of the category P/J with movable lower face cover.
(strength assessment of the movable face cover in the position "J")

All values are within the limits of the regulation.

7.5 Rigidity test

All values are within the limits of the regulation.

P-Variant			
Helmet Size	Direction	Deformation (max. 40 mm)	Permanent deformation (max. 15 mm)
65	longitudinal	12	3
	transversal	10	3
59	longitudinal	12	3
	transversal	11	3

J-Variant			
Helmet Size	Direction	Deformation (max. 40 mm)	Permanent deformation (max. 15 mm)
65	longitudinal	18	5
	transversal	13	4
59	longitudinal	19	6
	transversal	13	4

7.6. Dynamic test of the retention system

All values are within the limits of the regulation.

P-Variant				
Helmet Size	Headsize	dyn.movement (max. 35 mm)	stat.movement (max.25 mm)	Remarks
61	605	28,7	9,8	--
51	495	27,8	8,2	--

J-Variant				
Helmet Size	Headsize	dyn.movement (max. 35 mm)	stat.movement (max.25 mm)	Remarks
61	605	28,3	8,8	--
51	495	26,5	7,2	--

7.7.2. Retention (detaching) test - [Weight hooked to the front border]

All values are within the limits of the regulation.

P-Variant			
Helmet Size	Headsize	angle of movement (max. 30°)	Remarks
61	605	25	--
51	495	28	--

J-Variant			
Helmet Size	Headsize	angle of movement (max. 30°)	Remarks
61	605	16	--
51	495	12	--

7.7.3./4. Retention (detaching) test - [Falling mass]

All values are within the limits of the regulation.

P-Variant			
Helmet Size	Headsize	angle of movement (max. 30°)	Remarks
61	605	25	--
51	495	28	--

J-Variant			
Helmet Size	Headsize	angle of movement (max. 30°)	Remarks
61	605	16	--
51	495	17	--

7.9. Sun shield tests

All values are within the limits of the regulation.

Luminous transmittance [Item 6.17.2.2.] / road traffic sign and signals [Item 6.17.2.4.]

IV/1/D				
Luminous transmittance τ_v (D65) (>0,2)	$Q_{Red} \geq 0,8$	$Q_{Yellow} \geq 0,6$	$Q_{green} \geq 0,6$	$Q_{blue} \geq 0,6$
0,230	1,016	1,009	0,997	1,053
0,235	1,002	1,012	0,995	1,050
0,235	1,015	1,010	0,997	1,050
IV/2/D				
Luminous transmittance τ_v (D65) (>0,2)	$Q_{Red} \geq 0,8$	$Q_{Yellow} \geq 0,6$	$Q_{green} \geq 0,6$	$Q_{blue} \geq 0,6$
0,236	1,009	1,011	0,996	1,053
0,227	1,012	1,012	0,995	1,054
0,232	1,010	1,013	0,994	1,053
IV/1/S				
Luminous transmittance τ_v (D65) (>0,2)	$Q_{Red} \geq 0,8$	$Q_{Yellow} \geq 0,6$	$Q_{green} \geq 0,6$	$Q_{blue} \geq 0,6$
0,298	1,070	1,040	0,977	0,987
0,294	1,076	1,042	0,976	0,985
0,292	1,068	1,040	0,977	0,987
IV/2/S				
Luminous transmittance τ_v (D65) (>0,2)	$Q_{Red} \geq 0,8$	$Q_{Yellow} \geq 0,6$	$Q_{green} \geq 0,6$	$Q_{blue} \geq 0,6$
0,318	1,084	1,036	0,979	0,991
0,324	1,077	1,035	0,980	0,990
0,337	1,083	1,040	0,977	0,988

Spectral transmittance ($\geq 0{,}2\tau_v$) [Item 6.17.2.5]

IV/1/D
0,205
0,212
0,213
IV/2/D
0,219
0,204
0,216
IV/1/S
0,266
0,256
0,259
IV/2/S
0,286
0,289
0,304

Refractive powers [Item 6.17.2.6]

IV/1/D		Prismatic Diff. Effect [cm/m]		
		horizontal base		
Spherical effect [m^{-1}]	Astigmatic effect [m^{-1}]	outside	inside	vertical base
-0,055	0,006	0,20	--	0,00
-0,070	0,004	0,30	--	0,05
-0,063	0,006	0,20	--	0,00
IV/2/D		Prismatic Diff. Effect [cm/m]		
		horizontal base		
Spherical effect [m^{-1}]	Astigmatic effect [m^{-1}]	outside	inside	vertical base
-0,046	0,006	0,25	--	0,00
-0,049	0,004	0,30	--	0,00
-0,045	0,012	0,25	--	0,00
IV/1/S		Prismatic Diff. Effect [cm/m]		
		horizontal base		
Spherical effect [m^{-1}]	Astigmatic effect [m^{-1}]	outside	inside	vertical base
-0,072	0,006	0,25	--	0,00
-0,072	0,010	0,25	--	0,00
-0,065	0,008	0,30	--	0,00
IV/2/S		Prismatic Diff. Effect [cm/m]		
		horizontal base		
Spherical effect [m^{-1}]	Astigmatic effect [m^{-1}]	outside	inside	vertical base
-0,055	0,010	0,30	--	0,05
-0,050	0,007	0,30	--	0,00
-0,057	0,009	0,30	--	0,00

7.10 Microslip-test of the chin strap

All values are within the limits of the regulation.

Movement:	4 mm	Limit: ≤ 10 mm

7.11 Test for resistance to abrasion of the chin strap

Not necessary, because the movement of the chin strap after 500 cycles was less than 5 mm.

7.12 Tests for retention systems relying on quick-release mechanisms

All values are within the limits of the regulation.

Operation force of the automatic buckle ≤ 30 N (Measured at static load of 150 N)

Resistance of the automatic buckle
The load of 2000 N at the automatic buckle made no fracture or disengage. After the test the automatic buckle was still be capable of operation.

7.13. Oblique impact test method of measuring rotational acceleration

All values are within the limits of the regulation, 10400 rad/s2 respectively BrIC 0,78.

P-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Rotation [rad/s2]**	**BrIC**	**Speed [m/s]**
625	AMB	45°	FLR	63	1383	0,14	8,11
625	AMB	45°	Rear	63	1966	0,19	8,11
625	AMB	45°	LL	63	1757	0,25	8,07
625	AMB	45°	Front	63	1413	0,17	8,14
625	AMB	45°	RLR	63	1775	0,23	8,11
575	AMB	45°	FLR	59	3178	0,38	8,11
575	AMB	45°	Rear	59	2717	0,29	8,11
575	AMB	45°	LL	59	2531	0,35	8,11
575	AMB	45°	Front	59	2378	0,35	8,11
575	AMB	45°	RLR	59	2440	0,30	8,11

J-Variant							
Headsize	**Cond.**	**Anvil Shape**	**Point**	**Helmet Size**	**Rotation [rad/s2]**	**BrIC**	**Speed [m/s]**
625	AMB	45°	FLR	63	1383	0,14	8,11
625	AMB	45°	Rear	63	1966	0,19	8,11
625	AMB	45°	LL	63	1757	0,25	8,07
625	AMB	45°	Front	63	1413	0,17	8,14
625	AMB	45°	RLR	63	1775	0,23	8,11
575	AMB	45°	FLR	59	3178	0,38	8,11
575	AMB	45°	Rear	59	2717	0,29	8,11
575	AMB	45°	LL	59	2531	0,35	8,11
575	AMB	45°	Front	59	2378	0,35	8,11
575	AMB	45°	RLR	59	2440	0,30	8,11

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Communication concerning the type-approval of a type of vehicle

corresponding Test Report : 224LP0012-00
Type : C5 CARBON
Manufacturer : SCHUBERTH GmbH

