ECE TYPE-APPROVAL CERTIFICATE

E24

Communication Concerning: Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

of a type of protective helmet ~~without~~/with(2) one/~~more~~(2) visor type(s) without/~~with~~(2) ~~one/more~~(2) specific accessory type(s) pursuant to UN Regulation No. 22.

Approval No: ***E24*22R06/02*0222*00***

Reason(s) for extension:		*N/A*
1.	Trade mark:	*AKT, AVEX, AXOR, BDS, BROKEN HEAD, DELIVEROO, HXP, IRON SHIELD, ISP, JAWA, KONTROL, KOV, MMG, NIKKO, SHIRO, STORMER, VEGA, VERTIGO, X-SPORTS, YEZDI*
2.	Type:	*BRUTALE*
3.	Sizes:	*XS 53-54, S 55-56, M 57-58, L 59-60, XL 61-62, XXL 63-64*
4.	Manufacturer's Name:	*VEGA AUTO ACCESSORIES PVT LTD*
5.	Address:	*Plot No. 12B, Sy No 342, Bemciel Industrial Estate, Udyambag, Belgaum - 590 008, Karnataka, India*
6.	If applicable, name of manufacturer's representative:	*N/A*
7.	Address:	*N/A*
8.	Brief description of helmet:	*See test report and manufacturer's information document for details*
9.	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)~~ [2]	*Helmet with protective lower face cover (P)*
10.	Type of visor or visors:	*BRUTALE 01*

NATIONAL STANDARDS AUTHORITY OF IRELAND NSAI Certification TRANSPORT DEPARTMENT

NSAI, 1 Swift Square, Northwood, Santry, Dublin 9, Ireland. Telephone: (+353+1) 807 3800, Facsimile: 01-807 3844
Public

Approval No: ***E24*22R06/02*0222*00***

11.	Brief description of visor or visors, and inner visor if any:	***Visor Type: BRUTALE 01*** ***Refer to approval no.:*** ***E24*22R06/02*0223*00***
12.	Helmet ready for specific accessory (SA)/ready for universal accessories (UA)[1] :	***N/A***
13.	Accessories included in the helmet homologation and functionality:	***N/A***
14.	If UA helmet, speakers (S or S45)/Microphone (M)/ Front mounting (F)/Side mounting (L), Rear mounting (R)[1] :	***N/A***
15.	Submitted for approval on:	***26.01.2025***
16.	Technical service responsible for conducting the approval tests:	***TÜV Rheinland Kraftfahrt GmbH*** ***Am Grauen Stein,*** ***51105 Cologne,*** ***Germany***
17.	Date of report issued by that service::	***18.12.2024***
18.	Number of report issued by that service:	***85-R22-1727/24-00***
19.	Comments:	***N/A***
20.	Approval granted/~~extended/refused/withdrawn~~:	***Granted***
21.	Place:	***Dublin***
22.	Date:	***01st April, 2025***
23.	Signature:	

24. The following documents, bearing the approval number shown above, are available on request:

-Test report
-Information Package

NATIONAL STANDARDS AUTHORITY OF IRELAND NSAI Certification TRANSPORT DEPARTMENT

[1] Distinguishing number of the country which has granted/extended/refused/withdrawn an approval (see approval provisions in the Regulation).
[2] Strike out what does not apply

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Public

Approval No: ***E24*22R06/02*0222*00***

Index to the Information Package

Date of issue:	***01st April, 2025***
Date of latest amendment:	***N/A***
Reason for ~~extension/revision~~:	***N/A***

1. Additional conditions, and advisory notes on legal alternatives.

2. Test report(s)

- numbers(s):	***85-R22-1727/24-00***
- date of issue:	***18.12.2024***
- date of latest amendment:	***N/A***

3. Information document

- number(s):	***BRUTALE-00***
- date of issue:	***01.09.2024***
- date of latest amendment:	***N/A***

Documentation: ***43 pages***

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Public

Approval No: ***E24*22R06/02*0222*00***

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

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NSAI Certification
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Public

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

TEST REPORT

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

06 series of amendments, Suppl. 2

For the Type Approval of:

☐ Helmet + Visor
☒ Helmet
☐ Visor

Approval Status

UN-approval : E24*22R06/02*0222*00 (Reserved)

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

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.

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

0. General information

0.1.	Make (trade name of the manufacturer)	:	AKT, AVEX, AXOR, BDS, BROKEN HEAD, DELIVEROO, HXP, IRON SHIELD, ISP, JAWA, KONTROL, KOV, MMG, NIKKO, SHIRO, STORMER, VEGA, VERTIGO, X-SPORTS, YEZDI
0.2.	Type	:	BRUTALE
	Commercial description(s)	:	---
	Version(s)	:	---
0.3.	Helmet category	:	see appendix L, item 9
0.4.	Name and address of the manufacturer	:	VEGA AUTO ACCESSORIES PVT LTD. Plot No. 12B, Sy No 342, Bemciel Industrial Estate, Udyambag, Belgaum - 590 008, Karnataka, India
0.5.	No. of the information document	:	BRUTALE-00
	Date of issue	:	September 01, 2024
	Date of last change	:	---

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

1.1.	Description		
1.1.1.	Object	:	see appendix L, item 8
	Trade name	:	see appendix L, item 1
	Type(s) /variant(s) / version(s)	:	see appendix L, item 2
	Identification number	:	without
1.1.2.	Condition of ~~vehicle(s)/~~object(s)	:	new, ~~used, pretested~~
1.2.	Worst case configuration	:	No worst case assessment required (only one variant/version or no variants/versions) ~~There is no worst case selection applicable because all versions mentioned in the information~~ folder ~~are tested.~~
1.3.	Remarks	:	without

NATIONAL STANDARDS AUTHORITY OF IRELAND NSAI Certification TRANSPORT DEPARTMENT

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

2. **Test record**

2.1.	Equipment for measuring and testing	:	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**		
	Remarks concerning extension	:	not applicable
			~~The helmet type has been tested according to the modification(s) mentioned in appendix 0.~~
			~~The new parts meet the requirements of the regulation.~~
			~~An actual practical test of the helmet was not necessary. The results of the previous test(s) are still valid.~~
	Test results referring to measurements	:	passed
	Test results of not measurable attributes	:	not applicable
	Alternative test methods	:	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 (Guangdong) Ltd. Guangzhou Helmet Laboratory No.767 Tianyuan Road, Tianhe District, Guangzhou 510650, P.R. China
	Test date	:	September 03-November 12, 2024
2.4.	Remarks	:	without

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

3. **Appendices**

Appendix 0	:	List of modifications
Appendix L	:	Technical description of type and Communication concerning the UN-approval
Appendix 1	:	Test minutes
Information document	:	BRUTALE-00 (22 pages)

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.

Engineering Centre Shanghai, December 18, 2024

CGC / BP / EH

Nada Chen

Technical Expert Technical Service

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

List of modifications **Appendix 0**

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

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

Communication concerning the type approval **Appendix L**

1	Trade mark	:	AKT, AVEX, AXOR, BDS, BROKEN HEAD, DELIVEROO, HXP, IRON SHIELD, ISP, JAWA, KONTROL, KOV, MMG, NIKKO, SHIRO, STORMER, VEGA, VERTIGO, X-SPORTS, YEZDI
2	Type	:	BRUTALE
	Commercial description(s)	:	---
	Versions(s)	:	---
3	Sizes	:	XS 53-54, S 55-56, M 57-58, L 59-60, XL 61-62, XXL 63-64
4	Manufacturer's name	:	VEGA AUTO ACCESSORIES PVT LTD.
5	Address		Plot No. 12B, Sy No 342, Bemciel Industrial Estate, Udyambag, Belgaum - 590 008, Karnataka, India
6	If applicable, name of manufacturer's representative	:	not applicable
7	Address	:	not applicable
8	Brief description of helmet	:	The integral-faced helmet is composed of ABS shell (Acrylonitrile-Butadiene-Styrene). The protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner in the top area, two EPS side liners and one EPS chin liner. The adoption to the different head sizes is done by different sizes of shells, different thickness of the size liner, and different thickness of the comfort padding. The helmet is fitted with 1 visor with separate approval and 1 sunshield. The sunshield type: BRUTALE 02: Tinted visor, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.
9	Helmet category	:	with protective lower face cover (P)
10	Type of visor or visors	:	BRUTALE 01(E24 R22 060223)
11	Brief description of visor or visors, and inner visor if any	:	The visor type: BRUTALE 01, Clear visor, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.
12	Helmet ready for	:	~~Specific accessory (SA)/ Universal acc~~essories~~(UA)~~
13	Accessories included in the helmet homologation and functionality	:	not applicable
14	If UA helmet	:	not applicable ~~speakers (S or S45)/Microphone (M)/F~~ront ~~mounting (F) / Side mounting (L), Rear mounting (R)~~

Type : BRUTALE

Manufacturer : VEGA AUTO ACCESSORIES PVT LTD.

