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*10579*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 07 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~~approval withdrawn~~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*10579*00

1.	**Marque de fabrique ou de commerce:** Trade mark:	SCHUBERTH
2.	**Type:** Type:	S3
3.	**Tailles:** Sizes:	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 fixed chin guard (lower face cover). Shell made of fiberglass reinforced vinyl ester (GRP) and reinforced layers of carbon. 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 visors with separate approvals. Sun shield: IV/1/D IV/2/D IV/1/S IV/2/S Electronic equipment: - Communication System SC2
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 protective lower face cover (P)
10.	**Type de l'écran ou des écrans:** Type of visor or visors:	SV6/1/C (E13 R22 0610511) SV6/2/C (E13 R22 0610512) SV6/1/D (E13 R22 0610513) SV6/2/D (E13 R22 0610514) SV6/1/S (E13 R22 0610526) SV6/2/S (E13 R22 0610527) SV6/1/Y (E13 R22 0610515) SV6/2/Y (E13 R22 0610516)
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:	06.10.2022
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:	06.10.2022
15.	**Numéro du procès-verbal délivré par ce service:** Number of test report issued by that service:	224LP0011-00
16.	**Remarques:** Comments:	not applicable

17. **Homologation:**
Approval: granted

18. **Lieu:**
Place: Bertrange

19. **Date:**
Date: 07 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
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*10579*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 07 décembre 2022

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

	Numéro d'homologation: Approval number:	E13*22R06/01*10579*00
	Révision: Revision:	00
	Marque de fabrique ou de commerce: *Trade name or mark:*	*SCHUBERTH*
	Type: *Type:*	*S3*
1.	**Procès-verbal d'essai:** Test report:	N° 224LP0011-00
	- Technical report: - List of modification: - Test minutes: - Technical information:	Page(s) 1 to 5; Appendix 0 - Page(s) 6; Appendix 1 - Page(s) 7 to 17; Appendix L - Page(s) 1 & 2.
2.	**Dossier du constructeur:** Report of the manufacturer:	N° Description Helmet S3_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:	07.12.2022
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

Type : **S3**

Manufacturer : **SCHUBERTH GmbH**

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

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 : E13*22R06/01*10579*00 (reserved)

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.

TÜV Rheinland Group

Test Report No. 224LP0011-00

Type : S3

Manufacturer : SCHUBERTH GmbH

0. General information

0.1.	Trade mark	:	SCHUBERTH
0.2.	Type	:	S3
0.3.	Helmet Category	:	see Attachment L, item 9
0.4.	Name and address of the manufacturer	:	SCHUBERTH GmbH Stegelitzer Straße 12 39126 Magdeburg Germany
0.5.	Information Document	:	Description Helmet S3_GG
	Date of issue	:	2022-09-21
	Date of last change	:	--

Type : S3

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.

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Cologne, 2022-12-06

Schaudt

Peter Schaudt
Technical Expert Technical Service

TÜV Rheinland Group

Test Report No. 224LP0011-00

Type : S3

Manufacturer : SCHUBERTH GmbH

Appendix 0

List of modifications

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

TÜV Rheinland Group

Test Report No. 224LP0011-00

Type : S3

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)*	:	Not applicable
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.

Type : S3

Manufacturer : SCHUBERTH GmbH

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
53	515	Pass	Pass	Pass

7.3. Impact-absorption-tests

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

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	+50°C	Kerb	B	65 (XXXL)	133	733	7,59
625	+50°C	Kerb	X right	65 (XXXL)	176	1150	7,62
625	+50°C	Kerb	P	65 (XXXL)	137	1005	7,62
625	+50°C	Kerb	R	65 (XXXL)	138	1004	7,59
625	-10°C	Flat	B	65 (XXXL)	146	995	7,62
625	-10°C	Flat	X right	65 (XXXL)	207	1694	7,59
625	-10°C	Flat	P	65 (XXXL)	186	1815	7,65
625	-10°C	Flat	R	65 (XXXL)	158	1106	7,62
625	-10°C	Flat	S	65 (XXXL)	122	396	6,10
625	+50°C	Kerb	B	63 (XXL)	129	860	7,62
625	+50°C	Kerb	X right	63 (XXL)	167	1027	7,62
625	+50°C	Kerb	P	63 (XXL)	137	857	7,55
625	+50°C	Kerb	R	63 (XXL)	176	1140	7,59
625	AMB	Kerb	B	63 (XXL)	138	895	7,59
625	AMB	Kerb	X right	63 (XXL)	166	1077	7,62
625	AMB	Kerb	P	63 (XXL)	142	869	7,59
625	AMB	Kerb	R	63 (XXL)	186	1161	7,59
625	-10°C	Flat	B	63 (XXL)	137	1006	7,59
625	-10°C	Flat	X right	63 (XXL)	194	1529	7,62
625	-10°C	Flat	P	63 (XXL)	186	1815	7,65
625	-10°C	Flat	R	63 (XXL)	169	1238	7,59
625	-10°C	Flat	S	63 (XXL)	131	390	6,10

TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Test Report No. 224LP0011-00

Type : S3

Manufacturer : SCHUBERTH GmbH

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	AMB	Flat	B	63 (XXL)	143	1013	7,59
625	AMB	Flat	X right	63 (XXL)	184	1415	7,59
625	AMB	Flat	P	63 (XXL)	177	1768	7,62
625	AMB	Flat	R	63 (XXL)	190	1329	7,59
625	MOIST.	Flat	B	63 (XXL)	129	875	7,62
625	MOIST.	Flat	X right	63 (XXL)	181	1366	7,62
625	MOIST.	Flat	P	63 (XXL)	176	1682	7,59
625	MOIST.	Flat	R	63 (XXL)	187	1209	7,55
605	+50°C	Kerb	B	61 (XL)	143	1038	7,62
605	+50°C	Kerb	X right	61 (XL)	168	1142	7,62
605	+50°C	Kerb	P	61 (XL)	145	817	7,59
605	+50°C	Kerb	R	61 (XL)	137	910	7,59
605	-10°C	Flat	B	61 (XL)	158	1181	7,62
605	-10°C	Flat	X right	61 (XL)	192	1585	7,62
605	-10°C	Flat	P	61 (XL)	186	1853	7,62
605	-10°C	Flat	R	61 (XL)	157	1157	7,62
605	-10°C	Flat	S	61 (XL)	123	378	6,10
575	+50°C	Kerb	B	59 (L)	159	1212	7,59
575	+50°C	Kerb	X right	59 (L)	188	1381	7,59
575	+50°C	Kerb	P	59 (L)	151	1141	7,62
575	+50°C	Kerb	R	59 (L)	149	1083	7,55
575	AMB	Kerb	B	59 (L)	163	1217	7,62
575	AMB	Kerb	X right	59 (L)	186	1377	7,62
575	AMB	Kerb	P	59 (L)	161	1097	7,62
575	AMB	Kerb	R	59 (L)	162	1155	7,59
575	-10°C	Flat	B	59 (L)	156	1175	7,59
575	-10°C	Flat	X right	59 (L)	230	2047	7,62
575	-10°C	Flat	P	59 (L)	198	1928	7,62
575	-10°C	Flat	R	59 (L)	188	1392	7,55
575	-10°C	Flat	S	59 (L)	113	450	6,10
575	AMB	Flat	B	59 (L)	158	1131	7,62
575	AMB	Flat	X right	59 (L)	227	1948	7,62
575	AMB	Flat	P	59 (L)	190	1838	7,62
575	AMB	Flat	R	59 (L)	188	1503	7,62
575	MOIST.	Flat	B	59 (L)	144	1032	7,55
575	MOIST.	Flat	X right	59 (L)	221	1863	7,59
575	MOIST.	Flat	P	59 (L)	187	1787	7,62
575	MOIST.	Flat	R	59 (L)	163	1234	7,55
535	+50°C	Kerb	B	55 (S)	139	914	7,59
535	+50°C	Kerb	X right	55 (S)	178	1221	7,62
535	+50°C	Kerb	P	55 (S)	133	910	7,59
535	+50°C	Kerb	R	55 (S)	134	816	7,55
535	-10°C	Flat	B	55 (S)	126	852	7,62
535	-10°C	Flat	X right	55 (S)	191	1479	7,59
535	-10°C	Flat	P	55 (S)	167	1459	7,62
535	-10°C	Flat	R	55 (S)	143	922	7,62
535	-10°C	Flat	S	55 (S)	126	512	6,08