Attachment L

data referring to UN Regulation No. 22,
Amendment 06, Supplement 1

Communication pursuant to Regulation No. 22

1	Trade mark	:	SCHUBERTH
2	Type	:	C5 CARBON
3	Sizes	:	51, 53, 55, 57, 59, 61, 63, 65
4	Manufacturer's name	:	SCHUBERTH GmbH
5	Address		Stegelitzer Str. 12 39126 Magdeburg Germany
6	If applicable, name of manufacturer's representative	:	see following item 7
7	Address	:	not applicable
8	Brief description of helmet	:	Protective helmet with moveable chin guard (lower face cover). Shell made of layers of carbon prepregs based on epoxy Resin. Protective padding made of expanded polystyrene in several parts. The adaption to the different head sizes is done by different shells, protective padding and different thickness of the comfort padding. The helmet is fitted with: visor with separate approval, 2 sun shields in 2 sizes each, mark: IV/1/D respective IV/2/D IV/1/S respective IV/2/S Optional: Communication system SC2 with 2 different microphone positions

Communication concerning the type-approval of a type of vehicle

corresponding Test Report : 224LP0012-00
Type : C5 CARBON
Manufacturer : SCHUBERTH GmbH

9	Helmet category	:	with detachable or movable lower face cover (P/J)
10	Type of visor	:	SV6/1/C (E13*22R06/00*10511*00) SV6/2/C (E13*22R06/00*10512*00) SV6/1/D (E13*22R06/00*10513*00) SV6/2/D (E13*22R06/00*10514*00) SV6/1/Y (E13*22R06/00*10515*00) SV6/2/Y (E13*22R06/00*10516*00) SV6/1/S (E13*22R06/00*10526*00) SV6/2/S (E13*22R06/00*10527*00)
11	Brief description of the visor	:	clear or tinted visor, three dimensional injected
12	Submitted for approval on	:	2022-12-06

Manufacturer information document

Hersteller Informationsdokumentation

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Société Nationale de Certification et d'Homologation

Name and Address of manufacturer:

SCHUBERTH GmbH
Stegelitzer Straße 12
39126 Magdeburg
Germany

0.	**General** allgemein	
0.1	**Trade Mark:** Markenname:	SCHUBERTH
0.2	**Type of the helmet** Helmtyp	C5 CARBON
	Variant(s): Variante(n):	C5 CARBON; C5 CARBON Women
0.3	**Type of sun shields** Sonnenblendentypen	IV/1/D IV/2/D IV/1/S IV/2/S
0.4	**Type of Visors** Visiertypen	SV6/1/C SV6/2/C SV6/1/D SV6/2/D SV6/1/S SV6/2/S SV6/1/Y SV6/2/Y

Annex

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3 Tables
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Annex 1 TECHNICAL DESCRIPTION after general view 458-998-750

Anlage 1 TECHNISCHE BESCHREIBUNG gemäß Gesamtansicht Zeichnung-Nr. 458-998-750

Helmet Type: **C5 CARBON**
Helmtyp: C5 CARBON

1. Outer Shell size 1 (for head-sizes 51, 53; 55; 57; 59) and size 2 (for head-sizes 61; 63; 65) made of layers of carbon prepregs based on epoxy resin
   Helmschale Gr. 1 (für Gr. 51, 53; 55; 57; 59) und Gr.2 (für Gr. 61; 63; 65) aus Carbonlagen Prepregs auf Epoxidharzbasis

2. Air scope with ventilator slide for head ventilation
   Lüftungshaube mit Lüftungsschieber für Kopfbelüftung

3. Edge profile for helmet shell
   Abschlussprofil für Helmschale

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4. movable protective lower face cover
   Bewegliches, schützendes Kinnteil

5. chin guard and visor ventilation switch
   Kinn- und Visierbelüftungsschalter

6. chin protective padding
   Kinnschutz

7. sun shield
   Sonnenblende

8. slider for sun shield
   Schieber für Sonnenblende

9. pivot point for lower face cover, enables lower face cover to be swivelled upwards, with visor mechanism
   Drehpunkt für Kinnteil, ermöglicht das Schwenken des Kinnteils nach oben, mit Visiermechanik.

10. visor
    Visier

11. one-piece inner shell (Basic Shell) foamed in two sectors of different density, made of expanded polystyrene with ventilating holes
    Einteilige Innenschale (Grundkörper) mit „Zwei-Zonen-Schaum“ aus Polystyrol-Hartschaum mit Belüftungsbohrungen

12. Cheek padding left and right
    Seitenteil links und rechts

13. neck padding
Nackenpolster

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14. Chin strap, attached to helmet shell pos.1
Kinnriemen verbunden mit Helmschale Pos. 1.

15. Neckband
Nackenband

16. exchangeable comfort-padding
auswechselbare Komfortpolsterung

17. position ECE-label
Position ECE - Label

18. reflecting tapes (optional)
Reflektierende Tapes (optional)

19. anti-fog lens
Antibeschlagscheibe

20. interface for communication system
Schnittstelle für Kommunikationssystem

21. slider for movable lower face cover opening in protective position (helmet categorie P)
Betätigungsschieber Kinnteilöffnung in schützender Stellung (Helm Kategorie P)

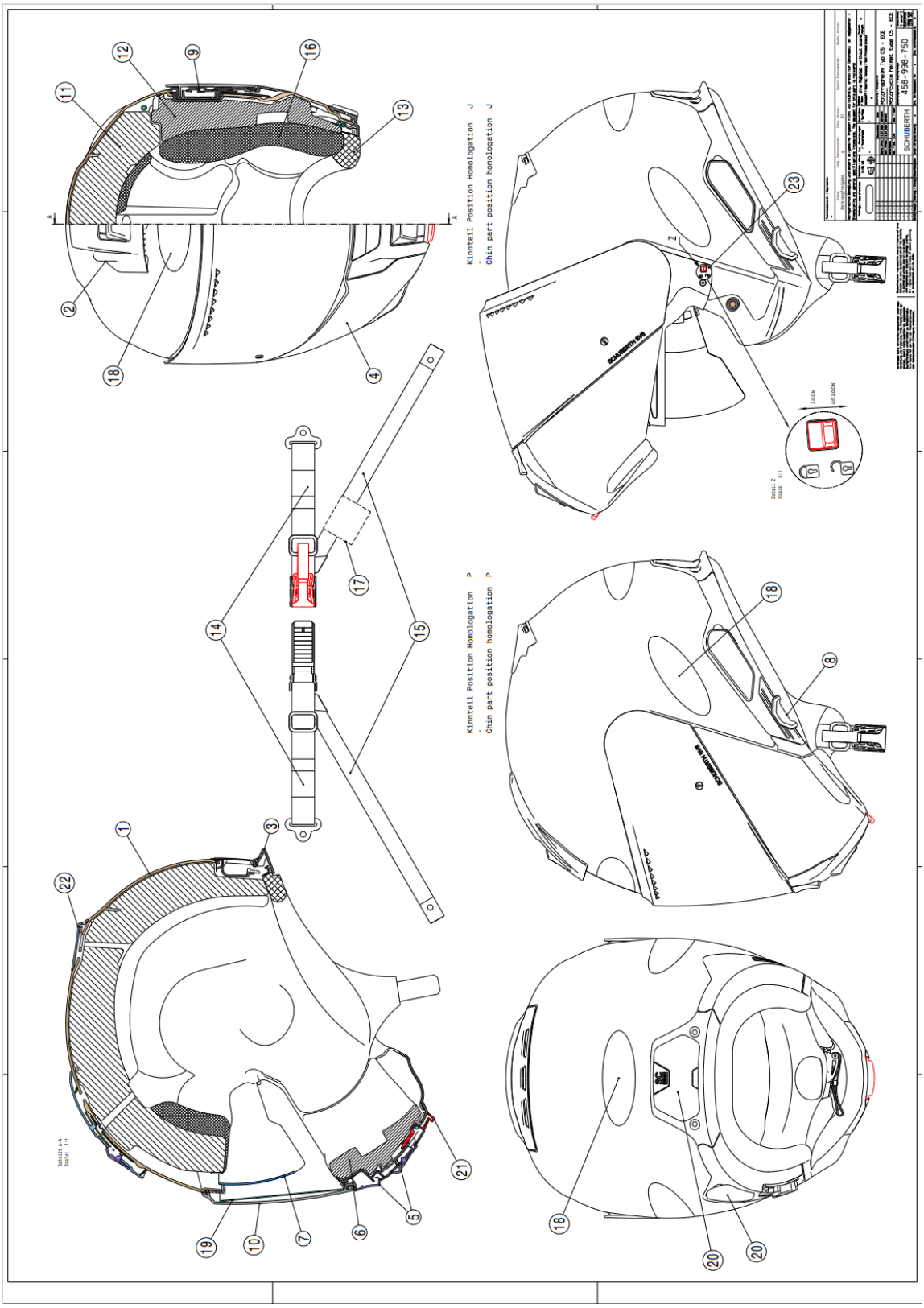
22. rear spoiler
Spoiler hinten

23. slider for movable lower face cover fixation in not protective position (helmet categorie J)
Betätigungsschieber Kinnteilverriegelung in nicht schützender Stellung (Helm Kategorie J)

