Vehicle Certification Agency

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE ~~APPROVAL GRANTED~~ (1) / APPROVAL EXTENDED (1)/ ~~APPROVAL REFUSED~~ (1) / ~~APPROVAL WITHDRAWN~~ (1) / ~~PRODUCTION DEFINITIVELY DISCONTINUED~~ (1) OF A TYPE OF PROTECTIVE HELMET ~~WITHOUT~~ / WITH (1) ONE / ~~MORE~~ (1) SPECIFIC ACCESSORY TYPE(S) PURSUANT TO UN REGULATION NO. 22.06

E11 Approval No: E11*22R06/02*0993*01

Reason for extension:
- Modification of shell material description
- Modification of the subject “ACCESSORIES” to “ADDITIONAL FEATURES”
- Addition of a specific accessory type which can be fitted
- Modification of General View of the Helmet
- Addition of general view and drawing of the specific accessory
- Change of the retention system description

1. Trade mark: SCORPIONEXO, SCORPION EXO, SCORPION-EXO, SCORPION

2. Type: EXO-GT SP AIR

3. Sizes: XXXL, XXL, XL, L, M, S, XS

4. Manufacturer's name: KIDO SPORTS CO., LTD.

5. Address:
395
Gonghang-daero
Gangseo-gu
Seoul, 07590
Republic of Korea

6. If applicable, name of manufacturer's representative: Not applicable

7. Address: Not applicable

UK Approval Authority Vehicle Certification Agency
30-Oct-24

8. Brief description of helmet: Full face helmet with one visor type, one sun shield and one specific accessory type

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)~~ (1)

10. Type of visor or visors: KDF-F-03 CLEAR (E11 060994)

11. Brief description of visor or visors, and inner visor if any: Clear visor made of polycarbonate (PC) with anti-scratch coating, inner fitted anti-fog lens and 2.5 mm thickness

12. Helmet ready for specific accessory (SA) / ~~ready for universal accessories (UA)~~ (1)

13. Accessories included in the helmet homologation and functionality:
LINK-(C) (E11 062115) / Bluetooth system

14. If UA helmet, speakers (S or S45) / Microphone (M) / Front mounting (F) / Side mounting (L), Rear mounting (R) (1): Not applicable

15. Submitted for approval on: As before (21 November 2023) and 07 October 2024

16. Technical service responsible for conducting approval tests: Vehicle Certification Agency

17. Date of report issued by that service: As before (21 and 22 November 2023) and 08 October 2024

18. Number of report issued by that service: As before (KSB606163 (0993/P), KSB606163 (0993/P-SUN)) and VCA015387-2

19. Comments: None

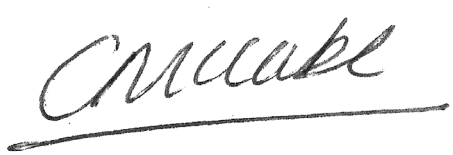
20. Approval ~~GRANTED~~ / EXTENDED / ~~REFUSED~~ / ~~WITHDRAWN~~ (1)

21. Place: BRISTOL

22. Date: 30 OCTOBER 2024

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

23. Signature:



C McCABE
Chief Technical and Statutory Operations Officer

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

(1) Strike out what does not apply

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

Vehicle Certification Agency

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: E11*22R06/02*0993*01

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: 00

Conformity of Production (COP) Declaration	**COP Confirmed**	
Assessment Method	**Compliance Statement**	
Date of Initial Clearance	**April**	**2023**
Date of Last Clearance	**August**	**2024**

Total number of sheets: 25 (Twenty-five)

Reasons for Revision: See approval certificate

Revision Date
&
Office Stamp

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS

INDEX OF DOCUMENTATION

No	Concept	Page
1	GENERAL INFORMATION	2
2	DESCRIPTION OF THE HELMET	3
3	SHELL	3
4	RETENTION SYSTEM	4
5	PROTECTIVE PADDING	4
6	COMFORT PADDING	5
7	VISOR	5
8	SUN SHIELD	6
9	***SPECIFIC ACCESSORY #***	***7 #***
10	***ADDITIONAL FEATURES #***	***7 #***
11	***GENERAL VIEW OF THE HELMET #***	***8 #***
12	***GENERAL VIEW OF THE SPECIFIC ACCESSORY #***	***9 #***
13	DRAWING OF THE SHELL (Medium size)	10
14	DRAWING OF THE SHELL (Large size)	11
15	DRAWING OF THE SHELL (X-Large size)	12
16	DRAWING OF THE PROTECTIVE PADDING (Top, Medium size)	13
17	DRAWING OF THE PROTECTIVE PADDING (Top, Large size)	13
18	DRAWING OF THE PROTECTIVE PADDING (Top, X-Large size)	14
19	DRAWING OF THE PROTECTIVE PADDING (Bottom, Medium size)	15
20	DRAWING OF THE PROTECTIVE PADDING (Bottom, Large size)	16
21	DRAWING OF THE PROTECTIVE PADDING (Bottom, X-Large size)	17
22	DRAWING OF THE PROTECTIVE PADDING (Chin, Medium size)	18
23	DRAWING OF THE PROTECTIVE PADDING (Chin, Large size)	19
24	DRAWING OF THE PROTECTIVE PADDING (Chin, X-Large size)	20
25	DRAWING OF THE RETENTION SYSTEM (Double D-ring)	21
26	DRAWING OF THE VISOR (KDS-F-03)	22,23
27	DRAWING OF THE SUN SHIELD (KS-F-03)	24
28	***DRAWING OF THE SPECIFIC ACCESSORY (LINK-1(C)) #***	***25 #***

Reason(s) for extension :
- Modification of shell material description
- Modification of the subject "ACCESSORIES" to "ADDITIONAL FEATURES"
- Addition of a specific accessory type which can be fitted
- Modification of General View of the Helmet
- Addition of general view and drawing of the specific accessory
- Change of the retention system description

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

1. GENERAL INFORMATION

1.1. Trade mark :

SCORPIONEXO, SCORPION EXO, SCORPION-EXO, SCORPION

1.2. Type :

EXO-GT SP AIR

1.3. Commercial Name :

EXO-GT SP II AIR, EXO-GT SP II, EXO-GT SP, EXO-GT AIR, EXO-GT, EXO-GT SP 2 AIR, EXO-GT SP 2, EXO-ECLIPSE II AIR, EXO-ECLIPSE II, EXO- ECLIPSE AIR, EXO- ECLIPSE II, ECLIPSE AIR, EXO- ECLIPSE, ECLIPSE, EXO- ECLIPSE 2 AIR, EXO- ECLIPSE 2, ECLIPSE 2

1.4. Variants / Versions :

N/A

1.5. Name and address of manufacturer:

KIDO SPORTS CO., LTD.
395, Gonghang-daero, Gangseo-gu, Seoul, 07590,
Republic of Korea

1.6. Name(s) and address(es) of assembly plant(s) :

Qingdao Geosong Sports Product CO., LTD.
17, Wenhua-road, Jimo-qu, Qingdao, 266200, China

KIDO SPORTS VINA CO., LTD.
Lot CN06, Phu Ha Industrial zone, Ha Thach communes,
Phu Tho Town, Phu Tho Province, 35900, Vietnam

1.7. Location and method of affixing of the international approval mark :

Marked in a label sewn to the retention system

1.8. Number of visors which can be fitted :

One visor, see Annex ***26 #*** for brief description of the visor

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

2. DESCRIPTION OF THE HELMET

2.1. Type of helmet :
Full-face helmet

2.2. Type of lower face cover :
"P" with protective lower face cover

2.3. Sizes :
Medium Shell : XS (53~54), S (55~56), M (57~58)
Large Shell : L (59~60)
X-Large Shell : XL (61~62), XXL (63~64), XXXL (65~66)

2.4. Weight (Shell weight + Protective padding weight)

SIZE	XS	S	M	L	XL	XXL	XXXL
WEIGHT	550g±50g			610g±50g	660g±50g		

3. SHELL

3.1. Material :
FRP (Fiber ***Reinforced #*** Plastic)

3.2. Composition of the border join on the shell :
PVC (70%) Gasket

3.3. Ventilation :

3.3.1. Number of ventilations :
2

3.3.2. Positioning on the shell :
Front of Crown (Crown)
Chinguard(Centre)

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

4. RETENTION SYSTEM

4.1. Chin strap

4.1.1. Material :
Nylon webbing

4.1.2. Width :
24mm (Double D-ring)

4.2. Comfort padding of the retention system :
Made of polyester

4.3. Composition :
Comfort padding & Double D-ring

4.4. Thickness :
3.5±0.1 mm

4.5. Fixing system to the shell :
Rivet

5. PROTECTIVE PADDING

5.1. Composition :

	M Density (g/l)	L Density (g/l)	XL Density (g/l)
TOP	32±3	34±3	34±3
BOTTOM	42±3	46±3	50±3
CHIN	67±3	67±3	76±3

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

6. COMFORT PADDING

6.1. Composition of :

Comfort padding	:	Sponge
Comfort tissue	:	Polyester
Protection of the back of the neck	:	Polyurethane

7. VISOR

7.1. Trade mark :
SCORPIONEXO, SCORPION-EXO, SCORPION EXO, SCORPION

7.2. Type:
KDS-F-03 CLEAR

7.3. Name and address of manufacturer :
KIDO SPORTS Co., LTD.
395, Gonghang-daero, Gangseo-gu, Seoul, 07590,
Republic of Korea

7.4. Material :
Poly Carbonate

7.5. Surface treatment
Anti-scratch

7.6. Colour :
Clear

7.7. Manufacturing method :
Injection moulding

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

7.8. Transmittance :
Above 80%

8. SUN SHIELD

8.1. Trade mark :
SCORPIONEXO

8.2. Type :
KS-F-03

8.3. Name and address of manufacturer :
KIDO SPORTS Co., LTD.
395, Gonghang-daero, Gangseo-gu, Seoul, 07590,
Republic of Korea

8.4. Material :
Poly Carbonate

8.5. Surface treatment
Anti-Fog

8.6. Colour :
Smoke

8.7. Manufacturing method :
Injection moulding

8.8. Transmittance :
Above 20%

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

9. SPECIFIC ACCESSORY

9.1. Trade mark :
SCORPIONEXO

9.2. Type :
LINK-1(C)

9.3. Name and address of manufacturer :
KIDO SPORTS Co., LTD.
395, Gonghang-daero, Gangseo-gu, Seoul, 07590,
Republic of Korea

