



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾ / ~~APPROVAL EXTENDED ⁽¹⁾ /~~
~~APPROVAL REFUSED ⁽⁴⁾ / APPROVAL WITHDRAWN ⁽⁴⁾ / PRODUCTION DEFINITELY~~
~~DISCONTINUED ⁽¹⁾~~ OF A TYPE OF PROTECTIVE HELMET WITHOUT / WITH ⁽¹⁾ ONE / MORE ⁽¹⁾
VISOR TYPE(S) WITHOUT / WITH ⁽¹⁾ ONE / MORE ⁽¹⁾ SPECIFIC ACCESSORY TYPE(S)
PURSUANT TO UN REGULATION NO. 22.06



Approval No: E11*22R06/02*2030*00

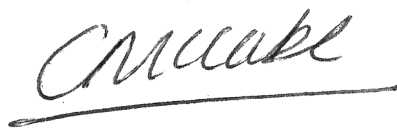
Reason(s) for extension: Not applicable

1. Trade mark: KYT, SUOMY
2. Type: K8H
3. Sizes: XS (53-54); S (55-56); M (57-58); L (59-60);
4. Manufacturer's name: PT TARA CITRA KUSUMA
5. Address:
Jalan Meranti 3 Blok L 10; No 3&5 Delta silicon Industrial Park
Lippo Cikarang Bekasi
Jawa Barat - Indonesia 17550
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) / with detachable or movable lower face cover (P/J) ⁽¹⁾~~
10. Type of visor or visors: K8V

VCA007392-1

11. Brief description of visor or visors and inner visor if any: See manufacturer's documentation
12. ~~Helmet ready for specific accessory (SA)~~ / ready for universal accessories (UA) ⁽¹⁾ Not applicable
13. Accessories included in the helmet homologation and functionality: Not applicable
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: 24 November 2023
16. Technical service responsible for conducting approval tests: Omega S.r.l
17. Date of report issued by that service: 16 April 2024
18. Number of report issued by that service: VCA007392
19. Comments: None
20. Approval GRANTED / ~~EXTENDED~~ / ~~REFUSED~~ / ~~WITHDRAWN~~ ⁽¹⁾
21. Place: BRISTOL
22. Date: 06 JUNE 2024

23. Signature:



C McCABE
Chief Technical and Statutory Operations Officer

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

(1) Strike out what does not apply



Vehicle
Certification
Agency

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: E11*22R06/02*2030*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: 00

Conformity of Production (COP) Declaration COP Confirmed

Assessment Method COP Audit

Date of Initial Clearance April 2021

Date of Last Clearance October 2023

Total number of sheets: 04 (Four)

Reasons for Revision: Not applicable

Revision Date
&
Office Stamp



PT TARA CITRA KUSUMA

Jalan Meranti 3 Blok L 10 No. 3 & 5, Delta Silicon Industrial Park, Lippo Cikarang
Bekasi, Jawa Barat - Indonesia 17550
Tel : (62) (21) 89904777, 89904813 Fax : (62) (21) 89904785

Date: 05 03 2024

Object Application for the approval of a type of protective helmet

Regulation ECE 22.06

Type	K8H
Kind of homologation	E 22 rev 06
Trade Mark/s	KYT , SUOMY
Commercial name/s	KYT TT-REVO, SUOMY TT-REVO, KYT TT-REVO 2, SUOMY TT-REVO 2.

Manufacturer PT TARA CITRA KUSUMA

Manufacturer Address Jalan Meranti 3 Blok L 10 ; No 3&5 Delta silicon Industrial park , Lippo Cikarang
Bekasi Jawa Barat - Indonesia 17550

Assembly Plants Jalan Meranti 3 Blok L 10 ; No 3&5 Delta silicon Industrial park , Lippo Cikarang
Bekasi Jawa Barat - Indonesia 17550

Dear Sirs,

We hereby apply for the approval of the above-mentioned item according the regulation N°22.06,

We confirm that for this type ECE-Approval has neither been applied for nor been granted in any other ECE member state.

Best regards,

Fabio Frattini
Homologation manager





PT TARA CITRA KUSUMA

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Bekasi, Jawa Barat - Indonesia 17550

Tel : (62) (21) 89904777, 89904813 Fax : (62) (21) 89904785

TECHNICAL DATA SHEET

MANUFACTURER DETAILS

MANUFACTURER NAME: Pt TARACIUTRA KUSUMA

TYPE	K8H
KIND OF HOMOLOGATION	E 22 rev. 06
TRADE MARK/s	KYT ; SUOMY

ASSEMBLY PLANTS : Jalan Meranti 3 Blok L 10 ; No 3&5 Delta silicon Industrialspark , Lippo Cikarang
Bekasi Jawa Barat - Indonesia 17550

NAME OF THE MANUFACTURERS REPRESENTATIVE: Not applicable

SIZES & WEIGHT

Designation	XS	S	M	L	XL	XXL
SHELL	1	1	2	2	3	3
EPS	1	1	2	2	3	3
SIZE [cm]	53-54	55-56	57-58	59 – 60		
WEIGHT : helmet [g]	1500±50gr	1500±50gr	1550±50gr	1550±50gr		
WEIGHT with Pinlock lens	1530±50gr	1530±50gr	1580±50gr	1580±50gr		

MARKING

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

MATERIALS

SHELL	ABS
LINER	expanded polystyrene
REINFORCING MATERIAL	= =
COMFORT PADDING	polyester fabric with polyurethane foam
REFLECTING BANDS	3 M 13050 Scotchlite reflective sheeting . They will be applied only in the countries where an explicit request will be sent
SEAL SYSTEM	EPDM rubber
VISOR	K8V under homologation
ACCESSORIES	Not applicable

RETENTION SYSTEM :

RATCHET	Inox steel
RIVET	Inox steel
CHIN STRAP	Polyester
BUCKLE	DD ring Inox Steel ; Micrometric Buckle

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.

ACCESSORIES

Not applicable

ASSEMBLING INSTRUCTIONS

See "Exploded" page into the enclosed "DOSSIER-HOMOLOGATION"





PT TARA CITRA KUSUMA

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Bekasi, Jawa Barat - Indonesia 17550