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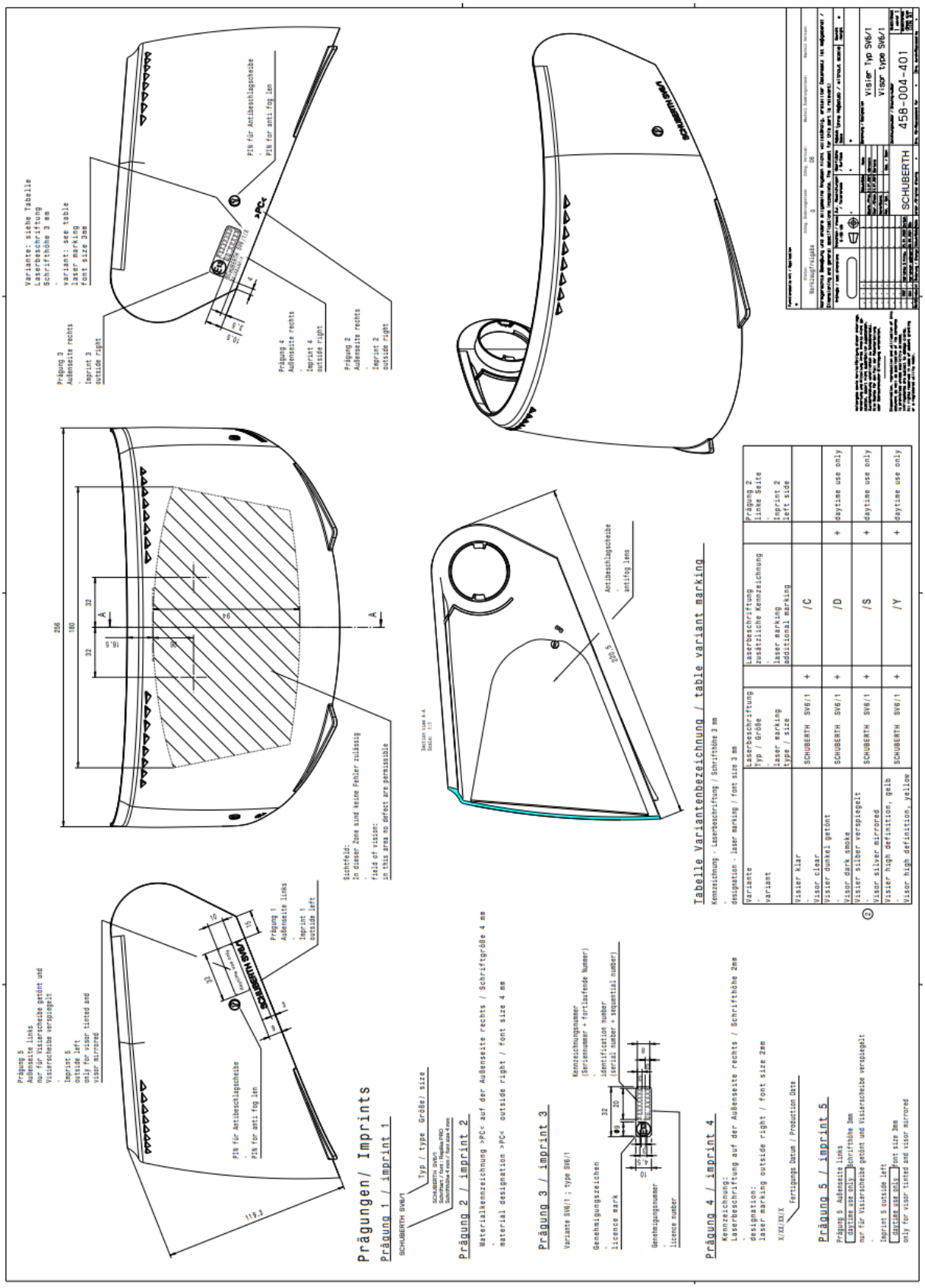
Annex 2: Drawings / Details
Anlage 2: Zeichnungen / Details

Annex 2.1
Anlage 2.1



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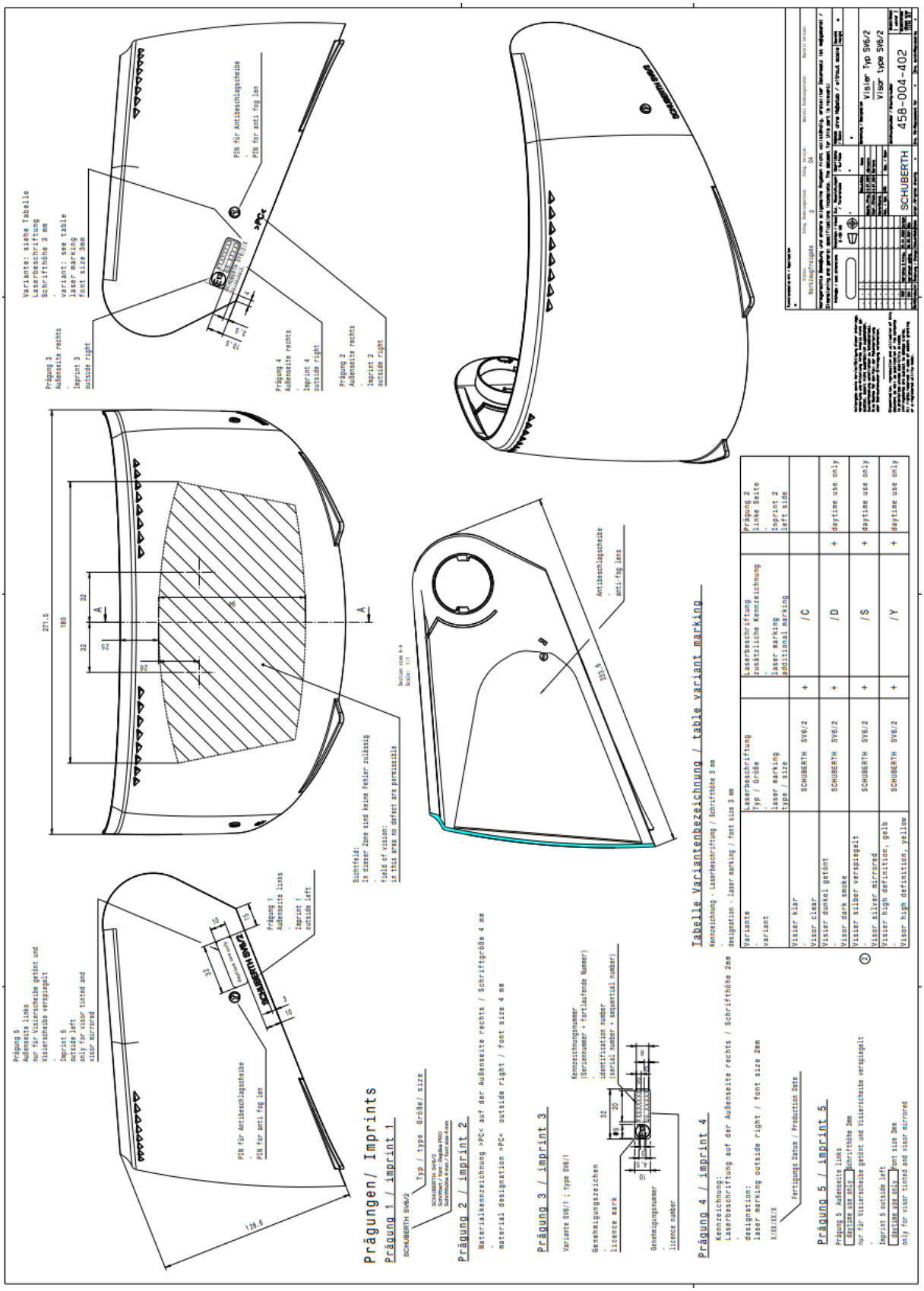
Annex 2.2a
Anlage 2.2a