15	Submitted for approval on	:	September 03-November 12, 2024
16	Technical service responsible for conducting approval tests	:	TÜV Rheinland Kraftfahrt GmbH Am Grauen Stein, 51105 Cologne, Germany
17	Date of report issued by that service	:	December 18, 2024
18	Number of report issued by that service	:	85-R22-1727/24-00
19	Comments	:	not applicable
20	Approval	:	Granted ~~/ extended / refused / withdrawn~~

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

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 Appendix L, item 8
3	Lower face cover *(6.2.2.)*	:	Refer Appendix L, item 9
4	Helmet with accessories *(6.3)*	:	Not applicable
4.1	Helmet with universal accessories *(6.3.1)*	:	Not applicable
4.2	Helmet with specific accessories *(6.3.2)*		Not applicable
5	Protection areas *(6.4)*	:	The shell and padding of the helmets of each size cover the required areas.
6	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.
7	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.
8	Inner projections *(6.8)*	:	No inward facing sharp edges. All internal parts are covered with padding.
9	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.

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10	Retention system		
10.1	Abrasion protection *(6.10)*	:	The wearer is protected from abrasion by the retention system.
10.2	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
10.3	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.
11	Detachable/movable face cover *(6.12)*	:	Not applicable
12	Materials *(6.13)*	:	The materials used for the helmet comply with the regulation.
13	Breakage and deformation *(6.14)*	:	The helmet does not show breakage or deformation dangerous to the wearer after testing.
14	Peripheral vision *(6.15)*	:	Complies with the requirements of the regulation, refer test results.
15	Visor *(6.16)*	:	Refer to the visor approval: BRUTALE 01(E24 R22 060223)
16	Sun shield *(6.17)*		
16.1	General *(6.17.1)*	:	The sun shield does not affect the visor in any way. The sun shield is controlled separately from the visor.

NATIONAL STANDARDS AUTHORITY OF IRELAND NSAI Certification TRANSPORT DEPARTMENT

Type : **BRUTALE**

Manufacturer : **VEGA AUTO ACCESSORIES PVT LTD.**

16.2	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
17	Conspicuity marking *(6.18)*	:	The helmet is not equipped with retroreflective parts.
18	Accessories *(6.19)*	:	Not applicable
19	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 UN-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	Test head	horizontal angle [°] (min. 210°)	upwards angle [°] (min. 7°)	downwards angle [°] (min. 45°)
S 55-56	555	>210	7	>45
XL 61-62	625	>210	7	>45

7.3. Impact-absorption-tests

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

helmet size : XS 53-54
test-head-size : 535
anvil : Flat (Helm. 1), Kerbstone (Helm. 2)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 1 Low Temp. (-10°C)	B	227	2082
	X	231	1864
	P	181	1829
	R	215	1694
	S	153	680
Helmet 2 High Temp. (+50°C)	B	170	1300
	X	158	1131
	P	181	1306
	R	158	940
	S	---	---

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Type : BRUTALE

Manufacturer : VEGA AUTO ACCESSORIES PVT LTD.

helmet size : M 57-58
test-head-size : 575
anvil : Flat (Helm. 3), Kerbstone (Helm. 4)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 3 Low Temp. (-10°C)	B	226	1965
	X	232	1875
	P	193	2095
	R	206	1425
	S	145	621
Helmet 4 High Temp. (+50°C)	B	162	1219
	X	152	1075
	P	172	1191
	R	137	819
	S	---	---

helmet size : M 57-58
test-head-size : 575
anvil : Flat (Helm. 5), Kerbstone (Helm. 6), Flat (Helm. 7)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 5 Ambient	B	220	1852
	X	219	1760
	P	218	**2328**
	R	177	1242
	S	---	---
Helmet 6 Ambient	B	169	1306
	X	153	1114
	P	190	1234
	R	147	865
	S	---	---
Helmet 7 Artificial ageing	B	215	1839
	X	213	1671
	P	227	**2380**
	R	159	1119
	S	---	---

Type : BRUTALE

Manufacturer : VEGA AUTO ACCESSORIES PVT LTD.

helmet size : L 59-60
test-head-size : 605
anvil : Flat (Helm. 8), Kerbstone (Helm. 9)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 8 Low Temp. (-10°C)	B	229	1973
	X	213	1647
	P	212	2227
	R	155	1068
	S	164	760
Helmet 9 High Temp. (+50°C)	B	159	1157
	X	173	1099
	P	138	1114
	R	127	770
	S	---	---

helmet size : XXL 63-64
test-head-size : 625
anvil : Flat (Helm. 10), Kerbstone (Helm. 11)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 10 Low Temp. (-10°C)	B	221	1824
	X	206	1527
	P	219	**2347**
	R	147	928
	S	157	712
Helmet 11 High Temp. (+50°C)	B	143	1065
	X	179	1090
	P	151	1128
	R	121	796
	S	---	---

helmet size : XXL 63-64
test-head-size : 625
anvil : Flat (Helm. 12), Kerbstone (Helm. 13), Kerbstone (Helm. 14)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 12	B	206	1621
Ambient	X	208	1524
	P	207	2203
	R	154	1039
	S	---	---
Helmet 13	B	147	1072
Ambient	X	171	1088
	P	145	1124
	R	130	852
	S	---	---
Helmet 14	B	150	1091
Artificial ageing	X	161	1042
	P	141	1105
	R	121	808
	S	---	---

Low energy impact

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

helmet size : M 57-58
test-head-size : 575
anvil : Flat (Helm. 15)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 15	B	160	959
Ambient	X	167	945
	P	145	1073
	R	121	564
	S	---	---

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Type : BRUTALE

Manufacturer : VEGA AUTO ACCESSORIES PVT LTD.

helmet size : XXL 63-64
test-head-size : 625
anvil : Kerbstone (Helm. 16)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 16	B	117	614
Ambient	X	106	524
	P	120	666
	R	116	581
	S	---	---

High energy impact

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

helmet size : M 57-58
test-head-size : 575
anvil : Flat (Helm. 17)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 17	B	239	2343
Ambient	X	243	2178
	P	237	**2872**
	R	188	1458
	S	---	---

helmet size : XXL 63-64
test-head-size : 625
anvil : Flat (Helm. 18)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 18	B	231	2108
Ambient	X	228	1947
	P	220	2529
	R	169	1257
	S	---	---

Extra point

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

helmet size : XXL 63-64
test-head-size : 625
anvil : Kerbstone (Helm. 19)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 19 Ambient	BXPR	141	1143
	BXL	152	1030
	RXPL	125	949
	RXR	130	870

helmet size : M 57-58
test-head-size : 575
anvil : Flat (Helm. 20)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 20 Ambient	BXR	203	1694
	BXPL	220	1671
	RXL	211	1544
	RXPR	183	1689

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

All values are within the limits of the regulation.

Helmet size	M 57-58	
Test head size	575	
	Test with positive result at the following points of the outer shell:	
1.	Rear air vent sliding tangential at the projection	Positive
2.	Main outer shell area test for friction assessment	Positive

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")

Not applicable.

7.5 Rigidity test

All values are within the limits of the regulation.

Helmet Size	Direction	Deformation [mm] (max. 40 mm)	Permanent deformation [mm] (max. 15 mm)
M 57-58	longitudinal	12	4
	transversal	11	5
XXL 63-64	longitudinal	13	4
	transversal	10	3

7.6. Dynamic test of the retention system

All values are within the limits of the regulation.

With DD Ring

Helmet Size	Head size	dyn.movement [mm] (max. 35 mm)	stat.movement [mm] (max.25 mm)	Remarks
XS 53-54	535	26.5	9.2	--
L 59-60	605	24.6	6.4	--

With Buckle

Helmet Size	Head size	dyn.movement [mm] (max. 35 mm)	stat.movement [mm] (max.25 mm)	Remarks
XS 53-54	535	28.2	11.1	--
L 59-60	605	26.3	9.5	--

7.7.2. Retention (detaching) test
[Weight hooked to the front border]
All values are within the limits of the regulation.

With DD Ring

Helmet Size	Head size	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	24	Front to rear
L 59-60	605	9	Front to rear

With Buckle

Helmet Size	Head size	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	26	Front to rear
L 59-60	605	8	Front to rear

7.7.3./4. Retention (detaching) test
[Falling mass]
All values are within the limits of the regulation.

With DD Ring

Helmet Size	Head size	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	24	Rear to front
L 59-60	605	21	Rear to front

With Buckle

Helmet Size	Head size	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	23	Rear to front
L 59-60	605	21	Rear to front

7.8 Visor tests

Refer to the visor approval: BRUTALE 01(E24 R22 060223)

7.9. Sun shield tests

All values are within the limits of the regulation.

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

Luminous transmittance τ_v (D65) ~~(≥0,8) (daytime: ≥ 0,35~~; Sun shield: ≥ 0,20)	$Q_{Red} \geq 0,8$	$Q_{Yellow} \geq 0,6$	$Q_{green} \geq 0,6$	$Q_{blue} \geq 0,6$
0.241	Pass	Pass	Pass	Pass
0.237	Pass	Pass	Pass	Pass
0.241	Pass	Pass	Pass	Pass

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

0.218
0.210
0.216

Refractive powers

		Prismatic Diff. Effect [cm/m]		
		horizontal base		
Spherical effect [m^{-1}]	Astigmatic effect [m^{-1}]	outside	inside	vertical base
≤ ±0.12	≤ 0.12	≤ 1.00	≤ 0.25	≤ 0.25
-0.06	0.05	0.46	--	0.04
-0.07	0.05	0.47	--	0.04
-0.06	0.06	0.44	--	0.04

7.10 Microslip-test of the chin strap

All values are within the limits of the regulation.

Movement:	< 5.0 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/s^2 respectively BrIC 0,78.

