



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE ~~APPROVAL GRANTED⁽⁴⁾~~/ APPROVAL EXTENDED⁽¹⁾/
APPROVAL REFUSED⁽⁴⁾/ APPROVAL WITHDRAWN⁽⁴⁾/ PRODUCTION DEFINITELY
DISCONTINUED⁽⁴⁾ OF A TYPE OF PROTECTIVE HELMET WITH/WITHOUT⁽⁴⁾/ ONE/MORE THAN
ONE⁽¹⁾/ VISOR TYPE(S) PURSUANT TO REGULATION NO. 22.05



Approval No: 22R-050171/P

Extension No: 03

Reason of extension: To cover apply the rear spoiler to large helmet sizes of GP version (V2), sizes L and XL + new model of DD ring for the GP version (V2).

1. Trade mark: SHARK
2. Type: X72
3. Sizes: XS (53-54) / S (55-56) / M (57-58) / L (59-60) / XL (61-62)
4. Manufacturer's name: SHARK SAS
5. Address: 110 Route de la Valentine
13396 Marseille cedex 11
France
6. If applicable, name of manufacturer's representative: Not applicable
7. Address: Not applicable
8. Brief description of helmet: See manufacturer's documentation
9. Helmet ~~without lower face cover (J)~~ / with protective lower face cover (P) / ~~with non-protective lower face cover (NP)~~⁽¹⁾

10. Type of visor or visors: VZ100 cert E11 22R-050154 / VZ100 MVX cert E11 22R-050401
11. Brief description of visor or visors: See manufacturer's documentation
12. Submitted for approval on: As before and 18 December 2017
13. Technical service responsible for conducting approval tests: Omega S.r.l.
14. Date of report issued by that service: As before and 16 February 2018
15. Number of report issued by that service: As before and MAT396058
16. Comments: None
17. Approval ~~GRANTED/EXTENDED/REFUSED/WITHDRAWN~~⁽¹⁾
18. Place: BRISTOL
19. Date: 06 APRIL 2018
20. Signature:  D LAWLOR
Chief Technical and Statutory Operations Officer
21. The following documents, bearing the approval number shown above, are available on request

Any remarks: Approval to Supplement 2

(1) Strike out what does not apply.

VEHICLE CERTIFICATION AGENCY
 C/o Mr.Woodruff
 1 The Eastgate Office Centre
 Eastgate Road
 Bristol BS 5 6XX
 United Kingdom

Date: 7th December 2017

Object Application for the extension of a type of protective helmet

Regulation ECE 22.05

Type	X72
Kind of homologation	Full face (P)
Trade Mark/s	SHARK
Commercial name/s	RACE R PRO GP
Version/s	V1 – Standard version V2 – Moto GP version (all sizes)

Manufacturer SHARK SAS

Manufacturer Address 110 route de la Valentine ; 13396 Marseille cedex 11 France

Assembly Plants

- **Advanced Composite System**
11/1 Moo.4 soi Pra Apaimanee Sukhumvit road,
HUAYYANG,KLAENG,RAYONG 21110
(Thailand)
- **S.F.P.C.**
ZI Sampaio -3430-414 CARREGAL DO SAL
(Portugal)

Dear Sirs,

We hereby apply for the Extension 03 of the above-mentioned item according the regulation N°22.05, approval N° E11 22R-050171/P

The reason of this extension is: new version of a Rear Venturi to all helmet sizes that substitutes the previous spoiler version + new model of DD ring for GP version (V2).

Best regards,

Name: Alban Rojas
 Position: R&D Manager

TECHNICAL DATA SHEET

1 MANUFACTURER DETAILS

MANUFACTURER NAME: SHARK SAS

TYPE	X72
KIND OF HOMOLOGATION	"P"
TRADE MARK/s	SHARK

ASSEMBLY PLANTS :

- ° **Advanced Composite System**
11/1 Moo.4 soi Pra Apaimanee Sukhumvit road,
HUAYYANG,KLAENG,RAYONG 21110
(THAILAND)
- ° **SFPC**
ZI Sampaio- 3430-414 CARREGAL DO SAL
(PORTUGAL)

NAME OF THE MANUFACTURERS REPRESENTATIVE: Not applicable

2 SIZES & WEIGHT

Designation	XS	S	M	L	XL	XXL
SHELL	Small	Small	Small	Large	Large	*
EPS	XS	S/M	S/M	L/XL	L/XL	*
SIZE [cm]	53-54	55-56	57-58	59-60	61-62	*
WEIGHT [g]	1270g	1270g	1270g	1350g	1350g	*
WEIGHT v2	1350g	1350g	1350g	1450g	1450g	*