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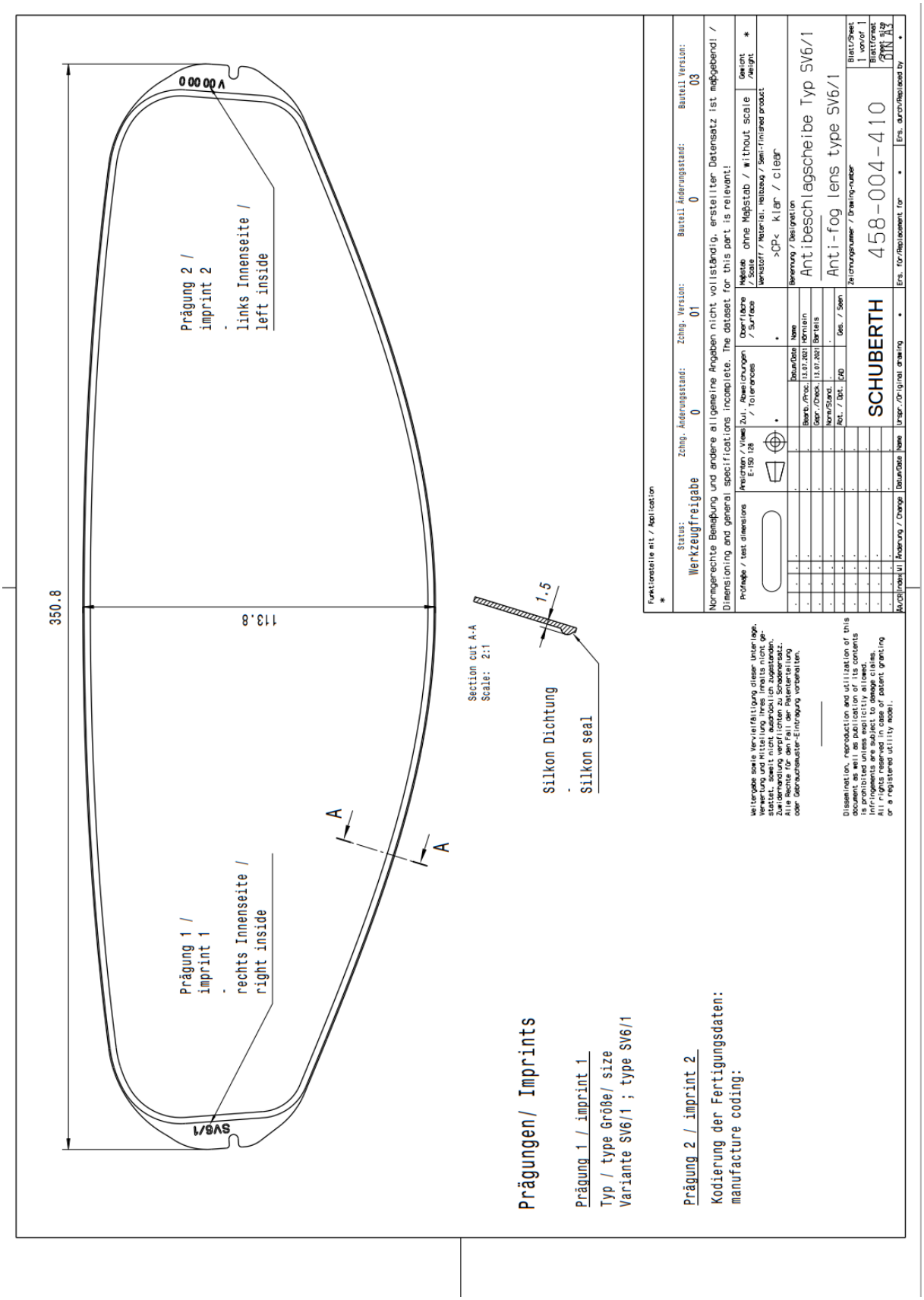
Annex 2.2b
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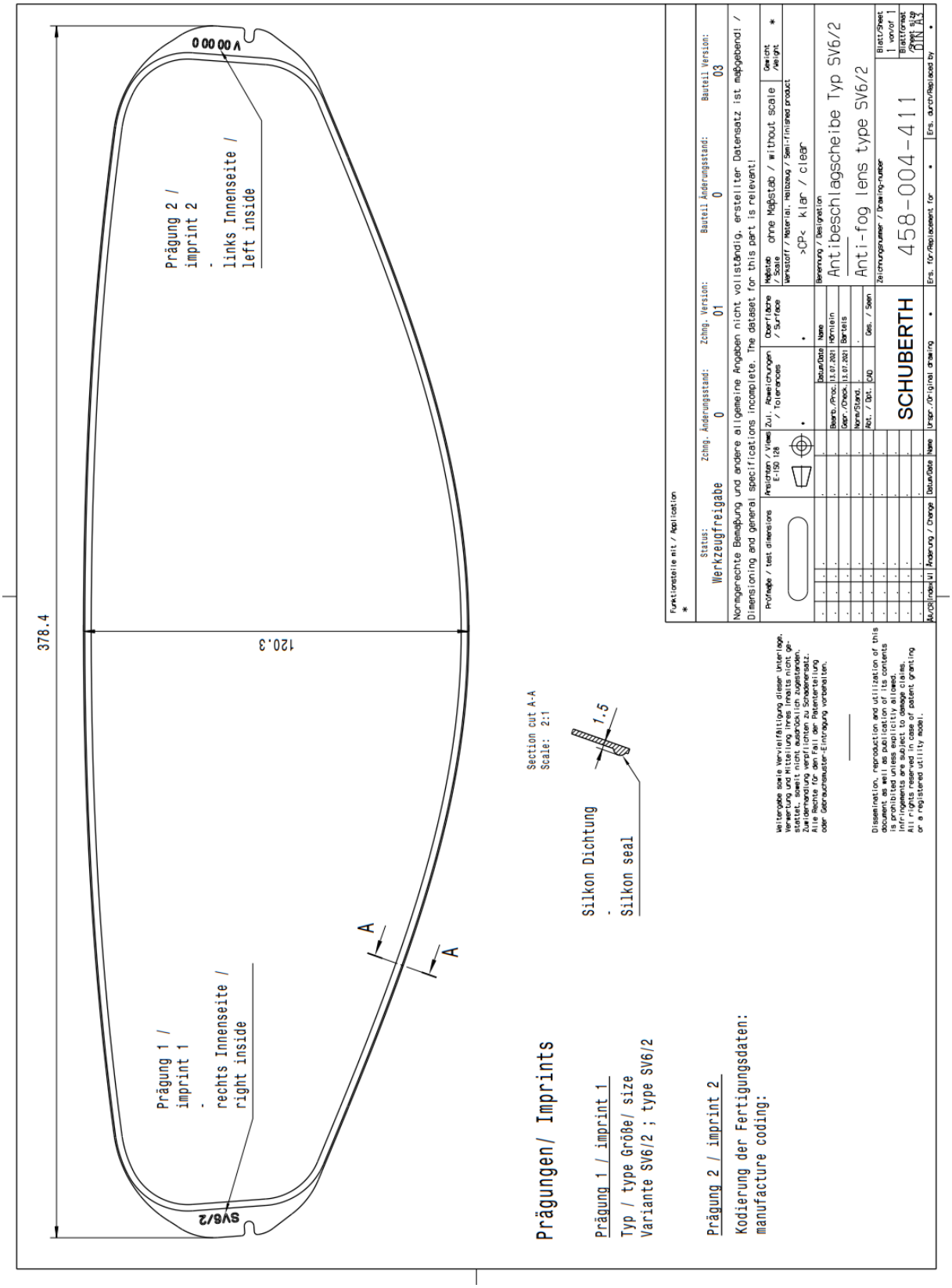
Annex 2.3a
Anlage 2.3a

