



GRAND-DUCHÉ DE LUXEMBOURG

Ministère du Développement durable
et des Infrastructures
Département des Transports

L-2938 Luxembourg

SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
s.à.r.l.

Registre de Commerce: B 27180

L-5201 Sandweiler



Référence: E13*22R00*22R05*10296*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Luxembourg, le 17 novembre 2016

Communication concernant ⁽²⁾:

Communication concerning ⁽²⁾:



- la délivrance d'une homologation
approval granted
- l'extension d'homologation
approval extended
- le refus d'homologation
approval refused
- le retrait d'homologation
approval withdrawn
- l'arrêt définitif de la production
production definitely discontinued

d'un type de casque de protection ~~sans~~ / avec / un / ~~plusieurs~~ / type(s) d'écran
en application du Règlement N°22
of a type of protective helmet ~~without~~ / with / one / ~~more~~ / visor type(s) pursuant to regulation N°22

Homologation N°:

Approval number:

E13*22R00*22R05*10296*00

Marque(s) d'homologation:

Approval mark(s):

Casque:

Helmet:



0510296/P-XXXX

Ecran(s):

Visor(s):



0510295

1. Marque de fabrique ou de commerce:

Trade mark:

TCK

Marque(s) de commerce:

Commercial mark(s):

TCK, KYT, INK, MDS

2. Type:

Version(s):

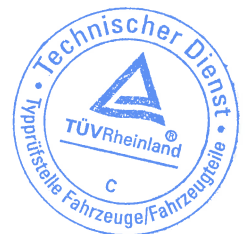
CONVAIR

not applicable

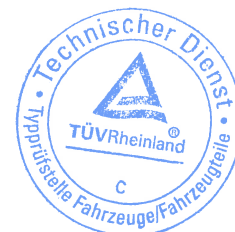
Dénomination(s) commerciale(s):

Commercial description(s):

CONVAIR, AVENTURE



3. **Tailles:**
Sizes: XS/54, S/56, M/58, L/59, XL/60, XXL/61
4. **Nom du fabricant:**
Manufacturer's name: PT TARA CITRA KUSUMA
5. **Adresse du fabricant:**
Address of manufacturer: Jalan Meranti 3 Blok L 10 No. 3 & 5,
Delta Silicon Industrial Park,
Lippo Cikarang Bekasi,
Jawa Barat – Indonesia 17550
6. **Le cas échéant, nom de son représentant:**
If applicable, name of manufacturer's representative: not applicable
7. **Adresse du représentant:**
Address of manufacturer's representative: not applicable
8. **Description sommaire du casque:**
Brief description of helmet: The shell of the integral-faced helmet CONVAIR is composed of ABS (Acrylonitrile-Butadiene-Styrene). The protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner at the top area, and two EPS side liners. The adoption to the different head sizes is done by different thickness of the size liner, and different thickness of the comfort padding
9. **Casque dépourvu de protection maxillaire (J) muni d'une protection maxillaire intégrale (P) d'une protection maxillaire non intégrale (NP) ⁽²⁾:**
~~Helmet without lower face cover (J)~~
with protective lower face cover (P)
~~with non-protective lower face cover (NP) ⁽²⁾:~~ with protective lower face cover (P)
10. **Type de l'écran ou des écrans:**
Type of visor or visors: V3
11. **Description sommaire de l'écran ou des écrans:**
Brief description of visor or visors: The visor consists of clear polycarbonate with anti scratch treatment and a thickness of 2,0 mm
12. **Présenté à l'homologation le:**
Submitted for approval on: 16.08.2016
13. **Autorité déléguée:**
Assigned authority: Société Nationale de Certification et d'Homologation
L-5201 Sandweiler
- Service technique chargé des essais d'homologation:**
Technical service responsible for conducting approval tests: TÜV Rheinland Luxemburg GmbH
2a, Kalchesbruck
L-1852 Luxembourg
14. **Date du procès-verbal délivré par ce service:**
Date of report issued by that service: 31.10.2016
15. **Numéro du procès-verbal délivré par ce service:**
Number of report issued by that service: 85-R22-308/16-00
16. **Remarques:**
Comments: The helmet is equipped with an integrated sun shield which is not tested according to item 6.15 of Regulation 22/05.
17. **Homologation ⁽²⁾:**
Approval ⁽²⁾: granted / extended / refused / withdrawn



18. **Lieu:**
Place: Luxembourg
19. **Date:**
Date: 17 novembre 2016
20. **Signature:**
Signature:

**Pour le Ministre du Développement durable
et des Infrastructures**

Pour la SNCH



[Signature of Marco FELTES]

Marco FELTES
Inspecteur Principal 1^{er} en rang

[Signature of Claude LIESCH]



Claude LIESCH
Directeur



21. **Les documents suivants portant le numéro d'homologation indiqué ci-dessus peuvent être obtenus sur demande:**
The following documents, bearing the approval number shown above, are available on request:

see: INDEX to TYPE-APPROVAL REPORT

Modifications faisant l'objet de la présente extension:
Reason for extension:

not applicable



(2) **Biffer les mentions inutiles.**
Strike out what does not apply.



GRAND-DUCHÉ DE LUXEMBOURG

Ministère du Développement durable
et des Infrastructures
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CERTIFICATION ET D'HOMOLOGATION
s.à.r.l.

Registre de Commerce: B 27180

L-5201 Sandweiler



Référence: E13*22R00*22R05*10296*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Luxembourg, le 17 novembre 2016

INDEX DU DOSSIER D'HOMOLOGATION INDEX TO TYPE-APPROVAL REPORT

	Numéro d'homologation: Approval number:	E13*22R00*22R05*10296*00
	Révision: Revision:	00
	Marque de fabrique ou de commerce: Trade name or mark:	TCK
	Type: Type:	CONVAIR
1.	Procès-verbal d'essai: Test report:	N° 85-R22-308/16-00
	- Test report:	Pages 1 to 4;
	- List of modifications:	Appendix 0 Page 5;
	- Technical information:	Appendix L Page 6;
	- Test minutes:	Appendix 1 Pages 7 to 14.
2.	Dossier du constructeur: Report of the manufacturer:	N° TCK-CONVAIR-00
	- Manufacturer's information document:	Pages 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 & 18.
3.	Autres documents annexés: Other documents annexed:	not applicable
4.	Date de délivrance de l'homologation initiale: Date of issue of initial type approval:	17.11.2016
5.	Date de la dernière délivrance de pages révisées: Date of last issue of revised pages:	not applicable
6.	Date de la dernière délivrance d'une homologation révisée: Date of last extension:	not applicable