3 MARKING

size and weight on the shell (ref Regulation N° 22 § 14.3)
homologation number sewn to the retentions system

4 MATERIALS

SHELL	Composite
LINER	Expanded polystyrene Size
REINFORCING MATERIAL	n/a
COMFORT PADDING	PU foam matched with a synthetic web with different thicknesses
REFLECTING BANDS	3M Type 13 150 (PV UTAC N° 79.14.51.102.308)
SEAL SYSTEM	Injected PVC rubber
VISOR/S	VZ100 cert n° E11-050154 / VZ100 MVX cert n° E11-050401

RETENTION SYSTEM :

RATCHET	<i>SMT008</i>
RIVET	<i>FST003</i>
CHIN STRAP	<i>Polyester</i>
BUCKLE	<i>Double ring SMT002 & SMT003</i> <i>Double ring ZSP 00</i>

N.B.: *the materials used on the helmets production that came to contact with the skin are adequate to the use, and haven't modification due to sweat or hygienic products, and these materials don't cause dermatological problems. We will inform you about all the modification that we will make on the helmet materials.*

5 ACCESSORIES

(For example, Sun Shield, Peaks, Ventilations, etc)

See enclosed "Annexes X72-V2"

5.1 Rear Spoiler

Specific Rear Spoiler for the Version2 (V2). See enclosed "Annexes X72 V2" for design details.

6 ASSEMBLING INSTRUCTIONS

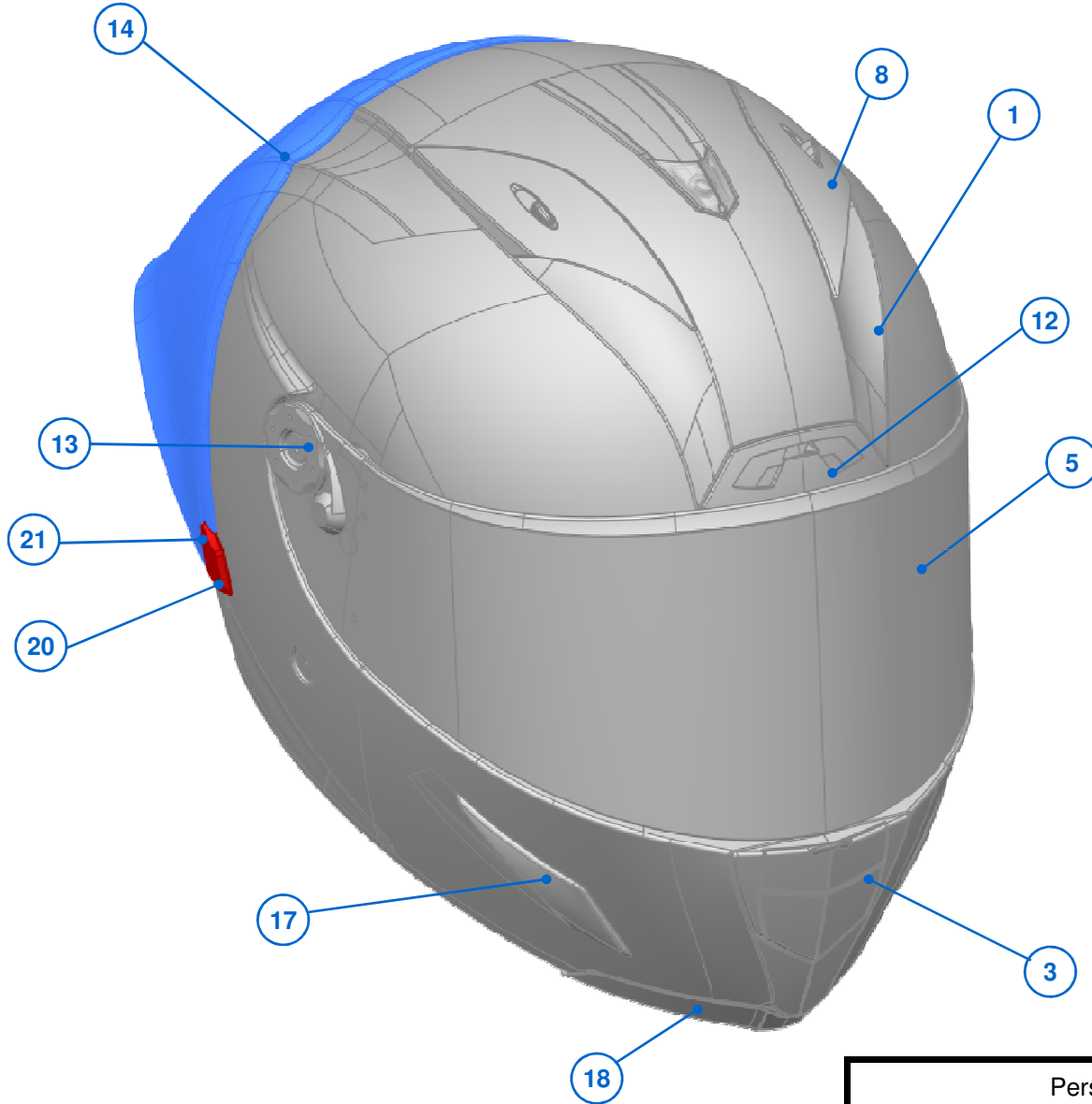
See "Exploded" page into the enclosed "Annexes X72-V2"