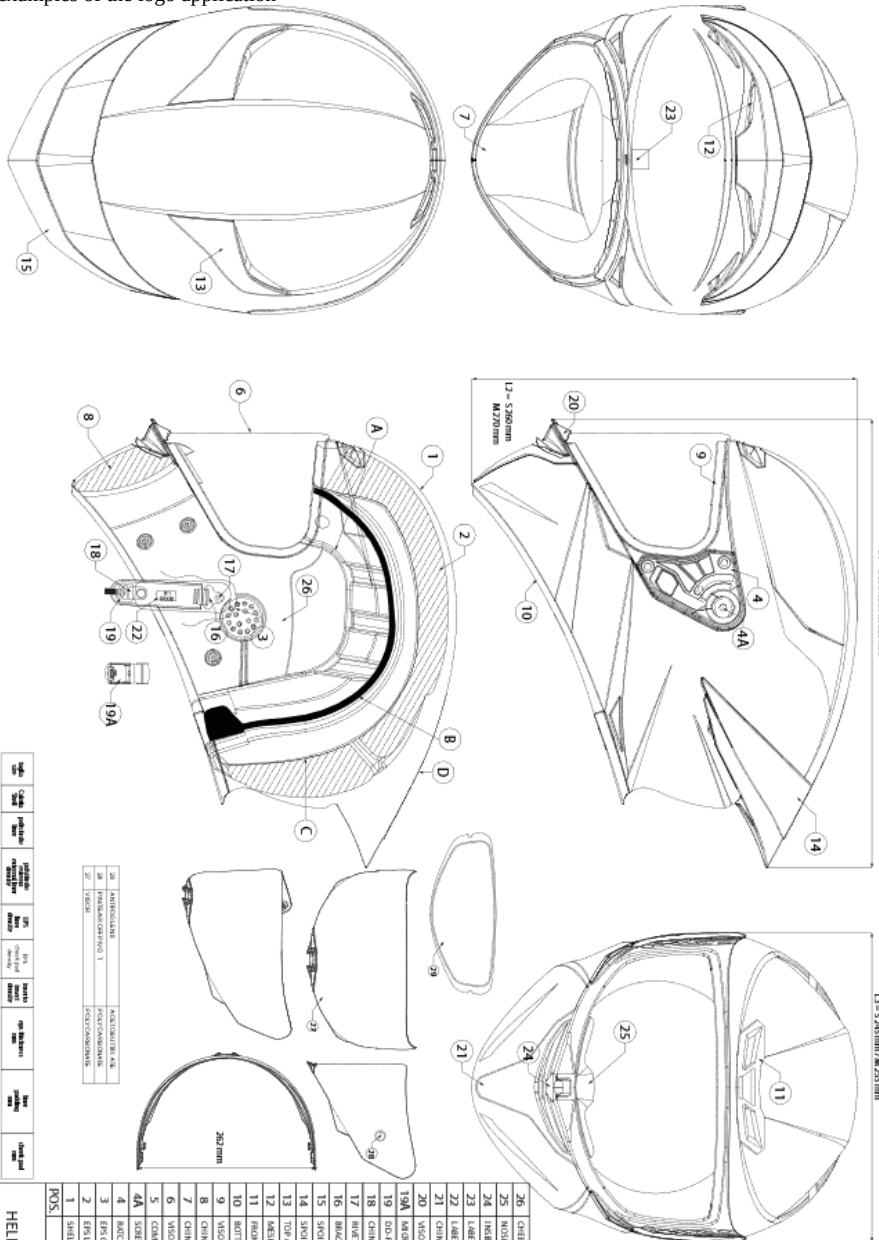
Tel : (62) (21) 89904777, 89904813 Fax : (62) (21) 89904785

HELMET DRAWINGS

See enclosed "DOSSIER-HOMOLOGATION"