TEST REPORT

according with ECE-Regulation

**Protective helmets and their visors for drivers and passengers of
motor cycles and mopeds**

ECE-R22

including all amendments

Amend. 05, Suppl. 2

E13*22R00*22R05*10296*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS ISO/IEC 17065
Accréditation N° 5/001 (Portée communiquée sur demande)

Previously granted	
ECE – approval	: ---

Structure of report :

0. General
1. Test object(s)
2. Test minutes
3. Comments to test object
4. Appendices
5. Statement of conformity

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

0. General

- 0.1. Trade name or mark : TCK
- 0.2. Commercial mark(s) : TCK, KYT, INK, MDS
Type : CONVAIR
Commercial description(s) : CONVAIR, AVENTURE
Version(s) : ---
- 0.3. Helmet category : P (acc. 5.1.4.1.2.1 of ECE-R22.05)
- 0.4. Name and address of the manufacturer : PT TARA CITRA KUSUMA
Jalan Meranti 3 Blok L 10 No. 3 & 5,
Delta Silicon Industrial Park, Lippo Cikarang
Bekasi, Jawa Barat – Indonesia 17550
of the authorized representative : Not applicable
- 0.5. Number of information folder : TCK-CONVAIR-00
Date : October 27, 2016
Revision status : not applicable

1. Test object(s)

1.1. Description

- Identification number : Prototype, marking after granting ECE-approval
Type : CONVAIR

1.1.1. Structure of the helmet

- : The shell of the integral-faced helmet CONVAIR is composed of ABS (Acrylonitrile-Butadiene-Styrene).
The protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner at the top area, and two EPS side liners.
The adoption to the different head sizes is done by different thickness of the size liner, and different thickness of the comfort padding.
The helmet type is equipped with an integrated sunvisor not tested according to item 6.15 of Regulation 22/05.

1.1.2. Structure of visor

- : Clear visors, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.

E13*22R00*22R05*10296*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS ISO/IEC 17065
Accréditation N° 5/001 (Portée communiquée sur demande)

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

- | | | |
|------------------------|-------------------------------------|--|
| 1.1.3 | List of parts | : See information document of the manufacturer |
| 1.1.4 | Location of the marking | : The ECE-label is sewed on the chinstrap. |
| 1.1.5. | Helmet sizes | : XS 54, S 56, M 58, L 59, XL 60, XXL 61 |
| 1.1.6. | material of the outer shell | : ABS (Acrylonitrile-Butadiene-Styrene) |
| 1.1.7. | material of the visor | : Polycarbonate (PC) |
| 1.1.8. | marking of the visor | : Approval marking
V3 |
| 1.2. | Remarks | : Without |
| 2. Test minutes | | |
| 2.1. | Test equipment | : The measurement equipment used was in compliance with the test requirements. |
| 2.2. | Test results | |
| 2.2.1. | Summary of test results | : See test minutes Appendix 1 |
| 2.3. | General information about the tests | |
| 2.3.1. | Test object received on | : August 16, 2016 |
| 2.3.2. | Test date | : August 16, 2016 |
| 2.3.3. | Test site | : TÜV Rheinland (Guangdong) Ltd.
Guangzhou Helmet Laboratory
Room 103, Building A, No. 11 Jingye 3rd Street,
Yushu Industrial Park, Guangzhou Science City,
Guangzhou 510663, P.R. China |
| 2.3.4. | Remark | : The results of the test refer exclusively to the object(s) mentioned at point 1 of this report. |

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

3. Comments to the test object : ---

4. Appendices

0 List of modifications

L Technical description of type and communication concerning the ECE-approval

1 Test minutes : Appendix 1

Information folder : TCK-CONVAIR-00 (18 pages)

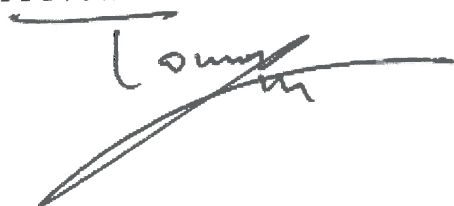
5. Statement of conformity

The information folder and the type described there comply with the requirements in the above mentioned directive/regulation.

The test report comprises - including appendices 0 to 1 – the pages 1 to 14 and shall not be reproduced except in full without the written approval of the testing laboratory.

Engineering centre Shanghai, October 31, 2016

TTY / JWP



M.S. Tony Yan
Expert technical service

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR



List of modifications

Appendix 0

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

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

**Technical description of type and communication concerning
the ECE-approval**

Appendix L

1. **Trade mark** : TCK
- Commercial mark(s)** : TCK, KYT, INK, MDS
2. **Type** : CONVAIR
Commercial description(s) : CONVAIR, AVENTURE
- Version(s)** : ---
3. **Sizes** : XS 54, S 56, M 58, L 59, XL 60, XXL 61
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** : The shell of the integral-faced helmet CONVAIR is
composed of ABS (Acrylonitrile-Butadiene-Styrene).
The protective padding is made of one EPS (Expanded
Poly Styrene) size liner, one EPS crown liner at the top
area, and two EPS side liners.
The adoption to the different head sizes is done by
different thickness of the size liner, and different
thickness of the comfort padding.
The helmet type is equipped with an integrated sunvisor
not tested according to item 6.15 of Regulation 22/05.
9. **Helmet** : With protective lower face cover (P)
10. **Type of visor or visors** : V3
11. **Brief description of visor or visors** : Clear visors, made of Polycarbonate (PC) with
hardened coating on the surface, and a thickness of 2.0
mm.
12. **Submitted for approval on** : August 16, 2016
14. **Date of report issued by that
service** : October 31, 2016

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

Test minutes

Appendix 1

1. General

- | | | | |
|------|--|---|---|
| 1.1. | Make | : | TCK |
| | Commercial mark(s) | : | TCK, KYT, INK, MDS |
| 1.2. | Type | : | CONVAIR |
| | Commercial description(s) | : | CONVAIR, AVENTURE |
| | Version(s) | : | --- |
| | Technical description helmet | : | <p>The shell of the integral-faced helmet CONVAIR is composed of ABS (Acrylonitrile-Butadiene-Styrene).
The protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner at the top area, and two EPS side liners.
The adoption to the different head sizes is done by different thickness of the size liner, and different thickness of the comfort padding.
The helmet type is equipped with an integrated sunvisor not tested according to item 6.15 of Regulation 22/05.</p> |
| | Technical description visor | : | <p>Clear visors, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.</p> |
| 1.3. | Name and address of manufacturer | : | <p>PT TARA CITRA KUSUMA
Jalan Meranti 3 Blok L 10 No. 3 & 5,
Delta Silicon Industrial Park, Lippo Cikarang
Bekasi, Jawa Barat – Indonesia 17550</p> |
| 1.4. | Name and address of manufacturer's authorized representative | : | Not applicable |

2. General arrangement of the helmet

- | | | | |
|------|----------------------|---|--|
| 2.1. | General requirements | : | <p>The requirements of the covered zones are fulfilled for all helmet-sizes.
There are projections of the outer shell, greater than 2 mm. All external projections have a radius ≥ 1 mm, respectively ≥ 2 mm for external projections which are more than 2 mm above the outer shell.
The here described parts are rounded and konvex to the outer shell surface. The outer shell is smooth in the meaning of the requirement. Under a load of 150 N the width of the chin strap is ≥ 20 mm. The chin strap is covered with an additional comfort padding.</p> |
|------|----------------------|---|--|

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

The helmet is equipped with automatic buckle.
The free end of the chin strap is adjusted.
Means are provided to prevent the retention system being completely undone.