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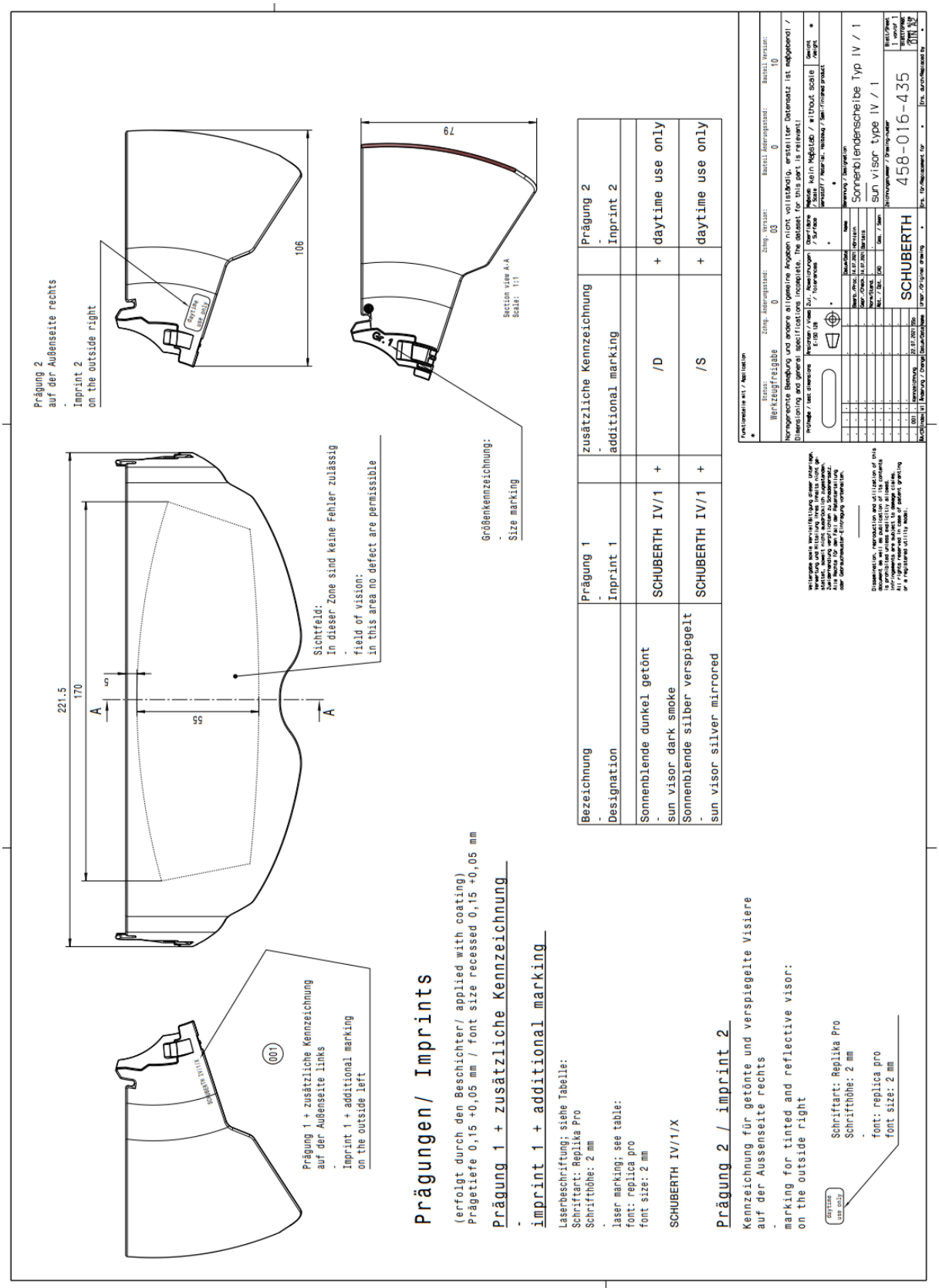
Annex 2.3b
Anlage 2.3b

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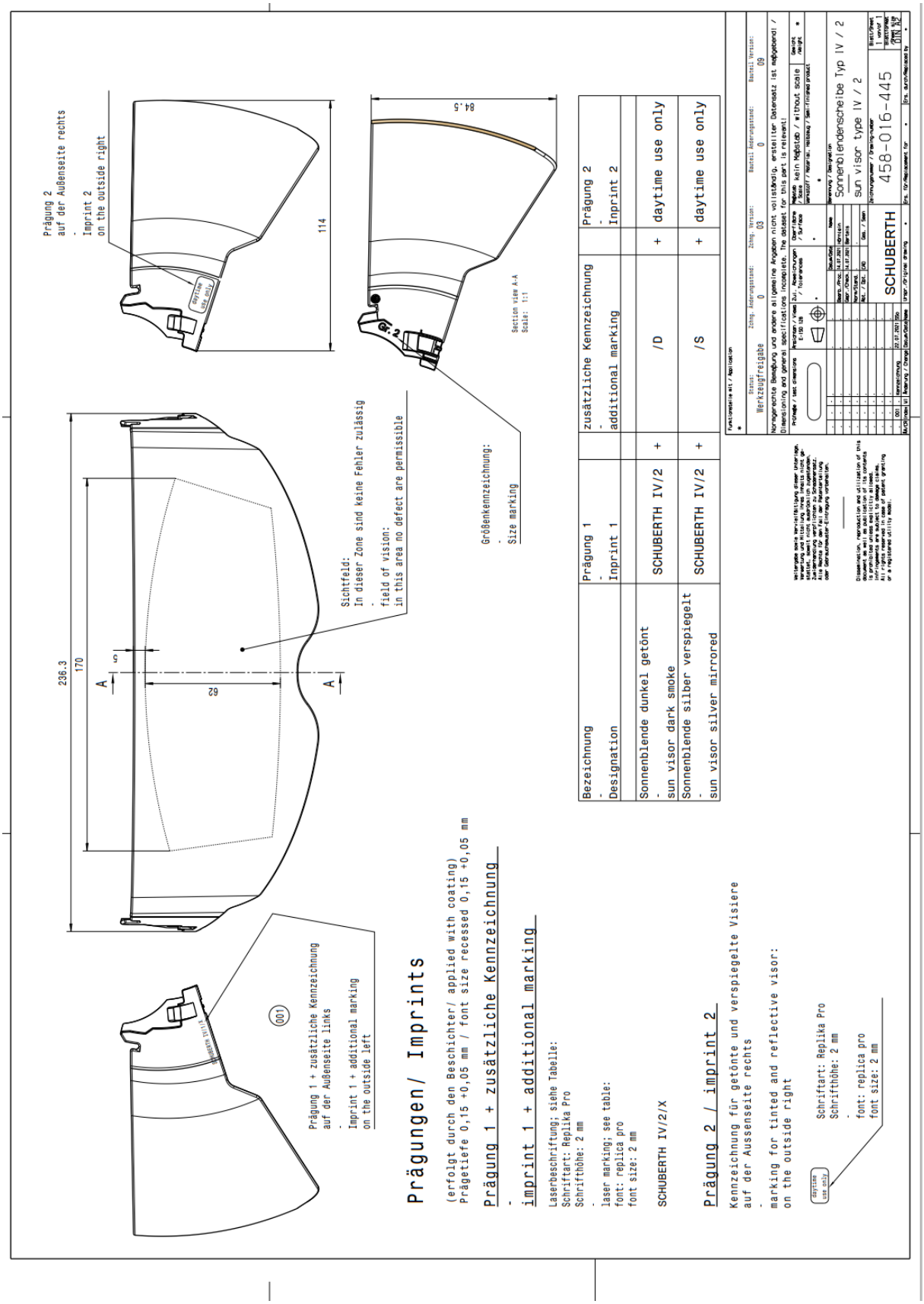
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Annex 2.4a
Anlage 2.4a