LOGO APPLICATION

See some examples of the logo application

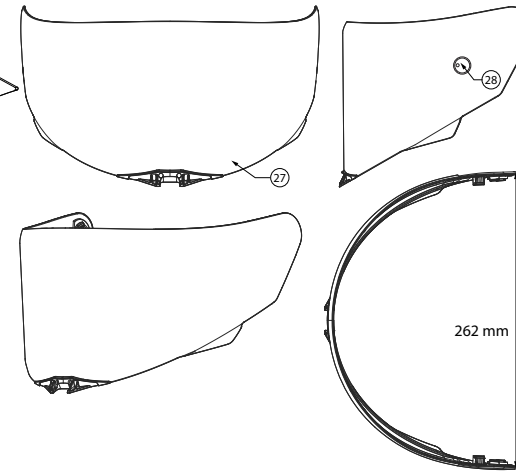
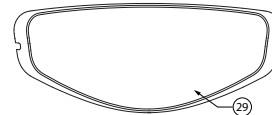
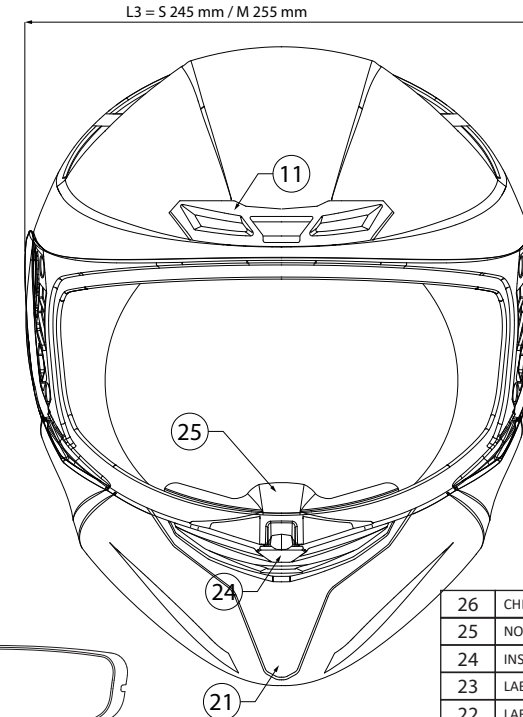
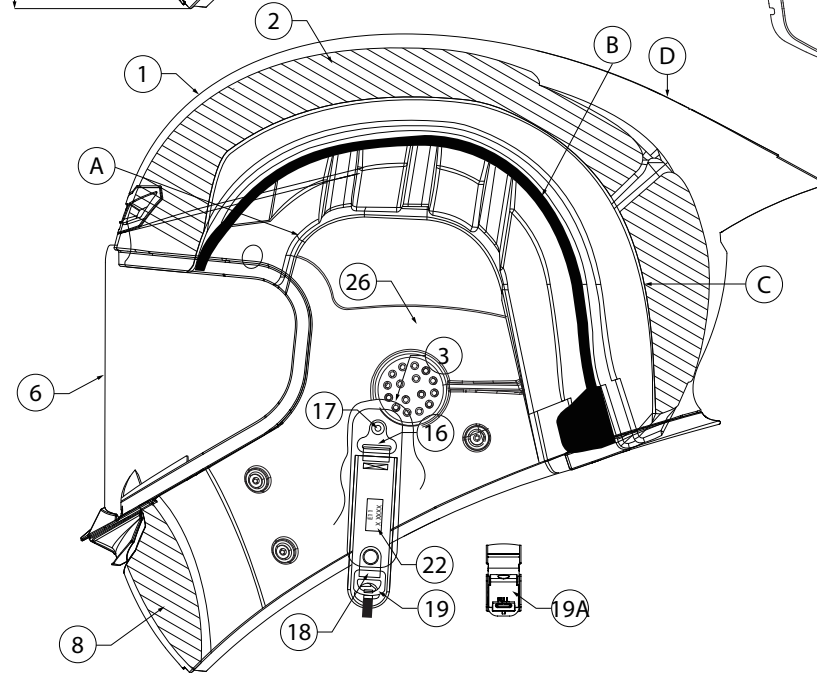
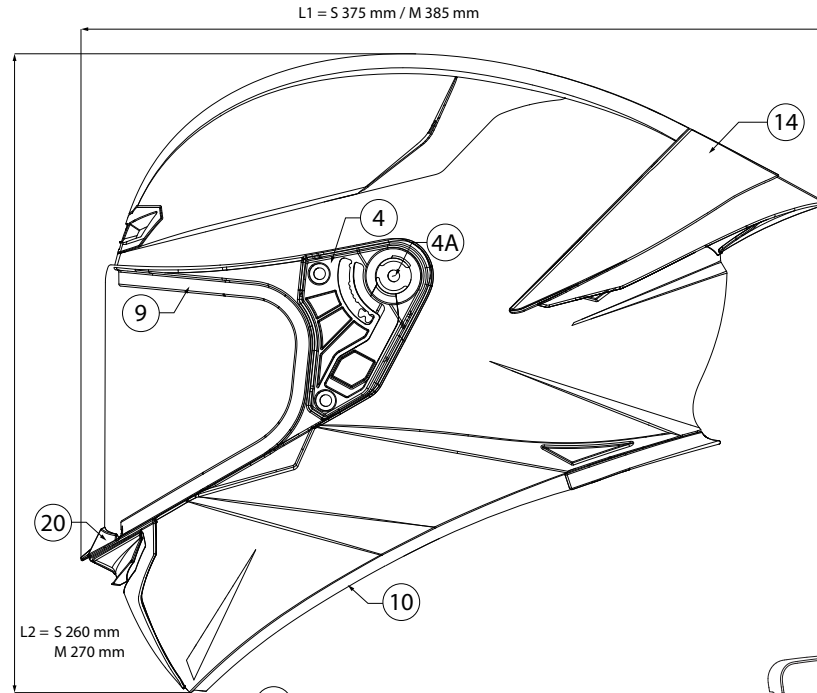
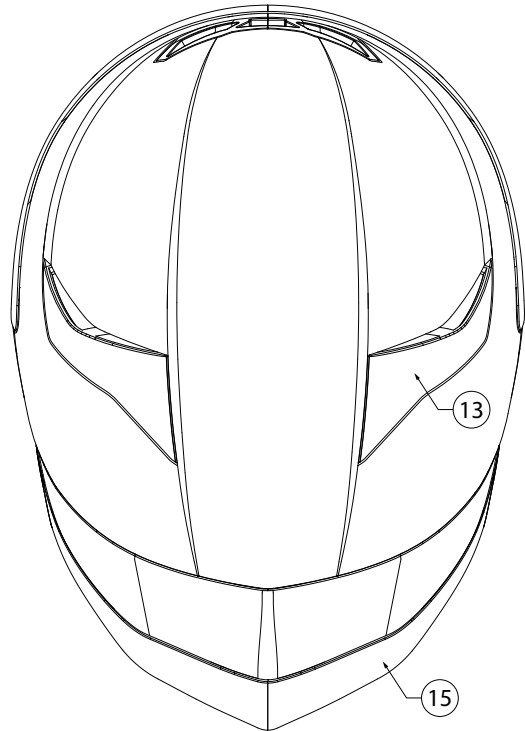
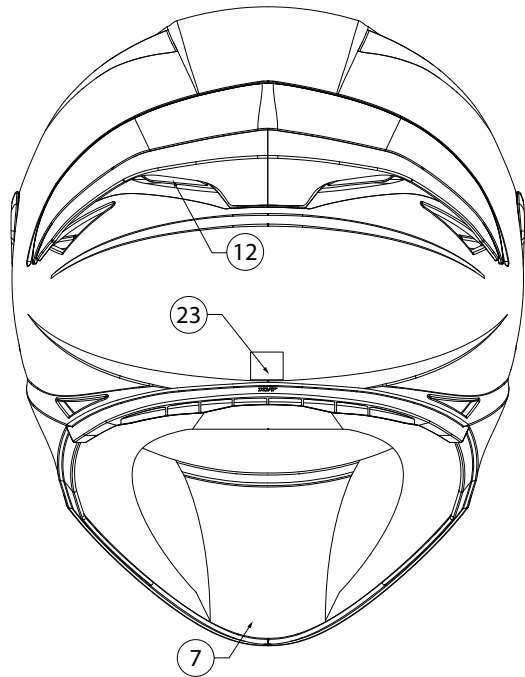


NO	DESCRIPTION
1	HELMET
2	CHIN GUARD
3	CHIN GUARD COVER
4	CHIN GUARD COVER
5	CHIN GUARD COVER
6	CHIN GUARD COVER
7	CHIN GUARD COVER
8	CHIN GUARD COVER
9	CHIN GUARD COVER
10	CHIN GUARD COVER
11	CHIN GUARD COVER
12	CHIN GUARD COVER
13	CHIN GUARD COVER
14	CHIN GUARD COVER
15	CHIN GUARD COVER
16	CHIN GUARD COVER
17	CHIN GUARD COVER
18	CHIN GUARD COVER
19	CHIN GUARD COVER
20	CHIN GUARD COVER
21	CHIN GUARD COVER
22	CHIN GUARD COVER
23	CHIN GUARD COVER
24	CHIN GUARD COVER
25	CHIN GUARD COVER
26	CHIN GUARD COVER

POS.	DESCRIPTION	MATERIAL
1	SHELL	PC/ABS
2	CHIN GUARD	PC/ABS
3	CHIN GUARD COVER	PC/ABS
4	CHIN GUARD COVER	PC/ABS
5	CHIN GUARD COVER	PC/ABS
6	CHIN GUARD COVER	PC/ABS
7	CHIN GUARD COVER	PC/ABS
8	CHIN GUARD COVER	PC/ABS
9	CHIN GUARD COVER	PC/ABS
10	CHIN GUARD COVER	PC/ABS
11	CHIN GUARD COVER	PC/ABS
12	CHIN GUARD COVER	PC/ABS
13	CHIN GUARD COVER	PC/ABS
14	CHIN GUARD COVER	PC/ABS
15	CHIN GUARD COVER	PC/ABS
16	CHIN GUARD COVER	PC/ABS
17	CHIN GUARD COVER	PC/ABS
18	CHIN GUARD COVER	PC/ABS
19	CHIN GUARD COVER	PC/ABS
20	CHIN GUARD COVER	PC/ABS
21	CHIN GUARD COVER	PC/ABS
22	CHIN GUARD COVER	PC/ABS
23	CHIN GUARD COVER	PC/ABS
24	CHIN GUARD COVER	PC/ABS
25	CHIN GUARD COVER	PC/ABS
26	CHIN GUARD COVER	PC/ABS