7 HELMET DRAWINGS


See enclosed "Annexes X72-V2"

8 HELMET VERSION

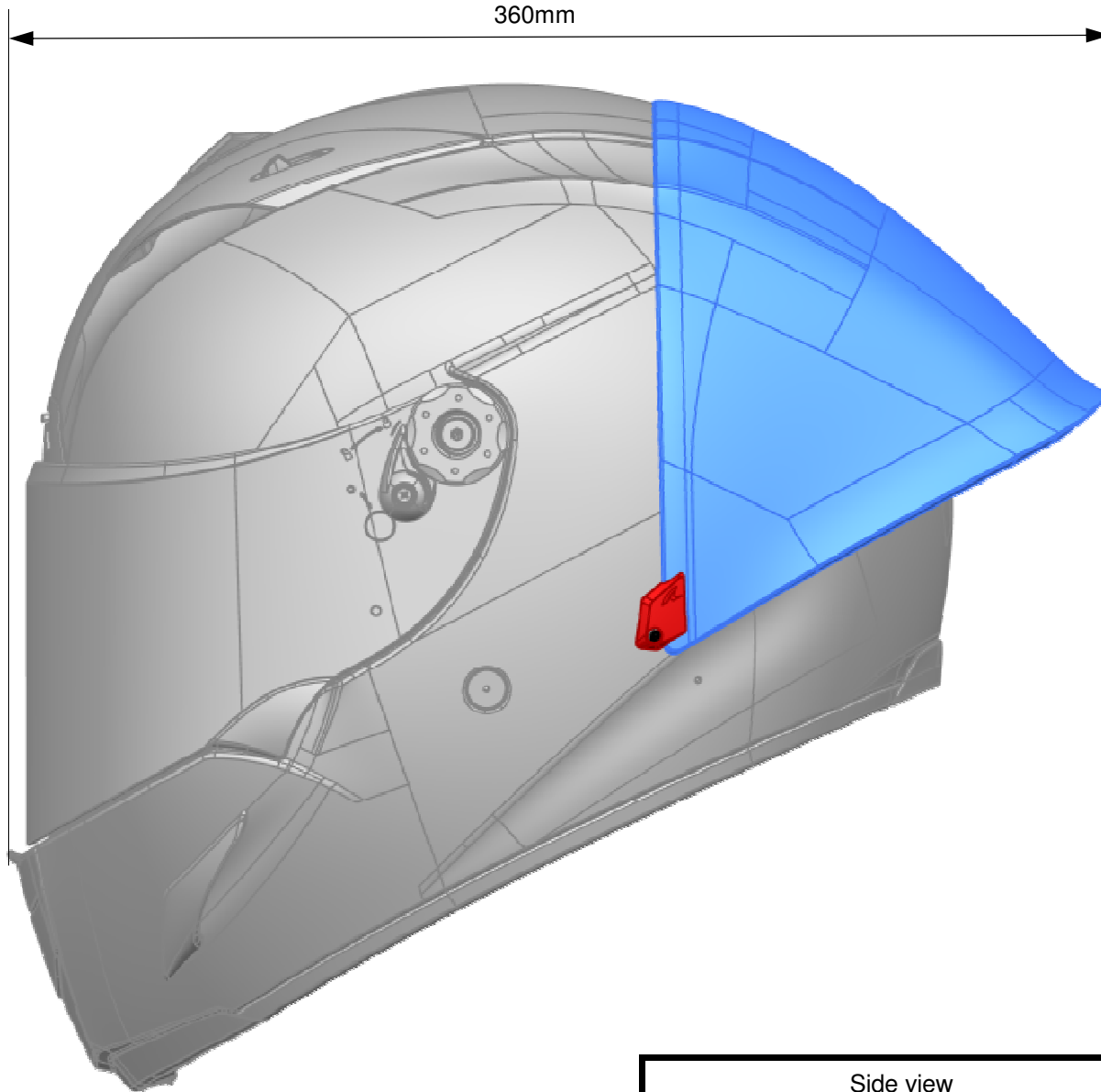






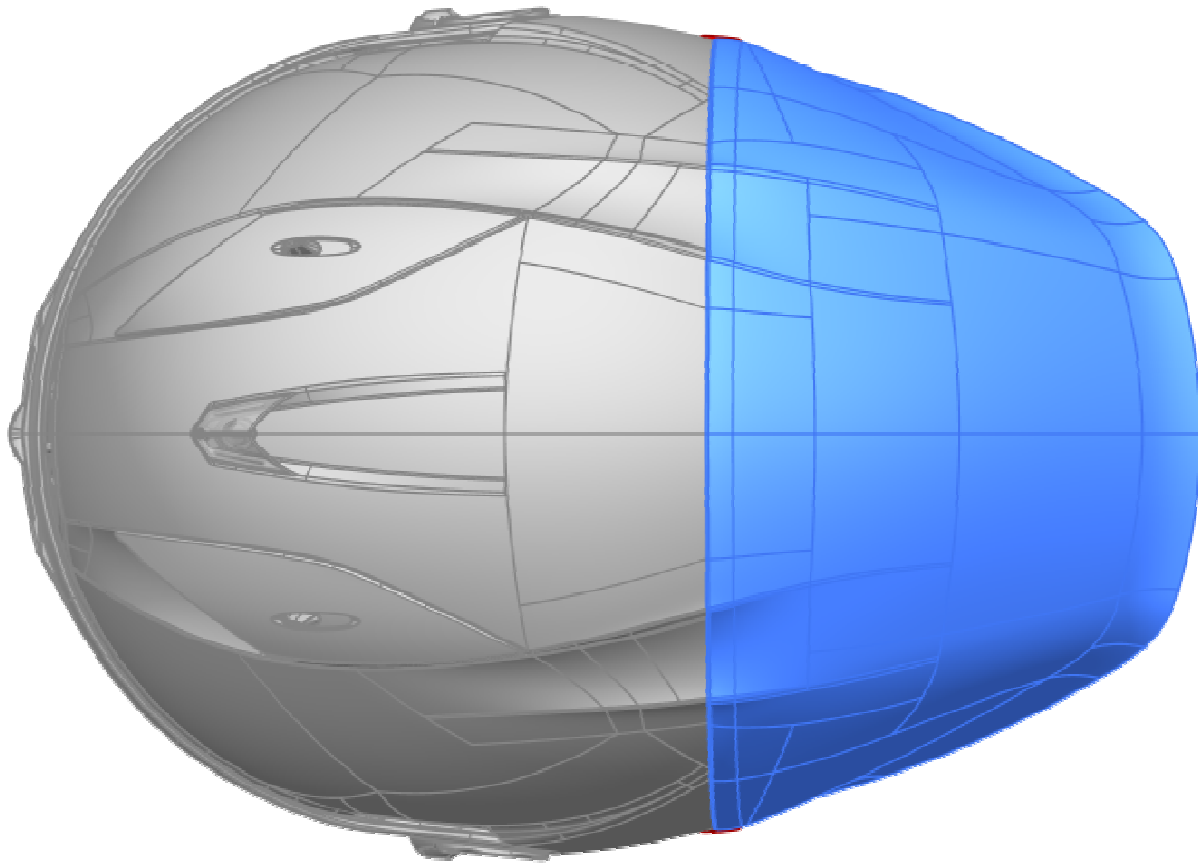
N°	DESIGNATION
1	Shell
2	Chin PU
3	Low Ventilation
4	Mask support
5	Visor
6	Visor rubber
7	EPS front
8	Top Ventilation
9	Confort pad
10	EPS top
11	EPS cheek
12	Front ventil
13	Fixing mecansim visor
14	Spoiler (ABS/PC)
15	Beltbag
16	Front venturi
17	Lateral venturi
18	Base trim
19	Foam double tape
20	Screws
21	Fixing parts for spoiler



Perspective		 <small>UK Vehicle Certification Authority</small>
Type : X72 V2	ANNEXE 1	
		16 MAR 2017