Manufacturer-information about size and weight are located on the outer shell by adhesive label(s). Additional consumer information, in accordance to the ECE-R22, is given by the owners manual, which is enclosed to the offered helmet.

The helmet is not equipped with retro reflective parts in accordance to the item 6.16 of the ECE-R22.

2.2. Shock-absorption-tests

: The determined values of acceleration were below the limit of 275g at an impact speed of 7,5 m/s (esp. 5,5 m/s at point S). The HIC-values were below the limit of 2400.

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

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 1 Low Temp. (-20°C)	B	223	1622
	XR	257	2161
	P	200	1851
	R	159	1134
	S	145	491
Helmet 2 High Temp. (+50°C)	B	246	1528
	XR	204	1548
	P	149	1105
	R	144	1005
	S	---	---

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

helmet size : S 56
test-head-size : 54
anvil : Flat (Helm. 3), Kerbstone (Helm. 4)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 3	B	222	1774
Low Temp. (-20°C)	XR	268	2241
	P	206	1802
	R	159	1163
	S	175	732
Helmet 4	B	185	1319
High Temp. (+50°C)	XR	208	1568
	P	148	1139
	R	140	990
	S	---	---

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

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 5	B	219	1767
Low Temp. (-20°C)	XR	267	2309
	P	195	1990
	R	210	1582
	S	170	684
Helmet 6	B	157	1064
High Temp. (+50°C)	XR	194	1473
	P	166	1186
	R	151	1037
	S	---	---

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

helmet size : L 59
test-head-size : 57
anvil : Flat (Helm. 7), Kerbstone (Helm. 8)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 7 Low Temp. (-20°C)	B	246	2134
	XR	220	2018
	P	255	2070
	R	218	1758
	S	145	479
Helmet 8 High Temp. (+50°C)	B	155	1110
	XR	210	1561
	P	189	1353
	R	169	1191
	S	---	---

helmet size : XL 60
test-head-size : 60
anvil : Flat (Helm. 9), Kerbstone (Helm. 10)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 9 Low Temp. (-20°C)	B	233	1964
	XR	259	2025
	P	203	2040
	R	213	1711
	S	242	903
Helmet 10 High Temp. (+50°C)	B	170	1160
	XR	221	1415
	P	162	1312
	R	200	1196
	S	---	---

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

helmet size : XXL 61
test-head-size : 60
anvil : Flat (Helm. 11), Kerbstone (Helm. 12)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 11 Low Temp. (-20°C)	B	229	1880
	XR	262	2093
	P	226	2232
	R	224	1766
	S	168	650
Helmet 12 High Temp. (+50°C)	B	170	1184
	XR	227	1362
	P	169	1259
	R	163	1140
	S	---	---

helmet size : XXL 61
test-head-size : 60
anvil : Flat (Helm. 13), Kerbstone (Helm. 14)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 13 Ambient	B	217	1775
	XL	255	2092
	P	234	2149
	R	217	1802
	S	---	---
Helmet 14 Ambient	B	178	1333
	XL	198	1387
	P	168	1347
	R	169	1210
	S	---	---

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

2.3. Dynamical Test of the retention system

Helmet size	XS 54	Limits
Test head size	54	
Dynamic movement (mm)	31.2	≤ 35 mm
Permanent movement after 2 min. (mm)	15.7	≤ 25 mm

2.4. Test of field of vision

Helmet size	XS 54	Limits
Test head size	54	
Vertical angle of vision (°)		
Upwards	7	≥ 7°
Downwards	45	≥ 45°
Horizontal angle of vision (°)	210	≥ 210°

2.5. Rigidity-test

Helmet size	XXL 61	Limits
Deformation under load (mm)		
Along the longitudinal axis	10.0	≤ 40 mm
Along the transversal axis	14.0	≤ 40 mm
Permanent deformation after 5 min		
Along the longitudinal axis	5.0	≤ 15 mm
Along the transversal axis	6.0	≤ 15 mm

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

2.6. Retention (detaching) test

Helmet size	XS 54	Limits
Test head size	54	
Movement of the reference line (°)	26	≤ 30°

2.7. Chin strap and buckle test

1.	Operation force of the automatic buckle according 7.11.2. Measured at static load of 150 N	
Helmet size	XS 54	Limits
Test head size	54	
Opening force (N)	Automatic buckle: < 30 N	≤ 30 N
2.	Resistance of the automatic buckle according 7.11.2. The load of 2000 N at the automatic buckles made no fracture or disengage. After the test the automatic buckle was still be capable of operation.	
3.	Microslip-test of the chin strap according 7.9	
	Automatic buckle < 5.0 mm	≤ 10 mm
4.	Abrasion test the chin strap according 7.10. Not necessary in acc. with 7.10 (a), because the movement of the chin strap after 500 cycles was less than 5 mm	

2.8. Shear assessment test for projections or irregularities in the outer surface according 7.4.2

Helmet size	XXL 61	
Test head size	60	
	Test with positive result at the following points of the outer shell:	
1.	Front air vent sliding tangential at the projection	Positive

2.9. Test for friction assessment in acc. with 7.4.2

	The requirements are fulfilled.
--	---------------------------------

Manufacturer : PT TARA CITRA KUSUMA
Type : CONVAIR

2.10. Visor tests

1. Mechanical characteristics in acc. to 7.8.2

Helmet size	XXL 61
Test head size	60
Conditioning of the visor	Low temp. (-20 °C)
Visor test piece 1	positive, no penetration, no sharp splinter
Visor test piece 2	positive, no penetration, no sharp splinter
Visor test piece 3	positive, no penetration, no sharp splinter