ITEM	DESCRIPTION	QTY	UNIT	REMARKS
1	HELMET	1	PC	
2	CHIN GUARD	1	PC	
3	CHIN GUARD COVER	1	PC	
4	CHIN GUARD COVER	1	PC	
5	CHIN GUARD COVER	1	PC	
6	CHIN GUARD COVER	1	PC	
7	CHIN GUARD COVER	1	PC	
8	CHIN GUARD COVER	1	PC	
9	CHIN GUARD COVER	1	PC	
10	CHIN GUARD COVER	1	PC	
11	CHIN GUARD COVER	1	PC	
12	CHIN GUARD COVER	1	PC	
13	CHIN GUARD COVER	1	PC	
14	CHIN GUARD COVER	1	PC	
15	CHIN GUARD COVER	1	PC	
16	CHIN GUARD COVER	1	PC	
17	CHIN GUARD COVER	1	PC	
18	CHIN GUARD COVER	1	PC	
19	CHIN GUARD COVER	1	PC	
20	CHIN GUARD COVER	1	PC	
21	CHIN GUARD COVER	1	PC	
22	CHIN GUARD COVER	1	PC	
23	CHIN GUARD COVER	1	PC	
24	CHIN GUARD COVER	1	PC	
25	CHIN GUARD COVER	1	PC	
26	CHIN GUARD COVER	1	PC	

ITEM	DESCRIPTION	QTY	UNIT	REMARKS
1	HELMET	1	PC	
2	CHIN GUARD	1	PC	
3	CHIN GUARD COVER	1	PC	
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5	CHIN GUARD COVER	1	PC	
6	CHIN GUARD COVER	1	PC	
7	CHIN GUARD COVER	1	PC	
8	CHIN GUARD COVER	1	PC	
9	CHIN GUARD COVER	1	PC	
10	CHIN GUARD COVER	1	PC	
11	CHIN GUARD COVER	1	PC	
12	CHIN GUARD COVER	1	PC	
13	CHIN GUARD COVER	1	PC	
14	CHIN GUARD COVER	1	PC	
15	CHIN GUARD COVER	1	PC	
16	CHIN GUARD COVER	1	PC	
17	CHIN GUARD COVER	1	PC	
18	CHIN GUARD COVER	1	PC	
19	CHIN GUARD COVER	1	PC	
20	CHIN GUARD COVER	1	PC	
21	CHIN GUARD COVER	1	PC	
22	CHIN GUARD COVER	1	PC	
23	CHIN GUARD COVER	1	PC	
24	CHIN GUARD COVER	1	PC	
25	CHIN GUARD COVER	1	PC	
26	CHIN GUARD COVER	1	PC	



29	ANTIFOG LENS	ACETOBUTIRATE
28	PIN/TEAR OFF PIVOT	POLYCARBONATE
27	VISOR	POLYCARBONATE

taglia size	Calotta Shell	polistirolo liner	polistirolo esterno external liner density	EPS liner density	EPS cheek pad density	inserto insert density	eps thickness mm	liner padding mm	cheek pad mm
XS 53-54	1	S	30 gr/l	25 gr/l	40 gr/l	30 gr/l	B:46, X:37, P:45, R:49	B:24, X:24, P:15, R:24	35
S 55-56	1	S	35 gr/l	30 gr/l	40 gr/l	30 gr/l	B:45, X:36, P:38, R:42	B:22, X:22, P:15, R:22	30
M 57-58	2	M	40 gr/l	30 gr/l	40 gr/l	30 gr/l	B:45, X:36, P:38, R:42	B:18, X:18, P:15, R:25	30
L 59-60	2	M	40 gr/l	30 gr/l	50 gr/l	30 gr/l	B:47, X:35, P:45, R:49	B:15, X:15, P:15, R:23	25
XL 61-62	3								
XXL 63	3								

26	CHEEK COVER	POLYPROPYLENE
25	NOSE GUARD	PVC
24	INSERT VISOR LOCK	POM (POLYOXYMETHYLENE)
23	LABEL SIZE/WEIGHT	-
22	LABEL HOMOLOGATION	-
21	CHIN VENT	POLYCARBONATE
20	VISOR LOCK	POM (POLYOXYMETHYLENE)
19A	MICROLOCK	STAINLESS STEEL
19	DD-RING	STAINLESS STEEL
18	CHINSTRAP	POLYESTER
17	RIVET	STAINLESS STEEL
16	BRACKET	STAINLESS STEEL
15	SPOILER EXTENSION	POLYCARBONATE
14	SPOILER	POLYCARBONATE
13	TOP AIR VENT	POLYCARBONATE
12	MESH	STAINLESS STEEL
11	FRONT AIR VENT	POLYCARBONATE
10	BOTTOM TRIM	PVC
9	VISOR TRIM	PVC
8	CHIN GUARD	POLYSTYRENE
7	CHIN GUARD COVER	POLYPROPYLENE
6	VISOR	POLYCARBONATE
5	COMFORT PADDING	NYLON + PU FOAM
4A	SCREW RATCHET	STAINLESS STEEL
4	RATCHET	POM (POLYOXYMETHYLENE)
3	EPS CHEEK	POLYSTYRENE
2	EPS LINER	POLYSTYRENE
1	SHELL	ABS
POS.	DESCRIPTION	MATERIAL
HELMET		K8H up
		01 Vehicle Certification Agency
PT TARA CITRA KUSUMA		06-Jun-24
		TCK

QUALIFICATION TESTING
UNECE n°22 Series 06

Job Number	VCA007392		
Report	Code:	PT.TAR K8H Helmet Qualification 20240416	
	Date:	16/04/2024	
Manufacturer	Name:	PT. Tara Citra Kusuma	
	Address:	Jl. Meranti 3 Blok L 10 No 3 & 5 Delta Silicon Industrial Park Lippo Cikarang Bekasi - Indonesia 17550	
Representative	[it does not apply]		
Sample	Helmet model:	K8H	
	Approval n°:	E11*22R06/02*2030*00	
	Stickers from n°:	1	to n°: 3200 Batch n°: 1
	Arrival date:	03/01/2024	Testing date: 16/04/2024

Essential Technical Data

SIZE RANGE	[XS 53-54cm S 55-56cm M 57-58cm L 59-60cm]	
SHELL MATERIAL	[ABS]	
WEIGHT	[gr XS-S 1500 ± 50, M-L 1550 ± 50]	
RETENTION SYSTEM	[Micrometric, DD Ring]	
REFLECTIVE BANDS	No	
ENVIRONMENTAL CONDISTIONS	Temperature [°C]	[22]

Used Machine	Identifier /Manufacturer	Expiry Date
Tracking point of impact	L4 (AD Engineering)	Daily Check IO 7.2.13
Shock absorption / DLS 9000	L1 (AD Engineering)	[15 May 2024]
Chin strap resistance	L5 (Hototech)	[9 December 2024]
Conditioning chamber: Freezer	L10 (Hototech)	[05 December 2024]
Conditioning chamber: Oven	L9 (Hototech)	[05 December 2024]

The Helmet has been tested in the different configurations as supplied by the client.