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Rotation [rad/s^2]	BrIC	Remark
575	AMB	45°	FLR	M 57-58	2477	0.25	--
575	AMB	45°	Rear	M 57-58	2713	0.38	--
575	AMB	45°	LL	M 57-58	3310	0.42	--
575	AMB	45°	Front	M 57-58	4202	0.43	--
575	AMB	45°	RLR	M 57-58	2784	0.43	--
625	AMB	45°	FLR	XXL 63-64	2470	0.35	--
625	AMB	45°	Rear	XXL 63-64	2680	0.25	--
625	AMB	45°	LL	XXL 63-64	3044	0.43	--
625	AMB	45°	Front	XXL 63-64	3228	0.40	--
625	AMB	45°	RLR	XXL 63-64	2711	0.38	--

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INFORMATION DOCUMENT FOR TYPE-APPROVAL OF PROTECTIVE HELMETS ~~AND / OR[1] OF THEIR VISORS~~ FOR DRIVERS AND PASSENGERS OF MOTOR CYCLES AND MOPEDS

1.	Make (trade name or mark of the manufacturer)	: AKT, AVEX, AXOR, BDS, BROKEN HEAD, DELIVEROO, HXP, IRON SHIELD, ISP, JAWA, KONTROL, KOV, MMG, NIKKO, SHIRO, STORMER, VEGA, VERTIGO, X-SPORTS, YEZDI
2.	Type	: BRUTALE
	Commercial description(s)	: ---
	Version(s)	: ---
3.	Sizes	: XS 53-54, S 55-56, M 57-58, L 59-60, XL 61-62, XXL 63-64
4.	Name of the manufacturer	: VEGA AUTO ACCESSORIES PVT LTD.
5.	Address of the manufacturer	: Plot No. 12B, Sy No 342, Bemciel Industrial Estate, Udyambag, Belgaum - 590 008, Karnataka, India
6.	Name of the manufacturer's representative	: Not applicable
7.	Address of the manufacturer's representative	: Not applicable
	Brief description of the helmet and / or [1] Brief description of visor and inner visor if any	: The integral-faced helmet is composed of ABS shell (Acrylonitrile-Butadiene-Styrene). The protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner in the top area, two EPS side liners and one EPS chin liner. The adoption to the different head sizes is done by different sizes of shells, different thickness of the size liner, and different thickness of the comfort padding. The helmet is fitted with 1 visor with separate approval and 1 sunshield. BRUTALE 01: Clear visor, made of

Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.

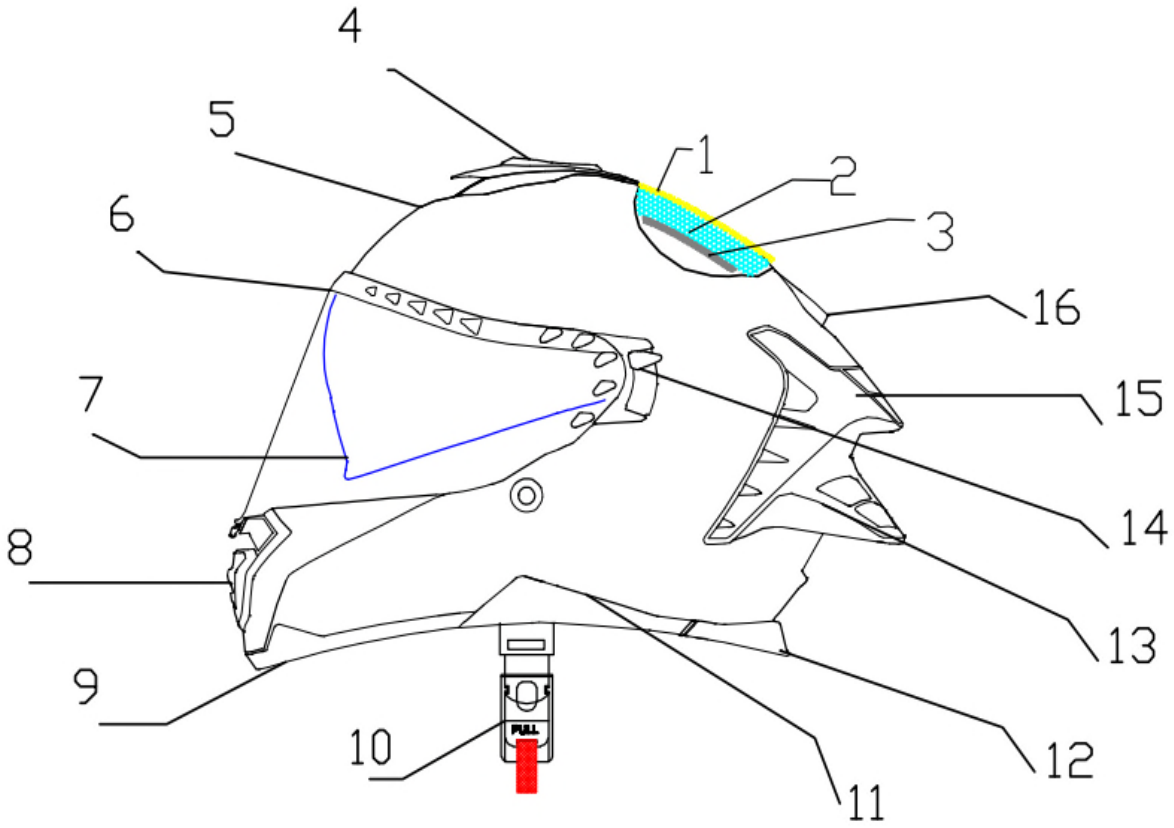
BRUTALE 02: Tinted visor, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.

ADDITIONAL INFORMATION

Helmet ~~without lower face cover (J) /~~ with protective lower face cover (P) ~~/ with non protective lower face cover (NP) / with a movable or detachable protective lower face cover (P/J)~~	:	P
Type of visor or visors	:	BRUTALE 01(E24 R22 060223)
~~Types of helmet to which the visor may be fitted~~		
Name and address of assembly plant	:	VEGA AUTO ACCESSORIES PVT LTD. Plot No. 12B, Sy No 342, Bemciel Industrial Estate, Udyambag, Belgaum - 590 008, Karnataka, India
Applicable regulation	:	UN-Reg. No. 22, 06 series of amendments

NOTE:
[1] strike through where not applicable

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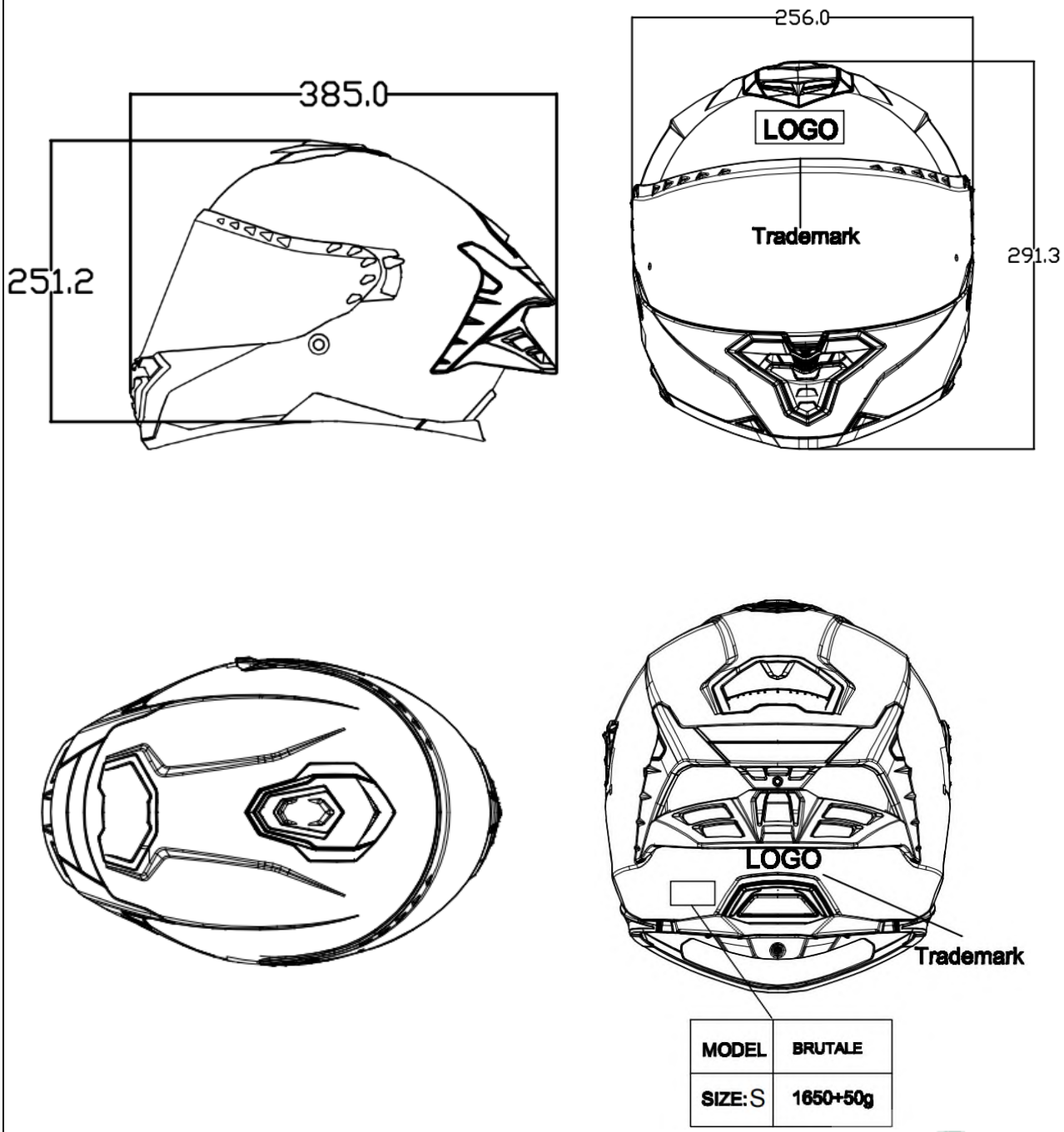
DRW.	**BRUTALE-01**	**Assembly Drawing**