2. Optical characteristics and scratch resistance in acc. to 7.8.3

Refer to visor type approval E13*22R00*22R05*10295*00

PT TARA CITRA KUSUMA

Information folder No. TCK-CONVAIR-00

Application date: October 27, 2016

Content

DOCUMENT	PAGE
Technical description	2-3
Assembly drawing	4
Material list of parts	5
Helmet section view	6
Impact absorption material thickness	7
Dimension and weight of helmet (tolerances incorporated)	8
EPS details	9
Retention system	10
Retention system, chin strap operation	11
Chinstrap anchorage position details	12
Instruction	13
Drawing and details of visor	14
Drawing and details of inner visor	15
Accessories	16
Approval marking(s)	17
Helmet assembly pictures	18
E13*22R00*22R05*10296*00 Société Nationale de Certification et d'Homologation L-5201 SANDWEILER (Luxembourg) Organisme accrédité OLAS ISO/IEC 17065 Accréditation N° 5/001 (Portée communiquée sur demande)	
Type	CONVAIR
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PT TARA CITRA KUSUMA

Information folder No. TCK-CONVAIR-00

Application date: October 27, 2016

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF PROTECTIVE HELMETS AND/ OR¹ OF THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTOR CYCLES AND MOPEDS

1. Make (trade name or mark of the manufacturer) : TCK
Commercial mark(s) : TCK, KYT, INK, MDS
2. Type : CONVAIR
Commercial description(s) : CONVAIR, AVENTURE
Version(s) : ---
3. Sizes : XS 54, S 56, M 58, L 59, XL 60, XXL 61
4. Name of the manufacturer : PT TARA CITRA KUSUMA
5. Address of the manufacturer : Jalan Meranti 3 Blok L 10 No. 3 & 5,
Delta Silicon Industrial Park, Lippo Cikarang
Bekasi, Jawa Barat – Indonesia 17550
6. Name of the manufacturer's representative : not applicable
7. Address of the manufacturer's representative : not applicable
Brief description of the helmet : Protective helmet equipped with visor for
drivers and passengers of mopeds and
and/or¹ motorcycles
~~Brief description of visor~~

NOTE:

¹ striketrough where not applicable

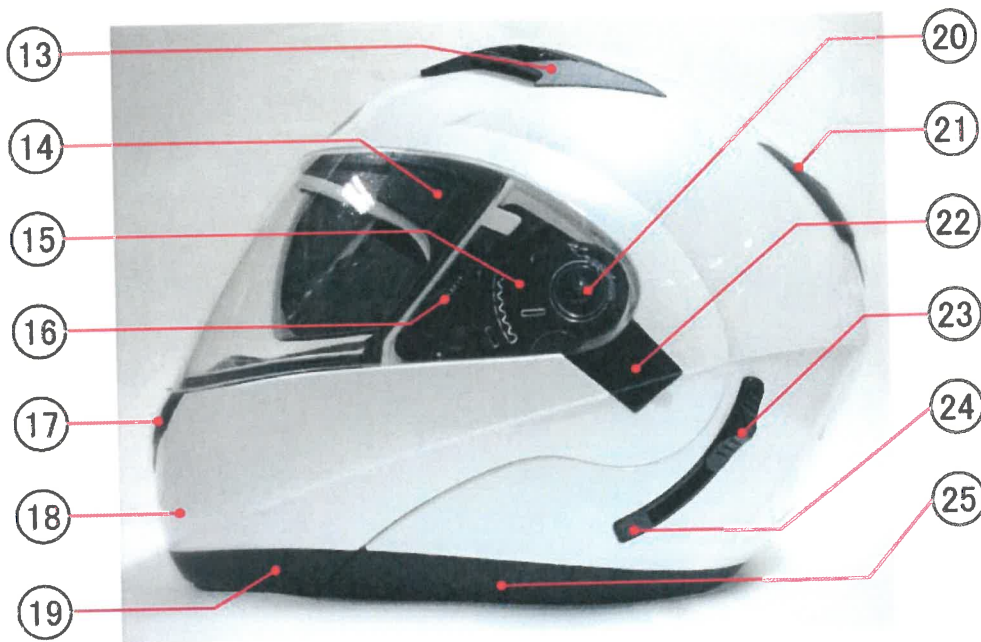
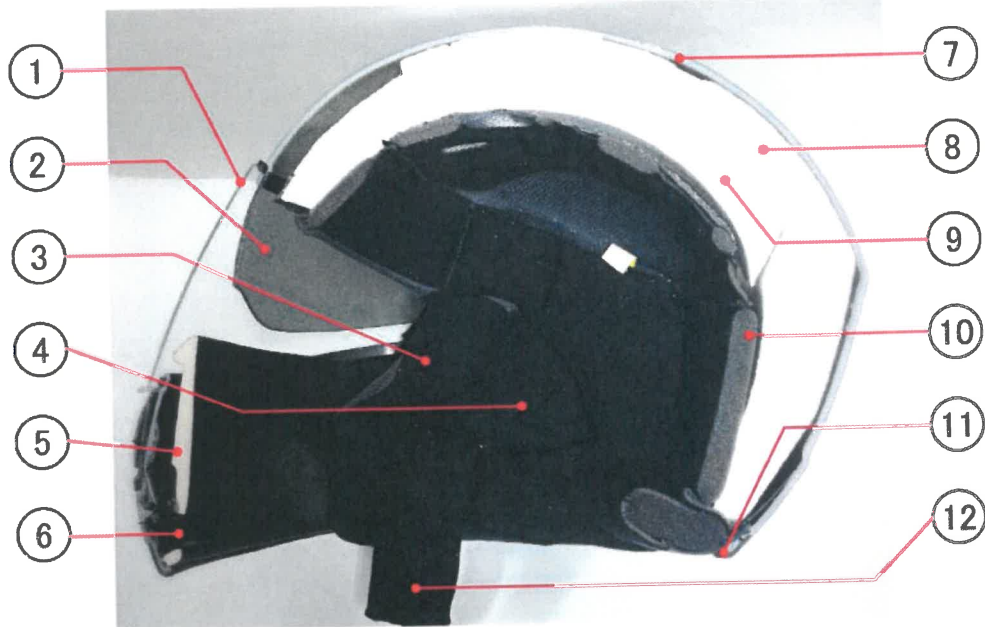
E13*22R00*22R05*10296*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS ISO/IEC 17065
Accréditation N° 5/001 (Portée communiquée sur demande)

	Type	CONVAIR
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PT TARA CITRA KUSUMA

Information folder No. TCK-CONVAIR-00

Application date: October 27, 2016



E13*22R00*22R05*10296*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS ISO/IEC 17065
Accréditation N° 5/001 (Portée communiquée sur demande)

DRW.