The helmets are divided in n°			8	batches
Group n°		Size	helmets	
1	The largest size	L	10	
2	The largest size	L	10	
3	The largest size	S	10	
4	The largest size	S	10	
5	The smallest size	M DD	10	
6	The smallest size	M Micrometric	10	
7	The smallest size	XS DD	10	
8	The smallest size	XS Micrometric	10	

SHOCK ABSORPTION TESTS

Ref. 7.3

Group n°1		L (59-60)			
Head-form: “60”		Impact Point: “B”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000001	24-0675		7.55	987	129
000002	24-0676		7.53	976	127
000003	24-0677		7.53	992	135
000004	24-0678		7.55	987	130
000005	24-0679		7.53	1005	130
000006	24-0680		7.53	1006	130
000007	24-0681		7.55	971	131
000008	24-0682		7.53	992	128
000009	24-0683		7.53	966	129
000010	24-0684		7.53	939	123
Mean of the value				$g_m = \sum g_i / 10$	129
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{\frac{1}{2}}$	3
Condition				$g_m + 2.4 \cdot S \leq 275$	137

Group n°1		L (59-60)			
Head-form: “60”		Impact Point: “R”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000001	24-0675		7.53	685	104
000002	24-0676		7.55	521	86
000003	24-0677		7.51	760	112
000004	24-0678		7.55	476	84
000005	24-0679		7.53	563	107
000006	24-0680		7.55	614	97
000007	24-0681		7.53	551	95
000008	24-0682		7.53	566	91
000009	24-0683		7.59	517	84
000010	24-0684		7.53	547	96
Mean of the value				$g_m = \sum g_i / 10$	96
Standard deviation				$S = [\sum (g_i - g_m)^2 / 9]^{1/2}$	10
Condition				$g_m + 2.4 \cdot S \leq 275$	119

Group n°2		L (59-60)			
Head-form: “60”		Impact Point: “X”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000011	24-0665		7.53	2070	237
000012	24-0666		7.55	2007	231
000013	24-0667		7.53	2004	234
000014	24-0668		7.55	2004	233
000015	24-0669		7.55	1926	225
000016	24-0670		7.55	2022	234
000017	24-0671		7.53	2073	235
000018	24-0672		7.51	2003	232
000019	24-0673		7.51	2010	233
000020	24-0674		7.53	2021	236
Mean of the value				$g_m = \sum g_i / 10$	233
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	3
Condition				$g_m + 2.4 \cdot S \leq 275$	241

Group n°2		L (59-60)			
Head-form: “60”		Impact Point: “P”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000011	24-0665		7.53	2108	223
000012	24-0666		7.53	2028	214
000013	24-0667		7.53	1917	203
000014	24-0668		7.55	2037	205
000015	24-0669		7.55	1967	216
000016	24-0670		7.55	2169	225
000017	24-0671		7.51	1983	218
000018	24-0672		7.53	2024	203
000019	24-0673		7.53	2015	219
000020	24-0674		7.59	1968	203
Mean of the value				$g_m = \sum g_i / 10$	213
Standard deviation				$s = [\sum (g_i - g_m)^2 / 9]^{1/2}$	9
Condition				$g_m + 2.4 \cdot S \leq 275$	234

Group n°2		L (59-60)			
Head-form: “60”		Impact Point: “S”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000011	24-0665		6.04	456	127
000012	24-0666		6.04	450	113
000013	24-0667		6.04	631	146
000014	24-0668		6.04	535	134
000015	24-0669		6.05	531	124
000016	24-0670		6.05	525	137
000017	24-0671		6.02	538	125
000018	24-0672		6.04	563	130
000019	24-0673		6.04	555	135
000020	24-0674		6.05	594	140
Mean of the value				$g_m = \sum g_i / 10$	131
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{\frac{1}{2}}$		9
Condition				$g_m + 2.4 \cdot S \leq 275$	154

Group n°3		S (55-56)			
Head-form: “54”		Impact Point: “B”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000021	24-0695		7.53	1014	139
000022	24-0696		7.53	1033	133
000023	24-0697		7.53	1004	131
000024	24-0698		7.53	1048	139
000025	24-0699		7.51	1047	137
000026	24-0700		7.53	1049	145
000027	24-0701		7.51	1040	139
000028	24-0702		7.51	1048	142
000029	24-0703		7.53	1044	141
000030	24-0704		7.59	1017	140
Mean of the value				$g_m = \sum g_i / 10$	139
Standard deviation				$s = [\sum (g_i - g_m)^2 / 9]^{1/2}$	4
Condition				$g_m + 2.4 \cdot S \leq 275$	148

Group n°3		S (55-56)			
Head-form: “54”		Impact Point: “R”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000021	24-0695		7.55	681	113
000022	24-0696		7.53	511	92
000023	24-0697		7.51	580	124
000024	24-0698		7.51	762	109
000025	24-0699		7.51	571	106
000026	24-0700		7.51	582	128
000027	24-0701		7.51	562	112
000028	24-0702		7.51	564	109
000029	24-0703		7.53	534	111
000030	24-0704		7.51	568	128
Mean of the value $g_m = \sum g_i / 10$					113
Standard deviation $S = [\sum (g_i - g_m)^2 / 9]^{1/2}$					11
Condition $g_m + 2.4 \cdot S \leq 275$					140

Group n°4		S (55-56)			
Head-form: “54”		Impact Point: “X”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000031	24-0685		7.53	2249	248
000032	24-0686		7.53	2159	246
000033	24-0687		7.51	2148	241
000034	24-0688		7.53	2167	243
000035	24-0689		7.55	2188	243
000036	24-0690		7.51	2189	243
000037	24-0691		7.51	2103	237
000038	24-0692		7.59	2145	240
000039	24-0693		7.53	2146	242
000040	24-0694		7.53	2233	245
Mean of the value				$g_m = \sum g_i / 10$	243
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	3
Condition				$g_m + 2.4 \cdot S \leq 275$	250

Group n°4		S (55-56)			
Head-form: “54”		Impact Point: “P”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000031	24-0685		7.51	2027	195
000032	24-0686		7.51	1759	178
000033	24-0687		7.51	1973	193
000034	24-0688		7.56	1830	200
000035	24-0689		7.53	1818	180
000036	24-0690		7.51	1935	182
000037	24-0691		7.51	1681	178
000038	24-0692		7.53	1754	178
000039	24-0693		7.59	1865	185
000040	24-0694		7.53	2031	196
Mean of the value				$g_m = \sum g_i / 10$	187
Standard deviation				$s = [\sum (g_i - g_m)^2 / 9]^{\frac{1}{2}}$	9
Condition				$g_m + 2.4 \cdot S \leq 275$	207

Group n°4		S (55-56)			
Head-form: “54”		Impact Point: “S”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000031	24-0685		6.02	364	101
000032	24-0686		6.04	631	153
000033	24-0687		6.02	470	105
000034	24-0688		6.04	463	98
000035	24-0689		6.01	692	154
000036	24-0690		6.04	524	122
000037	24-0691		6.02	536	143
000038	24-0692		6.04	599	148
000039	24-0693		6.02	488	114
000040	24-0694		6.04	456	120
Mean of the value				$g_m = \sum g_i / 10$	126
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	22
Condition				$g_m + 2.4 \cdot S \leq 275$	178