9.4. Material :
PC/ABS

9.5. Weight :
100 ± 10g

9.6. Means of attachment :
Clamped to the helmet

9.7. Composition :
Speaker, Microphone, Bluetooth Intercom

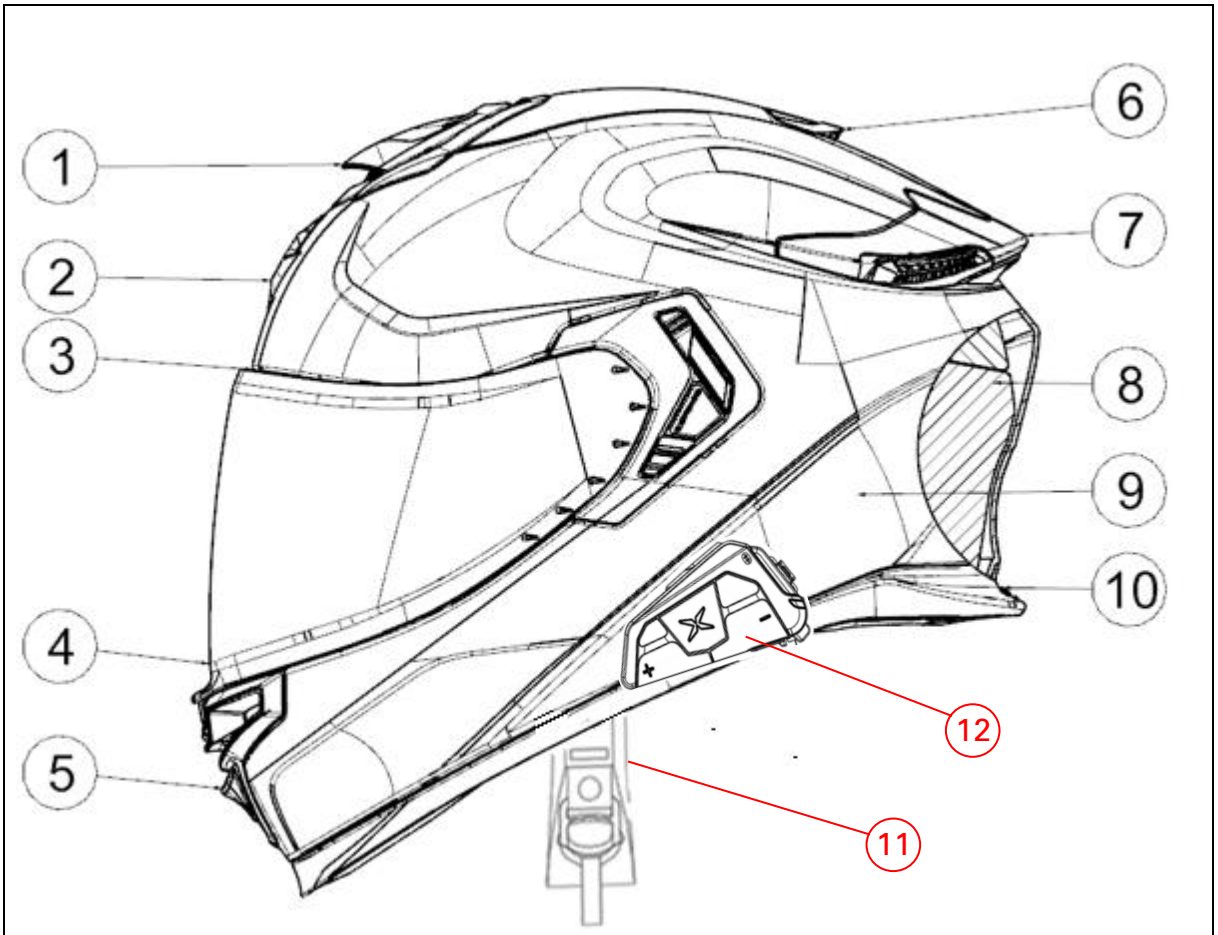
10. ADDITIONAL FEATURES

10.1. Peak :
N/A

10.2. User instructions
Location :
In the retail helmet box

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

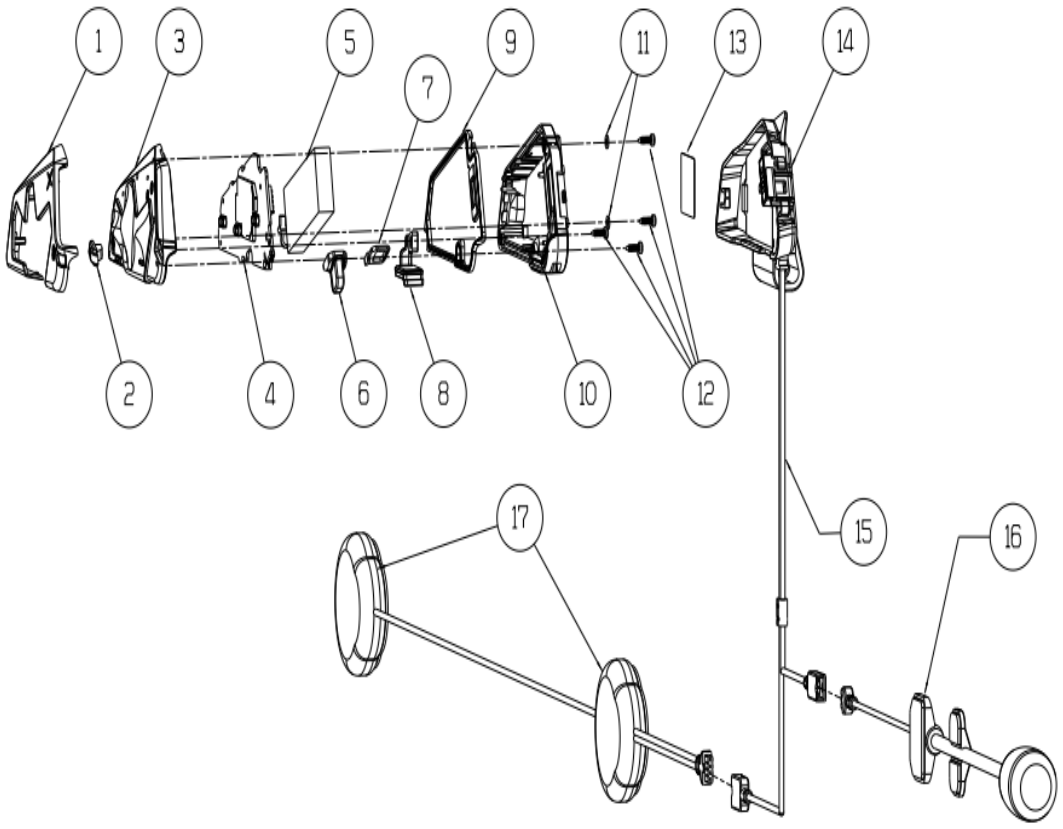
11. *GENERAL VIEW OF THE HELMET #*



11	Double D-Ring Buckle	Titanium	1						
10	Lower Gasket	PVC	1						
9	Shell	FRP	1						
8	EPS Liner	Polystyrene	1						
7	Rear Vent	ABS/PC	1						
6	Exhaust Vent	ABS/PC	1						
5	Mouth Vent	ABS/PC	1						
4	Visor	PC	1						
3	Eyeport Gasket	PVC	1						
2	Front LOGO	ABS	1						
1	Top Vent	ABS/PC	1		*12 #*	*Bluetooth #*	*PC/ABS #*	*1 #*	
NO	**Part**	**Material**	**Q'ty**	**Remark**	**NO**	**Part**	**Material**	**Q'ty**	**Remark**

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

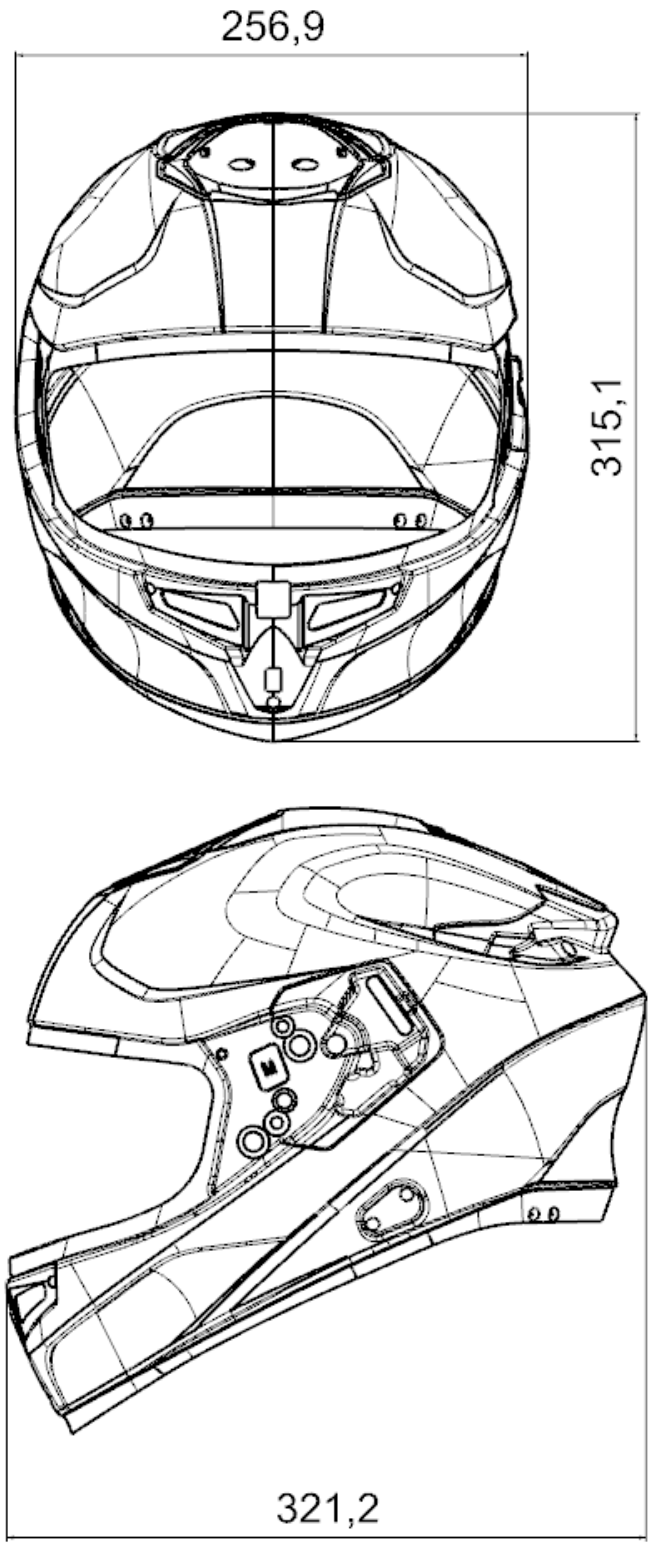
12. *GENERAL VIEW OF THE SPECIFIC ACCESSORY #*



10	Rear Cover	SIL/PC	1						
9	Waterproof Gasket	Silicone	1						
8	USB Rubber Cap	TPE	1						
7	BT Button Holder	PC	1		17	Speaker		1	
6	BT Button	Silicone	1		16	Mic		1	
5	Battery		1		15	Cable Main		1	
4	Main PCB Assy		1		14	Clamp Unit		1	
3	Front Cover	PC	1		13	Product Label		1	
2	Light Conductor	PC	1		12	Cover Screw		4	
1	Front Deco	PC/ABS	1		11	O Ring	Silicone	2	
NO	**Part**	**Material**	**Q'ty**	**Remark**	**NO**	**Part**	**Material**	**Q'ty**	**Remark**

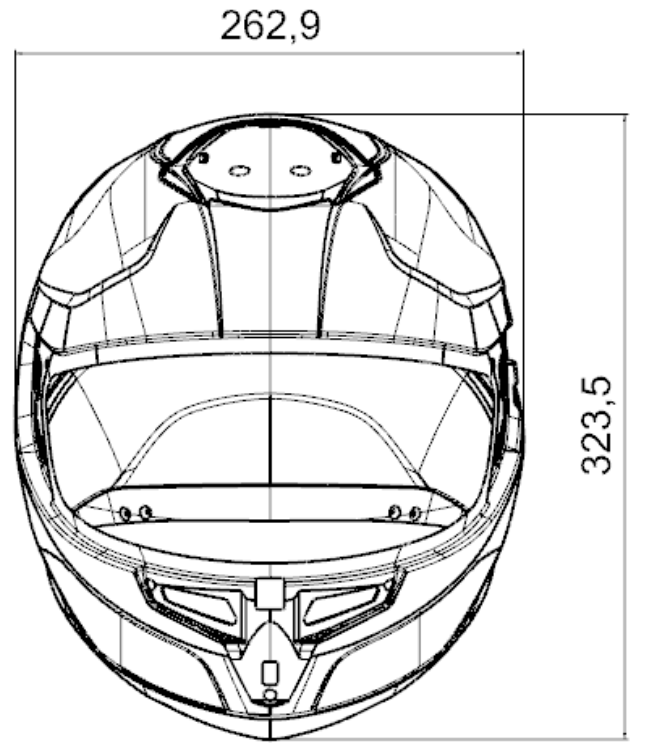
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

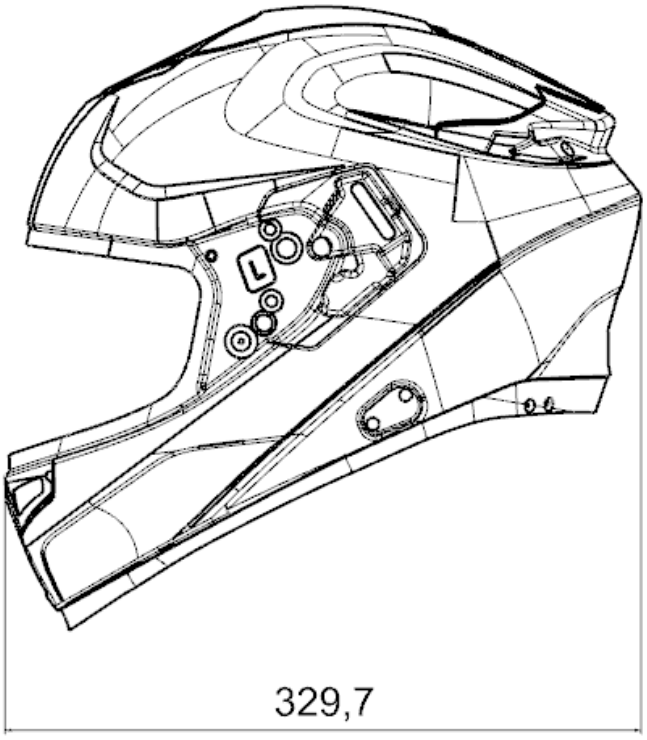
13. DRAWING OF THE SHELL (Medium size)



UK Approval Authority | Vehicle Certification Agency
30-Oct-24

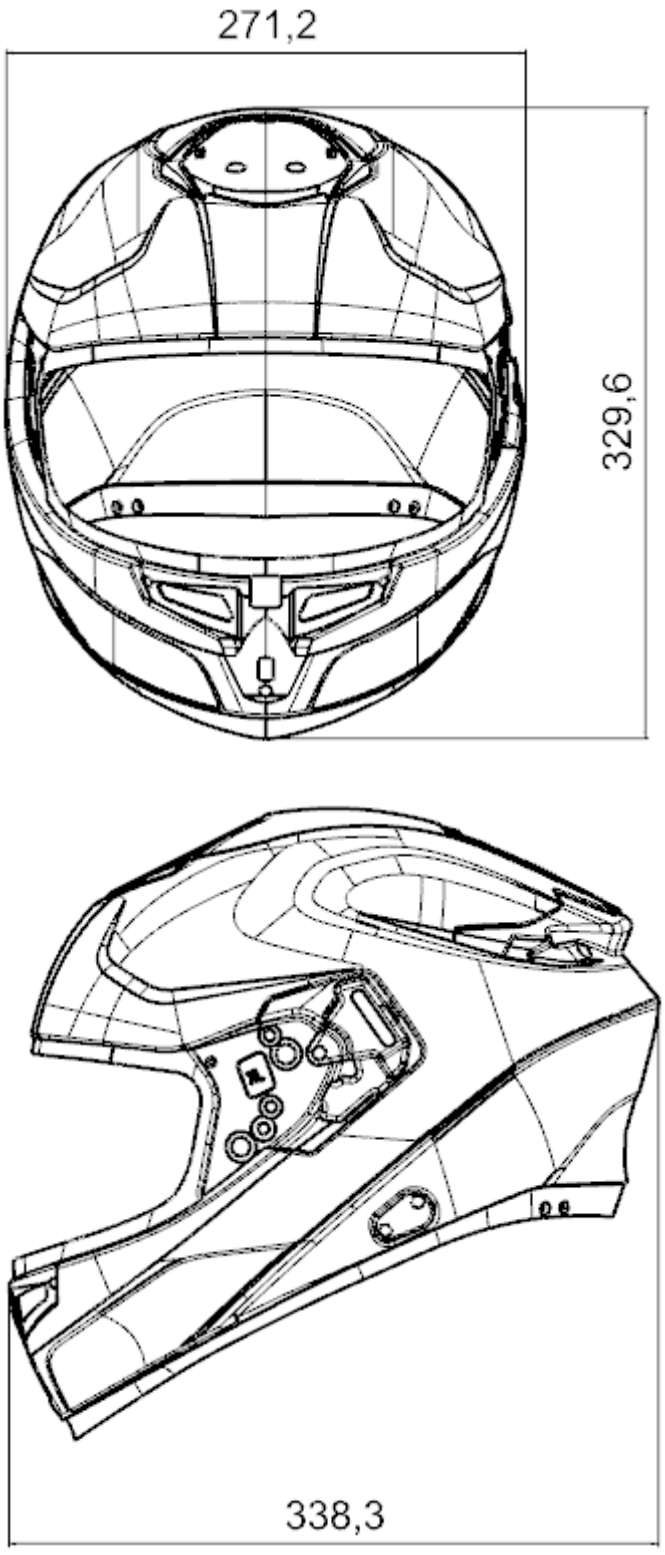
14. DRAWING OF THE SHELL (Large size)