Type : S3

Manufacturer : SCHUBERTH GmbH

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
515	+50°C	Kerb	B	53 (XS)	141	918	7,55
515	+50°C	Kerb	X right	53 (XS)	176	1311	7,59
515	+50°C	Kerb	P	53 (XS)	151	1158	7,59
515	+50°C	Kerb	R	53 (XS)	137	833	7,59
515	-10°C	Flat	B	53 (XS)	140	992	7,62
515	-10°C	Flat	X right	53 (XS)	199	1574	7,59
515	-10°C	Flat	P	53 (XS)	178	1749	7,62
515	-10°C	Flat	R	53 (XS)	144	1012	7,59
515	-10°C	Flat	S	53 (XS)	124	548	6,08

Low energy impact

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

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	AMB	Flat	B	63 (XXL)	131	639	6,10
625	AMB	Flat	X right	63 (XXL)	137	789	6,10
625	AMB	Flat	P	63 (XXL)	151	1113	6,12
625	AMB	Flat	R	63 (XXL)	137	788	6,10
575	AMB	Kerb	B	59 (L)	125	678	6,10
575	AMB	Kerb	X right	59 (L)	146	845	6,10
575	AMB	Kerb	P	59 (L)	143	708	6,10
575	AMB	Kerb	R	59 (L)	125	651	6,08

High energy impact

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

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	AMB	Flat	B	63 (XXL)	146	1177	8,29
625	AMB	Flat	X right	63 (XXL)	228	1962	8,29
625	AMB	Flat	P	63 (XXL)	190	2029	8,29
625	AMB	Flat	R	63 (XXL)	178	1511	8,29
575	AMB	Flat	B	59 (L)	172	1519	8,29
575	AMB	Flat	X right	59 (L)	260	2478	8,29
575	AMB	Flat	P	59 (L)	202	2203	8,29
575	AMB	Flat	R	59 (L)	215	1934	8,26

Extra point

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

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Max Peak [g]	HIC	Speed [m/s]
625	AMB	Flat	BXL	63 (XXL)	156	1297	7,59
625	AMB	Flat	BXPR	63 (XXL)	171	1497	7,55
625	AMB	Flat	RXPR	63 (XXL)	174	1497	7,62
625	AMB	Flat	RXL	63 (XXL)	160	1201	7,59
625	AMB	45°L	BXR	63 (XXL)	140	961	7,59
625	AMB	45°L	BXPL	63 (XXL)	141	886	7,62
625	AMB	45°L	RXPL	63 (XXL)	135	911	7,62
625	AMB	45°L	RXR	63 (XXL)	117	734	7,59
575	AMB	Flat	BXL	59 (L)	181	1541	7,55
575	AMB	Flat	BXPR	59 (L)	190	1677	7,55
575	AMB	Flat	RXPR	59 (L)	181	1533	7,59
575	AMB	Flat	RXL	59 (L)	170	1304	7,59
575	AMB	45°L	BXR	59 (L)	119	874	7,55
575	AMB	45°L	BXPL	59 (L)	154	1209	7,55
575	AMB	45°L	RXPL	59 (L)	171	1367	7,62
575	AMB	45°L	RXR	59 (L)	129	918	7,62

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
59	575	rear wind tearing edge	sheared off
59	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.

Helmet Size	Direction	Deformation (max. 40 mm)	Permanent deformation (max. 15 mm)
65	longitudinal	14	4
	transversal	17	4
59	longitudinal	13	3
	transversal	13	3

7.6. Dynamic test of the retention system

E13*22R06/01*10579*00

All values are within the limits of the regulation. Société Nationale de Certification et d'Homologation

Helmet Size	Headsize	dyn.movement (max. 35 mm)	stat.movement (max.25 mm)	Remarks
61	605	25,7	6,4	--
53	515	28,7	9,8	--

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

All values are within the limits of the regulation.

Helmet Size	Headsize	angle of movement (max. 30°)	Remarks
61	605	20°	--
53	515	29°	--

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

All values are within the limits of the regulation.

Helmet Size	Headsize	angle of movement (max. 30°)	Remarks
61	605	20°	--
53	515	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

Test Report No. 224LP0011-00

Type : S3

Manufacturer : SCHUBERTH GmbH

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.

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Rotation [rad/s2]	BrIC	Speed [m/s]
625	AMB	45°	FLR	63 (XXL)	2330	0,21	8,14
625	AMB	45°	Rear	63 (XXL)	2036	0,36	8,11
625	AMB	45°	LL	63 (XXL)	1859	0,28	8,11
625	AMB	45°	Front	63 (XXL)	1116	0,07	8,11
625	AMB	45°	RLR	63 (XXL)	1614	0,27	8,11
575	AMB	45°	FLR	59 (L)	1478	0,15	8,11
575	AMB	45°	Rear	59 (L)	2456	0,34	8,11
575	AMB	45°	LL	59 (L)	2462	0,24	8,11
575	AMB	45°	Front	59 (L)	2483	0,16	8,07
575	AMB	45°	RLR	59 (L)	2585	0,39	8,11

TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Communication concerning the type-approval of a type of vehicle

corresponding Test Report	**: 224LP0011-00**
Type	**: S3**
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	:	S3
3	Sizes	:	53, 55, 57, 59, 61, 63, 65
4	Manufacturer's name	:	SCHUBERTH GmbH
5	Address		Stegelitzer Straße 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 fixed chin guard (lower face cover). Shell made of fiberglass reinforced vinyl ester (GRP) and reinforced layers of carbon. 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 visors with separate approvals. Sun shield: - IV/1/D - IV/2/D - IV/1/S - IV/2/S Electronic equipment: - Communication System SC2

TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Communication concerning the type-approval of a type of vehicle

corresponding Test Report : 224LP0011-00
Type : S3
Manufacturer : SCHUBERTH GmbH

9	Helmet category	:	with protective lower face cover (P)
10	Type of visor	:	- SV6/1/C (E13 R22 0610511) - SV6/2/C (E13 R22 0610512) - SV6/1/D (E13 R22 0610513) - SV6/2/D (E13 R22 0610514) - SV6/1/S (E13 R22 0610526) - SV6/2/S (E13 R22 0610527) - SV6/1/Y (E13 R22 0610515) - SV6/2/Y (E13 R22 0610516)
11	Brief description of the visor	:	clear visor, three dimensional injected or tinted visor, three dimensional injected
12	Submitted for approval on	:	2022-12-06

Manufacturer information document
Hersteller Informationsdokumentation

E13*22R06/01*10579*00
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	S3
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
Anlage

1		**Technical Description** Technische Beschreibung		page 3 - 4
2		**Drawings** Zeichnungen		
	2.1	**General view** Gesamtansicht	Dra. No. 460-998-750	page 5
	2.2a	**Visor SV6 size 1** Visier SV6 Gr. 1	Dra. No. 458-004-401	page 6
	2.2b	**Visor SV6 size 2** Visier SV6 Gr. 2	Dra. No. 458-004-402	page 7
	2.3a	**Anti-fog lens size 1 (optional)** Antibeschlagscheibe Gr.1 (optional)	Dra. No. 458-004-410	page 8
	2.3b	**Anti-fog lens size 2 (optional)** Antibeschlagscheibe Gr.2 (optional)	Dra. No. 458-004-411	page 9

2.4a	**Sun shield IV size 1** Sonnenblende IV Gr. 1	Dra. No. 458-016-435	page 10
2.4b	**Sun shield IV size 2** Sonnenblende IV Gr. 2	Dra. No. 458-016-445	page 11
2.5	**Chin strap** Kinnriemen	Dra. No. 460-998-760	page 12
2.6	**ECE-Label** ECE-Etikett	Dra. No. 499-999-007	page 13
2.7a	**Reflecting tapes (optional)** Reflektierende Tapes (optional)	Dra. No. 499-099-005	page 14
2.7b	**Reflecting tapes (optional)** Reflektierende Tapes (optional)	Installation position / pictures Einbauposition / Fotos	page 15
2.8a-b	**communication system SC2 (optional)** Kommunikationssystem SC2 (optional)	Dra. No. 499-098-807 /499-098-806	page 16-17
2.8c	**communication system SC2 (optional)** Kommunikationssystem SC2 (optional)	Installation position / pictures Einbausituation – Fotos	page 18
2.9	**Protective padding - Basic shell size 65** Schutzpolster – Grundkörper Gr. 65	Dra. No. 458-001-093	page 19

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

3 Tables
Tabellen

3.1	**Specific weight of the protective padding, weight** Raumgewicht der Schutzpolsterung, Gesamtgewicht	page 20
3.2	**Comfort-padding** Komfortpolsterung	page 21