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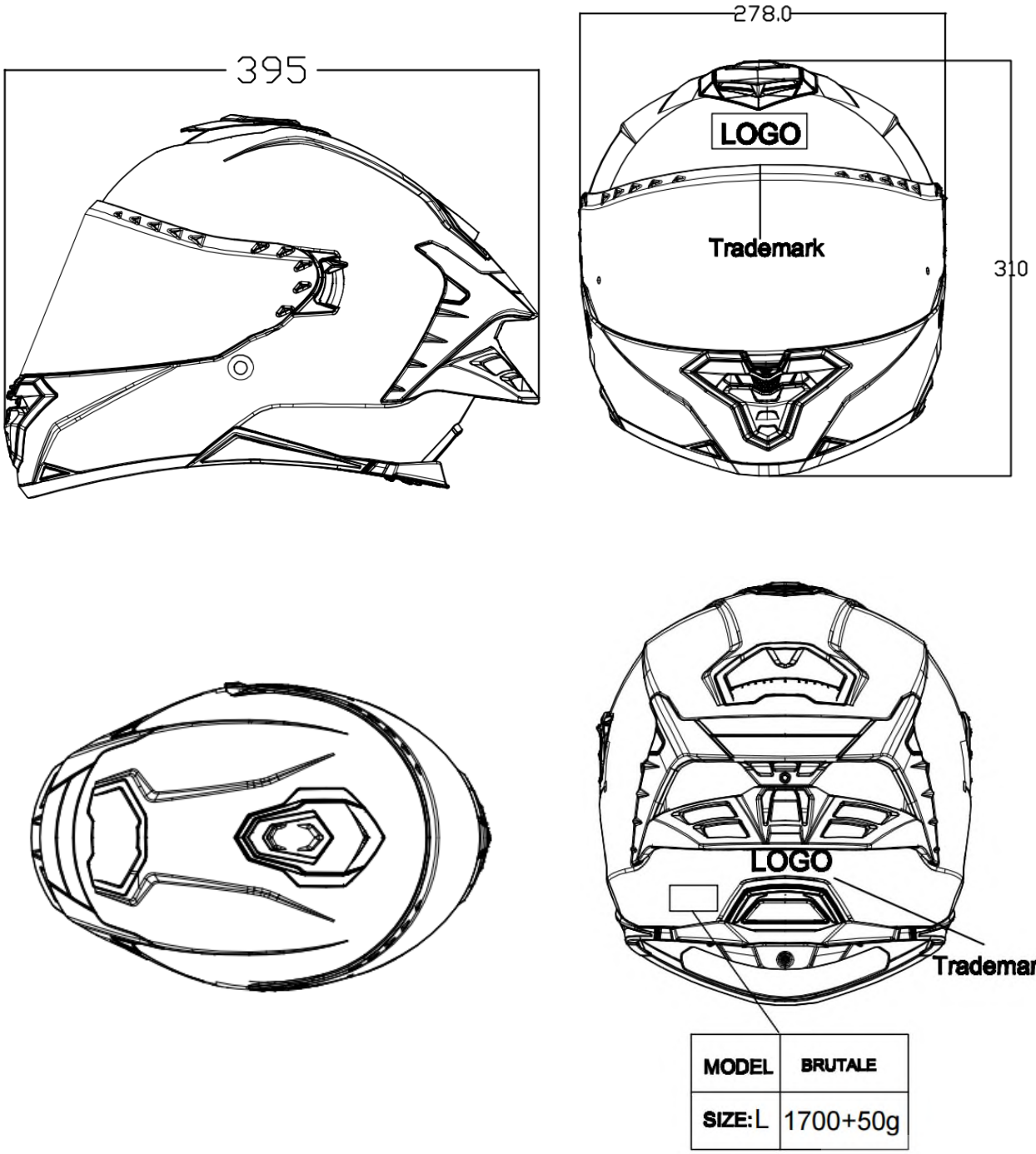
Part No.	Subject or name	Material
1	Outer shell	ABS
2	Protective padding	EPS
3	Comfort padding	Expanded polyurethane + Synthetic + fabric
4	Top ventilation	ABS
5	Outer shell	ABS
6	Visor	PC
7	Sun shield	PC
8	Front ventilation	ABS
9	Bottom rubber trim	ABS
10	Retention system	Polycarbonate + steel + fabric
11	Bottom rubber trim	ABS
12	Bottom rubber trim	ABS
13	Back ventilation	ABS
14	Ratchet	POM
15	Back ventilation	ABS
16	Top ventilation	ABS

Material list of parts

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	DRW.	**BRUTALE-02**	**Helmet section view-XS-M**



	DRW.	**BRUTALE-02**	**Helmet section view-L-XXL**

Impact absorption material thickness in millimeter, SHELL					
Size	**Section B-Point**	**Section P-Point**	**Section R-Point**	**Section X-Point**	**Lower Face cover**
XS	3.0	3.0	3.0	3.0	2.5
S	3.0	3.0	3.0	3.0	2.5
M	3.0	3.0	3.0	3.0	2.5
L	3.5	3.0	3.0	3.0	2.5
XL	3.5	3.0	3.0	3.0	2.5
XXL	3.5	3.0	3.0	3.0	2.5

Impact absorption material thickness in millimeter, LINER				
Size	**Section B-Point**	**Section P-Point**	**Section R-Point**	**Section X-Point**
XS	36	43	40	42
S	34	43	40	42
M	32	43	40	42
L	32	42	38	41
XL	30	42	36	41
XXL	28	42	36	41

Impact absorption material thickness in millimeter, LINING					
Size	**Section B-Point**	**Section P-Point**	**Section R-Point**	**Section X-Point**	**Side Part Lining**
XS	18	16	18	18	35
S	16	14	16	16	30
M	14	14	14	14	25
L	12	14	12	12	20
XL	10	14	10	10	15
XXL	8	14	8	8	10

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Dimension and weight

1. Dimension of the shell:

SIZE	Length (mm)	Width (mm)	Height (mm)
S-M	385	256	291
L-XXL	395	278	310

2. Total weight of the helmet:

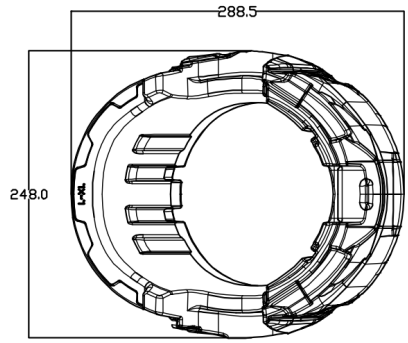
Size	Weight (g)	Tolerance (g)
XS	1650	± 50
S	1650	± 50
M	1650	± 50
L	1700	± 50
XL	1700	± 50
XXL	1700	± 50

3. Specific gravity of the impact absorption liner

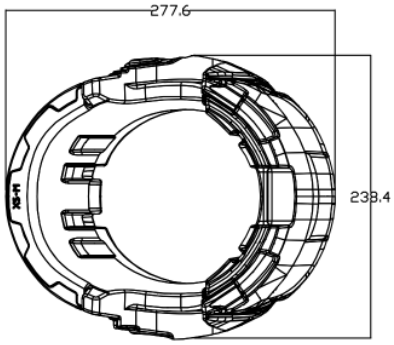
Size	Specific gravity of size liner (kg/m³)	Specific gravity of side liner (kg/m³)	Specific gravity of crown liner (kg/m³)	Specific gravity of chin liner (kg/m³)
XS	50	45	20	60
S	50	45	20	60
M	50	45	20	60
L	50	50	25	60
XL	50	50	25	60
XXL	50	50	25	60

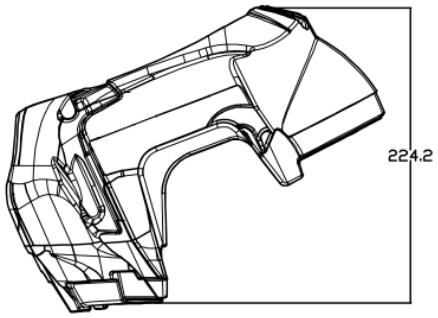
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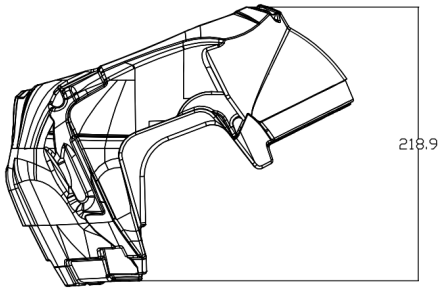
L-XXL(59-64CM)