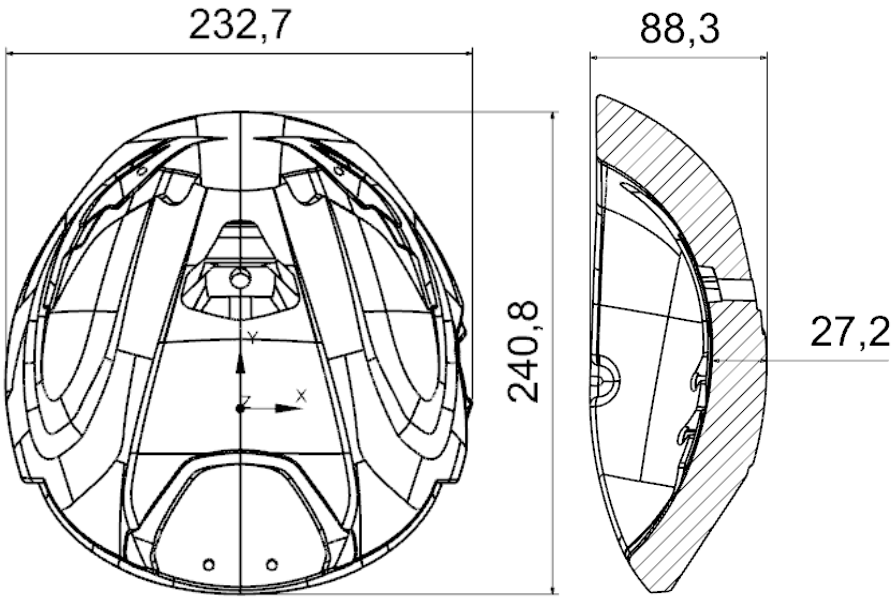
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

15. DRAWING OF THE SHELL (X-Large size)

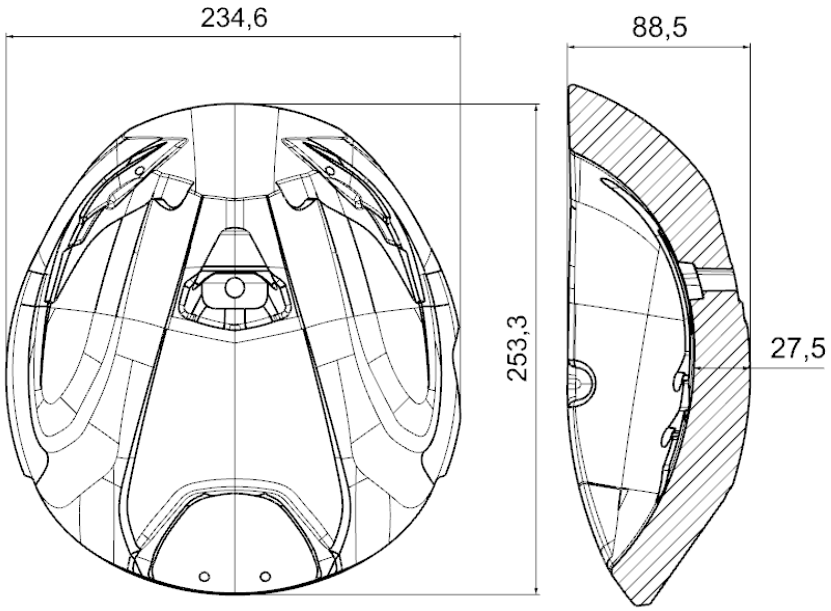


UK Approval Authority | Vehicle Certification Agency
30-Oct-24

16. DRAWING OF THE PROTECTIVE PADDING (Top, Medium size)

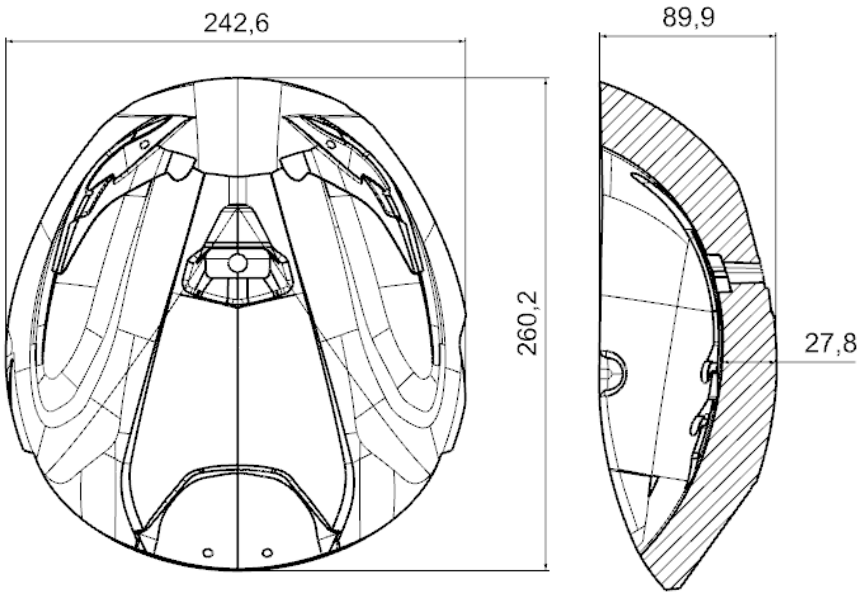


17. DRAWING OF THE PROTECTIVE PADDING (Top, Large size)



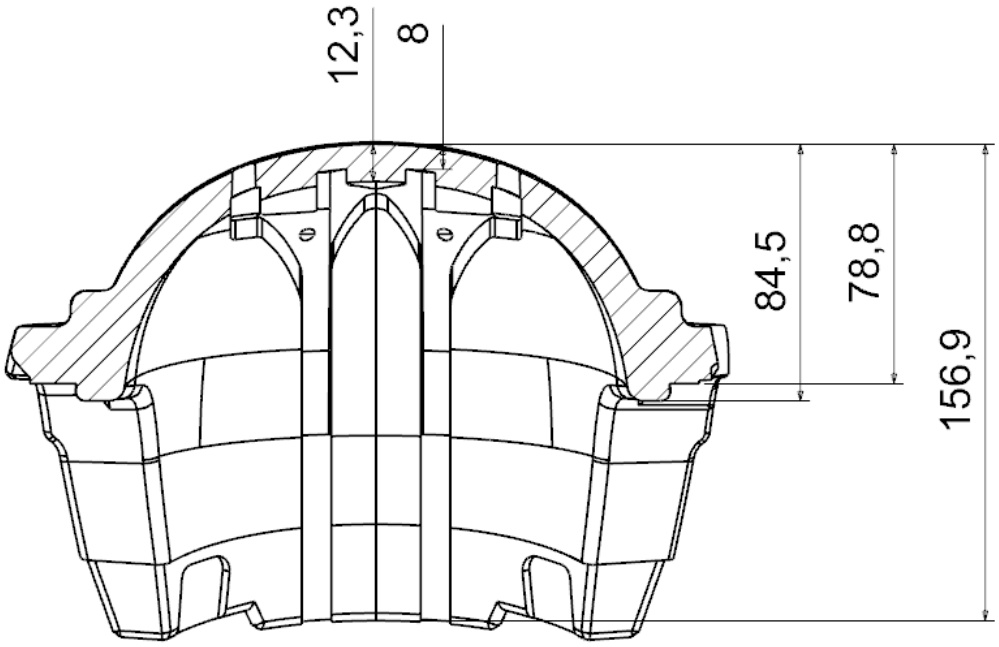
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

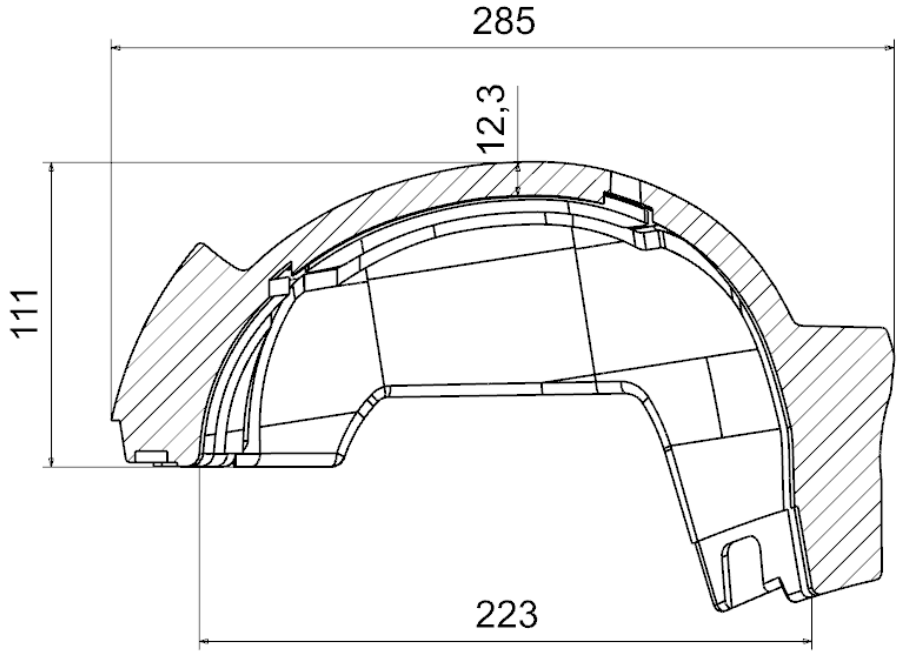
18. DRAWING OF THE PROTECTIVE PADDING (Top, X-Large size)



UK Approval Authority | Vehicle Certification Agency
30-Oct-24

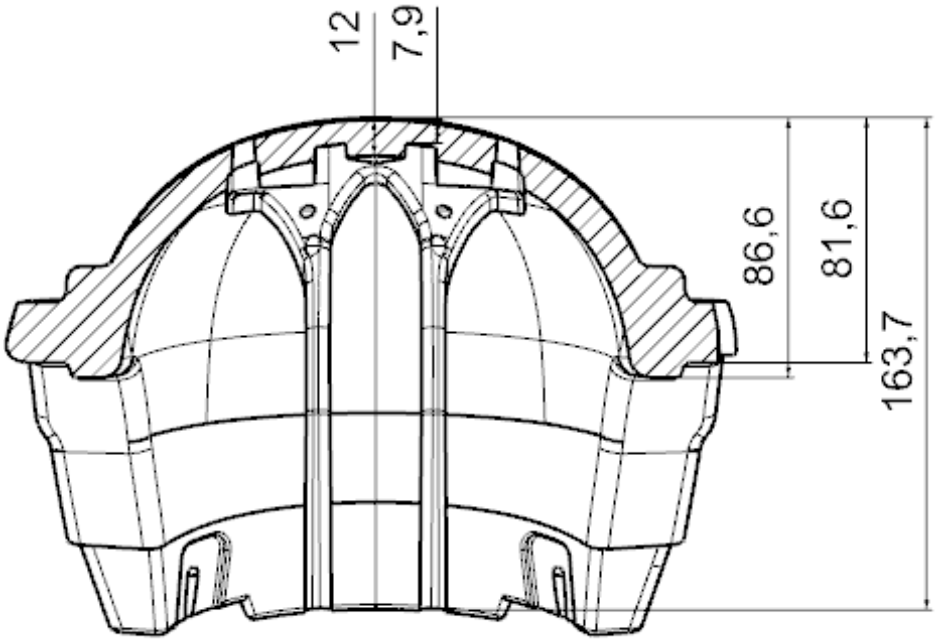
19. DRAWING OF THE PROTECTIVE PADDING (Bottom, Medium size)