Annex 1 TECHNICAL DESCRIPTION after general view 460-998-750

Anlage 1 TECHNISCHE BESCHREIBUNG gemäß Gesamtansicht Zeichnung-Nr. 460-998-750

Helmet Type: **S3**
Helmtyp: S3

1. Outer Shell size 1 (for head-sizes 53; 55; 57; 59) and size 2 (for head-sizes 61; 63; 65) made of fibreglass reinforced vinyl ester (GRP) and reinforced layers out of carbon
   Helmschale Gr. 1 (für Gr. 53; 55; 57; 59) und Gr.2 (für Gr. 61; 63; 65) aus glasfaserverstärktem Vinylesterharz (GFK) und Verstärkungslagen aus Carbon

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

3. Edge profile for helmet shell
   Abschlussprofil für Helmschale

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

4. protective lower face cover
   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. visor mechanism
   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

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

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 (optional)
Antibeschlagscheibe (optional)

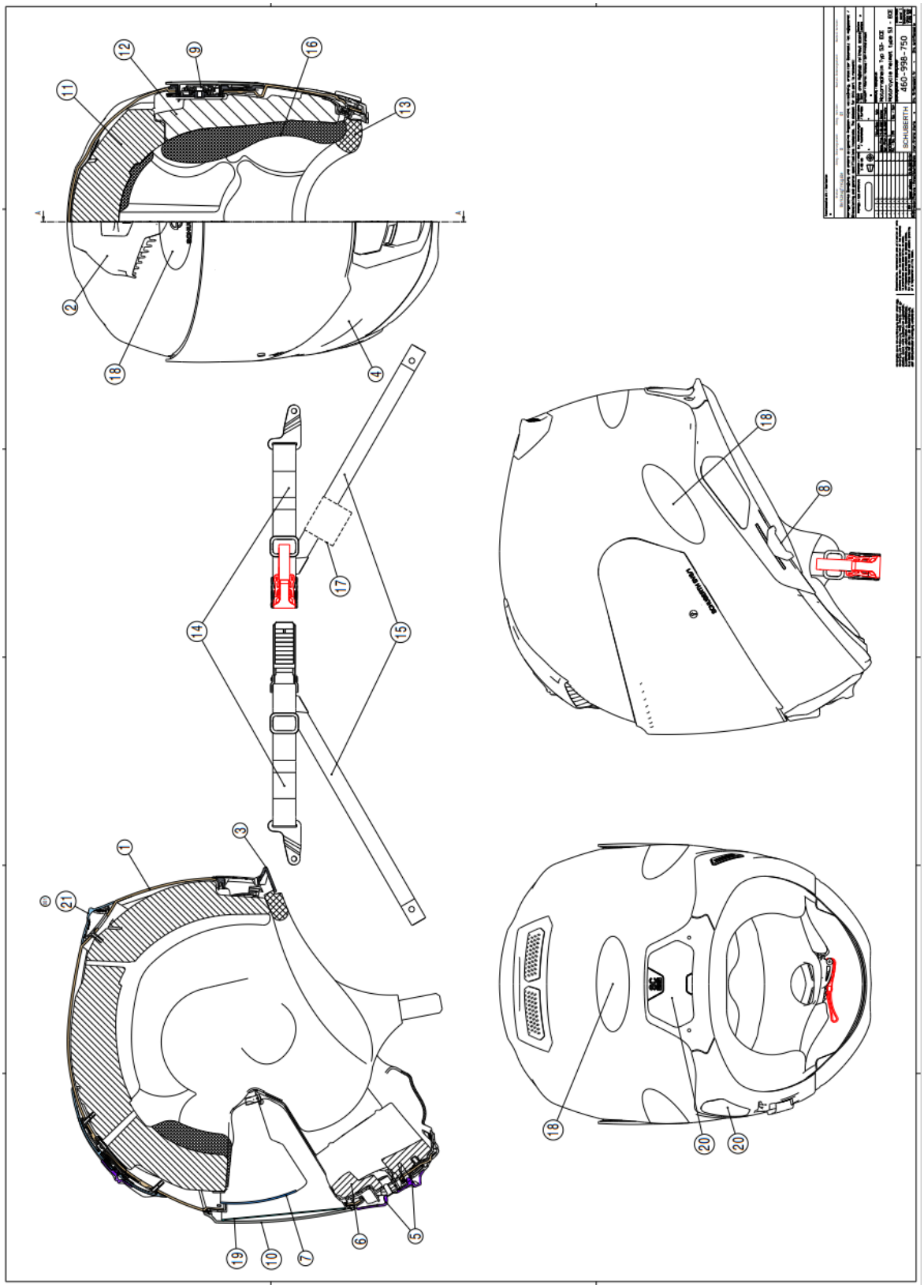
20. interface for communication system
Schnittstelle für Kommunikationssystem

21. rear spoiler
Spoiler hinten

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

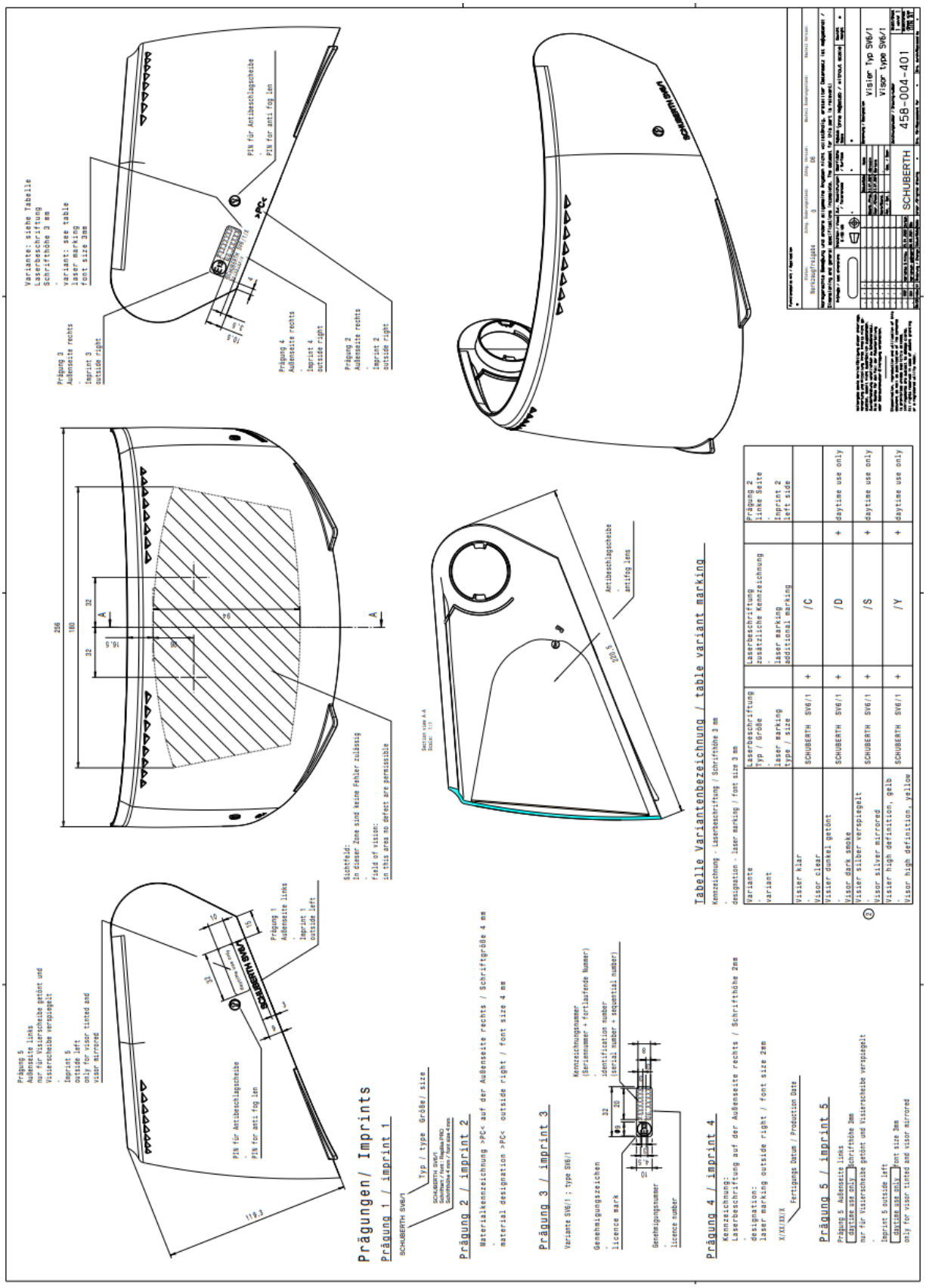
Annex 2: Drawings / Details
Anlage 2: Zeichnungen / Details