RETENTION SYSTEM STRENGTH

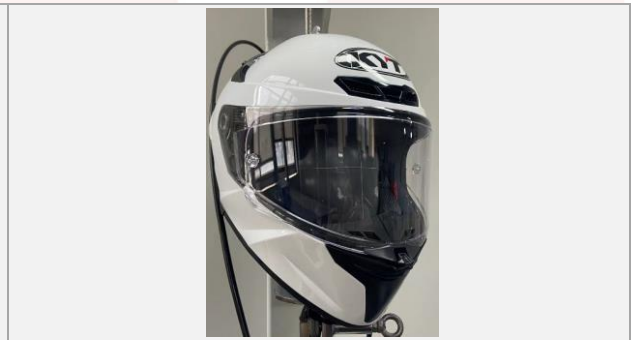
Ref. 7.6

Group n°5			M (57-58)		
Head-form: “57”		Description: [DD]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000041	24-0705			29	15.1
000042	24-0706			29.2	14.7
000043	24-0707			30.6	17.2
000044	24-0708			30.5	16.7
000045	24-0709			29.1	19.6
000046	24-0710			32.5	20.8
000047	24-0711			28.5	16.5
000048	24-0712			32.5	20.6
000049	24-0713			31.5	19.9
000050	24-0714			30	17.6
Mean of the value				Xm	30
Standard deviation			S	1	2
Condition			$Xm + 2,4 \cdot S$	34	23

Group n°6			M (57-58)		
Head-form: “57”		Description: [Micrometric]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000051	24-0715			30	18
000052	24-0716			30.4	20.7
000053	24-0717			30.6	19
000054	24-0718			32.4	21.6
000055	24-0719			31.8	19.6
000056	24-0720			28.9	17.1
000057	24-0721			29	16.4
000058	24-0722			29.5	16.9
000059	24-0723			29.1	17.1
000060	24-0724			29.3	17.4
Mean of the value				Xm	30
Standard deviation			S	1	2
Condition			$Xm + 2,4 \cdot S$	33	23

Group n°7			XS (53-54)		
Head-form: “54”		Description: [DD]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000061	24-0725			30.8	16.2
000062	24-0726			32.9	19.1
000063	24-0727			32.5	19.2
000064	24-0728			30.2	17.5
000065	24-0729			32.2	19.2
000066	24-0730			29.5	16.7
000067	24-0731			31.6	19.9
000068	24-0732			32	19.9
000069	24-0733			31.6	18.9
000070	24-0734			31	18.8
Mean of the value				Xm	31
Standard deviation			S	1	1
Condition			$Xm + 2,4 \cdot S$	34	22

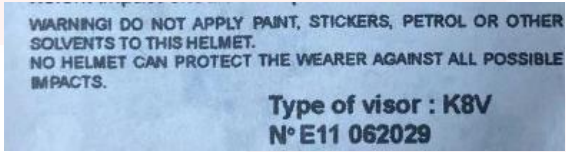
Group n°8		XS (53-54)			
Head-form:	"54"	Description: [Micrometric]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000071	24-0735			31	23.1
000072	24-0736			32.5	20.1
000073	24-0737			31.5	20.5
000074	24-0738			29.2	18.4
000075	24-0739			31.3	20.8
000076	24-0740			30.7	20.1
000077	24-0741			32.9	19.8
000078	24-0742			30.5	18.4
000079	24-0743			30.4	18.5
000080	24-0744			31.4	20.8
Mean of the value		X_m		31	20
Standard deviation		S		1	1
Condition		$X_m + 2,4S$		34	23


INFORMATION FOR WEARERS

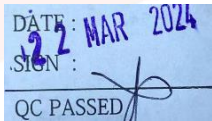
Ref. 14

LABELLING

Ref.	Requirement	Description or image
	Method of Attachment to helmet at point of sale	

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" 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.	 [Not Applicable]
14.2	specific warning in the above-mentioned label: " 'Warning' - Do not apply paint, stickers, petrol or other solvents to this helmet".	
14.4	bears a label showing the type or types of visor that have been approved at the manufacturer's request.	See 14.2

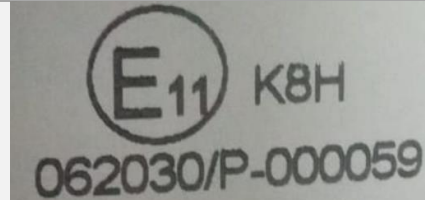
MARKING

Ref.	Requirement	Description or image
	Method of Marking to the helmet	
4.1.1	the applicant's trade name or mark,	
	an indication of the size (in letter and cm)	See 14.3
	the year of production	
	if appropriate, an indication of the unsuitability of the lower face cover to offer any protection against impacts to the chin.	NOT APPLICABLE

14.3 protective helmet is clearly marked with its size and its maximum weight, to the nearest 50 grams, as placed on the market.



ANNEX 2A The approval number and the production serial number shall be placed close to the circle and either above or below the letter "E" or to the left or right of that letter.



THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM

Laboratory Technician
(Gao Yaming)

Gao Yaming

Laboratory Manager
(Kidman Yu)

Kidman Yu

(Juan Pablo Cuesta)

Juan Pablo Cuesta

TYPE APPROVAL TESTING
UNECE n°22 Series 06

Job Number	[VCA007392]		
Report	Code:	PTTARA K8H E06 Helmet Approval 20240226	
	Date:	26/02/2024	
Manufacturer	Name:	PT. Tara Citra Kusuma	
	Address:	Jl. Meranti 3 Blok L 10 No 3 & 5 Delta Silicon Industrial Park Lippo Cikarang Bekasi - Indonesia 17550	
Representative	[it does not apply]		
Sample	Helmet model:	K8H	
	Approval n°:	n/a	
	Stickers from n°:	n/a	to n°: n/a Batch n°: n/a
	Arrival date:	24/11/2023	Testing date: 26/02/2024
Test Site	[OMEGA CHINA] / [OMEGA ITALY]		

Essential Technical Data

SIZE RANGE	[XS 53-54cm S 55-56cm M 57-58cm L 59-60cm]	
SHELL MATERIAL	[ABS]	
WEIGHT	[gr XS-S 1500 ± 50, M-L 1550 ± 50]	
RETENTION SYSTEM	[Micrometric, DD Ring]	
REFLECTIVE BANDS	No	
ENVIRONMENTAL CONDITIONS	Temperature [°C]	[22]

Used Machine	Identifier /Manufacturer	Expiry Date
Tracking point of impact	L4 (AD Engineering)	Daily Check IO 7.2.13
Shock absorption / DLS 9000	L1 (AD Engineering)	[15 March 2024]
Chin strap resistance	L5 (Hototech)	[9 December 2024]
Conditioning chamber: Freezer	L10 (Hototech)	[05 December 2024]
Conditioning chamber: Oven	L9 (Hototech)	[05 December 2024]
Compressibility	M0030 (AD Engineering)	[21/05/2025]
Chin strap efficiency [Roll-off]	L7 (Hototech)	[06/01/2025]

The Helmet has been tested in the different configurations as supplied by the client.