CONVAIR-01

Assembly Drawing

	Type	CONVAIR
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ADDITIONAL INFORMATION

~~Helmet without lower face cover (J) / with~~
protective lower face cover (P) / ~~with non~~
~~protective lower face cover (NP)~~

Type of visor or visors : V3

~~Types of helmet to which the visor may be~~
fitted

Name and address of assembly plant : PT TARA CITRA KUSUMA
Jalan Meranti 3 Blok L 10 No. 3 & 5,
Delta Silicon Industrial Park, Lippo Cikarang
Bekasi, Jawa Barat – Indonesia 17550

Applicable regulation : ECE-R22, 05 series of amendments

NOTE:

¹ strike through where not applicable

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Part No.	Subject or name	Material
1	Visor	Polycarbonate
2	Inner visor	Polycarbonate
3	Side lining	Fabric + Foam
4	Side EPS	EPS
5	Chin guard	Polyurethane
6	Modular release button	Polycarbonate
7	Outer Shell	ABS
8	Protective padding	EPS
9	Crown EPS	EPS
10	Comfort padding	Fabric + Foam
11	Trim connector	PVC
12	Chinstrap	Leather + Nylon + Polyester
13	Top vent	Polycarbonate ABS
14	Upper rubber trim	PVC
15	Ratchet	Polyacetal
16	Spring	Steel
17	Chin vent	Polycarbonate ABS
18	Modular shell	Polycarbonate ABS
19	Modular bottom rubber trim	PVC
20	Screw	Steel
21	Rear vent	Polycarbonate ABS
22	Side cover	Polycarbonate
23	Inner visor button	Polycarbonate
24	Inner visor level	Polycarbonate
25	Shell bottom rubber trim	PVC

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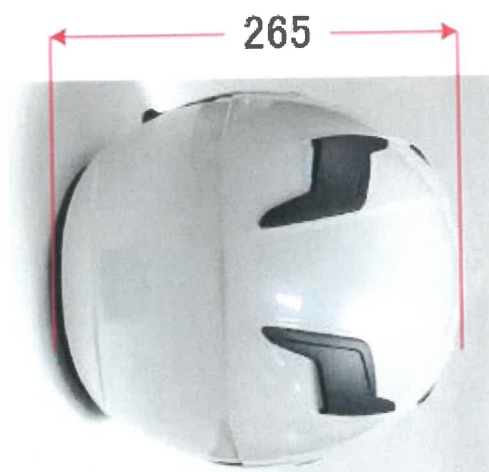
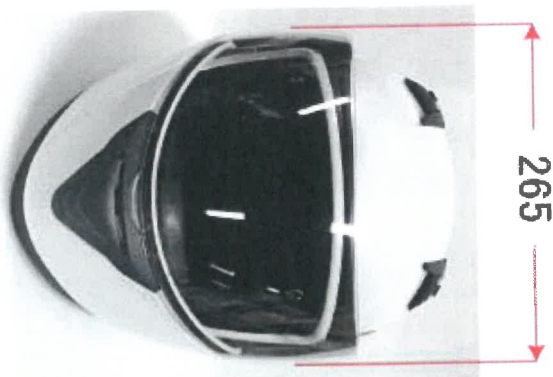
Material list of parts

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DRW.

CONVAIR-02

Helmet section view

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Impact absorption material thickness in millimeter, SHELL

Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Lower Face cover
XS	3.2	3.7	3.2	2.2	2.2
S	3.2	3.7	3.2	2.2	2.2
M	3.2	3.7	3.2	2.2	2.2
L	3.2	3.7	3.2	2.2	2.2
XL	3.2	3.7	3.2	2.2	2.2
XXL	3.2	3.7	3.2	2.2	2.2

Impact absorption material thickness in millimeter, LINER

Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point
XS	40	46.5	42.5	30.5
S	40	46.5	42.5	30.5
M	40	46.5	42.5	30.5
L	38	40	31	30.5
XL	38	40	31	30.5
XXL	38	40	31	30.5

Impact absorption material thickness in millimeter, LINING

Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Side Part Lining
XS	10	10	20	16	40
S	8	8	18	14	35
M	12	12	12	12	30
L	12	12	12	12	25
XL	10	10	10	10	20
XXL	8	8	8	8	20

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Dimension and weight

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1. Dimension of the shell:

SIZE	Length (mm)	Width (mm)	Height (mm)
XS-XXL	365	265	265

2. Total weight of the helmet:

Size	Weight (g)	Tolerance (g)
XS	1750	± 50
S	1750	± 50
M	1750	± 50
L	1750	± 50
XL	1750	± 50
XXL	1750	± 50

3. Specific gravity of the impact absorption liner

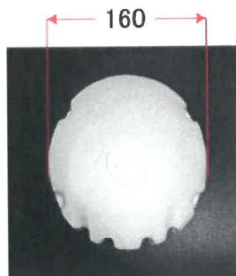
Size	Specific gravity of size liner (kg/m ³)	Specific gravity of side liner (kg/m ³)	Specific gravity of crown liner (kg/m ³)
XS	40	65	20
S	40	65	20
M	45	65	20
L	50	65	20
XL	50	65	20
XXL	50	65	20

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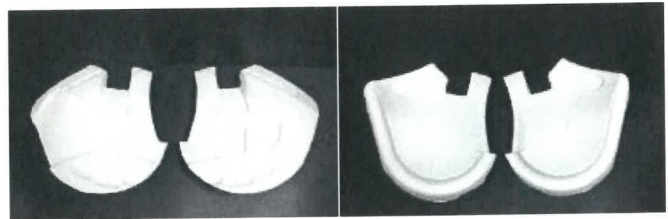
PT TARA CITRA KUSUMA