06-Apr-18

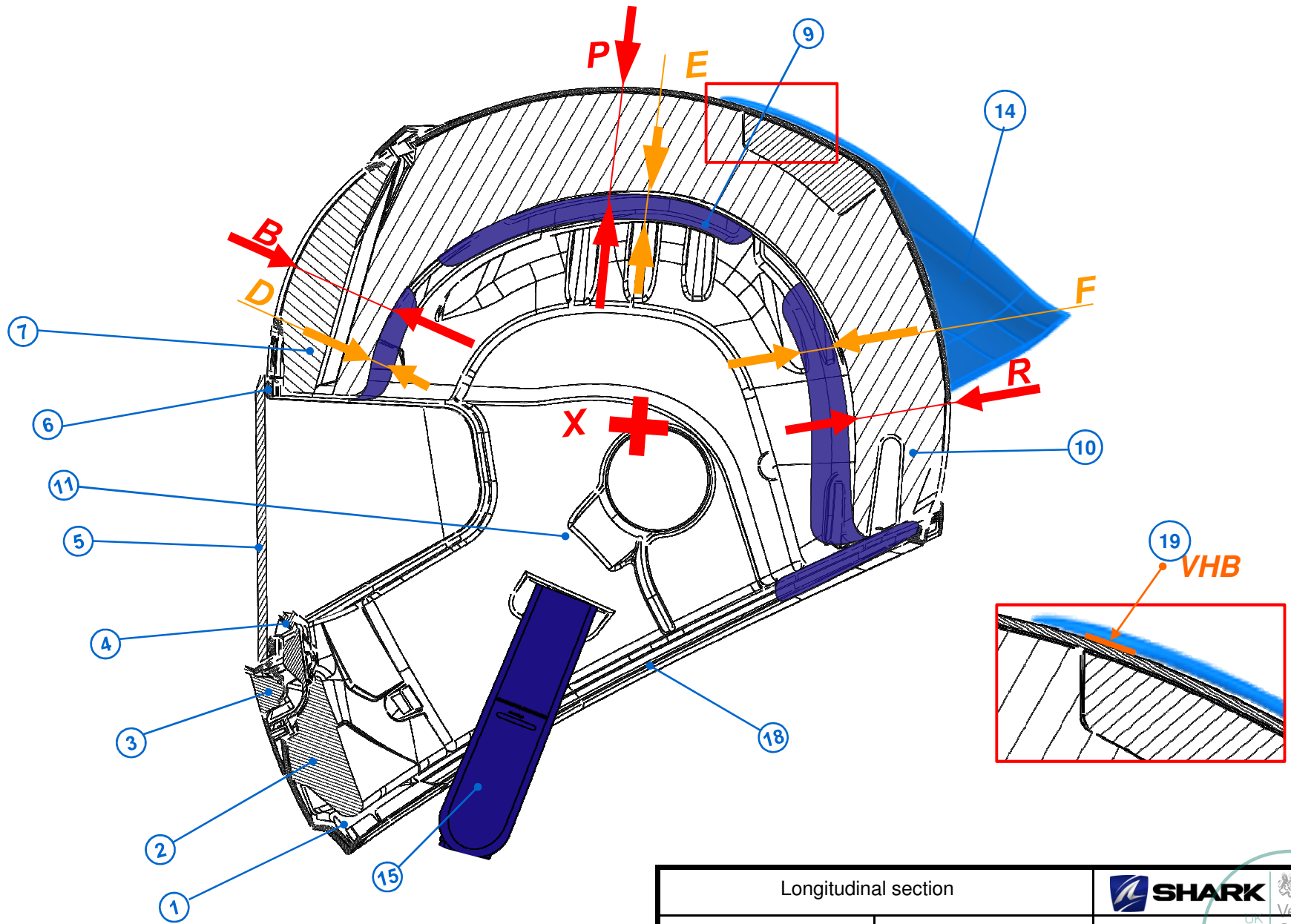



Side view			
Type : X72 V2	ANNEXE 2	16 MAR 2017	UK Vehicle Certification Authority