Job Number: [VCA007392]



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1/12-Jun-24

HELMET IMAGES



Front



Side 1



Side 2



Rear

GENERAL SPECIFICATION TEST
SIZES XS (53-54) S (55-56) M (57- 58) L (59-60)

Reference	General Specification		Result	
			Pass (or N/A)	Fail
6.1	Hard shell		Pass	
6.1	Impact absorption system (see test data in this report)		Pass	
6.1	Retention system		Pass	
6.2.2	Marked "Does not protect chin from impacts" (if applicable)		N/A	
6.4.1	Extent of protection		Pass	
6.4.2	Nape cylinder		Pass	
6.4.3	Protective padding		Pass	
6.5	Outer round surface – Auditive faculties		Pass	
6.6	Projections (≥ 2 mm)		Pass	
6.7	External Projections ($h \leq 2$ mm – $r \geq 1$ mm) ; ($h \geq 2$ mm – $r \geq 2$ mm)		Pass	
6.8	Helmet interior		Pass	
6.9	Assembly		Pass	
6.10	Chin strap abrasion		Pass	
6.11 - 6.11.1	Retention system – Chin strap width (≥ 20 mm)		Pass	
6.11.2	Under-chin		Pass	
6.11.3	Chin strap regulation system		Pass	
6.11.4	Rigid parts		Pass	
6.11.5	Buckle – "Double D" or "Roller buckle"		Pass	
6.11.6	Pulling flap (red 10 x 20mm)		Pass	
6.11.7	Quick release (general requirement)		Pass	
6.11.8	Quick release (tests par. 7.3, 7.6, 7.7)		Pass	
6.11.9	Wrong buckle use		Pass	
6.12	P/J helmets: device that maintains the intended position even during the complete series of impacts and retention (detaching) test (red)		N/A	
6.13	Material properties (manufacturer declaration)		Pass	
6.14	Helmet breaking		Pass	
6.15, 6.15.3.1 6.15.3.2 6.15.3.3	Peripheral vision:	Lateral visual clearance 105°	Pass	
		Upward visual clearance 7°	Pass	
		Downward visual clearance 45°	Pass	
6.18.2 to 6.18.6	Reflective parts (see test reports)		N/A	

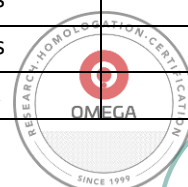
Job Number: [VCA007392]

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3/12-Jun-24

SPECIFICATION

H.F. Size	[54 to 62]
Impact point	B / P / X / R / S Extra Point
Anvil	Kerbstone / Flat
Impact point Rotational	45° / 180° / 270° / 0° / 135°
Anvil	45° anvil
Conditioning [°C]	
AMB	25 °C ± 5 °C for more than 4 hours
LOW	-10 °C ± 2 °C for more than 4 hours
HIGH	+50 °C ± 2 °C for more than 4 hours and less than 8 hours
UV+H ₂ O	Ultraviolet radiation by a 150-watt xenon- 48 hours Water spray 4 to 6 hours, 1 litre per minute
Speed [m/s]	7.5 m/s + 0.15 m/s (6-0 + 0.15 m/s for the S point) High Speed 8.2 m/s + 0.15 m/s Low Speed 6.0 m/s + 0.15 m/s
HIC	≤ 2400 High Speed ≤ 2880 Low Speed ≤ 1300 Rotational 0.78
Deceleration	≤ 275 Low Speed ≤ 180 Rotational ≤ 10400 rad/s ²

Job Number: [VCA007392]



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4/12 Jun-24

IMPACT ABSORPTION TESTS

Ref. 7.3

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	23-4203	60	B	FLAT	AMB	7.53	189	1593
			X	FLAT		7.51	245	1991
			P	FLAT		7.51	194	2016
			R	FLAT		7.56	171	1128
-	23-4204	60	B	KERB	AMB	7.51	138	996
			X	KERB		7.51	156	1093
			P	KERB		7.53	234	1645
			R	KERB		7.53	109	580
-	23-4205	60	B	KERB	+50	7.53	127	996
			X	KERB		7.51	183	1325
			P	KERB		7.55	218	149
			R	KERB		7.55	140	873
-	23-4206	60	B	FLAT	-10	7.53	188	1492
			X	FLAT		7.53	253	2082
			P	FLAT		7.53	202	2122
			R	FLAT		7.53	165	1005
			S	FLAT		6.02	120	530
-	23-4207	60	B	FLAT	UV + WET	7.55	195	1585
			X	FLAT		7.51	243	1944
			P	FLAT		7.51	198	2026
			R	FLAT		7.53	167	1108

Job Number: [VCA007392]



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5/12 Jun-24

Helmet size M (57-58)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	23-4208	57	B	KERB	+50	7.53	144	1027
			X	KERB		7.51	180	1262
			P	KERB		7.51	206	1622
			R	KERB		7.59	99	465
-	23-4209	57	B	FLAT	-10	7.51	210	1857
			X	FLAT		7.53	243	2014
			P	FLAT		7.51	213	2311
			R	FLAT		7.51	162	1006
			S	FLAT		6.02	133	564

Job Number: [VCA007392]



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6/12 Jun-24

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	23-4212	54	B	FLAT	AMB	7.59	183	1510
			X	FLAT		7.51	235	1919
			P	FLAT		7.53	183	1748
			R	FLAT		7.51	181	1528
-	23-4213	54	B	KERB	AMB	7.53	139	1034
			X	KERB		7.51	238	1613
			P	KERB		7.59	182	1519
			R	KERB		7.51	100	550
-	23-4214	54	B	KERB	+50	7.53	134	1013
			X	KERB		7.53	206	1650
			P	KERB		7.59	218	1687
			R	KERB		7.51	141	1011
-	23-4215	54	B	FLAT	-10	7.51	194	1640
			X	FLAT		7.51	232	1907
			P	FLAT		7.51	195	2026
			R	FLAT		7.51	179	1299
			S	FLAT		6.01	140	625
-	23-4216	54	B	FLAT	UV +WET	7.51	185	1527
			X	FLAT		7.59	235	1916
			P	FLAT		7.51	192	1995
			R	FLAT		7.51	161	1071

IMPACT ABSORPTION TESTS, EXTRA POINTS

Ref. 7.3 & 7.3.4.2.1

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	23-4192	60	BXL	KERB	AMB	7.51	143	1005
			RXR	KERB		7.56	123	748
			BXPR	KERB		7.51	175	1239
			RXPL	KERB		7.55	156	1202
-	23-4191	60	BXL	FLAT	AMB	7.51	188	1480
			RXR	FLAT		7.56	168	1237
			BXPR	FLAT		7.53	210	1698
			RXPL	FLAT		7.53	172	1549

Job Number: [VCA007392]