Annex 2.1
Anlage 2.1



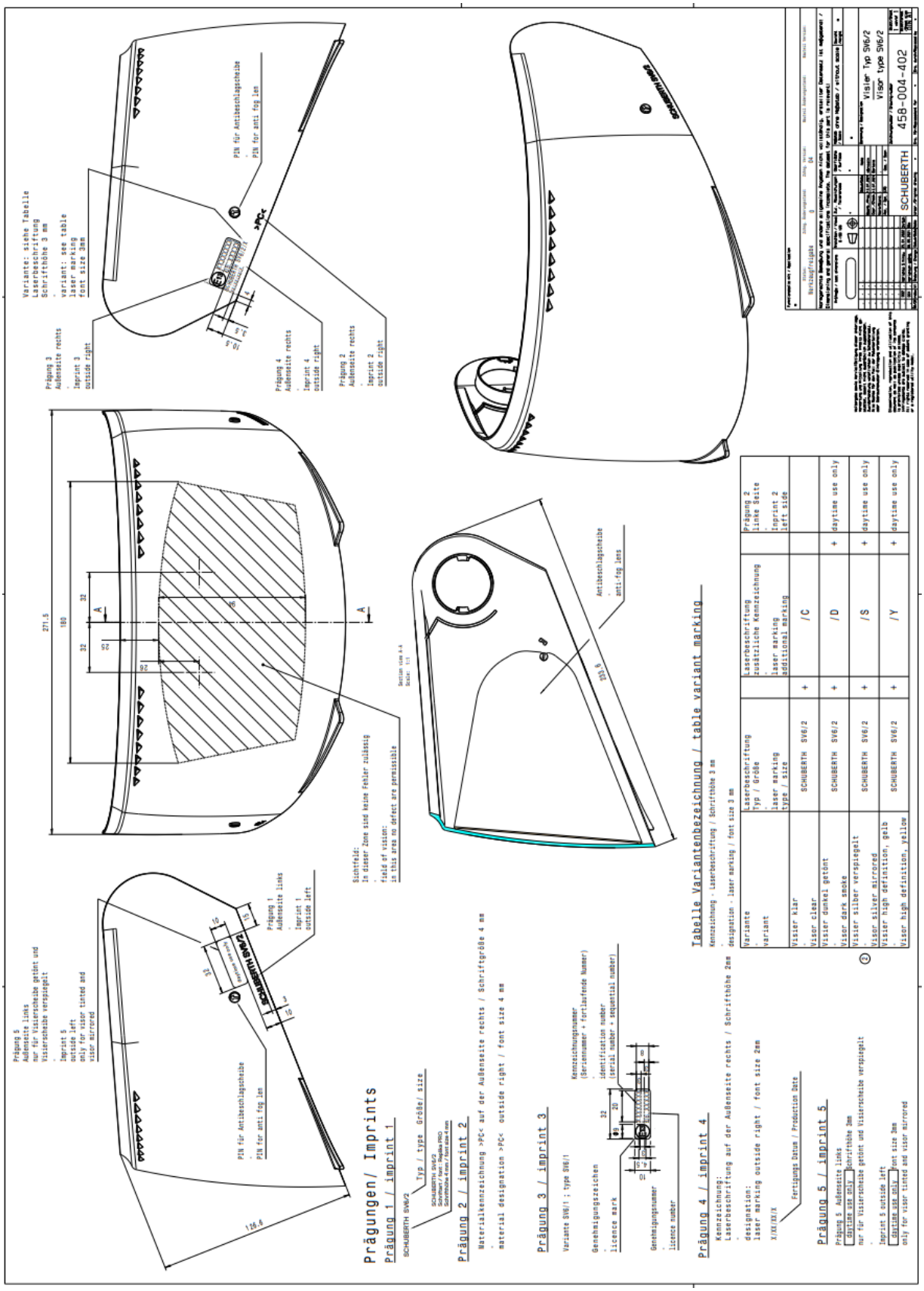
E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.2a
Anlage 2.2a



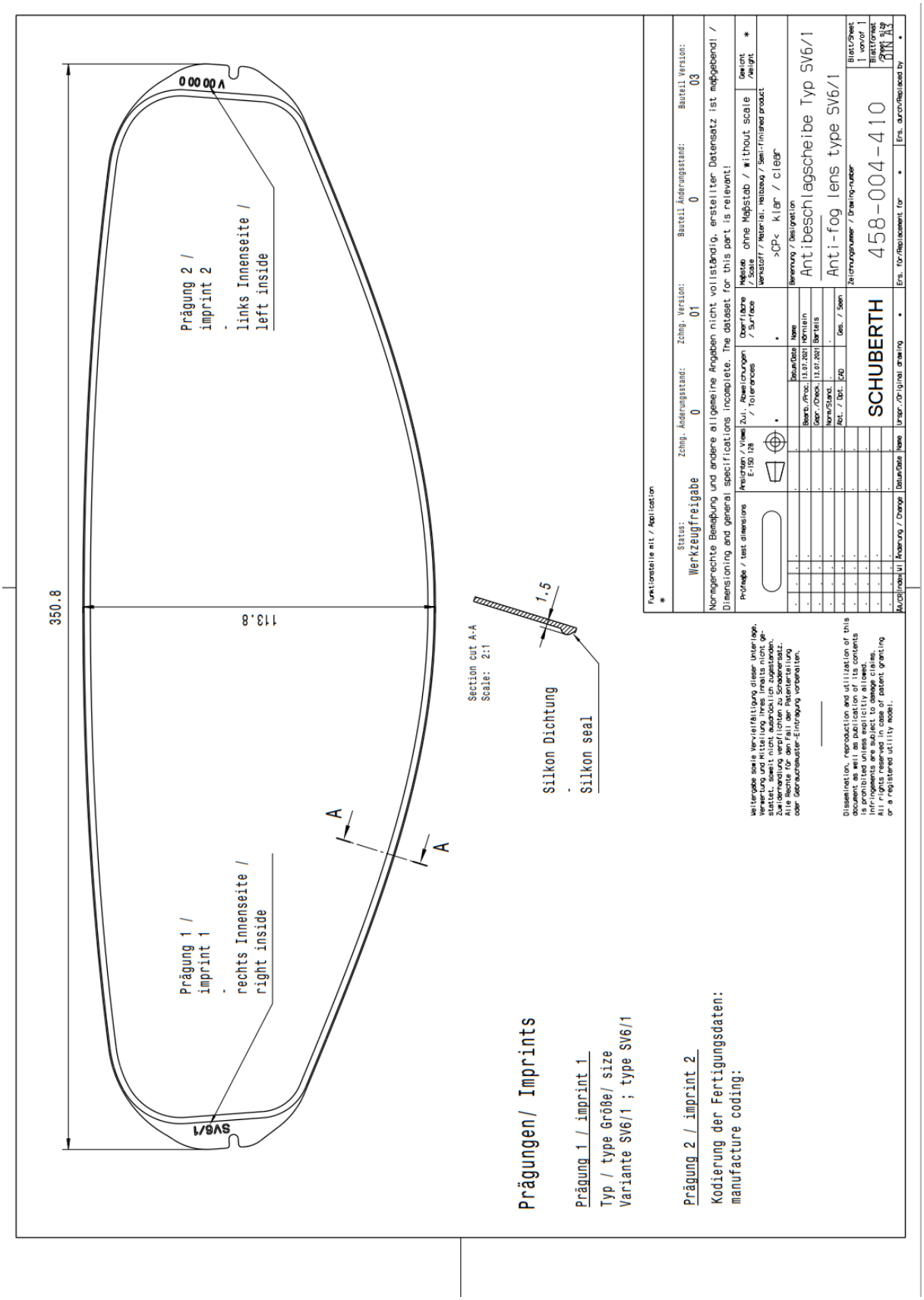
E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.2b
Anlage 2.2b