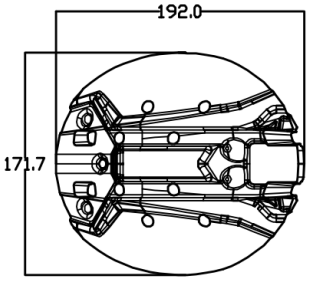


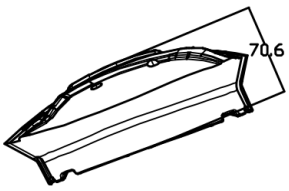
XS-M(53-58CM)

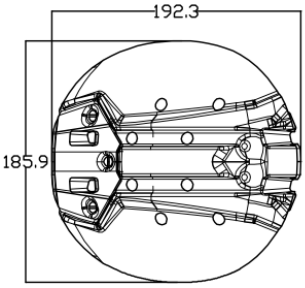


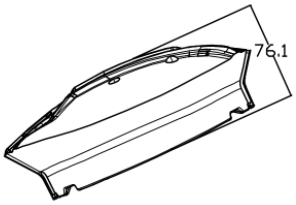


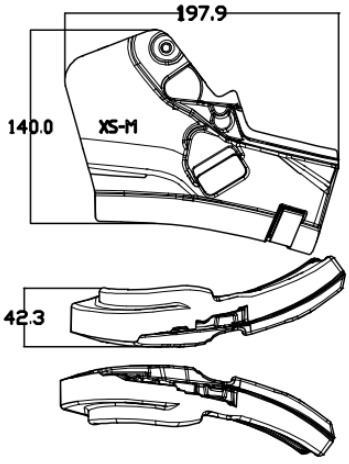


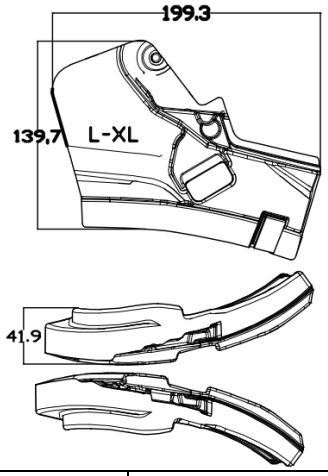


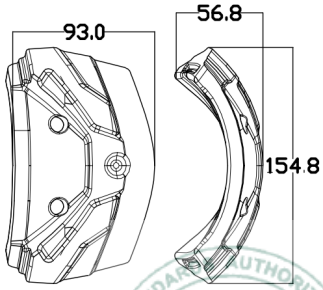






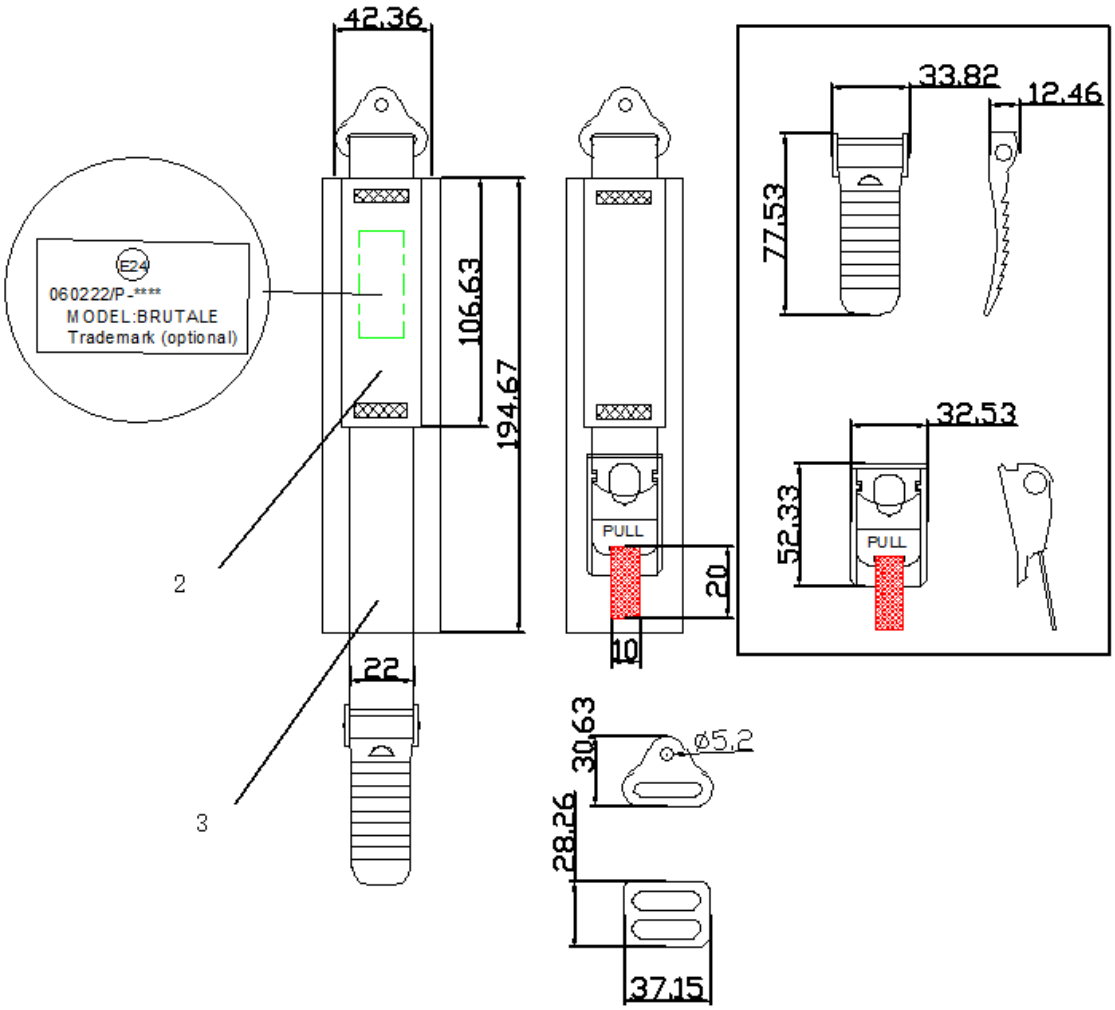






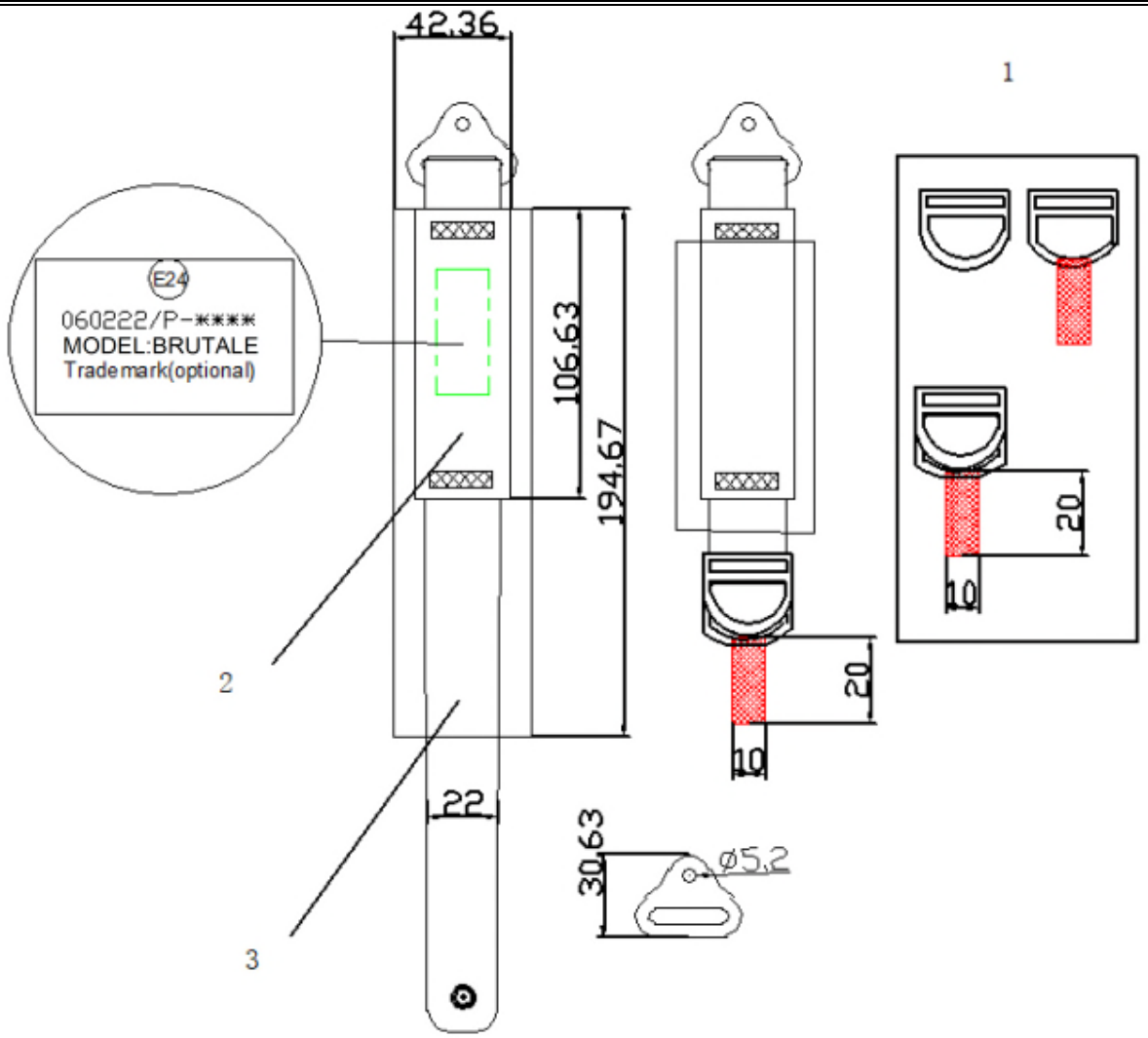
	DRW.	BRUTALE-03	EPS details

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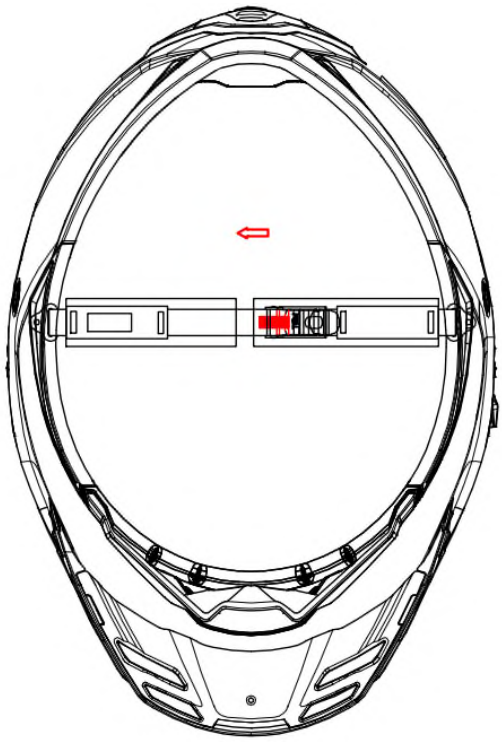