Information folder No. TCK-CONVAIR-00

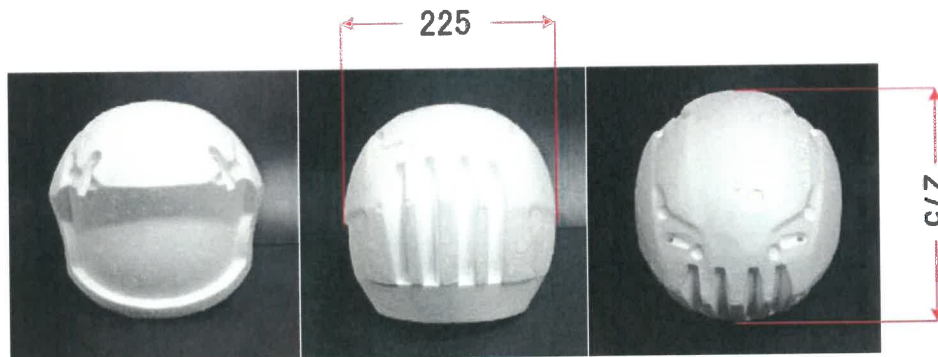
Application date: October 27, 2016



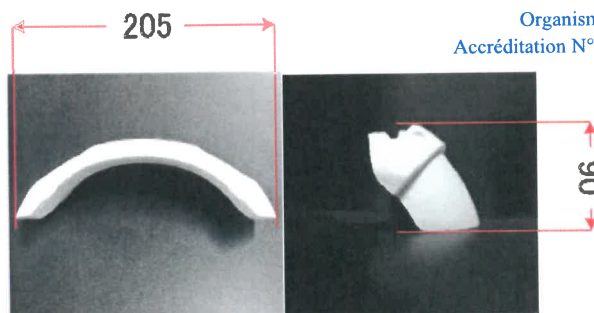
CROWN EPS



SIDE EPS



SIZE EPS



FRONT INSERT EPS

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DRW.	CONVAIR-03	EPS details
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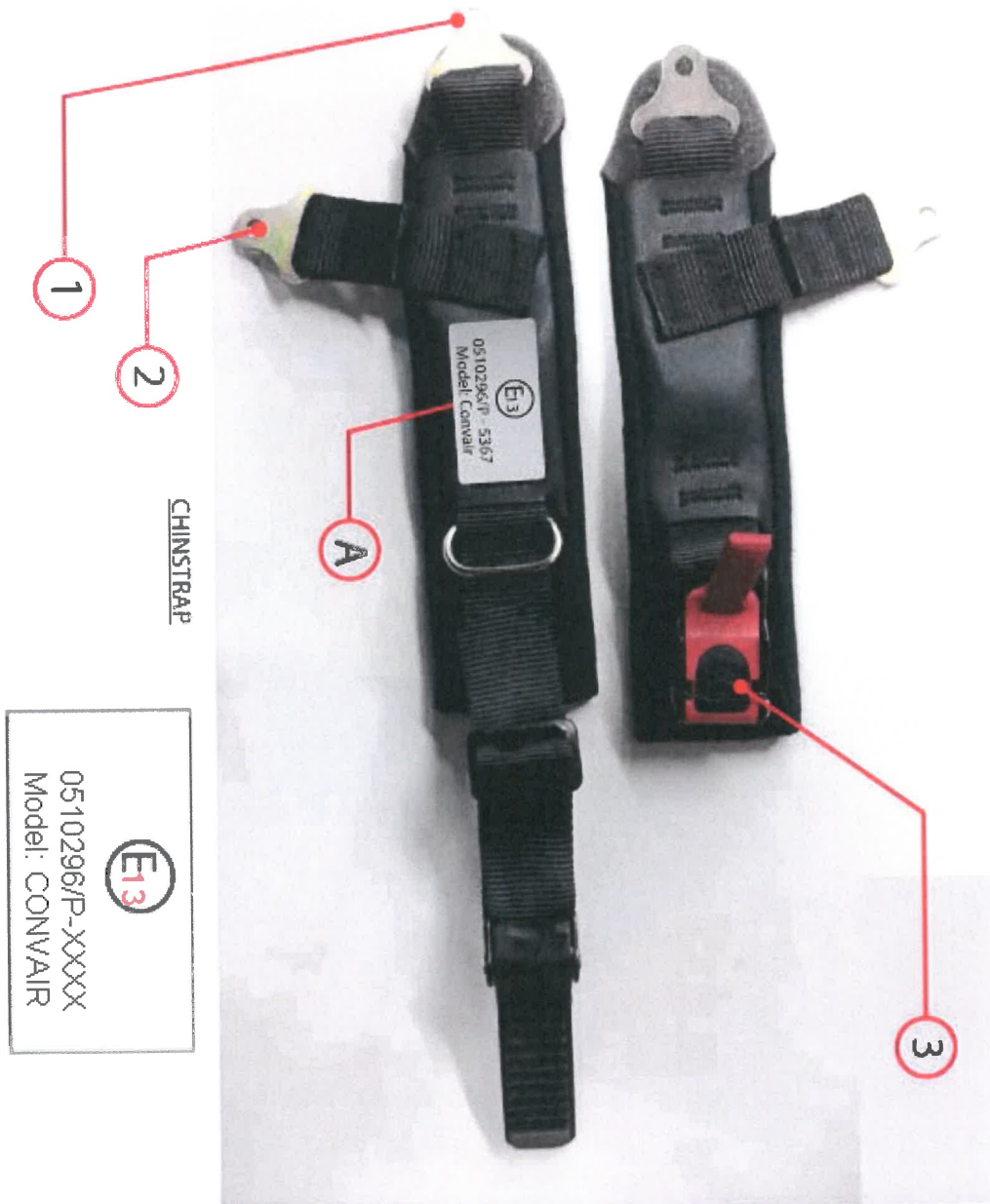
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VIEW A



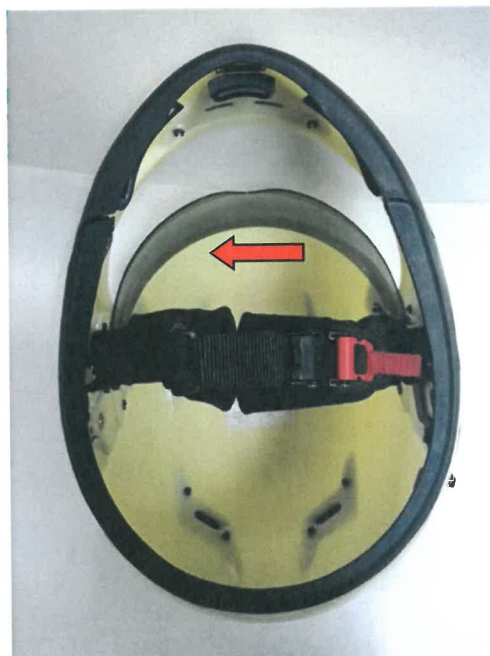
Part No.	Subject or name	Material
1	Bracket	Stainless Steel
2	Bracket	Stainless Steel
3	MICROMETRIC BUCKLE	Polyacetal + Stainless steel
DRW.	CONVAIR-04	Retention system

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DRW.