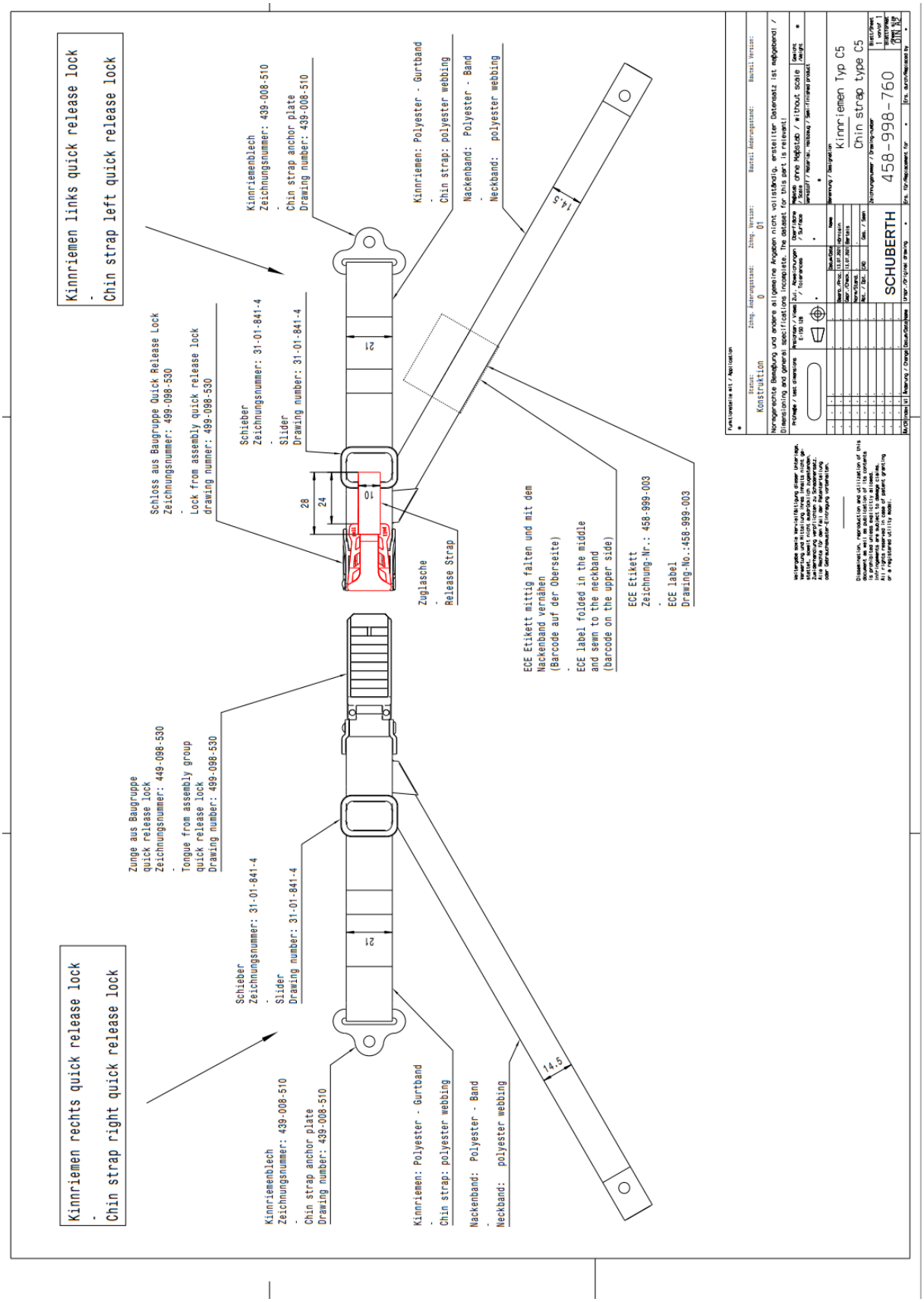
Annex 2.4b
Anlage 2.4b

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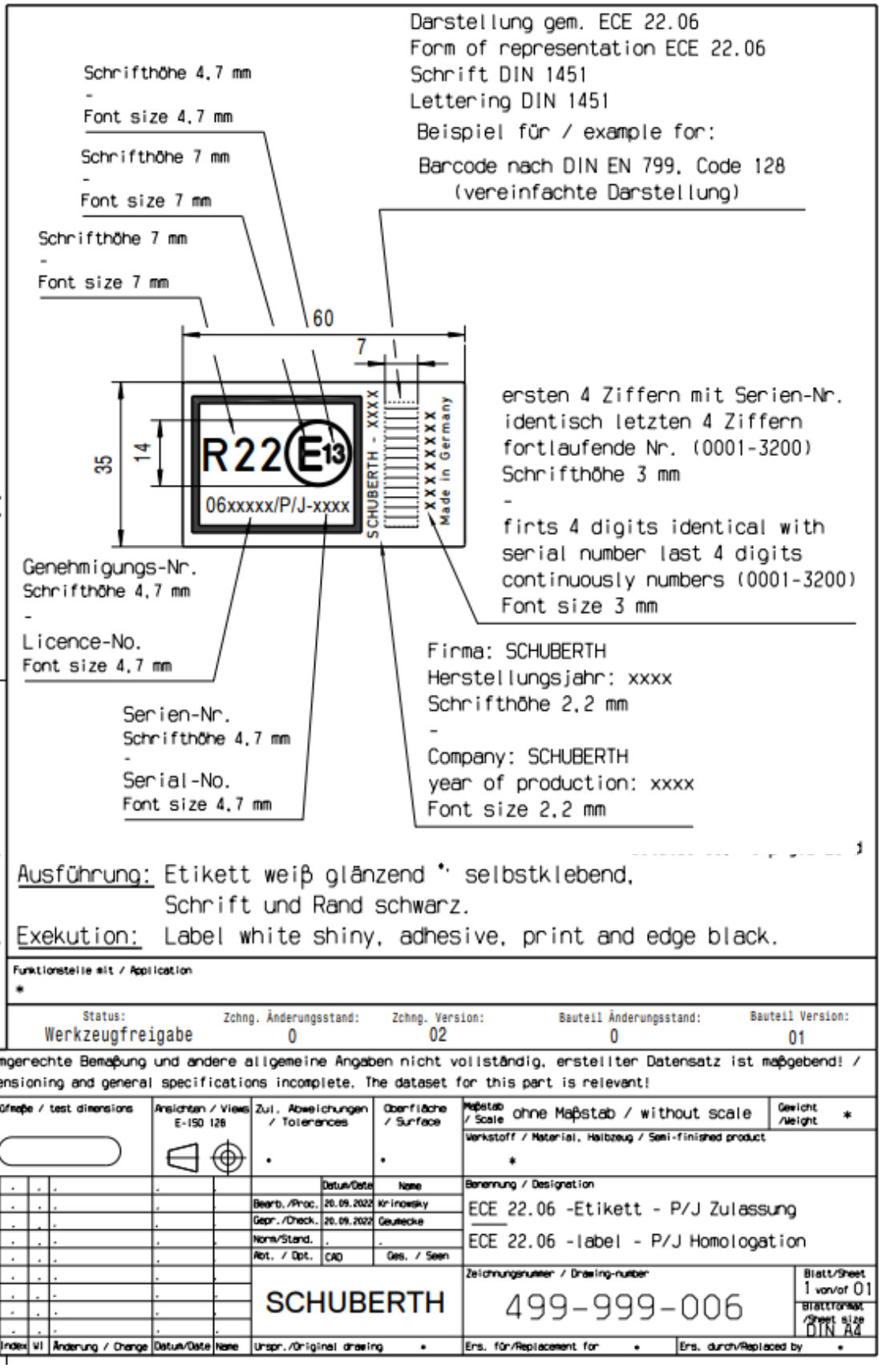
Annex 2.5
Anlage 2.5

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Annex 2.6
Anlage 2.6

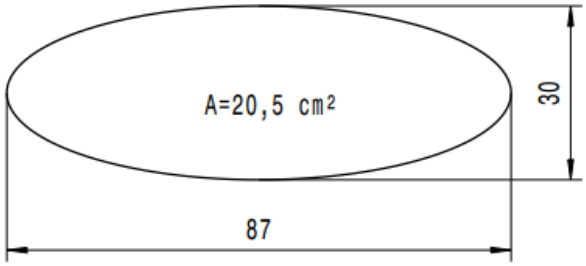
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Annex 2.7a

Anlage 2.7a



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Funktionsteile mit / Application

*

Status:	Zchng. Änderungsstand:	Zchng. Version:	Bauteil Änderungsstand:	Bauteil Version:
Werkzeugfreigabe	0	01	0	01

Normgerechte Bemaßung und andere allgemeine Angaben nicht vollständig, erstellter Datensatz ist maßgebend! / Dimensioning and general specifications incomplete. The dataset for this part is relevant!