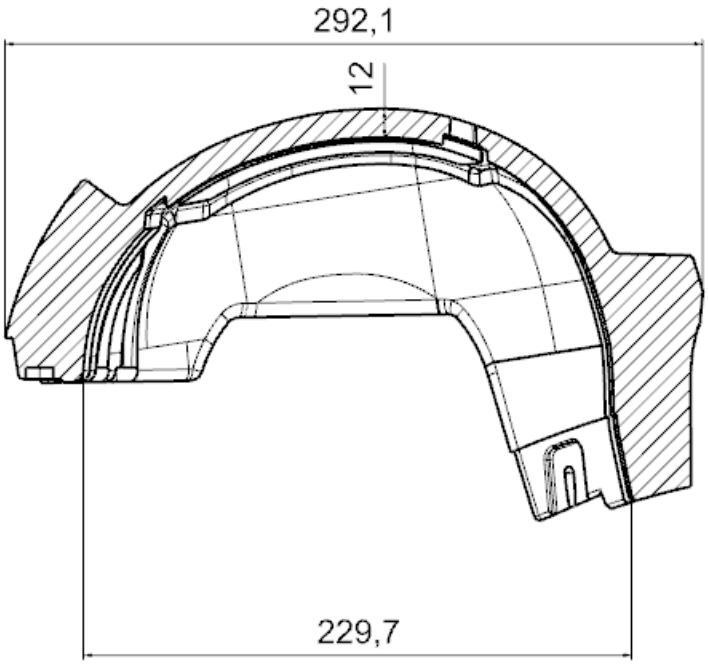




UK Approval Authority | Vehicle Certification Agency
30-Oct-24

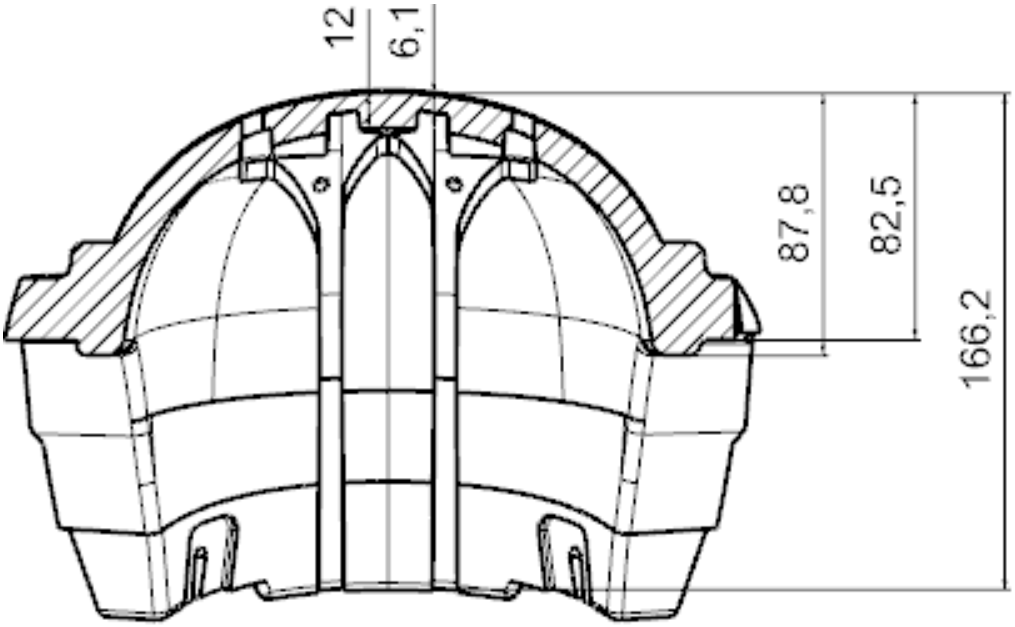
20. DRAWING OF THE PROTECTIVE PADDING (Bottom, Large size)

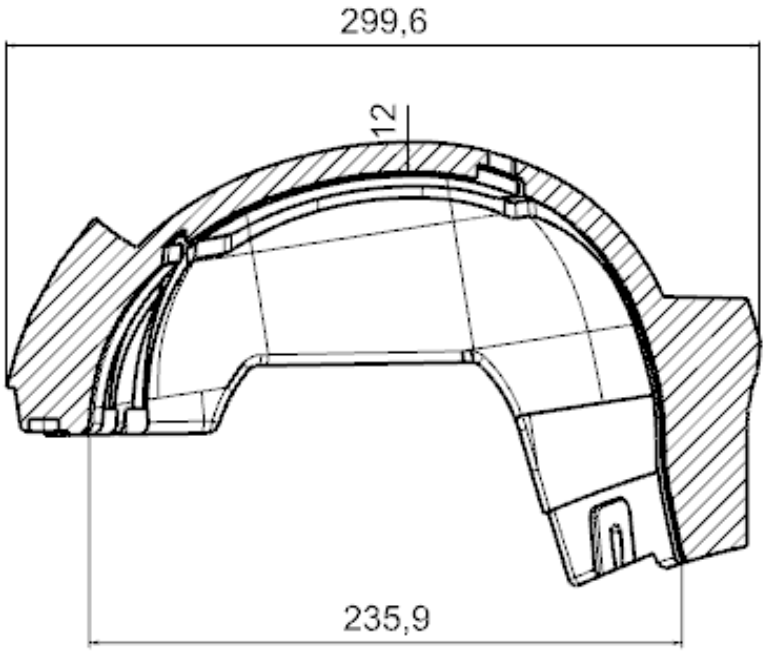




UK Approval Authority | Vehicle Certification Agency
30-Oct-24

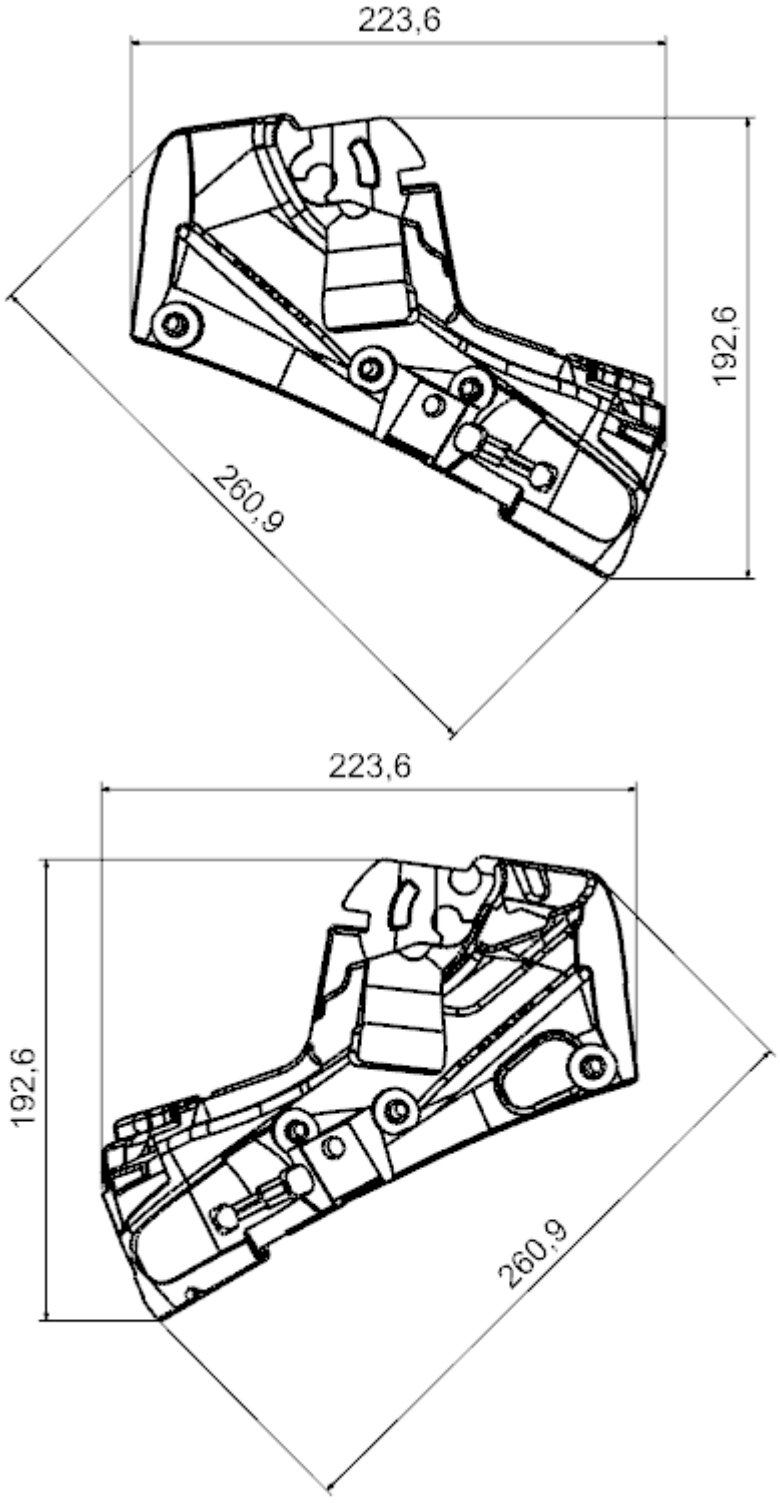
21. DRAWING OF THE PROTECTIVE PADDING (Bottom, X-Large size)





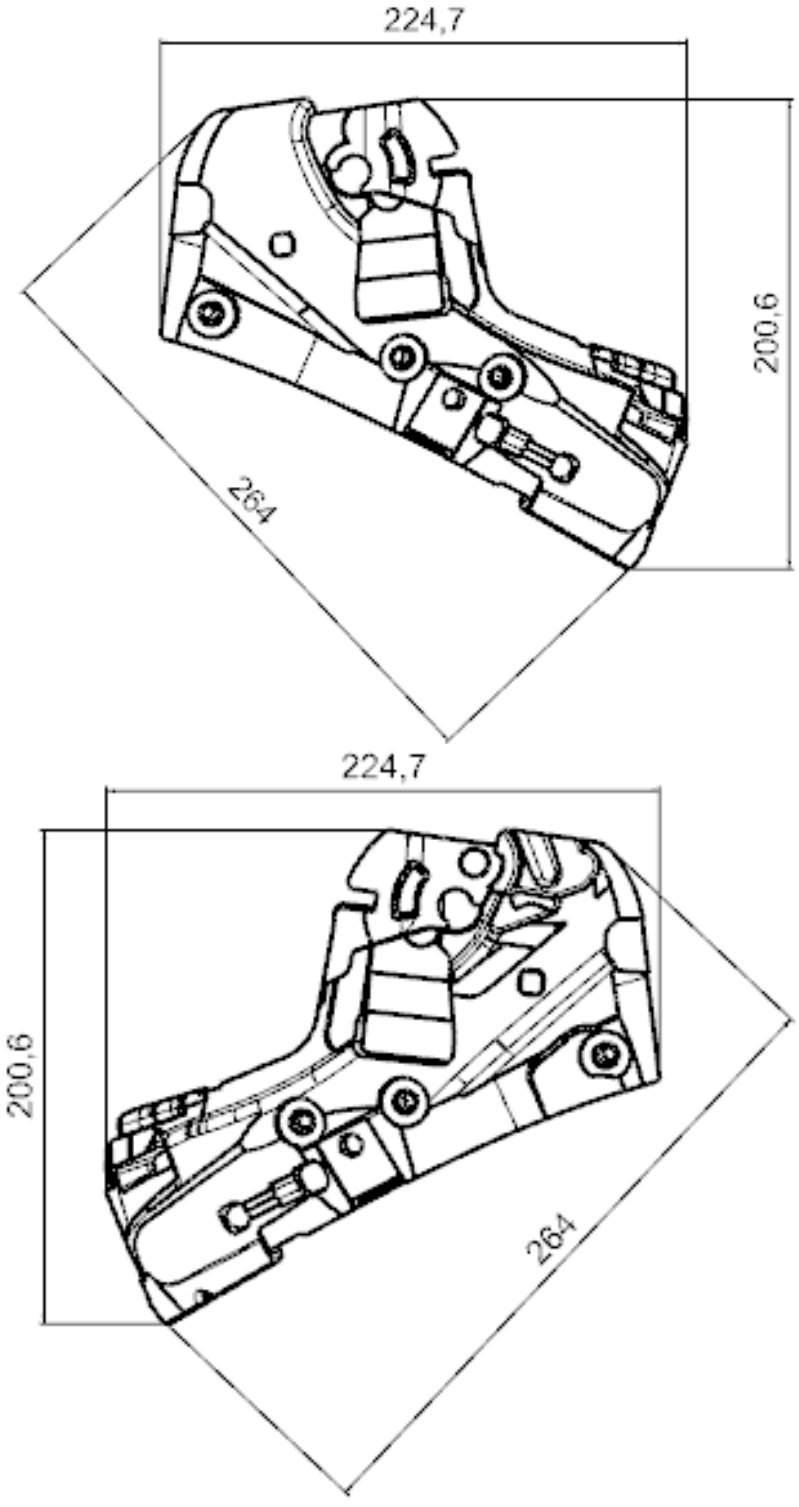
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