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7/12-Jun-24

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	23-4198	54	BXL	KERB	AMB	7.51	141	989
			RXR	KERB		7.54	140	829
			BXPR	KERB		7.51	133	1078
			RXPL	KERB		7.59	171	1098
-	23-4197	54	BXL	FLAT	AMB	7.51	182	1403
			RXR	FLAT		7.51	184	1388
			BXPR	FLAT		7.53	171	1429
			RXPL	FLAT		7.51	189	1638

HIGH ENERGY IMPACT TESTS

Ref. 7.3 & 7.3.1.4

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.35÷8.2 [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2880
-	23-4193	60	B	FLAT	AMB	8.20	213	2173
			X	FLAT		8.20	268	2659
			P	FLAT		8.25	241	2498
			R	FLAT		8.22	209	1987

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.35÷8.2 [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2880
-	23-4199	54	B	FLAT	AMB	8.20	202	1869
			X	FLAT		8.22	266	2538
			P	FLAT		8.27	217	2551
			R	FLAT		8.22	175	1379

LOW ENERGY IMPACT TESTS

Ref. 7.3 & 7.3.1.4

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 6.15÷6.0 [m/s]	Deceleration ≤ 180 [g]	HIC ≤ 1300
-	23-4194	60	B	FLAT	AMB	6.02	153	940
			X	FLAT		6.02	174	1068
			P	FLAT		6.02	156	1216
			R	FLAT		6.01	131	599

Job Number: [VCA007392]



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8/12-Jun-24

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 6.15÷6.0 [m/s]	Deceleration ≤ 180 [g]	HIC ≤ 1300
-	23-4200	54	B	FLAT	AMB	6.02	147	909
			X	FLAT		6.02	166	984
			P	FLAT		6.02	145	1069
			R	FLAT		6.01	124	604

OBLIQUE IMPACT TEST

Ref. 7.13 & Annex 7

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.15÷8.0 [m/s]	PRA ≤ 10.400 [rad.s ⁻²]	BrIC ≤ 0,78
-	23-4196	60	45°	45°	AMB	8.14	2922	0.36
			180°	45°		8.11	1522	0.22
			270°	45°		8.11	3068	0.36
	23-4195	60	0°	45°	AMB	8.11	3891	0.50
			135°	45°		8.11	2540	0.32

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.15÷8.0 [m/s]	PRA ≤ 10.400 [rad.s ⁻²]	BrIC ≤ 0,78
-	23-4202	54	45°	45°	AMB	8.11	5164	0.42
			180°	45°		8.11	3524	0.44
			270°	45°		8.07	3242	0.38
	23-4201	54	0°	45°	AMB	8.11	6099	0.56
			135°	45°		8.11	4790	0.54


TEST FOR PROJECTION AND SURFACE FRICTION METHOD B

Ref. 7.4.2

Sticker n°	Helmet Internal Id	Tested Point	Result	
			Pass	Fail
-	23-4219	Side Right	X	-
-	23-4219	Rear Air Vent	X	-

[Complete the table with "X" or "-" as applicable]

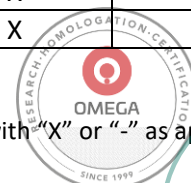
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9/12-Jun-24

RIGIDITY TEST
Ref. 7.5

Sticker n°	Helmet Internal Id	Size	Load Direction	Deformation [mm]		
				Initial (load 30N)	Max 40 [mm] (load 630N)	Final 15 [mm] (load 30N)
-	23-4220	L	Longitudinal	1	13	2
-	23-4220	L	Transversal	1	12	1

Sticker n°	Helmet Internal Id	Size	Load Direction	Deformation [mm]		
				Initial (load 30N)	Max 40 [mm] (load 630N)	Final 15 [mm] (load 30N)
-	23-4221	S	Longitudinal	1	10	2
-	23-4221	S	Transversal	1	11	3

DYNAMIC TEST OF THE RETENTION SYSTEM
Ref. 7.6

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	23-4217	XS	Micrometric	31.5	18.5

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	23-4218	XS	DD	29.1	13.6

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	23-4211	M	Micrometric	29.6	13.7

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	23-4212	M	DD	30.5	20.2

RETENTION (DETACHING) TEST - ROLL OFF
Ref. 7.7

CHIN STRAP: [Micrometric]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle ≤ 30°
-	23-4217	XS	Reverse Position (7.7.2)	28
		XS	Roll-Off (7.7.3)	25

CHIN STRAP: [DD]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle ≤ 30°
-	23-4218	XS	Reverse Position (7.7.2)	23
		XS	Roll-Off (7.7.3)	23

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CHIN STRAP: [Micrometric]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle $\leq 30^\circ$
-	23-4211	M	Reverse Position (7.7.2)	26
		M	Roll-Off (7.7.3)	22

CHIN STRAP: [DD]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle $\leq 30^\circ$
-	23-4212	M	Reverse Position (7.7.2)	15
		M	Roll-Off (7.7.3)	23



Reverse Position



ROLL-OFF



RETENTION SYSTEM STRENGTH

MICRO-SLIP TEST OF THE CHIN STRAP

Ref. 7.10

Helmet Internal Id	Chin strap	Result
		[Pass/Fail]
-	Micrometric	PASS



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RESISTANCE TO ABRASION OF THE CHIN STRAP
Ref. 7.11

Helmet Internal Id	Test Reference 7.1	Result
		[Pass/Fail]
-	Resistance to Abrasion of the Chin Strap	PASS

QUICK RELEASE MECHANISM MICROMETRIC
Ref. 7.12

Helmet Internal Id	Test Reference 7.12.1	Result
		[Pass/Fail]
-	Inadvertent release by pressure	PASS

Helmet Internal Id	Test Reference 7.12.2	Result
		[Pass/Fail]
-	Easy of release ($\text{Load}_{\text{max}} \leq 30 \text{ or } 60 \text{ [N]}$)	PASS

Helmet Internal Id	Test Reference 7.12.3	Result
		[Pass/Fail]
-	Durability of quick release mechanism Saline fog – 5000 cycles – Traction $2.0 \text{ kN} \pm 50\text{N}$	PASS

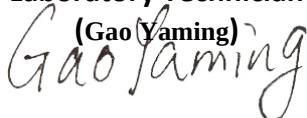
REFLECTIVE PARTS

Reference	Test	Result	
		Pass or N/A	Fail
6.16.2	Reflective parts (Geometry requirements)	N/A	
6.16.3	Reflective parts (Colorimetric requirements)	N/A	
6.16.4	Reflective parts (Photometric requirements)	N/A	
6.16.5	Reflective parts (Resistance to external agents requirements)	N/A	
6.16.6	Reflective parts (Compatibility of materials requirements)	N/A	

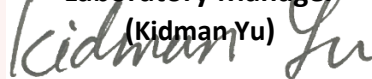
THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM.

Laboratory Technician

(Gao Yaming)


Laboratory Manager

(Kidman Yu)



(Juan Pablo Cuesta)


END OF REPORT

Job Number: [VCA007392]

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12/12 Jun-24

VCA JOB NUMBER: VCA007392MANUFACTURER: PT. TARA CITRA KUSUMA.TYPE: K8H

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 RUIZ

DATE: 22th April 2024