Prüfmaße / test dimensions	Ansichten / Views E-ISO 128	Zul. Abweichungen / Tolerances	Oberfläche / Surface	Maßstab / Scale	Gewicht / Weight
		DIN ISO 2768 - m	*	1 : 1	*

Werkstoff / Material, Halbzeug / Semi-finished product: ORALITE® -Reflexfolien 5600E - 010 weiß reflektierend

	Datum/Date	Name
Bearb./Proc.	06.02.2018	Hörnlein
Gepr./Check.	06.02.2018	Bartels
Norm/Stand.	.	.
Abt. / Dpt.	CAD	Ges. / Seen

Benennung / Designation: Zulassungszeichnung Reflex Frankreich-tape

SCHUBERTH

Zeichnungsnummer / Drawing-number: 499-099-005

Blatt/Sheet: 1 von/of 1

Blattformat /Sheet size: DIN A4

AA/CR	Index	VI	Änderung / Change	Datum/Date	Name

Ursprz./Original drawing: *

Ers. für/Replacement for: *

Ers. durch/Replaced by: *

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Annex 2.7b
Anlage 2.7b

Reflecting Tapes (see Drawing No. 458-998-750 and 499-099-005)
Reflektierende Tapes (vgl. Zeichnung-Nr. 458-998-750 und 499-099-005)



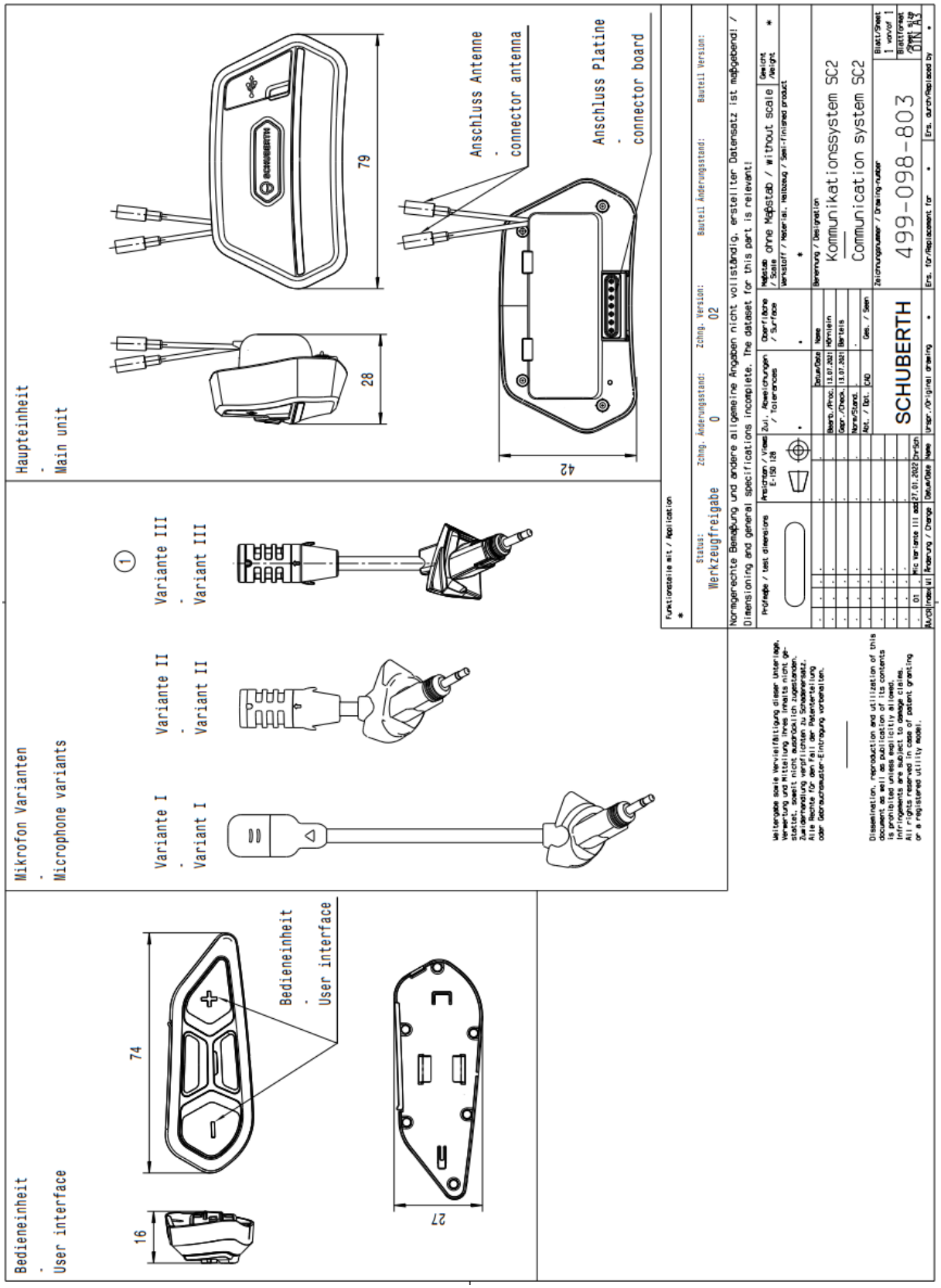
Fig. 1 Position of reflecting tapes on the helmet front and rear view
Abb.1 Position der reflektierenden Tapes am Helm in Vorder- und Rückansicht



Fig. 2 Position of reflecting tapes on the helmet right and left side view
Abb.2 Position der reflektierenden Tapes am Helm in rechter und linker Seitenansicht