22. DRAWING OF THE PROTECTIVE PADDING (Chin, Medium size)



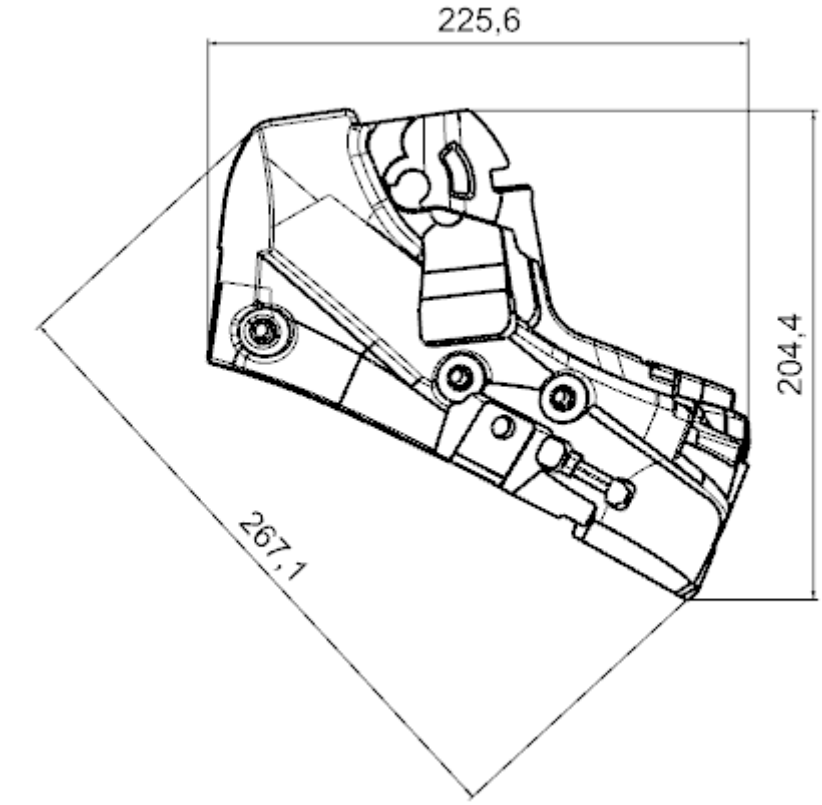
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

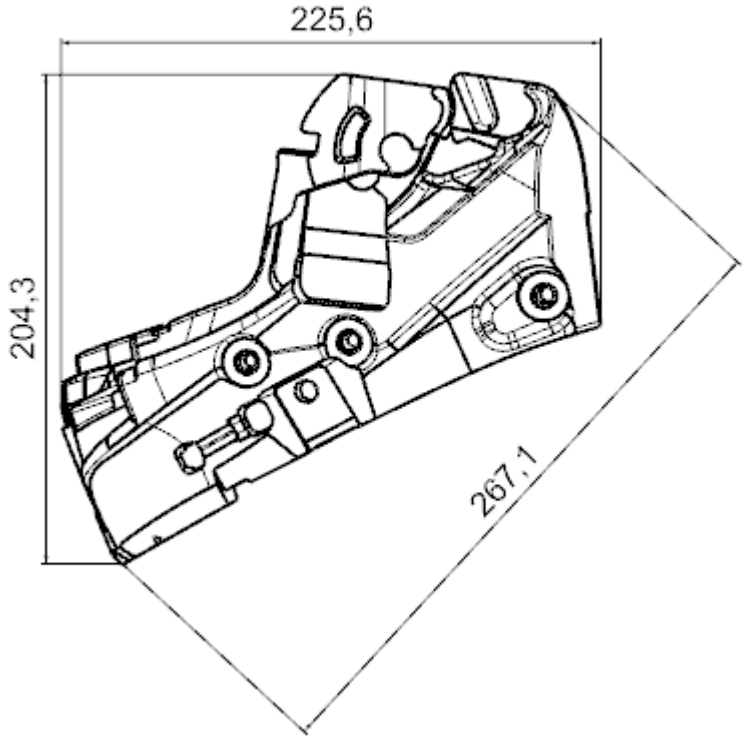
23. DRAWING OF THE PROTECTIVE PADDING (Chin, Large size)



UK Approval Authority | Vehicle Certification Agency
30-Oct-24

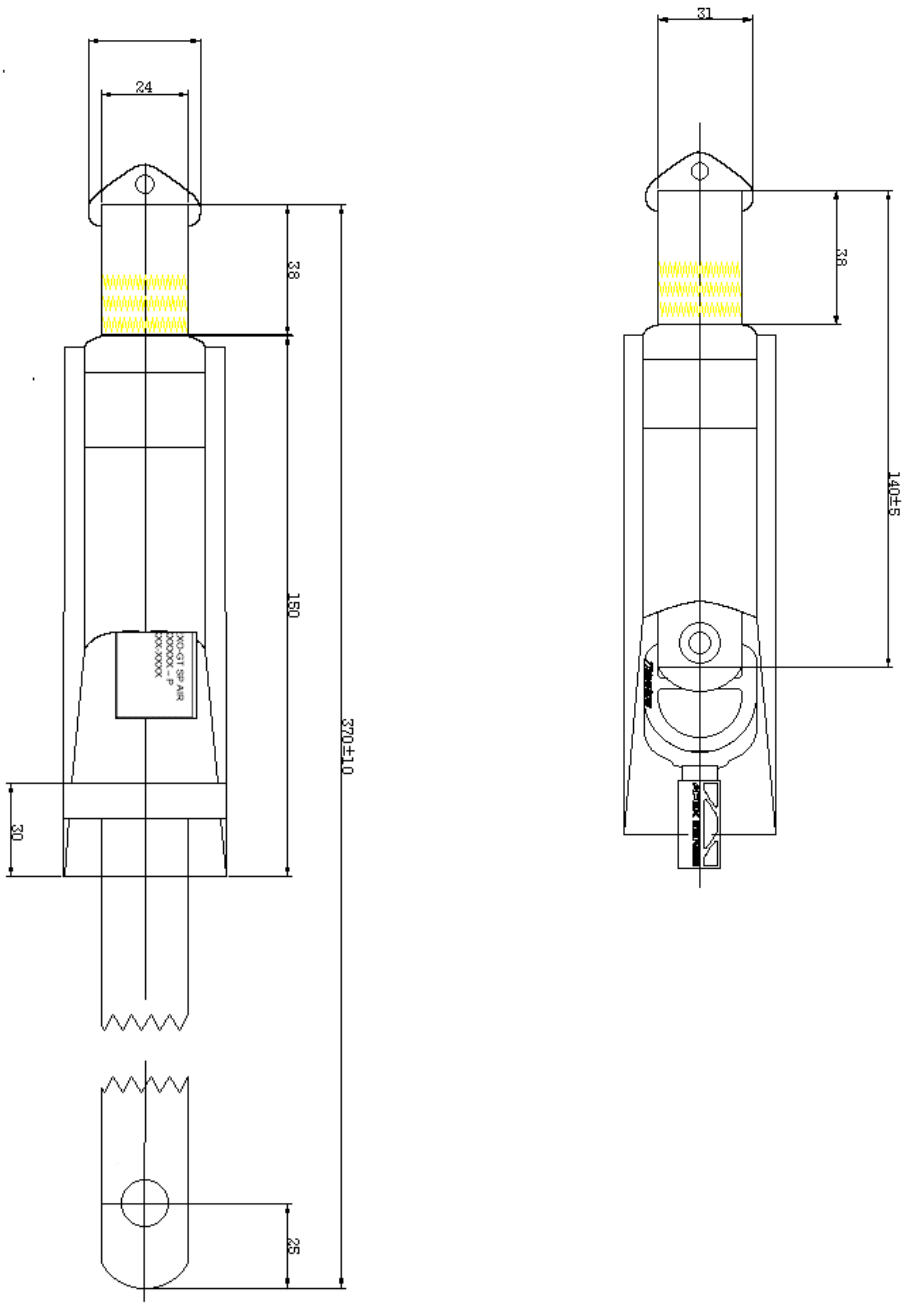
24. DRAWING OF THE PROTECTIVE PADDING (Chin, X-Lage size)





UK Approval Authority | Vehicle Certification Agency
30-Oct-24

25. *DRAWING OF THE RETENTION SYSTEM (Double D-ring) #*

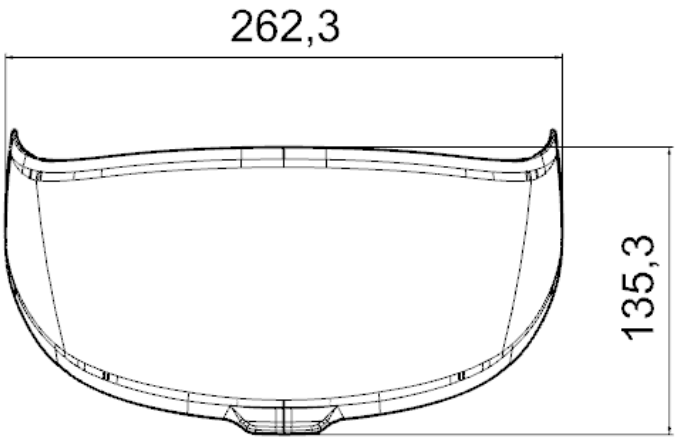


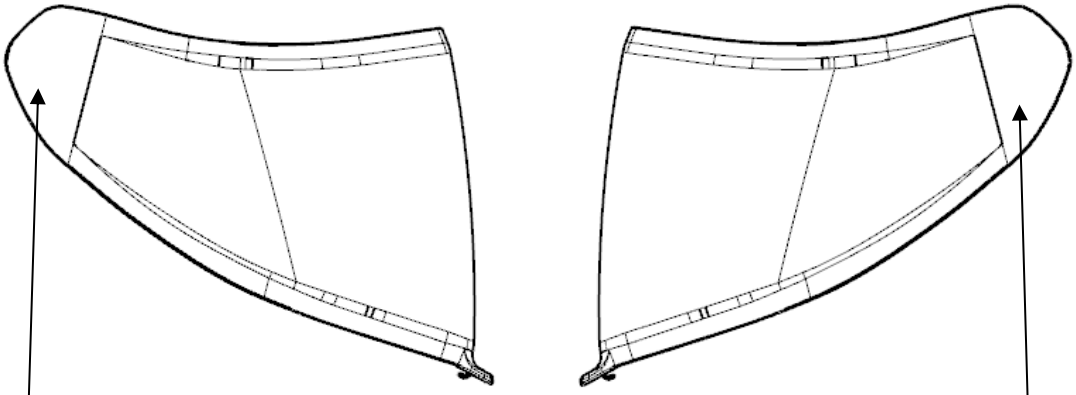
< XS – XXXL >

- ***Length-adjustable chin strap applied.***
- ***Logo of the buckle can be removed or changed by the product. #***

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

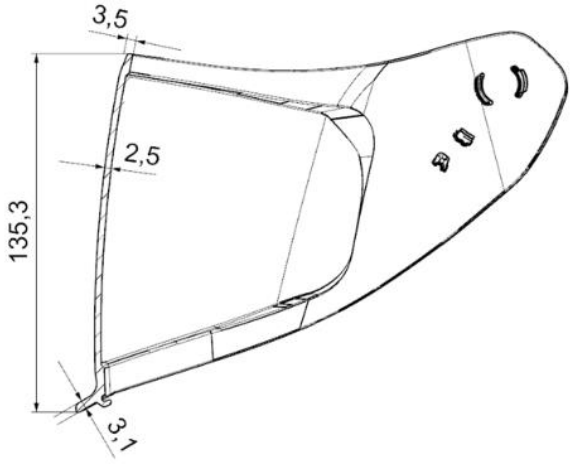
26. DRAWING OF THE VISOR (KDS-F-03)





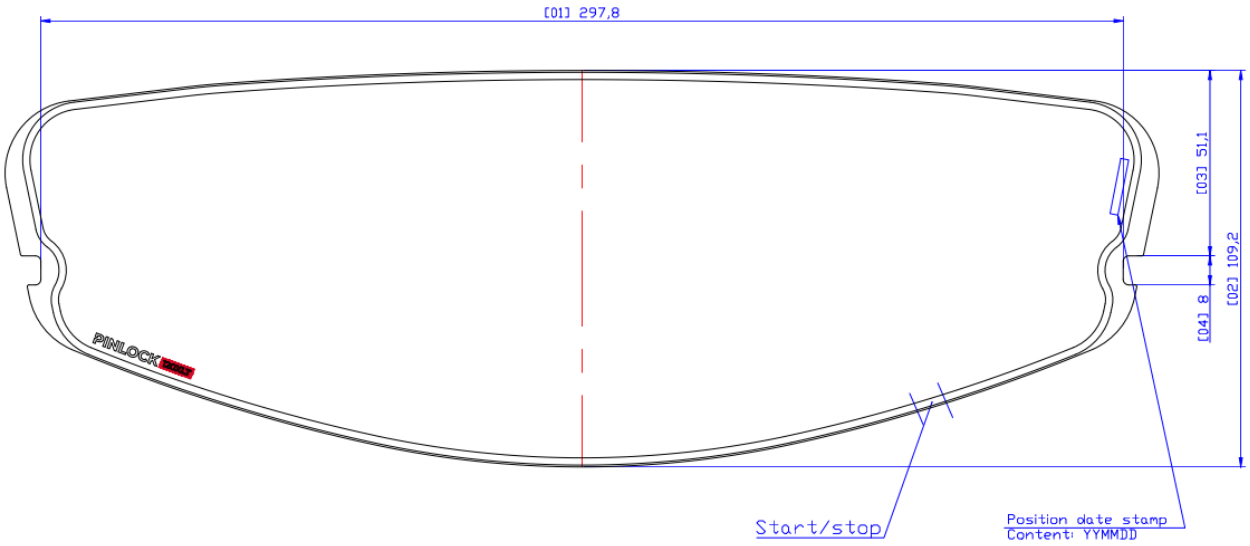
SCORPION EXO
MODEL: KDS-F-03
EXCEEDS VESC-8
NOT WARRANTED SHATTERPROOF
IF TINTED, FOR DAY TIME USE ONLY.