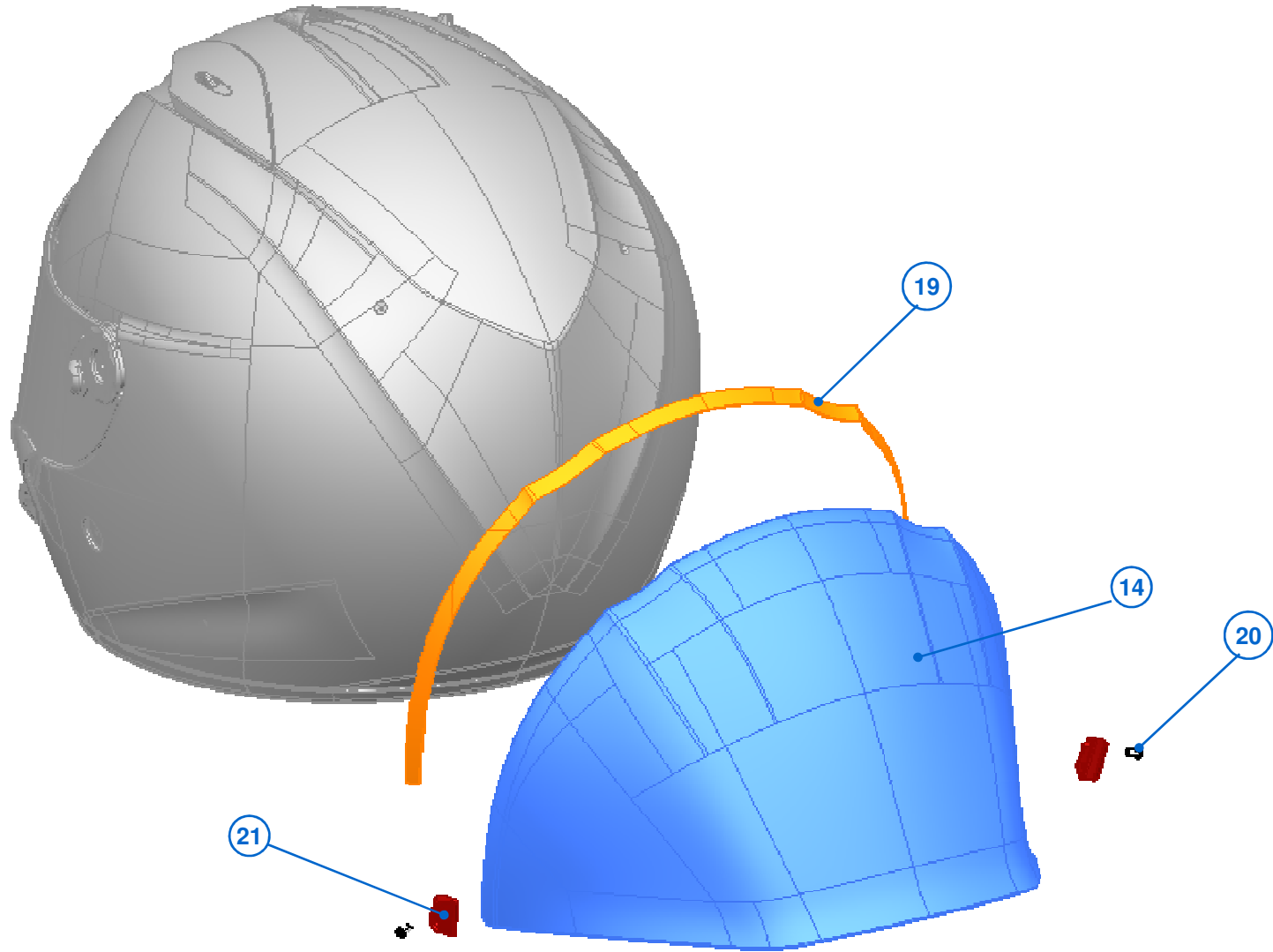
Top view			
Type : X72 V2	ANNEXE 3	16 MAR 2017	UK Vehicle Certification Agency



06-Apr-18




Longitudinal section		 UK Vehicle Certification Authority
Type : X72 V2	ANNEXE 4	
		16 MAR 2017

06-Apr-18



Exploded view			
Type : X72 V2	ANNEXE 5	16 MAR 2017	Authority Agency



general view		 <small>UK Vehicle Certification Authority</small>
Type : X72 V2	ANNEXE 6	

16 MAR 2017

06-Apr-18

QUALIFICATION TESTING UNECE n°22 Series 05 <i>Internal Identification Test: E5HQ</i>	
Job Number	MAT 396058
Report	Code: X72 Race R Pro Qualification Date: 16 February 2018
Manufacturer	Name: SHARK Helmets Address: Zac de la Valentine-110,Route de la Valentine-13396-Marseille(France)
Representative	It does not apply
Sample	Helmet model: X72 Race R Pro Approval n°: 22R-050171 /P Stickers from n°: 54401 to n°: 57600 Batch n°: 17 Arrival date: 14/02/2018 Testing date: 15/02/2018

Essential Technical Data		
SIZE RANGE	XS(54) to XXL (61-62)	
SHELL MATERIAL	Composite	
WEIGHT	1350±50 [gr] M/S/XS/1450±50 [gr]L/XL	
RETENTION SYSTEM	dd	
REFLECTIVE BANDS	Yes	
ENVIRONMENTAL CONDITIONS	Temperature	22°
	Humidity	51%



Used Machine	Identifier /Manufacturer	expiry Date
M0015 Tracking point of impact	LTB 1079 (AD Engineering)	Daily Check IO 7.2.13
M0044 Chin strap resistance	MSD 1009 (AD Engineering)	14/10/2020


The helmet was tested in the different configurations with internal sun visor and other critical components.