Annex 2.3a
Anlage 2.3a

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

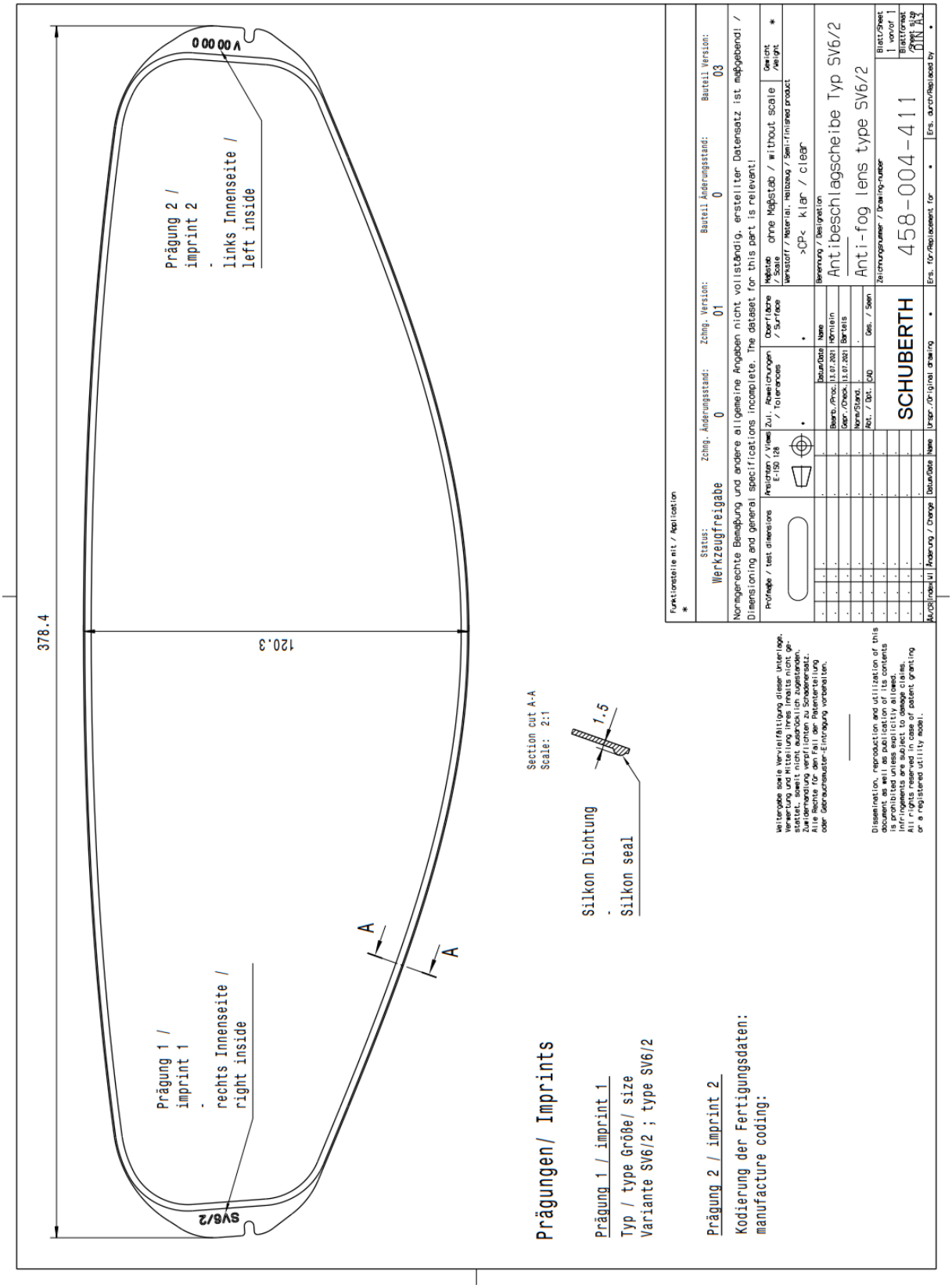


Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlung verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patenterteilung oder Gebrauchsmuster-Eintragung vorbehalten.

Dissemination, reproduction and utilization of this document as well as publication of its contents is prohibited unless explicitly allowed. Infringements are subject to damage claims. All rights reserved in case of patent granting or a registered utility model.