KDS-F-03
E11 060994 -
XXXXXXX



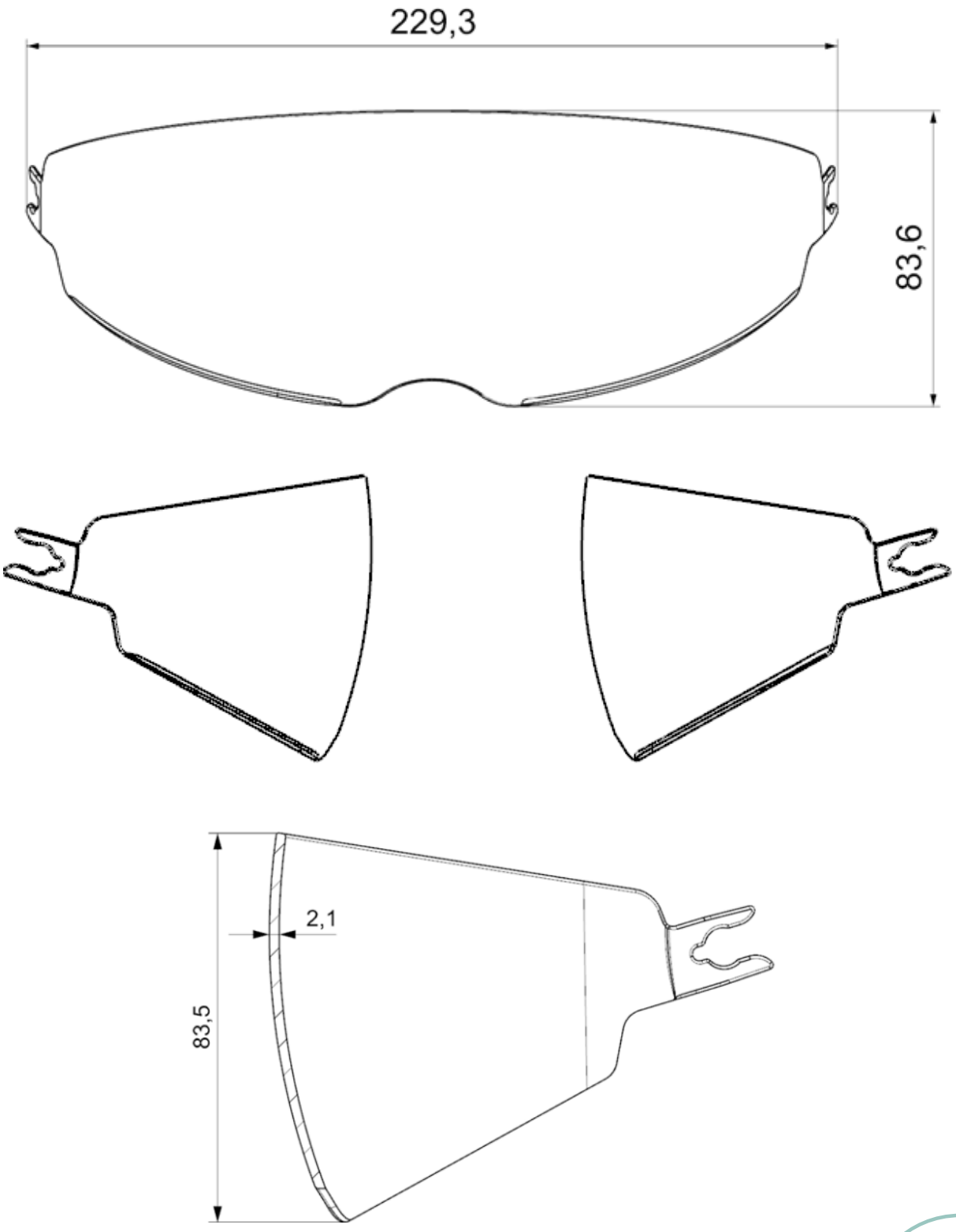
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

< ANTI-FOG LENS, DKS541>



UK Approval Authority
Vehicle Certification Agency
30-Oct-24

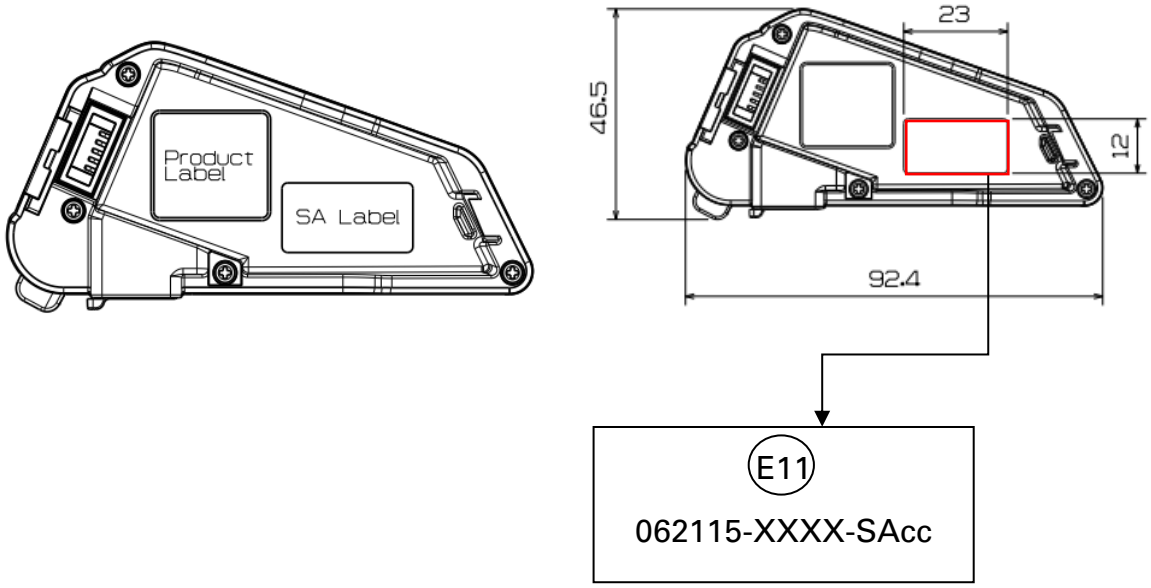
27. DRAWING OF THE SUN SHIELD (KS-F-03)



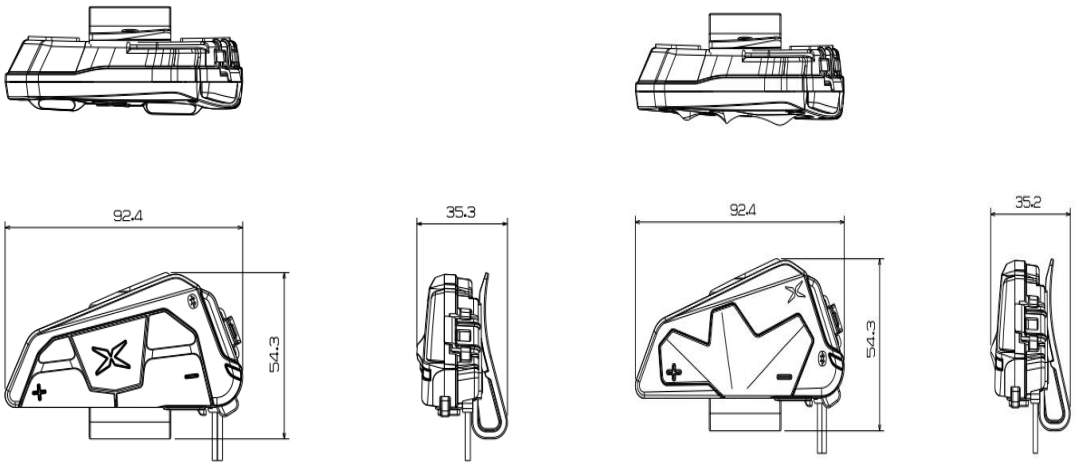
UK Approval Authority | Vehicle Certification Agency
30-Oct-24

28. DRAWING OF THE SPECIFIC ACCESSORY (LINK-1(C))

⑩ Rear Cover: Rear View



[LINK-1]



[LINK-1C]

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

Vehicle Certification Agency

VCA, 1 Eastgate Office Centre,
Eastgate Road, Bristol, BS5 6XX, United Kingdom
enquiries@vca.gov.uk |
www.vehicle-certification-agency.gov.uk

Report Number: VCA015387-2
Issue: 0

This test report shall not be reproduced except in full, without written approval of the technical service.

Inspection/Test Report: Protective Helmets and their Visors for Drivers and Passengers of Motorcycles and Mopeds

Legislation

UNECE Regulation 22.06 Consolidated to Supplement 2 (Revision 5 Amendment 2)

Inspection/Test Details

Location of Inspection/Test:	KIDO SPORTS VINA, Vietnam
Date(s) of Inspection/Test:	7 - 8 October 2024
VCA Representative(s):	Donghwa Woo
Engineers Home Office Location:	VCA Korea
Manufacturer's Representative(s):	Junbeom Park
Reason for Report:	Extension of Approval

Manufacturer Details

Name and Address:	KIDO SPORTS CO., LTD. 395 Gonghang-daero Gangseo-gu Seoul, 07590 Republic of Korea
Type:	EXO-GT SP AIR
Commercial Description:	EXO-GT SP II AIR, EXO-GT SP II, EXO-GT SP, EXO-GT AIR, EXO-GT, EXO-GT SP 2 AIR, EXO-GT SP 2, EXO-ECLIPSE II AIR, EXO-ECLIPSE II, EXO- ECLIPSE AIR, EXO- ECLIPSE II, ECLIPSE AIR, EXO- ECLIPSE, ECLIPSE, EXO- ECLIPSE 2 AIR, EXO- ECLIPSE 2, ECLIPSE 2
Category:	"P" with protective lower face cover

Conclusion

The above-mentioned vehicle / engine / component was tested in accordance with the above mentioned legislation and was found to comply in all respects listed in this report. This report relates only to the items tested.

Test Report Engineer Signature:

Name:	Donghwa Woo
Position:	Type Approval Engineer
Date:	8 October 2024

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

List of Annexes

Annex	No of Pages	Subject
I		
II		
III		
IV		

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

Issue Record

	Issue 0 is original report
Reason for re issue	NA
Name of competent engineer re issuing	NA
Date of re issue	NA

Worst Case Rationale

A specific accessory type (LINK-1(C)) consisting of speaker, microphone and Bluetooth intercom applied; test carried out under the conditions as follows:

Number of helmet samples for each test								
Test	Shell Size	X-Large			Large	Medium		
	Consumer Size	XXXL	XXL	XL	L	M	S	XS
	Headform Size	625	625	605	575	575	535	535
General Specifications		1						
Impact Absorption		5		2				
Impact Absorption Extra Point				2				
Hi/Low Energy Impact				2				
Tests for Oblique impact and measurement of rotational acceleration[1]		2						

See Inspection/Tests Required section below for tests not mentioned above.

Note: Include information on variants and versions this report covers, as applicable. Supporting documents may be annexed to this report.

Significant Interpretations, Alternative Test Methods, New Technologies

NA

Inspection/Tests Required

	Yes, NA, See Report … / Approval … / Annex …	Test location	Dates	Engineer
Markings:	See Report KSB606163 (0993/P)	-	-	-
General Specifications:	Yes (Only in aspects of para 6.2. to 6.5. and para 7.)	KIDO SPORTS VINA, Vietnam	7 October 2024	Donghwa Woo
Impact Absorption:	Yes	KIDO SPORTS VINA, Vietnam	7 - 8 October 2024	Donghwa Woo

UK Vehicle Certification Authority Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

Projection and Surface Friction:	See Report KSB606163 (0993/P)	-	-	-
Rigidity:	See Report KSB606163 (0993/P)	-	-	-
Retention System (Dynamic):	See Report KSB606163 (0993/P)	-	-	-
Retention (Detaching):	See Report KSB606163 (0993/P)	-	-	-
Micro-slip of the Chin Strap:	See Report KSB606163 (0993/P)	-	-	-
Resistance to Abrasion of the Chin Strap:	See Report KSB606163 (0993/P)	-	-	-
Retention Systems Relying on Quick Release Mechanism:	NA	-	-	-
Tests for Oblique impact and measurement of rotational acceleration:	Yes	KIDO SPORTS VINA, Vietnam	8 October 2024	Donghwa Woo

Specification

Style of Helmet:	Full face						
Size							
Shell Size:	X-Large			Large	Medium		
Consumer Size:	XXXL	XXL	XL	L	M	S	XS
Weight:	660g±50			610g±50	550g±50		
Materials							
Shell:	FRP (Fiber Reinforced Plastic)						
Padding:	Sponge, polyester, polyurethane						
Liner:	Polystyrene						
Chin Strap:	Nylon						
Retention System							
Type:	Two section system						
Buckle:	Double-D ring						
Strap Retainer:	Plastic press stud						
Anchorages:	Secured to shell by means of a single rivet to each side of helmet shell						
Ventilation System:	Number of ventilations: 2 Positioning on the shell: Front of Crown (Crown), Chin guard (Centre)						
Type of Shell Edging:	PVC gasket						
Accessories:	Visor (Type: KDS-F-03 CLEAR)						

UK Approval Authority Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

	Sun shield (Type: KS-F-03) Specific accessory (Type: LINK-1(C))
Reflecting Band:	NA
Conspicuity marking:	NA
Additional Features:	NA

Manufacturer's Documentation

Manufacturer's documentation is complete and reflects the agreed specification for the vehicle / engine / component tested and covers all variants and versions agreed in the worst case rationale.	Yes
Information document uploaded to job folder and identified by job number.	Yes

Facility and Equipment Checks

Facility Appraisal reference number and date:	FAK174 and KSB598044 15 July 2023
Calibration certificates are traceable to national or international standards of measurement, and stored in job folder:	Yes
Calibration checked and valid, recorded in the below table:	Yes

Equipment

Description	Make	Model	Serial number	Calibration due date
Head Forms	AD Engineering	FTK 1088/EN 960 06 CNC	2020-16	22/12/2022 + 3 years
Impact Test Apparatus	AD Engineering	MAV 1006 STD	2020-16	03/04/2024 + 1 year
UV & Moisture Conditioning System	AD Engineering	12SB APL1107/STC/H	APL/H-Cm22/06	03/04/2024 + 1 year
Heat Conditioning Chamber	OTS	XB-OTS-800A	XB21031201	03/04/2024 + 1 year
Low Temperature Conditioning Chamber	ALASKA	HB-1100C	04220BA6841	03/04/2024 + 1 year

**Specify calibrated date + (interval) or calibration due date.*

Equipment Remarks

None

Note: VCA apply measurement uncertainty to calibrated items and require pass results including equipment uncertainty.