<i>The helmets are divided in n°</i>		<i>1 batches</i>	<i>10</i>
<i>Group n°</i>	<i>Size</i>	<i>helmets</i>	
1	The smallest size	10	

Gruppe / Batch n° 1		
Helmet size: XS DD		
Conditioning AMB		
Stickers n°	Din. Exten. <=35 [mm]	Res. Exten. <=25 [mm]
57017	28	11
57050	28	11
57040	27	10
57046	27	10
57044	27	11
57045	28	10
57041	27	11
56717	27	10
57047	26	11
57043	28	10
Xm	27,3	10,5
S	0,7	0,5
Xm+2,4*S	29	12

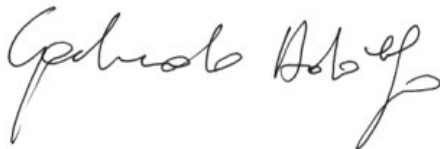
INFORMATION FOR WEARERS
Ref. 14

LABELLING		Result	
Reference	Test	Description or image	
	Method of Attachment to helmet at point of sale: - ...		
Specifies the following:			
14.1	"For adequate protection, this helmet must fit closely and be securely attached. Any helmet that has sustained a violent impact should be replaced"	PASS	
	if fitted with a non protective lower face cover: "Does not protect chin from impacts" together with the symbol indicating the unsuitability of the lower face cover to offer any protection against impacts to the chin.	NAP	
14.2	specific warning in the above-mentioned label: " 'Warning' - Do not apply paint, stickers, petrol or other solvents to this helmet".	PASS	
14.4	Bears a label showing the type or types of visor that have been approved at the manufacturer's request:		

MARKING		Result
Reference	Test	Description or image
	Method of Marking to the helmet: - ..	
Specifies the following:		
14.3	Protective helmet is clearly marked with its size and its maximum weight, to the nearest 50 grams, as placed on the market.	

THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM

Laboratory Technician
(Adolfo Garlando)



Laboratory Manager
(Juan Pablo Cuesta)



CERTIFICATION TESTING UNECE n°22 Series 05 <i>Internal Identification Test: E5HC</i>	
Job Number	MAT 396058
Report	Code: X72 RACE R PRO Carbon E2205 17043 Ext.03 Date: 21/12/2017
Manufacturer	Name: Shark SAS Address: Zac de la Valentine-110,Route de la Valentine-13396-Marseille(France)
Representative	It does not apply
Sample	Helmet model: X72 Race R Pro Carbon Extension 3 Approval n°: E11-050171/P Stickers from: - to n°: - Batch n°: - Arrival date: 18/12/2017 Testing date: 20/12/2017

Essential Technical Data		
SIZE RANGE	XS(54) to XXL (61-62)	
SHELL MATERIAL	Composite	
WEIGHT	1350±50 [gr] M/S/XS/1450±50 [gr]L/XL	
RETENTION SYSTEM	dd	
REFLECTIVE BANDS	Yes	
ENVIRONMENTAL CONDITIONS	Temperature	22°
	Humidity	51%

Used Machine	Identifier /Manufacturer	expiry Date
M0015 Tracking point of impact	LTB 1079 (AD Engineering)	Daily Check IO 7.2.13
A0059/M0003 Shock absorption	MAU 1006E/DLS 9000 (AD Engineering)	06/01/2018
M0001 Conditioning chamber: Freezer	T616/40 (OCRAS E ZAMBELLI)	08/09/2018
M0075 Conditioning chamber: Oven	ABX 700NE(IARP)	09/09/2018
M0114 Projection and Surface Friction	AD Engineering	26/04/2018
M0044 Chin strap resistance	MSD 1009 (AD Engineering)	10/10/2019
M0033 Chin strap efficiency	ROL 1103/E (AD Engineering)	27/05/2020

Job Number: MAT 396058

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X72 Race R Pro Carbon



Helmet size **XL(61-62)- X72 Race R Pro Carbon**

Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
-	17-2471	62	B	KERB	+50	7.50	1097	167
			X	KERB		7.51	1393	190
			P	KERB		7.62	1747	204
			R	KERB		7.60	894	153
-	17-2472	62	B	FLAT	-20	7.50	1062	170
			X	FLAT		7.62	1306	198
			P	FLAT		7.58	1857	213
			R	FLAT		7.65	1126	161
			S	FLAT		5.50	567	133

Job Number: MAT 396058

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Helmet size M(57)- X72 Race R Pro Carbon								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
-	17-2473	57	B	KERB	+50	7.50	1197	187
			X	KERB		7.51	1343	193
			P	KERB		7.62	1737	194
			R	KERB		7.60	899	193
-	17-2474	57	B	FLAT	-20	7.50	1162	178
			X	FLAT		7.62	1316	188
			P	FLAT		7.58	1817	203
			R	FLAT		7.65	1827	204
			S	FLAT		5.50	522	130