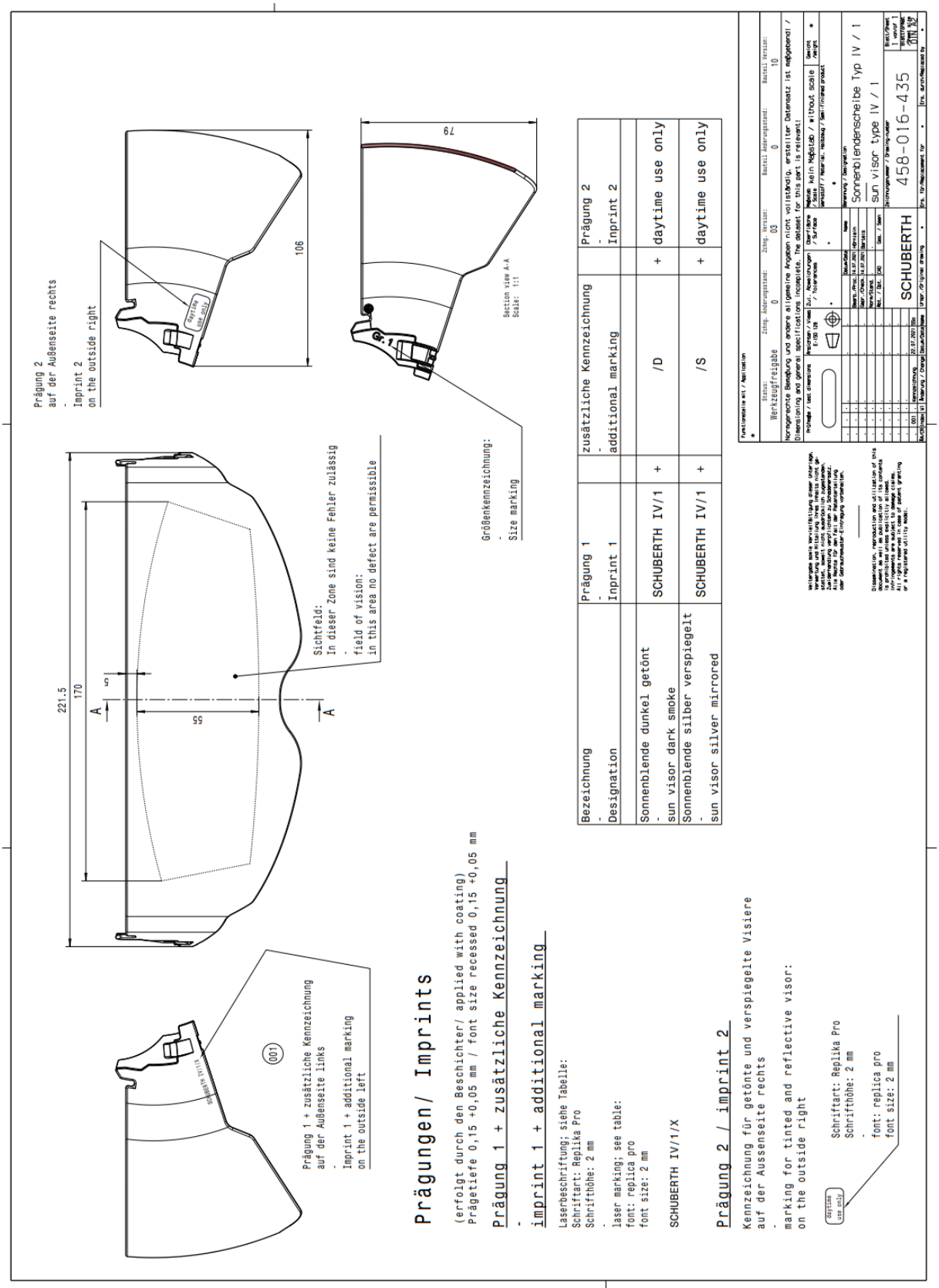
Annex 2.3b
Anlage 2.3b

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation



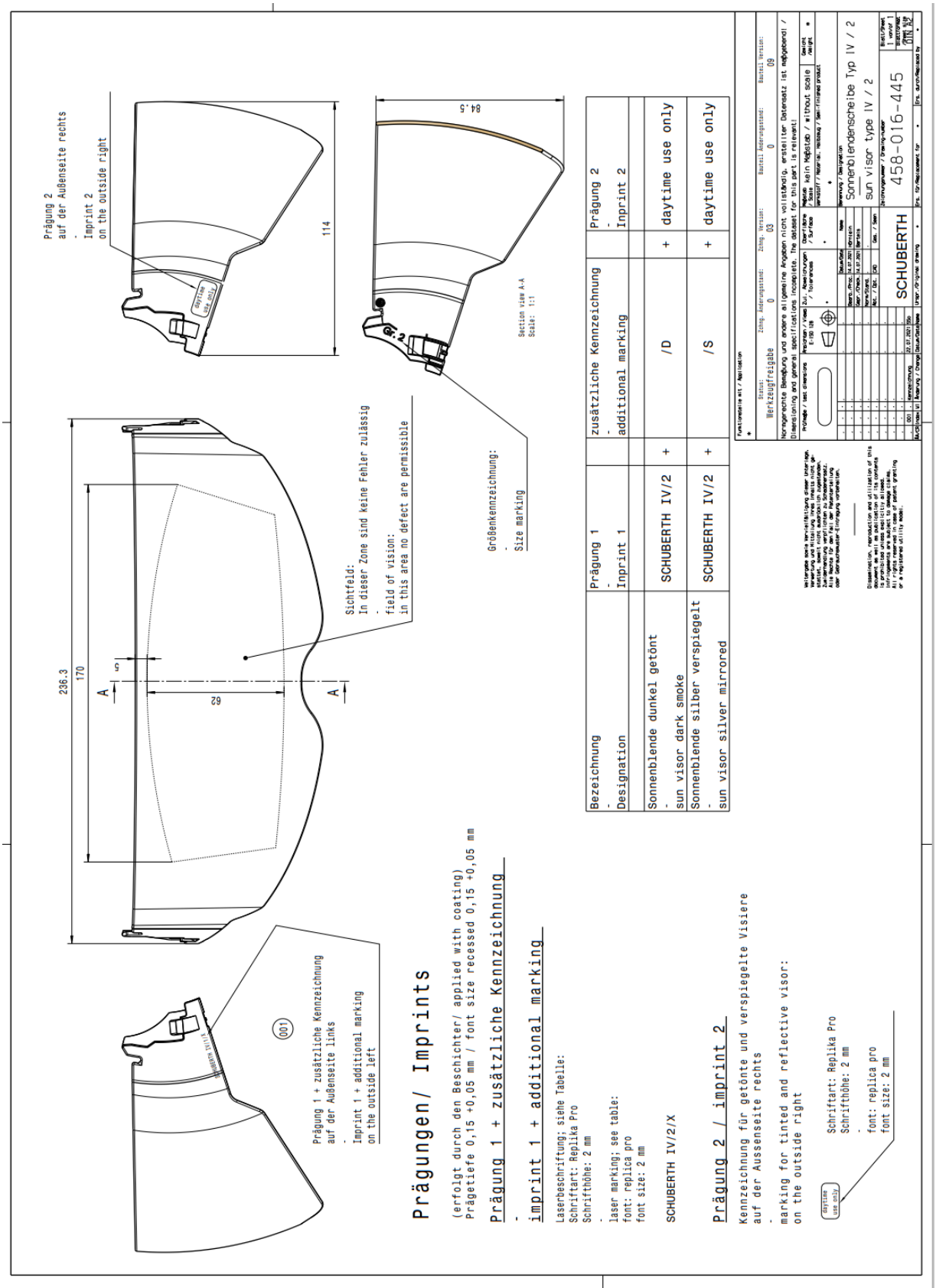
Annex 2.4a
Anlage 2.4a

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation



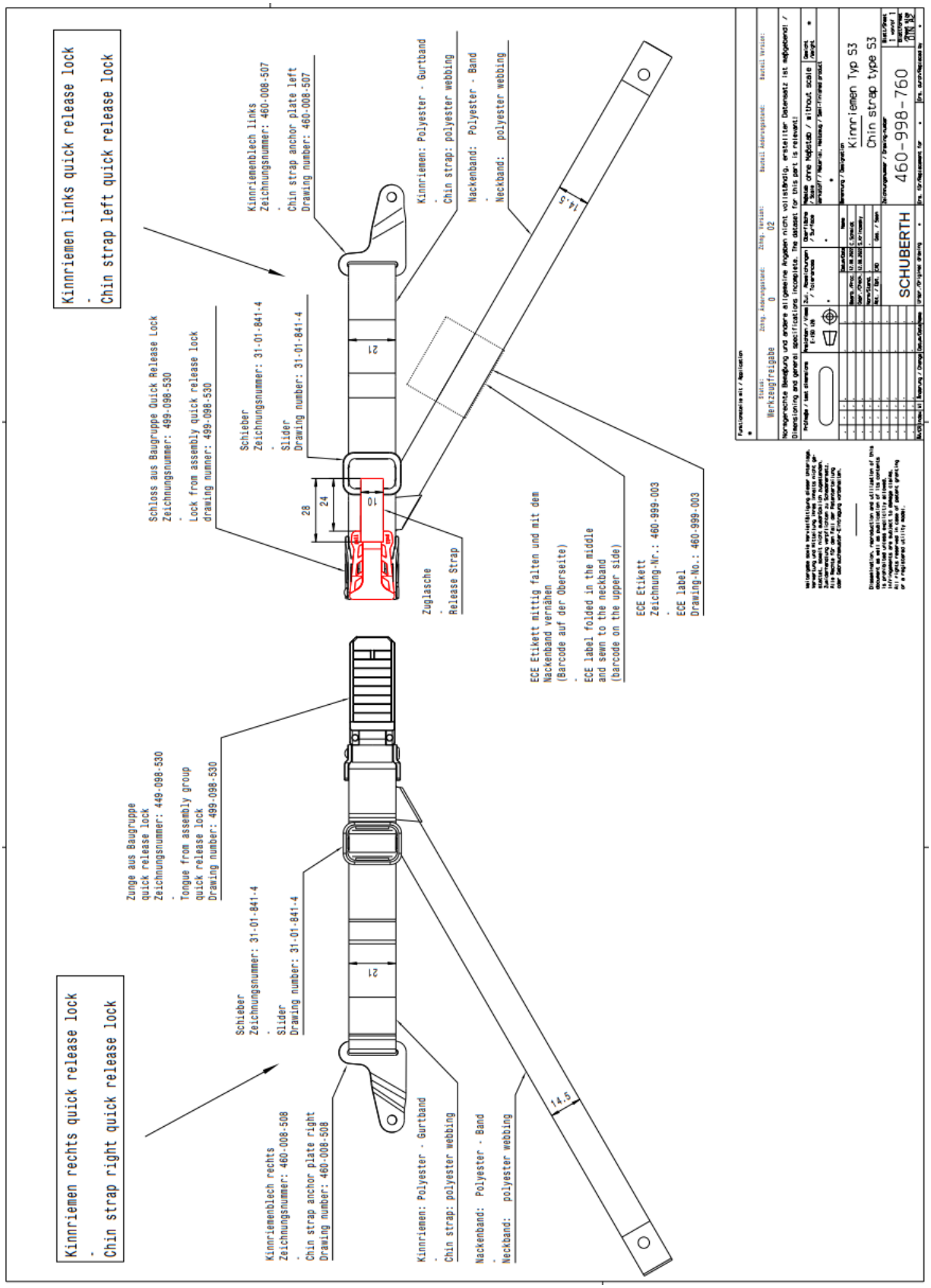
Annex 2.4b
Anlage 2.4b

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation



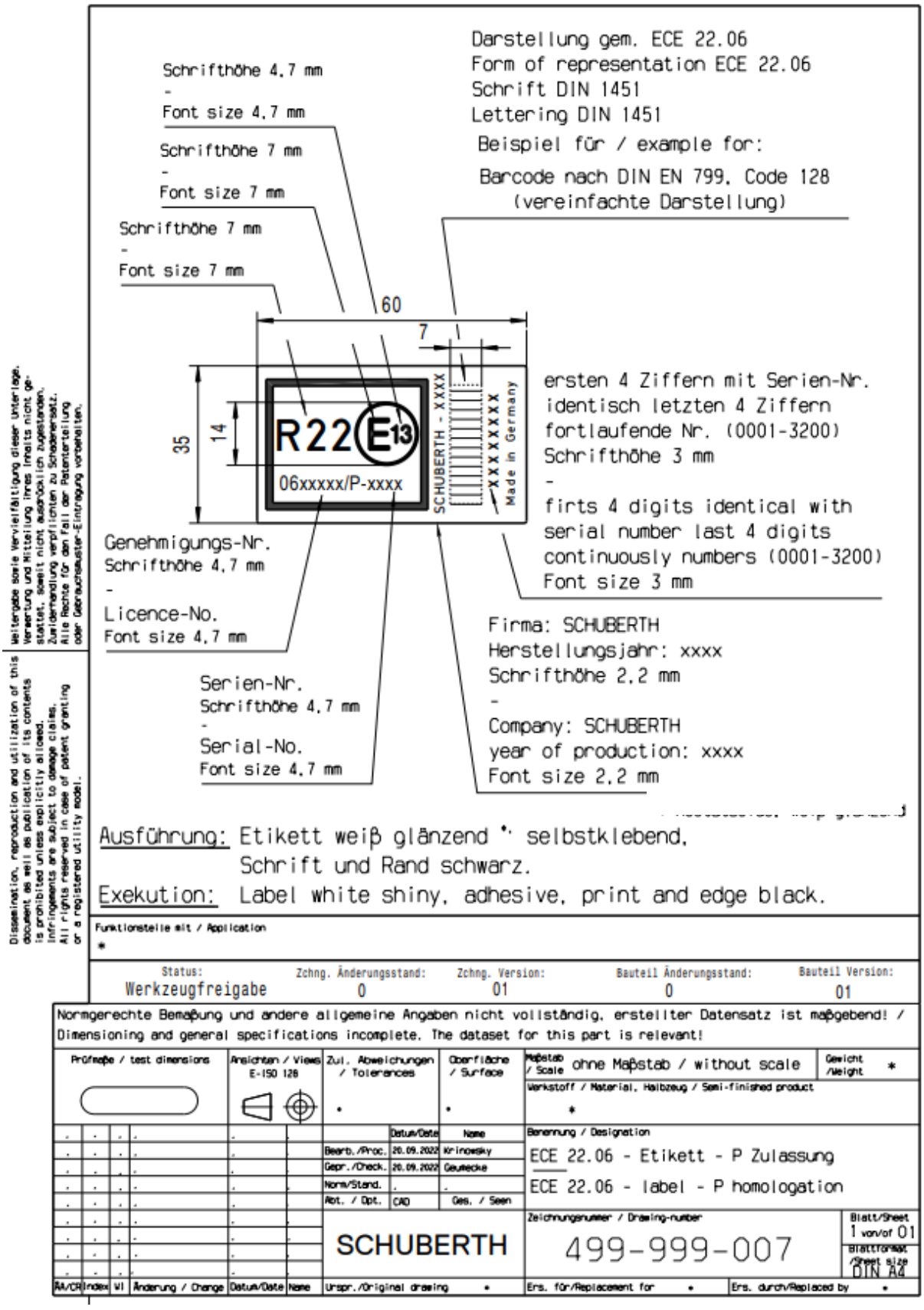
E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.5
Anlage 2.5



E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.6
Anlage 2.6

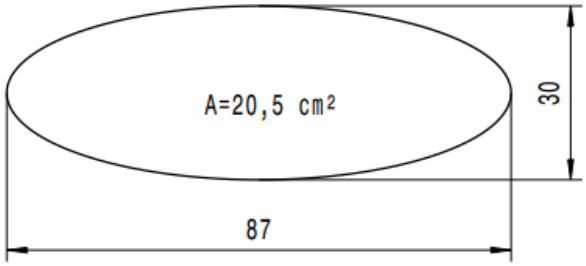


Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlung verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patenterteilung oder Gebrauchsmuster-Eintragung vorbehalten.

Dissemination, reproduction and utilization of this document as well as publication of its contents is prohibited unless explicitly allowed. Infringements are subject to damage claims. All rights reserved in case of patent granting or a registered utility model.