CONVAIR-05

Retention system, chin
strap operation

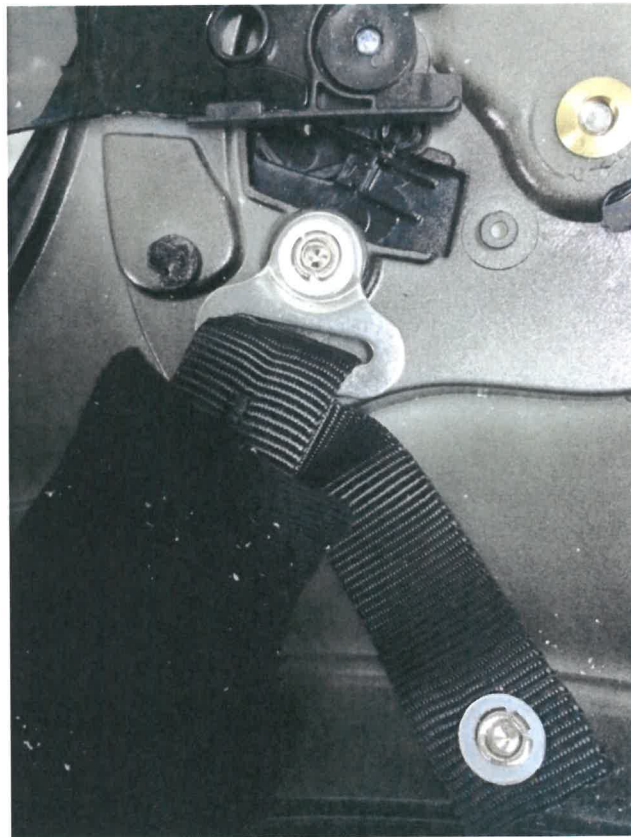
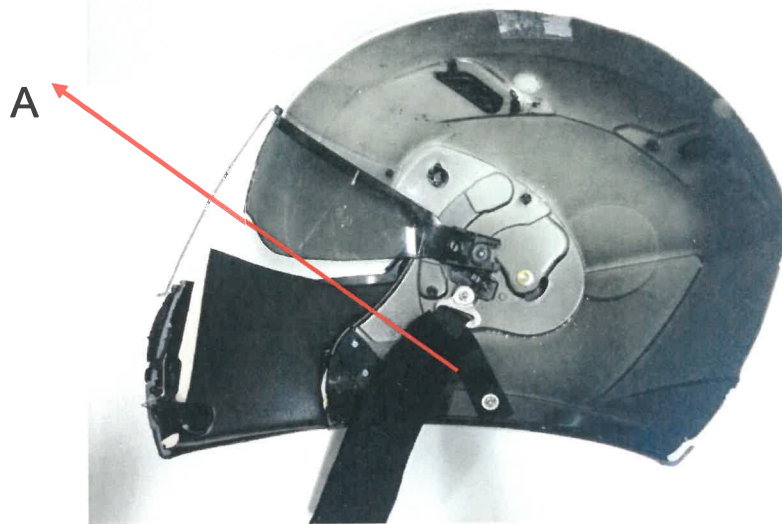
Type CONVAIR

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VIEW A

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DRW.

CONVAIR-06

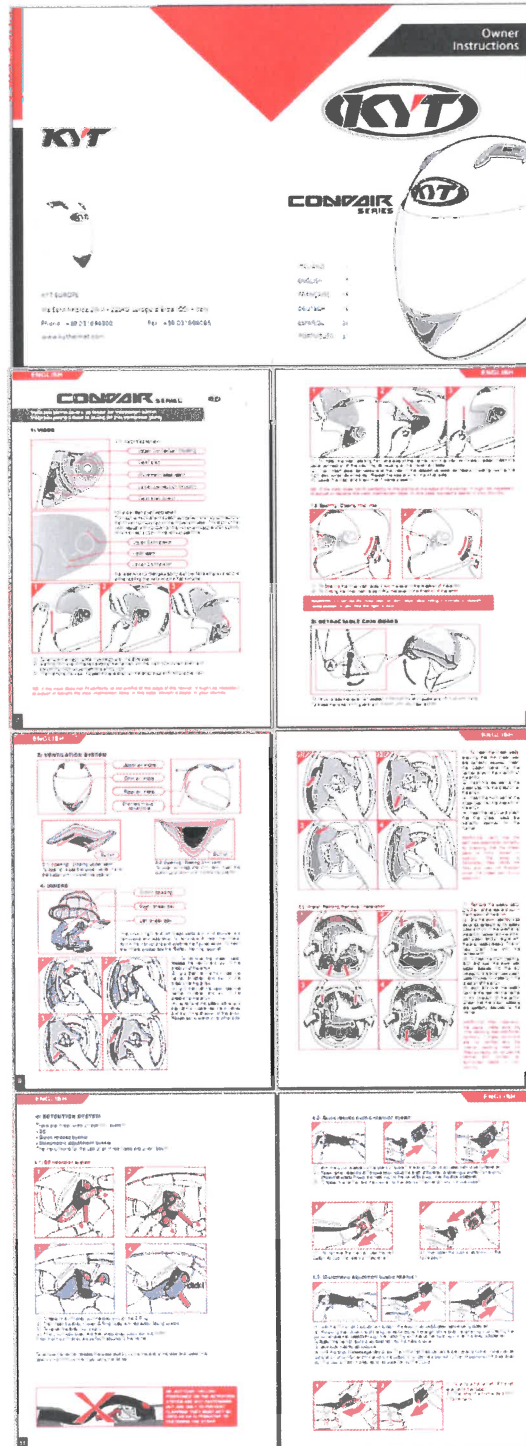
**Chinstrap Anchorage
position details**