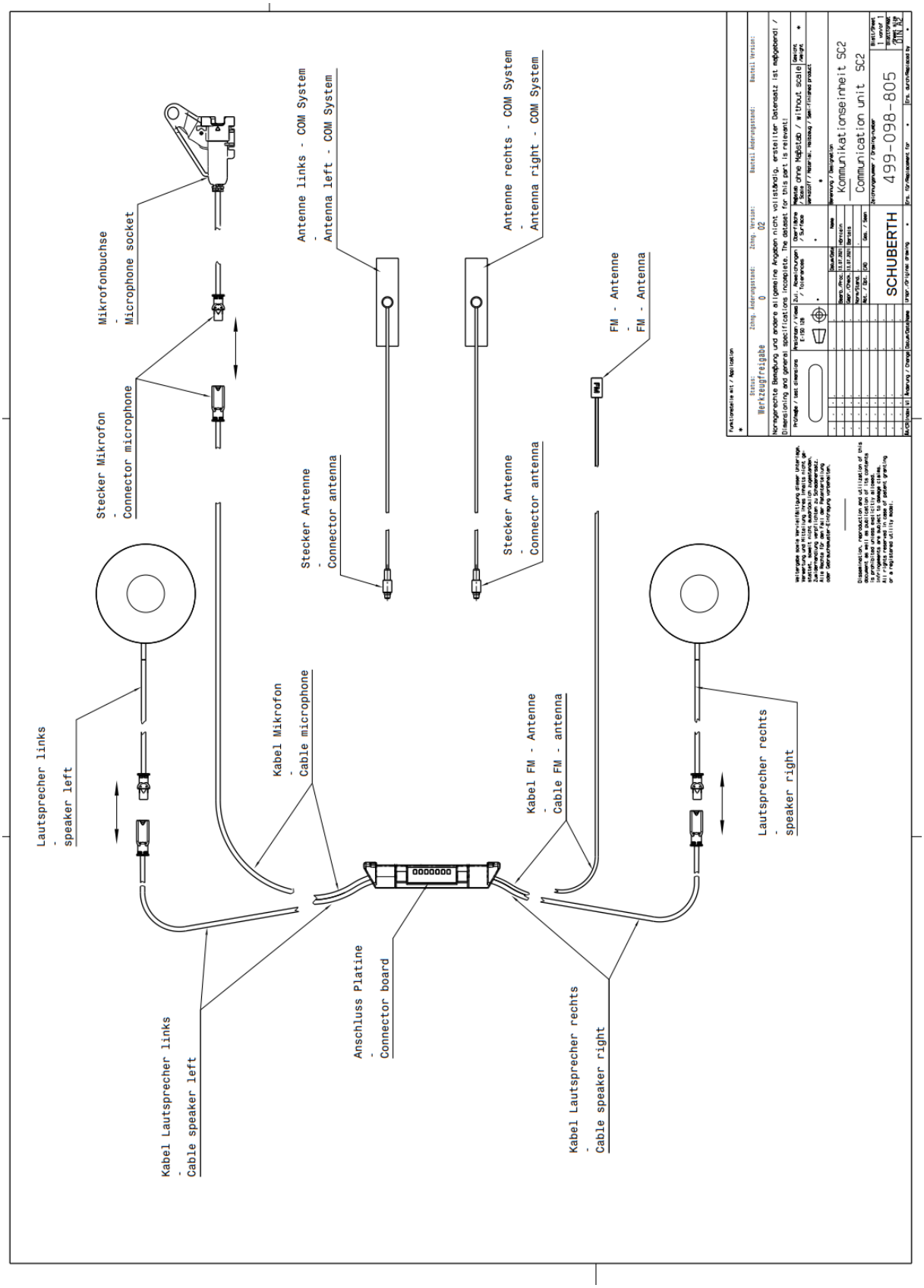
Annex 2.8a
Anlage 2.8a

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Annex 2.8b
Anlage 2.8b

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Annex 2.8c
Anlage 2.8c

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Communication system SC2 (see Drawing No. 499-098-803 and 499-098-805)
Kommunikationssystem SC2 (vgl. Zeichnung-Nr. 499-098-803 und 499-098-805)



Fig. 3 Mounting Position of SC2 – user interface and main unit at the interface of the helmet
Abb.3 Einbauposition des SC2 Bedien- und Haupteinheit an der Schnittstelle des Helmes



Fig. 4 Mounting Position of SC2 microphone - variant I, II and III
Abb.4 Einbauposition des SC2 Mikrofon - Variante I, II und III



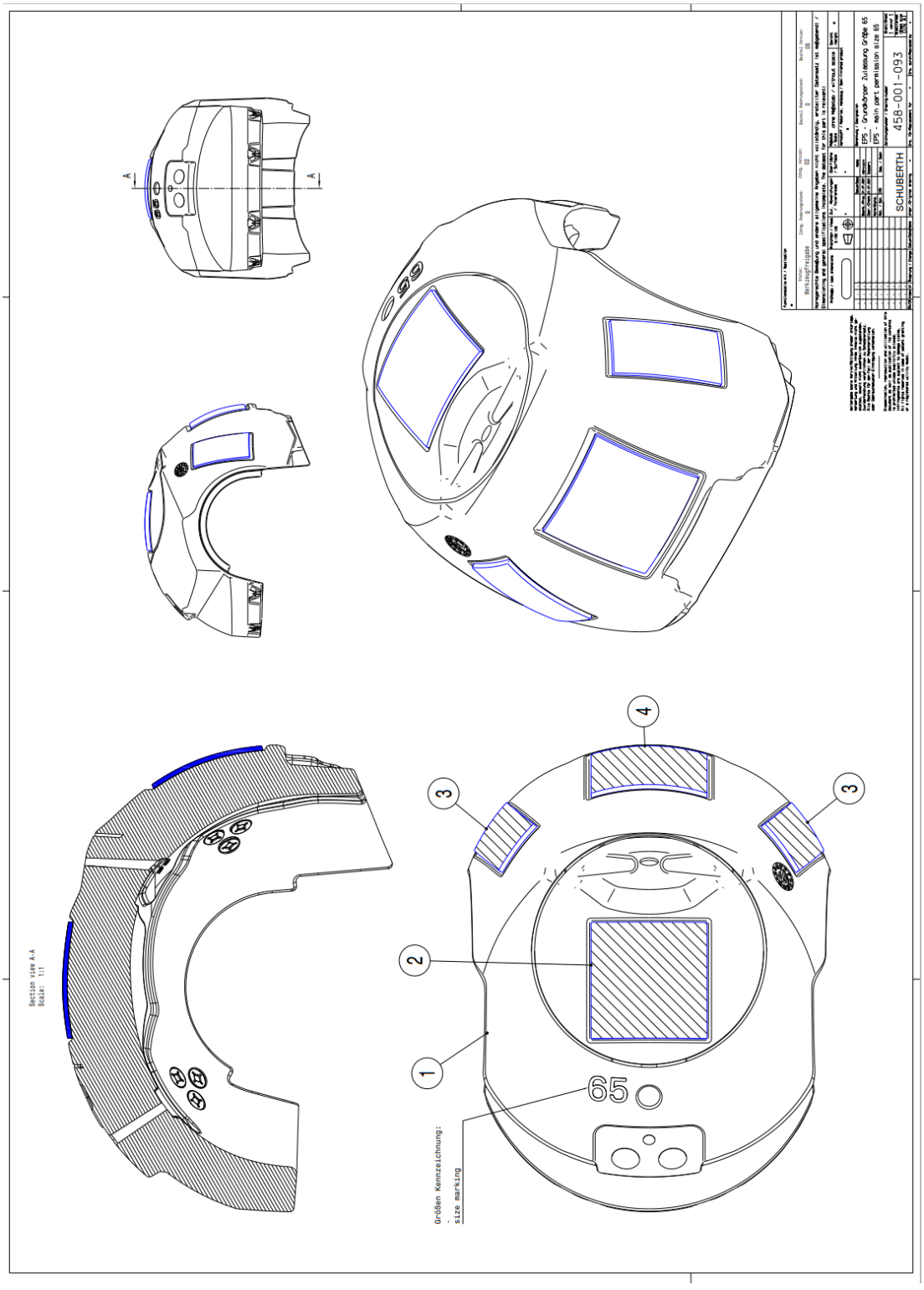
Fig. 5 Mounting position of left and right speaker - cheek padding (underneath the comfort padding)
Abb.5 Einbausosition des linken und rechten Lautsprechers - Seitenteil (unter der Komfortpolsterung)

Annex 2.9
Anlage 2.9

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Protective padding – Basic shell size 65 (1) with Inlays made of expanded PET (2, 3 and 4)

Schutzpolster – Grundkörper Gr. 65 (1) mit Intarsien aus aufgeschäumten PET (2, 3 und 4)



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Annex 3: Tables
Anlage 3: Tabellen

Annex 3.1: Specific weight of the protective padding, weight
Anlage 3.1: Raumgewicht der Schutzpolsterung, Gesamtgewicht

Densities: protective padding of expanded polystyrene (EPS) in gram/liter
Dichten: Schutzpolsterung aus Expandiertem Polystyrol (EPS) in Gramm/Liter

	Head sizes Kopfgrößen				
	51 53	**55**	**57 59**	**61 63**	**65**
Basic shell* Grundkörper*	25/20	25/20	35/20	35/20	35/20
Cheek padding left/right (upper/lower) Seitenteil links/rechts	35		45	50	60
Chin padding** Kinnschutz	78			78	

* Basic shell foamed in two sectors of different density
Grundkörper mit “Zwei-Zonen-Schäumung”#

** Made of expanded polypropylen (EPP)
Aus expandiertem Polypropylen (EPP)

Tolerance / Toleranz: +/- 10 g/l

Total weight of the helmet according to configuration
Gesamtgewicht des Helmes in Abhängigkeit von der Ausstattungsvariante

size 51, 53; 55; 57; 59: 1430 g – 1630g
size 61; 63, 65: 1500 g – 1700g

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Annex 3.2: comfort padding
Anlage 3.2: Komfortpolsterung

Head size Kopfgröße	**part No. EPS cheek padding** Teile Nr. EPS Seitenteile	**part No. EPS Basic shell** Teile Nr. EPS Grundkörper	**Cheek padding** Wangen-polster **Thickness** / Dicke **[mm]**	**Head padding** / Kopfpolster **Thickness** / Dicke **[mm]**			
				front vorn	**middle** Mitte	**side** Seite	**rear** hinten
65	58.11 / 58.12	58.10	10 - 25	10	10	12	12
63	58.08 / 58.09	58.07	10 - 25	10	10	12	12
61			10 - 25	10	10	15 - 17	15 - 17
59	58.05 / 58.06	58.04	10 - 25	10	10	7 - 17	7 - 10
57			10 - 25	12	10	15 - 17	15 - 17
55	58.02 / 58.03	58.01	10 - 25	10	20	15	15
53		58.00	10 - 25	10	10	10	10
51			10 - 25	10	12	15	15