Annex 2.7a

Anlage 2.7a



E13*22R06/01*10579*00

Société Nationale de Certification et d'Homologation

Weitergabe sowie Vervielfältigung dieser Unterlage. Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlung verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patenterteilung oder Gebrauchsmuster-Eintragung vorbehalten.

Dissemination, reproduction and utilization of this document as well as publication of its contents is prohibited unless explicitly allowed. Infringements are subject to damage claims. All rights reserved in case of patent granting or a registered utility model.

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: *

Annex 2.7b
Anlage 2.7b

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Reflecting Tapes (see Drawing No. 460-998-750and 499-099-005)
Reflektierende Tapes (vgl. Zeichnung-Nr. 460-998-750und 499-099-005)



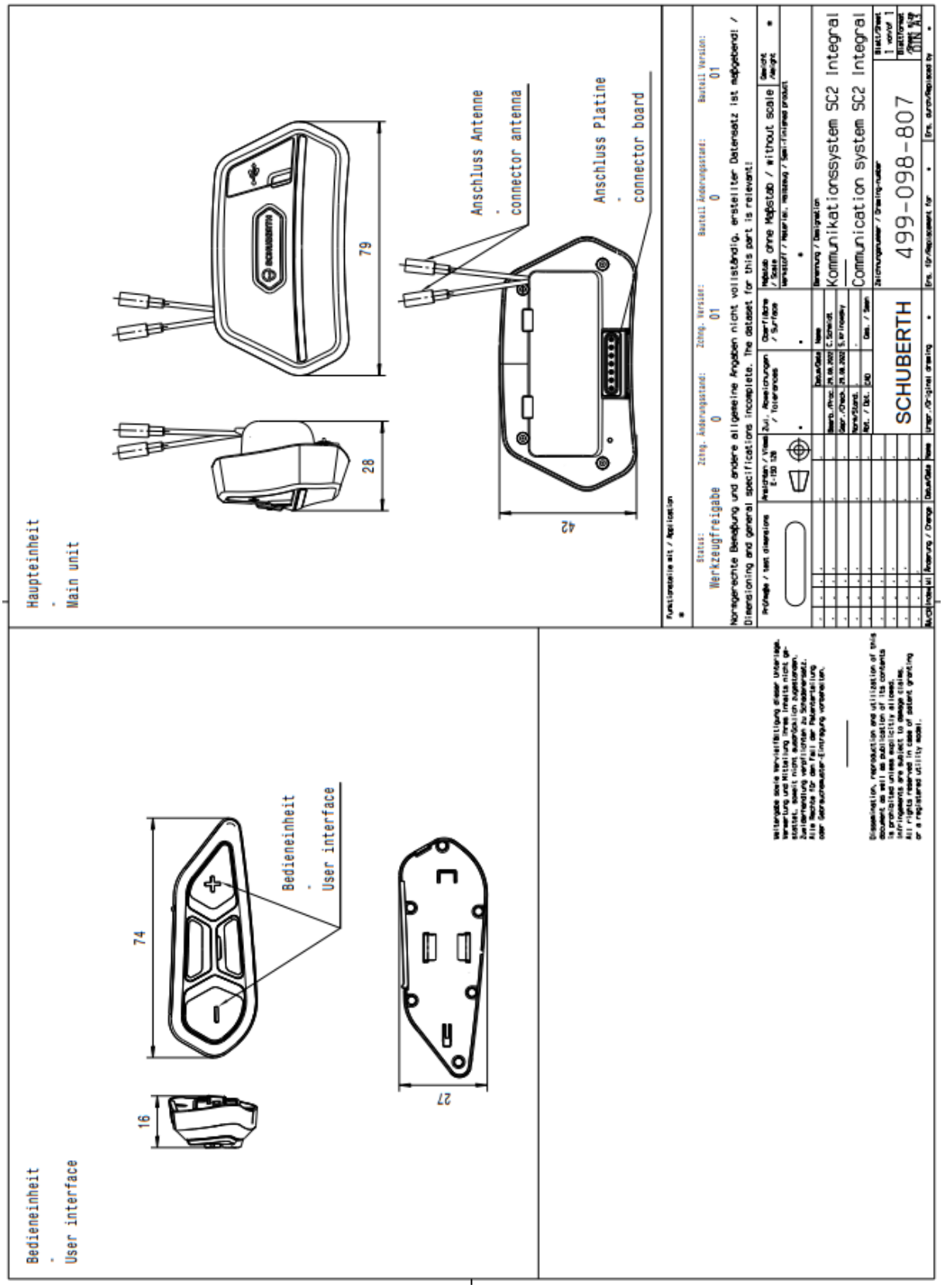
Fig. 1 Position of reflecting tapes on the helmet front and rear view
Abb.1 Position der reflektierenden Tapes am Helm in Vorder- und Rückansicht