TEST FOR PROJECTION AND SURFACE FRICTION METHOD B

Helmet Client Id	Helmet Internal Id	Test	Tested Point	Result	
				Pass	Fail
X72RR P	17-2477	Projection	Air vent Rear	PASS	-
X72RR P	17-2478	Projection	Air vent Rear	PASS	-

RETENTION SYSTEM STRENGTH TEST Ref. 7.6

Helmet X72RR P				Extension	
Sticker n°	Helmet Internal Id	Size	Chin strap	Dynamic 35 [mm]	Residual 25 [mm]
-	17-2479	L	DD	30	12

ROLL OFF TEST
Ref. 7.7

Sticker n°	Helmet Internal Id	Helmet Size	Chin strap	Roll off Angle ≤ 30°
-	17-2479	L	DD	20

RETENTION SYSTEM STRENGTH TEST Ref. 7.6

Helmet X72RR P				Extension	
Sticker n°	Helmet Internal Id	Size	Chin strap	Dynamic 35 [mm]	Residual 25 [mm]
-	17-2480	XS	DD	26	11

Job Number: MAT 396058

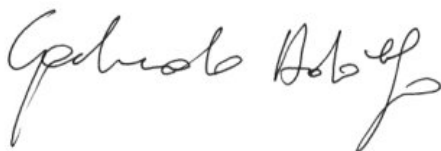
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ROLL OFF TEST				Ref.	7.7
Sticker n°	Helmet Internal Id	Helmet Size	Chin strap	Roll off Angle $\leq 30^\circ$	
-	17-2480	XS	DD	12	

DOUBLE D RING				
<i>Internal Identification Test: E58</i>				
Helmet Internal Id:		Helmet Client Id: Double D Ring		
Internal Id Test	Reference	Test	Result	
			Pass	Fail
E58	7.9	Micro-slip test of the chin strap	X	

DOUBLE D RING				
<i>Internal Identification Test: E58</i>				
Helmet Internal Id:		Helmet Client Id: Double D Ring		
Internal Id Test	Reference	Test	Result	
			Pass	Fail
E58	7.9	Micro-slip test of the chin strap	X	

Laboratory Technician
(Adolfo Garlando)



Laboratory Manager
(Juan Pablo Cuesta)



Job Number: MAT 396058

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COMPANY **SHARK SAS**

Type **X72 Extension 03**

Date of Release: **17/11/2017**

VCA Job number : MAT396058

Released by: **J.P. Cuesta**

By the customer : **A. Rojas**




Revised:

TYPE APPROVAL	XS	S	M	L	XL	
	53-54	55-56	57-58	59-60	61-62	
Shell	Shell-Small		Shell-Large			
EPS	EPS-Small		EPS-Large			
Impacts			2		2	
Detaching	1			1		
Ret. Syst.						
Projections			2			
Rigidity						
Others			1			
Other samples requested by OMEGA	2 complete chin straps not assembled on helmets					
TOTAL SAMPLES TO SEND TO OMEGA (including some margin samples)	1	0	5	1	2	0
						GRAND TOTAL
						9

1. SAMPLES WITH THE REFLECTIVE BANDS

COMPANY **SHARK SAS**


Type **X72 Extension 03**

Date of Release: **17/11/2017** VCA Job number : MAT396058

Released by: **J.P. Cuesta**



By the customer : **A. Rojas**



Revised:

QUALIFICATION OF PRODUCTION	XS	S	M	L	XL	
	53-54	55-56	57-58	59-60	61-62	
Shell	Shell-Small			Shell-Large		
EPS	EPS-Small			EPS-Large		
Impacts						
Detaching	10					
Ret. Syst.						
Others						
Keeping sample			1			
Other samples requested by OMEGA						
TOTAL SAMPLES TO SEND TO OMEGA (including some margin samples)	10	0	1	0	0	0
						GRAND TOTAL
						11

- 1. TO BE CONFIRMED AFTER HOMOLOGATION
- 2. SAMPLES WITH THE REFLECTIVE BANDS

KEEPING SAMPLES Must be the same as in production, including all labelling and marking

VCA JOB NUMER: MAT396058MANUFACTURER: SHARK SASTYPE: X72

The undersigned confirms that the tests conducted under the above job number have been carried out in accordance with the requirements of the specified Regulation/Directive and the Licence between OMEGA S.R.L. and VCA relating to type approval testing.

The undersigned has not been involved in any design nor development work on the products to be approved nor, any related product.

SIGNED:

NAME (in capitals): J.P. CUESTA RUIZDATE: 18th December 2017