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

Software used in Testing

Description	Make	Version	Validation method
Impact Test Software	AD Engineering	DLS-rotational Ver.2.2.8	Covered in FA

	Inspection/Test Requirements	Complies Yes / NA
	Markings: Not applicable; section removed for clarity	
8.2	Raw data of test paragraph 7.13. stored by the technical service and available to the approval authority. (for the purpose of improvement of the Regulation at a later stage.)	Yes
	General Specifications	
6.1.	Basic construction of the helmet is in the form of a hard outer shell, containing additional means of absorbing impact energy and a retention system.	NA
6.2.	Protective helmet may be fitted with ear flaps and a neck curtain. It may also have a detachable peak, a visor, additional sun shield, electronic equipment or accessories and a lower face cover. If fitted with a non-protective lower face cover, the outer surface of the cover is marked 'Does not protect chin from impacts' and/or with the symbol shown in Figure 1 below, indicating the unsuitability of the lower face cover to offer any protection against impacts to the chin.	Yes
		
	Note: this symbol or indication must be visible and extend over at least 2 cm^2	
6.3.	No component or device is fitted to or incorporated in the protective helmet, unless it is designed in such a way that it will not cause injury and that, when it is fitted to or incorporated in the protective helmet, the helmet still complies with the requirements of this regulation.	Yes
6.3.	Accessories shall be fitted in accordance with the helmet manufacturer's instructions and, if it is the case, also in accordance with the accessory manufacturer's instructions.	Yes

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

6.3.1.	The helmets may be prepared for fitting universal accessories.	NA
6.3.1.1.	The helmet shall have markings on the exterior of the helmet shell or any visible component as a reference for the installation of the universal accessories main external components. The area where the universal accessories are fitted shall be at least 30 mm of distance from any point of any impact affected area to the lower edge of the helmet shell (the lower rubber rim is considered to be helmet shell for this purpose).	NA
6.3.1.2.	The installation of exterior accessories shall be done in such a way that no part of a universal accessory, whose maximum main unit(s) dimensions are as defined in Annex 20, shall be located in an impact affected area. The helmet designed to be fitted with universal accessory shall have either appropriate space for attaching the device or clamp fixation system as foreseen in Annex 20. The space or clamp fixation shall be provided on both sides of the helmet for each declared position symmetrically located with respect to the longitudinal vertical plane. At least one position for accessories fixation has to be declared.	NA
6.3.1.3.	If the helmet fulfils the requirements of 6.3.1.1. and 6.3.1.2. it shall be marked as ready for Universal Accessories "UA". The helmets marked as "UA" shall also fulfil additional requirements and tests prescribed by this Regulation.	NA
6.3.1.4.	If the helmet is prepared for speakers, the helmet shall have a dedicated space of at least 41 mm diameter and a depth of at least 8 mm. Optionally, the helmet may be prepared for bigger speakers and, in this case, the related diameter shall be increased to at least 46 mm diameter. The helmet shall be prepared to accommodate the wires for the speakers, if there is no special arrangement for the wires, the above-mentioned diameters shall be increased by 2 mm. The helmet shall be tested to assess that the appropriate speaker simulators, as defined in Annex 20, have no adverse effect and that in any case the helmet still complies with all the requirements as set forth in Chapter 7.3. In this case, the helmet shall be marked as "S" or "S45" depending on the assessment done.	NA
6.3.1.5.	When the helmet is designed for fitting speakers, a minimum distance between the speakers shall allow a headform of the appropriate size could pass through them. This requirement has to be met for a speaker of 12mm thickness and the maximum declared diameter.	NA
6.3.1.6.	If the helmet is prepared to fit microphone and the helmet is of type P or P/J, the helmet shall be tested to assess that the microphone simulator defined in Annex 20, located in a specific location foreseen on the helmet for the microphone or, if there is not such a specific	NA

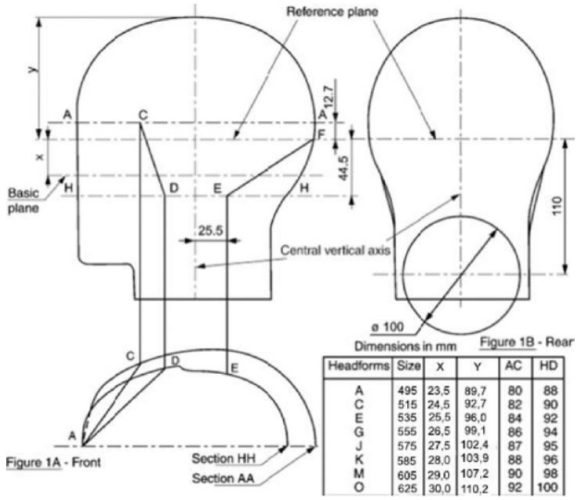
UK Approval Authority Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

	location perfectly marked, the worst case position at the discretion of the Technical Service, has no adverse effect and that in any case the protective helmet still complies with all the requirements as set forth in Chapter 7.3. In this case, the helmet will be marked as "M". Any helmet ready for universal accessories of type J or NP shall be marked as "M".	
6.3.1.7.	If the helmet has the accessory space or clamping fixation in the front-side position, the helmet shall be marked as "F".	NA
6.3.1.8.	If the helmet has the accessory space or clamping fixation in the side position, the helmet shall be marked as "L".	NA
6.3.1.9.	If the helmet is prepared to fit a rear mounted accessory, the helmet shall be marked as "R".	NA
6.3.1.10.	If the helmet has different declared positions to fit accessories, they have to be positioned in such a way that universal accessories can be fitted in all declared positions at the same time.	NA
6.3.1.11.	When all the accessory positions declared by the helmet manufacturer are in use, the accessories shall not prevent the use of any helmet mechanism.	NA
6.3.2.	The helmet may incorporate specific accessories.	Yes
6.3.2.1.	Helmets that can be placed on the market with specific accessories, or for which specific accessories will exist, shall be tested to assess that the supplementary equipment has no adverse effect and that in any case the protective helmet and/or visor still complies with all the requirements as set forth in Chapter 7. The evaluation shall be done with and without the accessory and their support.	Yes
6.3.2.2.	If the helmet is declared as ready to fit specific accessories and has been evaluated as per the previous paragraph, it shall be marked as "SA".	Yes
6.4.1.	Shell covers all areas above plane AA' and extends downwards at least as far as the lines ‘CDEF’ on both sides of the headform. *Note: See Annex 4, Figure 1A.*	Yes

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.



Headforms	Size	X	Y	AC	HD
A	495	23,5	89,7	80	88
C	515	24,5	92,7	82	90
E	535	25,5	96,0	84	92
G	555	26,5	99,1	86	94
J	575	27,5	102,4	87	95
K	585	28,0	103,9	88	96
M	605	29,0	107,2	90	98
O	625	30,0	110,2	92	100

6.4.2.	At the rear, the rigid parts and, in particular, the shell, are not within a cylinder, defined as follows: - Diameter: 100 mm; - Axis situated at the intersection of the medium plane of symmetry of the headform and of a plane parallel to and 110 mm below the reference plane. *Note: See Annex 4, Figure 1B.*	Yes
6.4.3.	Protective padding covers all the areas defined in paragraph 6.4.1, with account being taken of the requirements of paragraph 6.5.	Yes
6.5.	Helmet does not dangerously affect the wearer's ability to hear.	Yes
6.5.	Temperature in the space between the head and the shell does not rise inordinately. *Note: To prevent this, ventilation holes may be provided in the shell.*	Yes
6.5.	Where means for attaching a visor are not provided, the profile at the front edge does not prevent the wearing of goggles.	NA
6.6.	All projections from, or irregularities in the outer surface of the shell greater than 2 mm, are tested for shear assessment according to paragraphs 7.4.1 or 7.4.2. The outer surface of the helmet is tested for friction assessment, according to paragraphs 7.4.1 or 7.4.2. This applies in particular to a movable lower face cover in all positions intended by the manufacturer.	NA
6.7.	All external projections are radiused and any external projections other than press-fasteners are smooth and adequately faired.	NA
6.7.1.	All external projections not more than 2 mm above the outer surface of the shell (e.g. rivet heads) have a radius of a minimum of 1 mm.	NA
6.7.2.	All external projections more than 2 mm above the outer surface of the shell have a radius of a minimum of 2 mm.	NA

UK Approval Authority Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

Note: Latter specific requirements do not apply if a projection satisfies the requirements in paragraphs 7.4.1 or 7.4.2 below.

6.8.	There are no inward-facing sharp edges on the inside of the helmet; rigid, projecting internal parts are covered with padding so that any stresses transmitted to the head are not highly concentrated.			NA
6.9.	Various components of the protective helmet are so assembled that they are not liable to become easily detached as a result of an impact.			NA
6.9	In the case of visor and movable or detachable lower face cover, only when in not protective position, the detachment is acceptable provided that it is complete and not to cause possible injuries to the user			NA
6.10.	Retention systems are protected from abrasion.			NA
6.11.	Helmet is held in place on the wearer's head by means of a retention system, which is secured under the lower jaw. All parts of the retention system are permanently attached to the system or to the helmet.			NA
6.11.1.	If the retention system includes a chin-strap, the strap is not less than 20 mm wide under a load of 150 N ± 5 N, applied under the condition prescribed in paragraph 7.6.2:	-	mm	NA
6.11.2.	Chin strap does not include a chin cup.			NA
6.11.3.	Chin straps are fitted with a device to adjust and maintain tension in the strap.			NA
6.11.4.	Chin strap fastening and tensioning devices are positioned on the straps so that: - There are no rigid parts extending more than 130 mm vertically below the headform reference plane, with the helmet mounted on the appropriate sized headform* - The whole of the device is between the bony projections of the underside of the lower jaw* **Strikethrough, as appropriate.*			NA
6.11.5.	If the retention system includes either a double-D ring or sliding bar fastening device ("roller buckle"), then means are provided to prevent the retention system being completely undone and also to retain the free end of the strap when the retention system is adjusted. (If the retaining system can be opened completely, it must be possible only with voluntary action. To prevent any possible misuse, the helmet must be provided with detailed instructions on the use of the buckle if required.)			NA

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

6.11.6.	Sliding bar and double-D ring fastening devices are fitted with a pulling flap to be used for releasing the retention system. Its colour is red and its minimum dimensions are 10 x 20 mm.	NA
6.11.7.	If a retention system includes a quick-release mechanism, then the method of release of this mechanism is self-evident. Any levers, tabs, buttons or other components that need to be operated to release the mechanism are coloured red; those parts of the rest of the system that are visible when closed are not similarly coloured, and the mode of operation is permanently indicated.	NA
6.11.8.	Retention system remains closed when the tests described in paragraphs 7.3, 7.6 and 7.7 are carried out.	NA
6.11.9.	Buckle of the retention system is designed so as to preclude any possibility of incorrect manipulation. This means inter alia (among other things) that it is not possible for the buckle to be left in a partially closed position.	NA
6.12.	If the lower face cover is detachable or movable, the lower face cover is fitted with a device that maintains the intended position even during the complete series of impacts and retention (detaching) test. The device is such that incorrect handling is impossible. The control/actuating device must be of red colour. The helmet must comply with the requirements for helmet categories "J","P" or both.	NA
6.13.	Characteristics of the materials used in the manufacture of helmets are known not to undergo appreciable alteration under the influence of ageing or of the circumstances of use to which the helmet is normally subjected, such as exposure to sun, extremes of temperature and rain. For those parts of the helmet coming into contact with the skin, the materials used are known not to undergo appreciable alteration through the effect of perspiration or of toilet preparations. The manufacturer does not use materials known to cause skin troubles. The suitability of a proposed new material is established by the manufacturer.	NA
6.14.	After the performance of one of the prescribed tests, the protective helmet does not exhibit any breakage or deformation dangerous to the wearer. Note: As example visor sunshield and shell significant cracks or any part partially detached (spoiler, lower face cover, accessories) that can hurt the user while he's rolling on the road.	NA
	Peripheral Vision	
6.15.1 *6.15.2*	The technical service has selected from among the existing sizes of a helmet type the size it considers likely to yield the least favourable result and helmet placed on the headform corresponding to its size by the procedure set out in Annex 5 to this Regulation;	NA

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

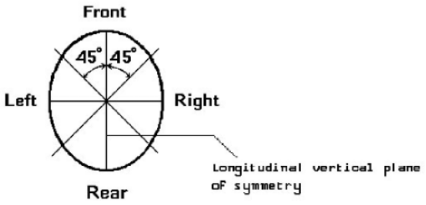
6.15.3.	There is no occultation in the field of vision bounded by:	NA
	- Horizontally: Two segments of dihedral angles symmetrical in relation to the median longitudinal vertical plane of the headform and situated between the reference and the basic planes. Each of	
6.15.3.1.	these dihedral angles is defined by the median longitudinal vertical plane of the headform and the vertical plane forming an angle of not less than 105° with the median longitudinal vertical plane and whose edge is the straight line LK;	
	- Upwards: Dihedral angle defined by the reference plane of the headform and a plane forming an angle of not less than 7° with the	
6.15.3.2.	reference plane and whose edge is the straight line L_1 L_2, the points L_1 and L_2 representing the eyes;	
	- Downwards: Dihedral angle defined by the basic plane of the	
6.15.3.3.	headform and a plane forming an angle of not less than 45° with the basic plane, and whose edge is the straight line K_1 K_2.	