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

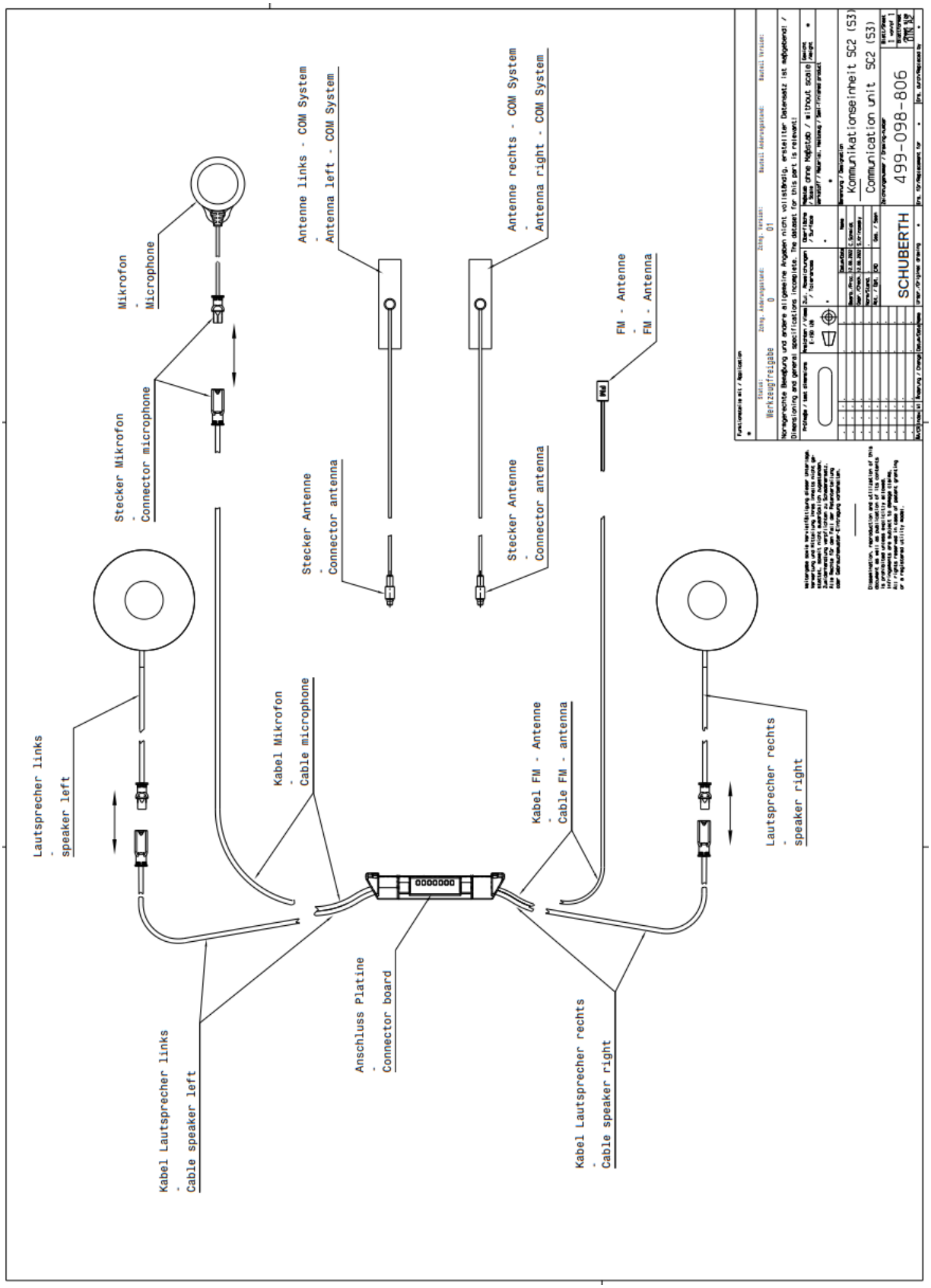


E13*22R06/01*10579*00

Société Nationale de Certification et d'Homologation

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.8b
Anlage 2.8b



E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.8c
Anlage 2.8c

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 behind chin protective padding (pos. 6)
Abb.4 Einbauposition des SC2 Mikrofon hinter dem Kinnschutz (Pos. 6)

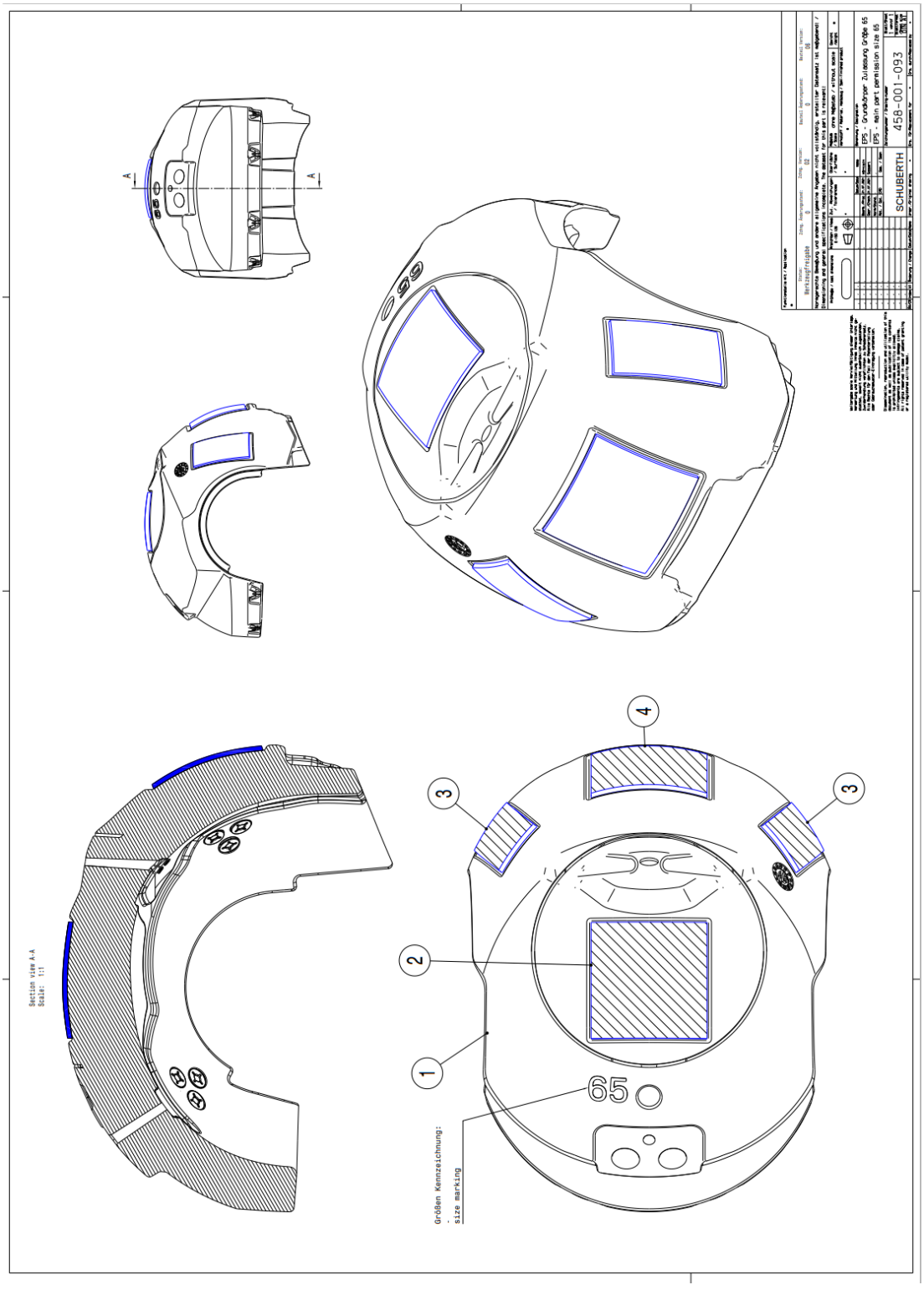


Fig. 5 Mounting position of left and right speaker - cheek padding (underneath the comfort padding)
Abb.5 Einbausosition des linken und rechten Lautsprechers - Seitenteil (unter der Komfortpolsterung)

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

Annex 2.9
Anlage 2.9

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)



E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

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				
	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	30		50	50	55
Chin padding Kinnschutz	78			78	
* Basic shell foamed in two sectors of different density Grundkörper mit “Zwei-Zonen-Schäumung”					

Tolerance / Toleranz: +/- 10 g/l

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

size 53; 55; 57; 59: 1580 g – 1800g
size 61; 63, 65: 1760 g – 1980g

Annex 3.2: comfort padding
Anlage 3.2: Komfortpolsterung

E13*22R06/01*10579*00
Société Nationale de Certification et d'Homologation

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	60.07 / 60.08	58.10	10 - 25	10	10	12	12
63	60.05 / 60.06	58.07	10 - 25	10	10	12	12
61			10 - 25	10	10	15 - 17	15 - 17
59	60.03 / 60.04	58.04	10 - 25	10	10	7 - 17	7 - 10
57			10 - 25	12	10	15 - 17	15 - 17
55	60.01 / 60.02	58.01	10 - 25	10	20	15	15
53		58.00	10 - 25	10	10	10	10