Part No.	Subject or name		Material
1	Buckle		Iron
2	Sewing Line		Nylon
3	Chin strap		Nylon
	DRW.	**BRUTALE-04**	**Retention system**

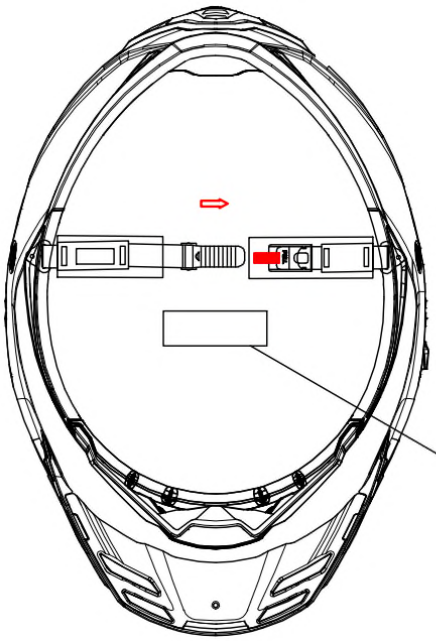
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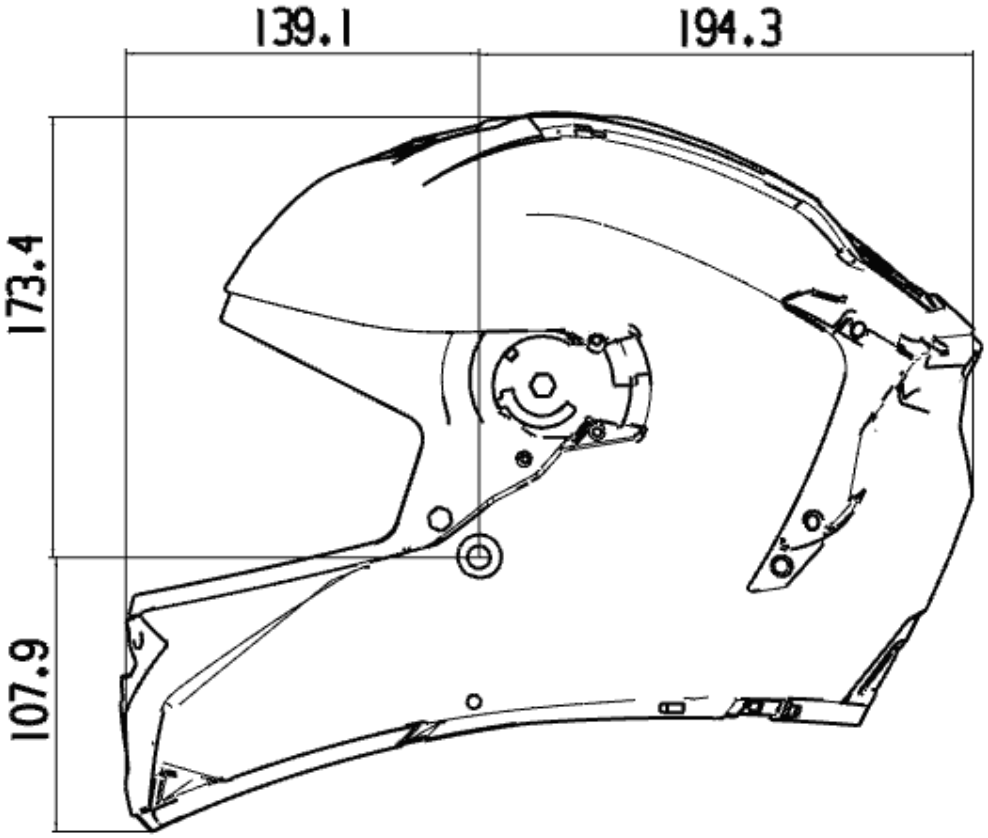
Part No.	Subject or name		Material
1	Buckle		stainless steel
2	Sewing Line		Nylon
3	Chin strap		Nylon
	DRW.	**BRUTALE-04**	**Retention system**

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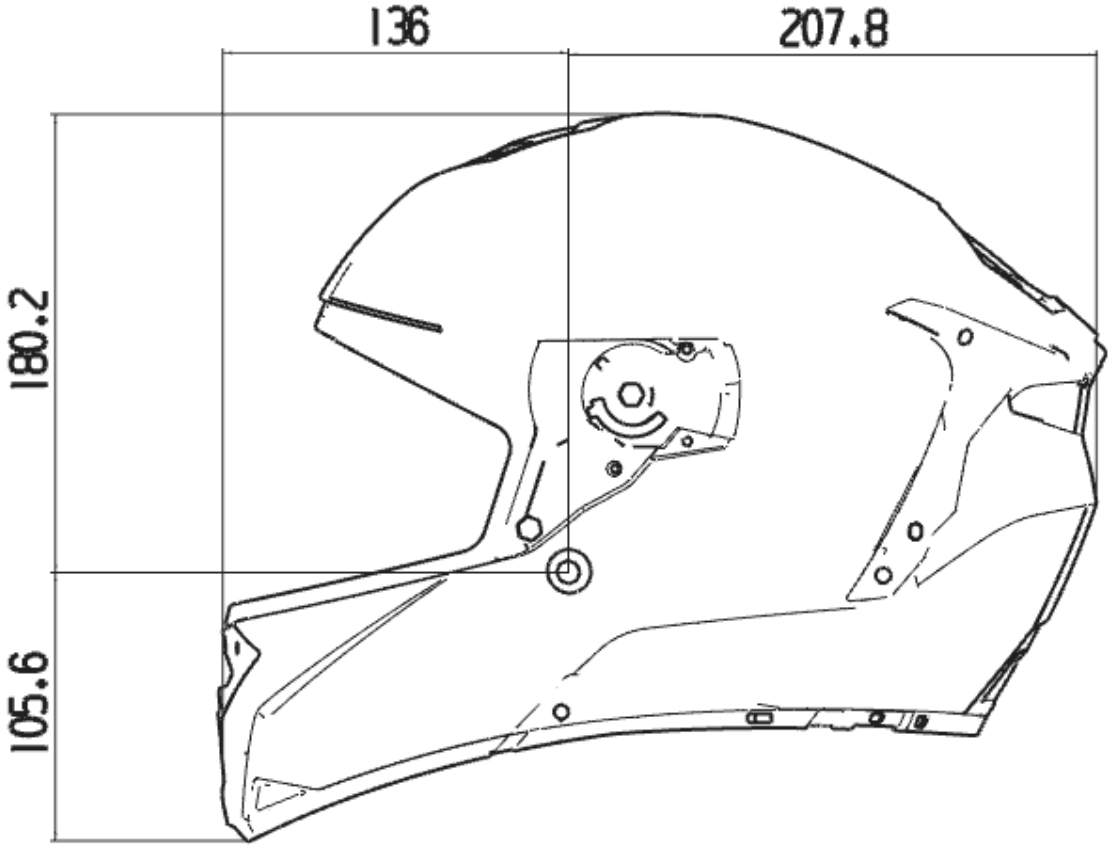