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

	Visors	
6.16.1.	Systems of attachment of a visor to a helmet is such that the visor is removable. It is possible to manoeuvre the visor out of the field of vision with a simple movement of one hand. (However, the latter prescription may not be required for helmets which do not provide chin protection provided that a label is attached to the helmet to the effect of warning the purchaser that the visor cannot be manoeuvred.)	NA
6.16.2.	Angle opening (see annex 9) ≥ 5°:	NA
	Sun Shield	
6.17.1	Sun shield does not restrain or prevent the movement of the visor. On opening the visor, the sun shield can pivot in the working position. By means of a simple movement the sun shield is able to be moved separately from the visor out of the visual field.	NA
6.17.2.1	Sun shield does not restrict the field of vision given in paragraph 6.15. in the working or parking position. If the sun shield is fixed outside of the visor, the surface may include fixings or devices to make movement possible. The total surface of the fixings or devices does not exceed 2cm^2; they can be distributed on both sides of the field of vision.	NA
	Conspicuity Marking	
6.18.1.	In order to comply with national requirements for use, the helmet may be required by individual Contracting Parties to contribute to the conspicuity of the user both during the daytime and at night from the front, rear, right and left, by means of parts made of reflective materials that conform to the specifications laid down in paragraphs 6.16.2 to 16.6.6 of this regulation.	NA
6.18.1.	It is allowed that the helmet is equipped with reflective materials in the box, with proper indications to the user on where and how to apply them on the helmet. *Note: Mandating of conspicuity marks is left to the discretion of individual Contracting Parties. Article 3 of the Agreement to which this regulation is annexed does not prevent the Contracting Parties from prohibiting the use of helmets not meeting the conspicuity requirements.*	NA
6.18.2	**Reflective Parts**	
6.18.2.1.	Total surface area and shape of the reflective part used is such that in each direction, corresponding to one of the areas defined in the figure below, visibility is ensured by a surface area of at least 18 cm^2 of simple shape and measured by application on a plane.	NA

UK Approval Authority Vehicle Certification Agency
30-Oct-24



6.18.2.1.	In each surface area of minimum 18 cm^2, it is possible to mark either a: - Circle of 40 mm diameter* - Rectangle of at least 12.5 cm^2 in surface area and at least 20 mm in width*	NA
6.18.2.1.	Each of these surfaces are situated as near as possible to the point of contact with the shell of a vertical plane parallel to the longitudinal vertical plane of symmetry, to the right and to the left, and as near as possible to the point of contact with the shell of a vertical plane perpendicular to the longitudinal plane of symmetry, to the front and to the rear.	NA
6.18.3.	Each of the retro-reflective areas emit white light when it is illuminated with standard illuminant A, with an observation angle of 1/3° and an illumination angle $\beta1 = \beta2 = 0°$ (or $\beta1 = \pm 5°$, $\beta2 = 0°$).	NA
6.18.4.	Minimum value of the luminous intensity coefficient of a surface area of 18 cm^2 of material, when revolved, is not less than the values specified in the table below, expressed in millicandelas per lux.	NA

Angle of Divergence (')	Angle of Illumination (°)		
	0	20	40
20	100	60	25

6.18.5.	After each conditioning as described in paragraph 7.2, the helmet is visually inspected. There are no signs of cracking or appreciable distortion of the retro-reflective material.	NA
6.18.6.	Neither the adhesive nor the retro-reflective material affects the mechanical performance of the helmet according to the related tests in this regulation.	NA

Tests

7.1	Each helmet type, fitted with its visor if placed on the market with a visor, conditioned as shown below.	Yes

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

Test	Number of helmets to be conditioned				Total
	ambient-temperature and hygrometry conditioning	Heat conditioning	low-temperature conditioning	ultra- violet radiation conditioning and moisture conditioning	
Impact absorption	2	1	1	1	5
Imp. Abs. extra point	2				2
Hi/Low energy impact	2				2
Rotational	2				2
Projection and surface friction	1				1
Rigidity	2				2
Retention system	1				1
					15

Testing Notes:
The largest size of each combination shell size and protective padding of each helmet type shall be tested for impact absorption, rotational and rigidity. For impact absorption on extra point, Hi and Low energy impacts and tests of the retention system, helmet sizes shall be chosen such that the helmet to be tested shall be that offering the likely least favorable conditions (such as thickest padding, etc).

7.1 All the types of retention systems available for the helmet must be tested. Supplementary samples could be necessary.
Additionally, for each smaller headform size within the size range of the helmet type two helmets shall undergo the impact absorption test. One helmet shall be heat conditioned, and the other low temperature conditioned. The conditioned helmets shall be impacted against either anvil, in equal numbers if possible, at the choice of the laboratory.

Types of Conditioning

7.2 Prior to any type of further conditioning for mechanical tests, as specified in paragraph 7.1., each helmet shall be subject:

7.2.1. Ambient-temperature and hygrometry conditioning:
The helmet shall be exposed to a temperature of 25 °C ± 5 °C and a relative humidity of 50 per cent ± 10 per cent for at least 4 hours. — Yes

7.2.2. Heat conditioning:
The helmet shall be exposed to a temperature of 50 °C ± 2 °C for not less than 4 hours and not more than 8 hours. — Yes

7.2.3. Low-temperature conditioning:
The helmet shall be exposed to a temperature of -10 °C ± 2 °C for not less than 4 hours. — Yes

7.2.4. Ultraviolet-radiation conditioning and moisture conditioning. — Yes

UK Approval Authority Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

The outer surface of the protective helmet shall be exposed successively to:
ultraviolet irradiation by a 150-watt xenon-filled quartz lamp for 48 hours at a range of 25 cm;
spraying for 4 to 8 hours with water at ambient temperature at the rate of 1 litre per minute.

Test Results

Impact Absorption Tests

7.3.1.4. The tests completed not more than five minutes after the helmet is taken from the conditioning chamber. — Yes

7.3. Helmet size: XXXL

Helmet ID Number	H.F. Size Number	Impact Point	Anvil*	Cond. (°C)	Speed (m/s)	HIC *(≤ 2,400)*	Deceleration *(≤ 275 g)*
1	O	B	K	AMB	7.59	1118	187
		X	K		7.59	1219	159
		P	K		7.62	1448	235
		R	K		7.55	690	111
2	O	B	F	AMB	7.59	1345	174
		X	F		7.59	2171	237
		P	F		7.62	1955	201
		R	F		7.59	920	161
3	O	B	K	+50	7.62	1263	251
		X	K		7.59	1264	162
		P	K		7.62	1080	145
		R	K		7.55	634	105
4	O	B	F	-10	7.59	1628	189
		X	F		7.59	1790	212
		P	F		7.62	1753	203
		R	F		7.62	1185	176
		S	F		6.10	537	115
5	O	B	K	UV + H2O	7.62	1176	197
		X	K		7.62	1468	191
		P	F		7.62	1674	189
		R	F		7.59	869	135

**F = Flat; K = Kerbstone*

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

7.3. Helmet size: XL

Helmet ID Number	H.F. Size Number	Impact Point	Anvil*	Cond. (°C)	Speed (m/s)	HIC *(≤ 2,400)*	Deceleration *(≤ 275 g)*
6	M	B	K	+50	7.62	1336	196
		X	K		7.62	1188	159
		P	K		7.62	1218	171
		R	K		7.62	871	129
7	M	B	F	-10	7.62	1810	197
		X	F		7.62	1892	225
		P	F		7.62	2137	198
		R	F		7.59	1697	180
		S	F		6.10	370	109

**F = Flat; K = Kerbstone*

7.3. Helmet size: XL

Extra Impact points (Worst Case Size Selected):

Helmet ID Number	H.F. Size Number	Impact Point	Anvil[1]	Cond. (°C)	Required Speed (m/s)	Measured Speed (m/s)	HIC requirement	Measured HIC	Decel requirement	Measured Decel
8	M	(Extra point): BP[2]	K	AMB	7.5	7.62	*≤ 2,400*	1252	*≤ 275 g*	142
		(Extra point): XPL[2]	K		7.5	7.62	*≤ 2,400*	1773	*≤ 275 g*	243
		(Extra point): RP[2]	K		7.5	7.62	*≤ 2,400*	857	*≤ 275 g*	119
		(Extra point): XPR[2]	K		7.5	7.62	*≤ 2,400*	1283	*≤ 275 g*	164
9	M	(Extra point): BXL[2]	F		7.5	7.59	*≤ 2,400*	2063	*≤ 275 g*	225
		(Extra point): BXPR[2]	F		7.5	7.62	*≤ 2,400*	1754	*≤ 275 g*	192
		(Extra point): RXPL[2]	F		7.5	7.62	*≤ 2,400*	1129	*≤ 275 g*	149
		(Extra point): RXR[2]	F		7.5	7.62	*≤ 2,400*	1915	*≤ 275 g*	213

[1] : F = Flat; K = Kerbstone
[2] : Extra test locations to be selected from the 12 listed in section 7.3.4.2.1

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

7.3. Helmet size: XL

Hi/Low Energy Impact points (Worst Case Size Selected):

Helmet ID Number	H.F. Size Number	Impact Point	Anvil*	Cond. (°C)	Required Speed (m/s)	Measured Speed (m/s)	HIC requirement	Measured HIC	Decel requirement	Measured Decel
10	M	(Hi Energy): B	F	AMB	8.2	8.26	*≤ 2,880*	2671	*≤ 275 g*	245
		(Hi Energy): X	F		8.2	8.29	*≤ 2,880*	2636	*≤ 275 g*	260
		(Hi Energy): P	F		8.2	8.29	*≤ 2,880*	2660	*≤ 275 g*	242
		(Hi Energy): R	F		8.2	8.26	*≤ 2,880*	1832	*≤ 275 g*	196
11	M	(Low Energy): B	F		6.0	6.10	*≤ 1,300*	926	*≤ 180 g*	146
		(Low Energy): X	F		6.0	6.10	*≤ 1,300*	1186	*≤ 180 g*	176
		(Low Energy): P	F		6.0	6.08	*≤ 1,300*	670	*≤ 180 g*	115
		(Low Energy): R	F		6.0	6.10	*≤ 1,300*	1038	*≤ 180 g*	151

* *F = Flat; K = Kerbstone*

Test for Projection and Surface Friction (Method B): Not applicable; section removed for clarity

Test for projections of the category P/J with movable lower face cover: Not applicable; section removed for clarity

Rigidity Tests: Not applicable; section removed for clarity

Dynamic Test of the Retention System: Not applicable; section removed for clarity

Retention (Detaching) Test: Not applicable; section removed for clarity

Micro-slip Test of the Chin Strap: Not applicable; section removed for clarity
Note: See Annex 8, Figure 4)

Test for Resistance to Abrasion of the Chin Strap: Not applicable; section removed for clarity
Note: See Annex 8, Figure 5.

Tests for Retention Systems Relying on Quick Release Mechanism: Not applicable; section removed for clarity

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

Tests for Oblique impact and measurement of rotational acceleration

7.13	The test helmets have undergone ambient-temperature and hygrometry conditioning.	Yes
Annex 7, 2.4.	Coefficient of friction (m) 0.3 ± 0.05 between the outer surface of the head form and the common fabric used in the comfort padding of the helmet.	Yes
Annex 7, 2.5.	Chin strap force controller "Tightened as for normal use". (This means that the helmet must be tightened before each test after having applied below the chin a rigid cylinder 10 mm diameter at least 30 mm long that will be removed before the test. According paragraph 7.3.1.3.)	Yes
Annex 7, 2.6.	Instrumentation for measuring the head kinematics during impact calibrated in line with Annex 7, 2.6.	Yes
Annex 7, 2.7.	Headform coefficient of friction calibrated in line with Annex 7, 2.7.	Yes
Annex 7, 3.1	Helmet placed on a headform of appropriate size in accordance with the requirements of Annex 5. Helmet positioned in accordance to the HPI (helmet positioning index) provided by the manufacturer. If it is not available, the helmet shall be tipped towards the rear so that the front edge of the helmet in the median plane is displaced by 25 mm.	Yes
Annex 7, 3.2.2	Anvil (A) as per Annex 7, 3.2.2 and figure 2	Yes
Annex 7, 3.	Test method in accordance with Annex 7, 3.	Yes

UK Approval Authority | Vehicle Certification Agency
30-Oct-24

This test report shall not be reproduced except in full, without written approval of the technical service.

Helmet ID Number	H.F. Size Number	Impact Point	Cond. (°C)	Speed (8.0m/s)	Peak Resultant Acceleration (PRA) ≤ *10,400 rad/s²*	Brain Injury Criterion (BrIC) *≤ 0.78*
12	O	Front lateral right (45°)	AMB	8.15	2697	0.28
		Rear (180°)		8.14	2129	0.43
		Lateral left (270°)		8.11	2196	0.24
13	O	Front (0°)	AMB	8.14	3240	0.46
		Rear-lateral right (135°)		8.14	3257	0.37

Photographs



Remarks

None

UK Approval Authority | Vehicle Certification Agency
30-Oct-24