DRW.	**BRUTALE-05**	**Retention system, chin strap operation**



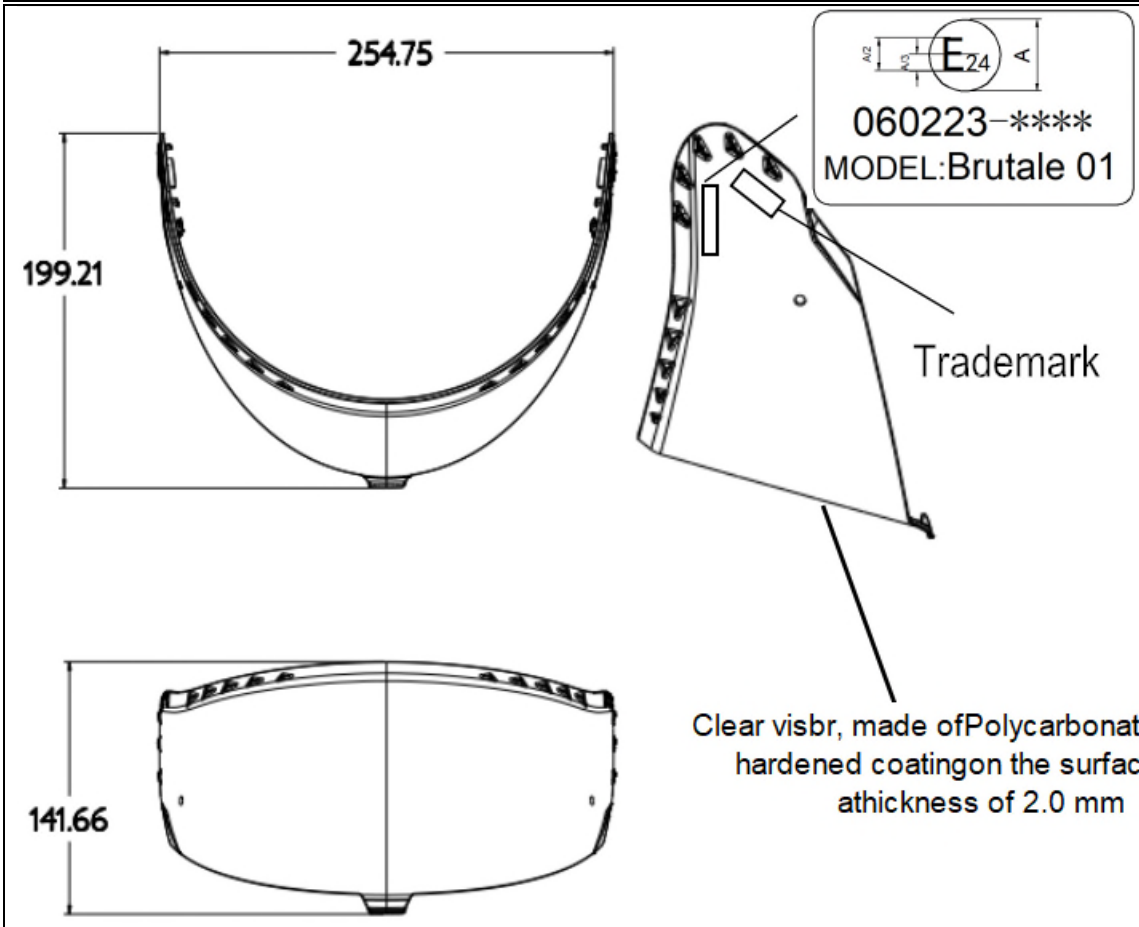
	DRW.	**BRUTALE-06**	**Retention system, position details XS-M**

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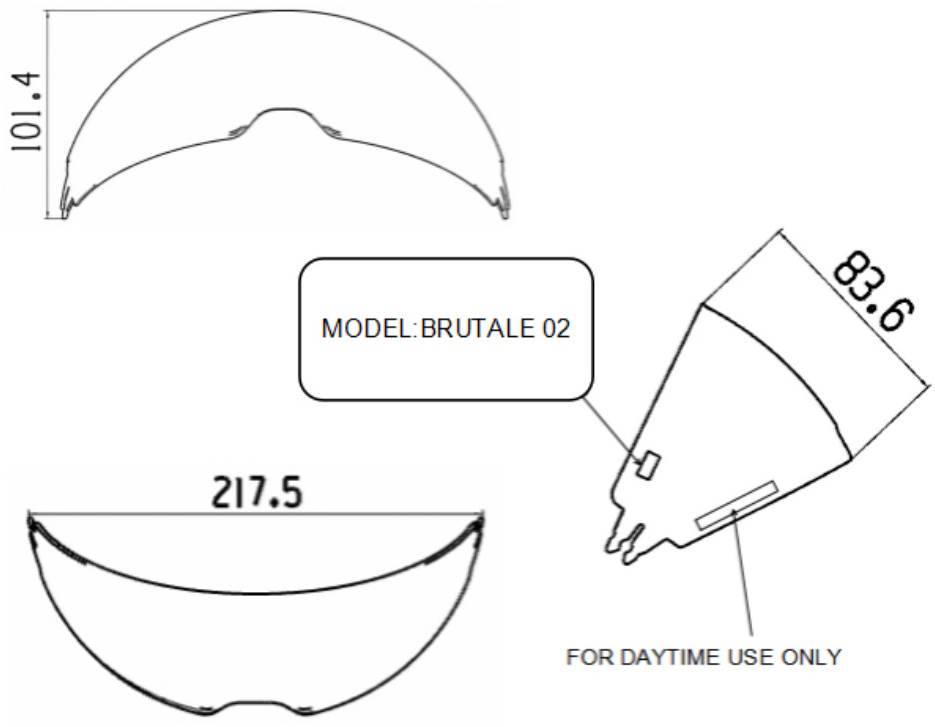
	DRW.	**BRUTALE-06**	**Retention system, position details L-XXL**

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DRW.	**BRUTALE-07**	**Drawing and details for visor**

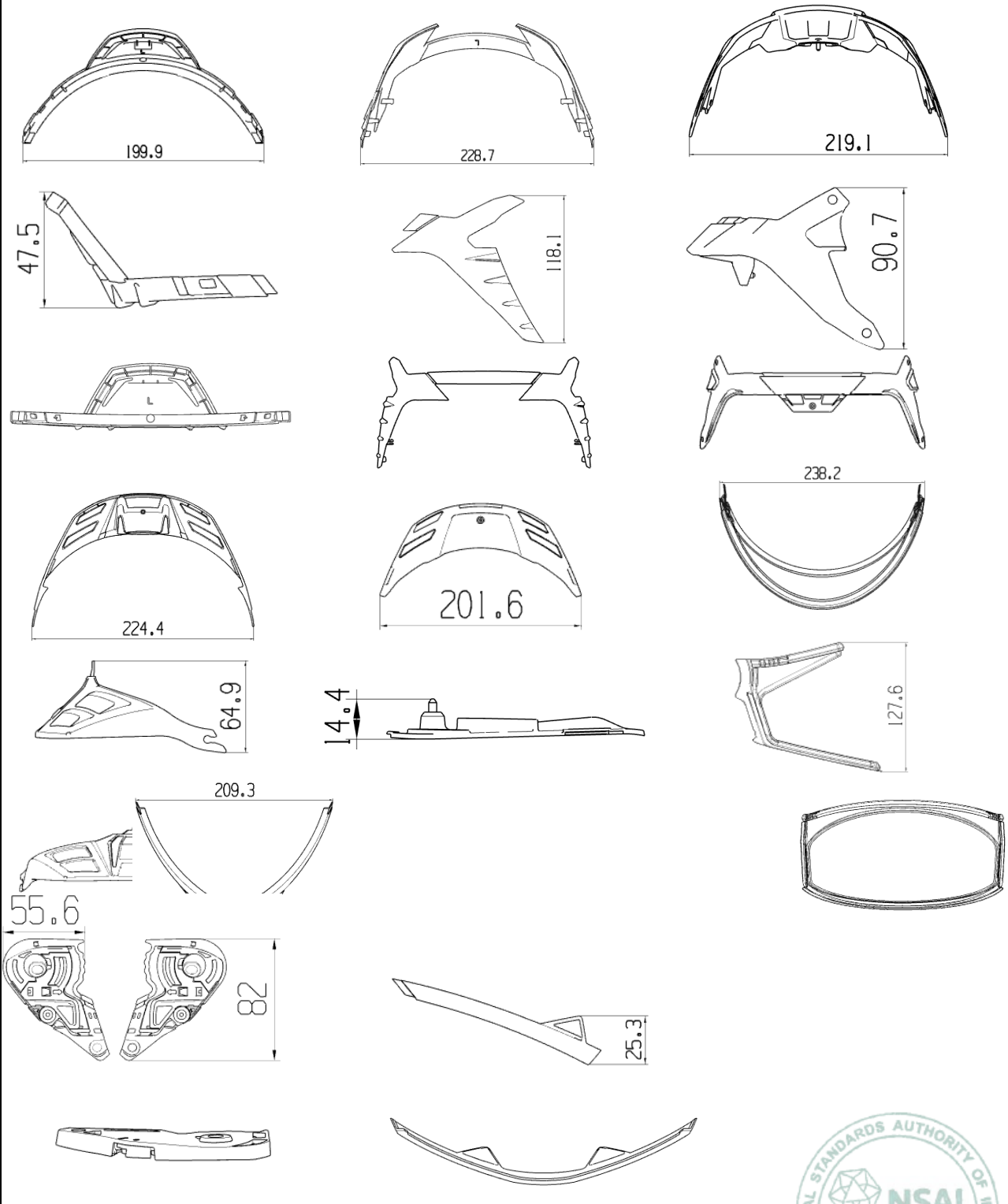
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Remark:the thickness of the visor is 2.0mm

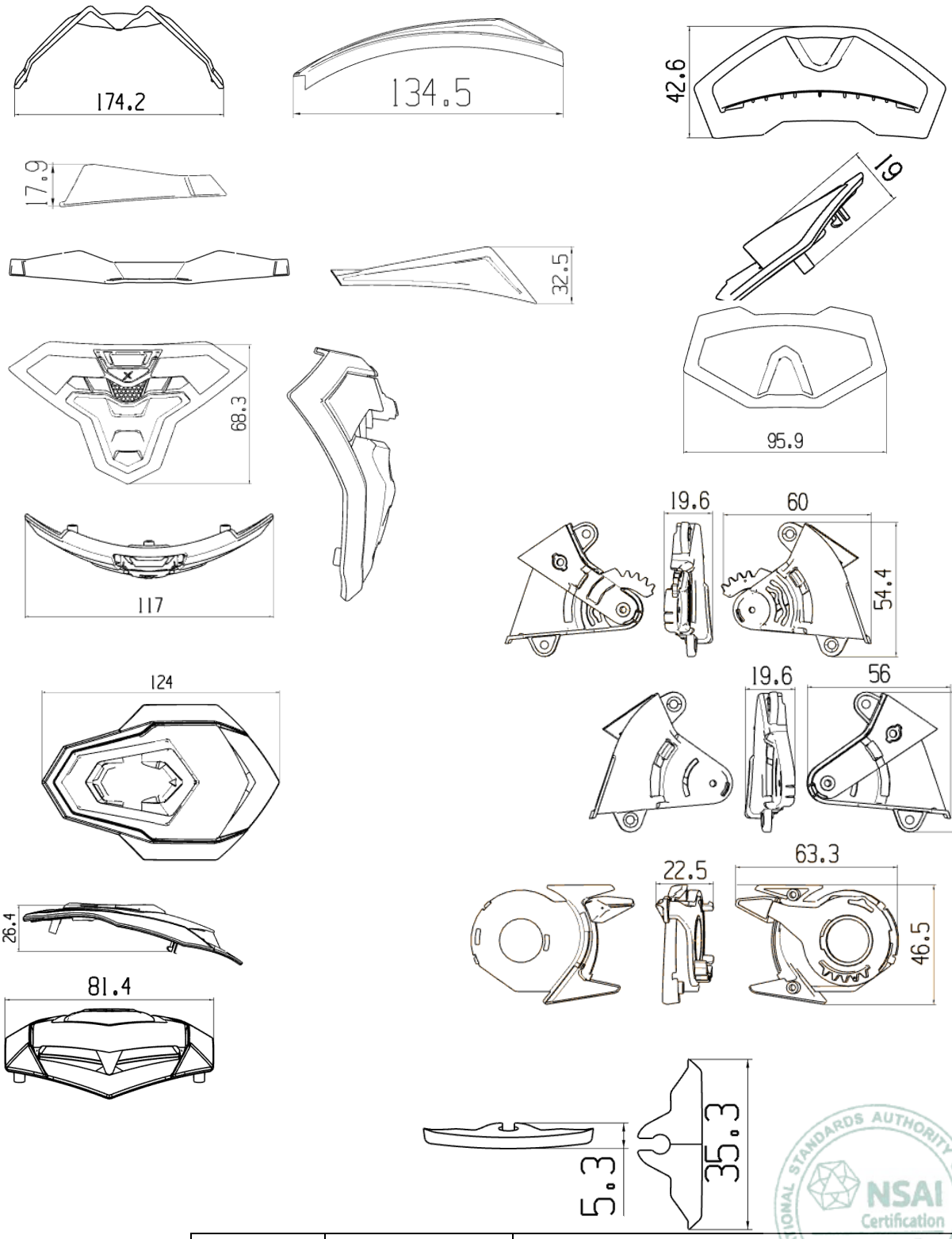
DRW.	**BRUTALE-08**	**Drawing and details for inner visor**

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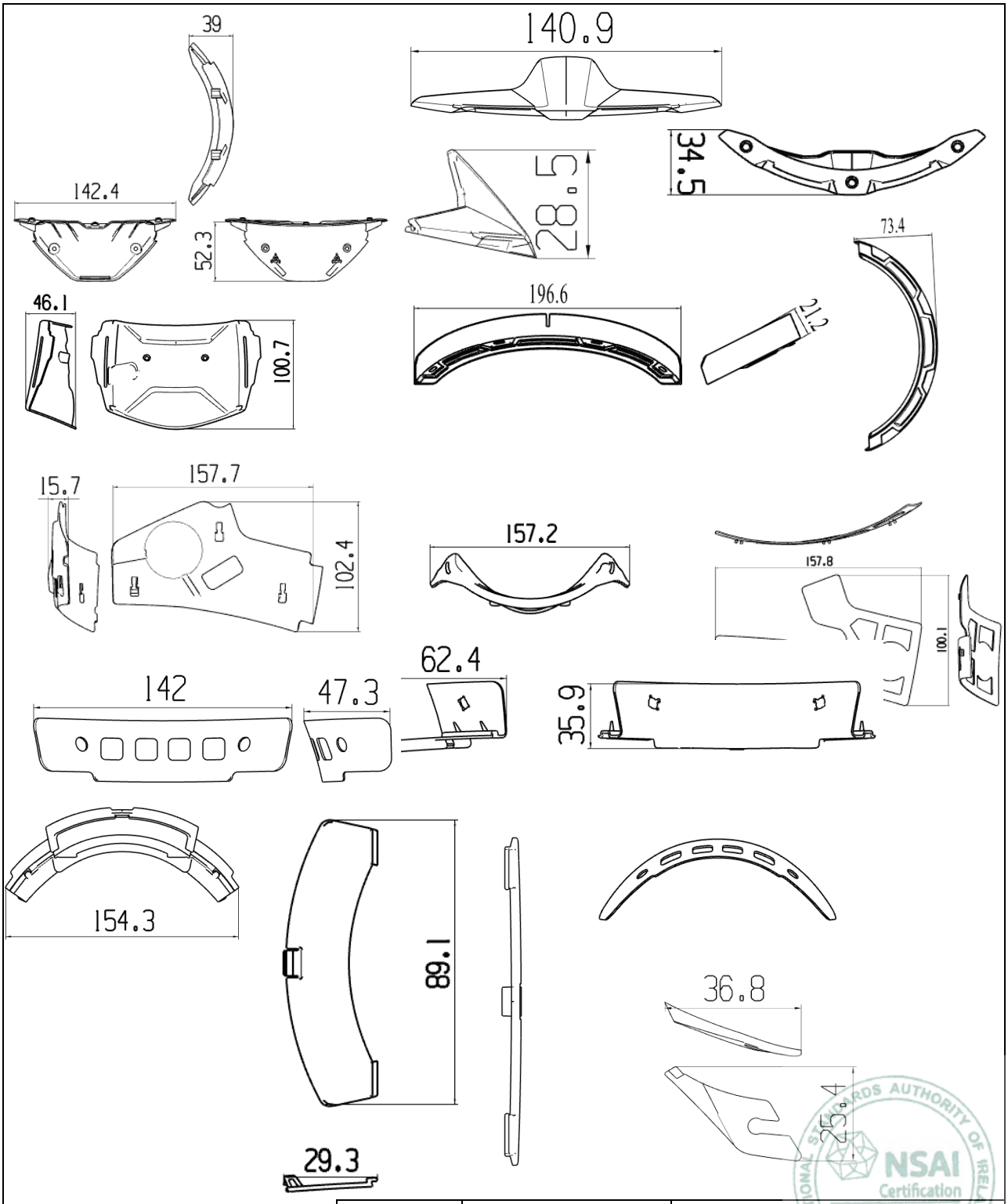


DRW.	**BRUTALE-09**	**Accessories**

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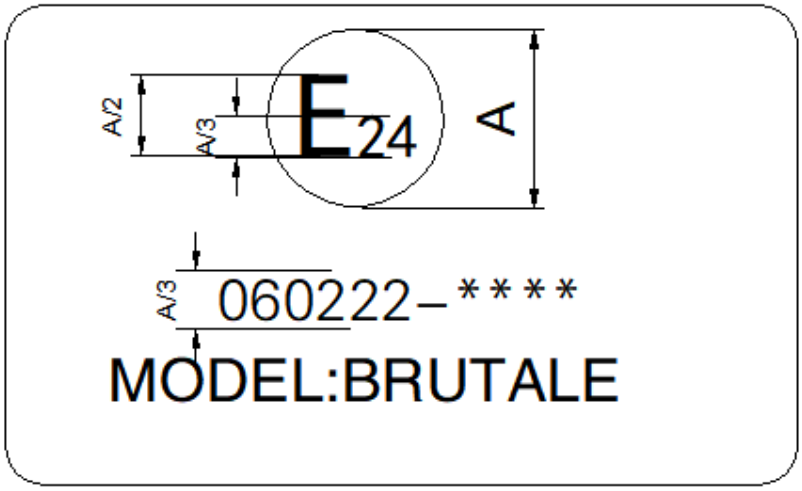


DRW.	**BRUTALE-09**	**Accessories**



DRW.	**BRUTALE-09**	**Accessories**

	Type	BRUTALE
	Page	20 of 22



A=8

HELMET TYPE: BRUTALE
COLOR OF LABEL:WHITE
COLOR OF PRINT:BLACK
MATERIAL OF LABEL:Teffeta

DRW.	**BRUTALE-10**	**Approval marking(s)**

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DRW.	**BRUTALE-11**	**Helmet assembly pictures**

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