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DRW.	CONVAIR-07	Instruction
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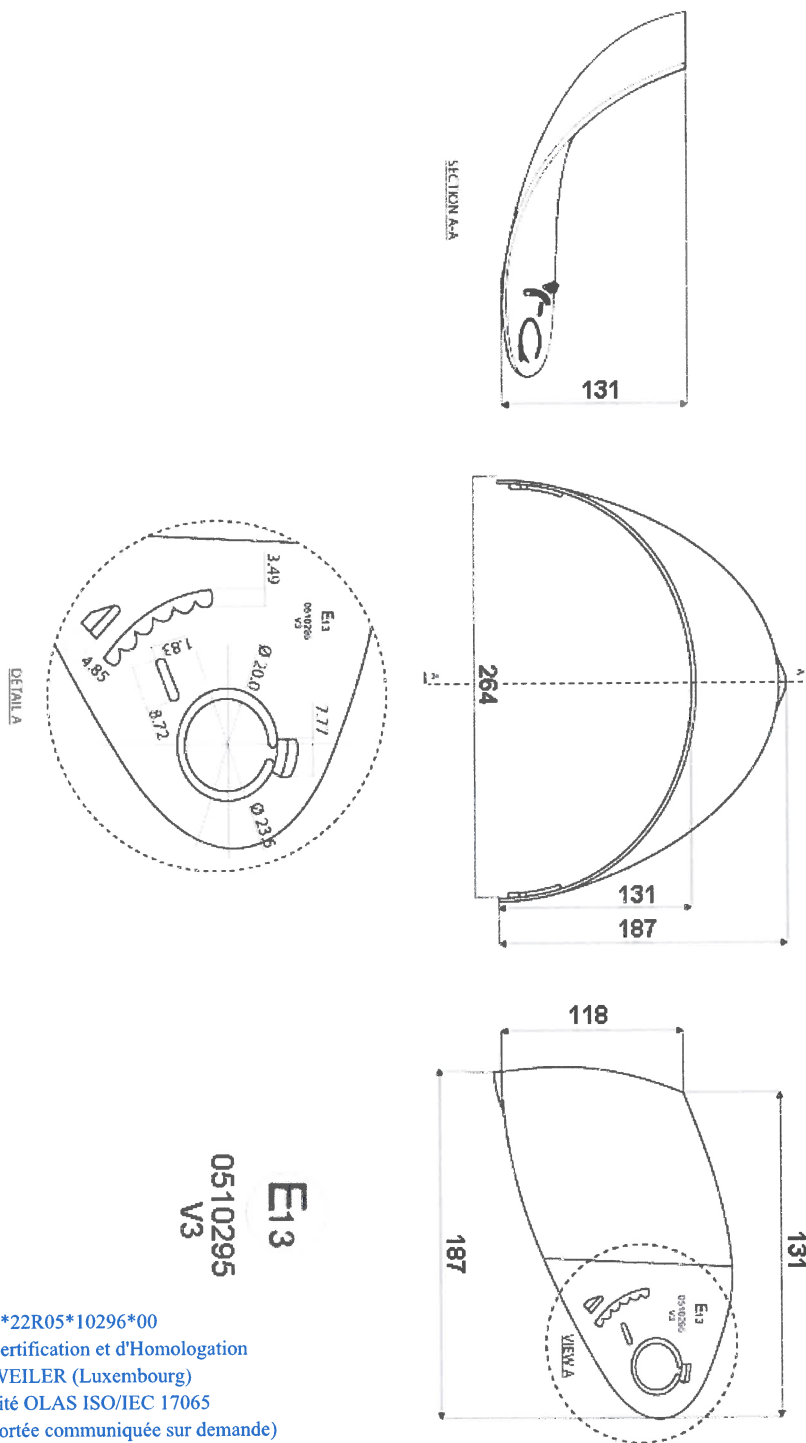
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Remark: the thickness of the visor is 2.0 mm.

DRW.

CONVAIR-08

Drawing and details of visor

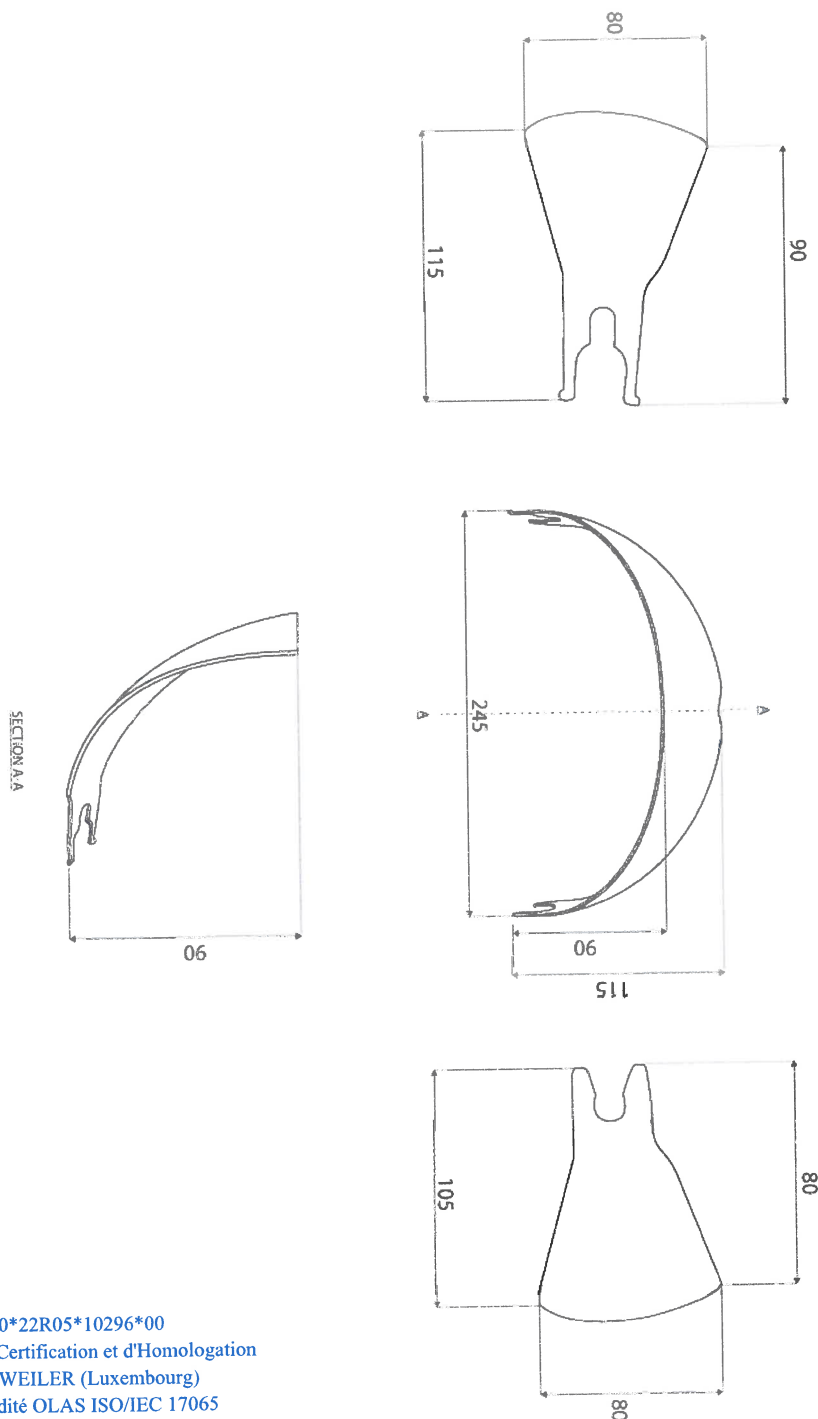
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Remark: the thickness of the inner visor is 1.5 mm.

DRW.	CONVAIR-09	Drawing and details of inner visor
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Top vent



Rear vent



Chin Vent

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DRW.

CONVAIR-10

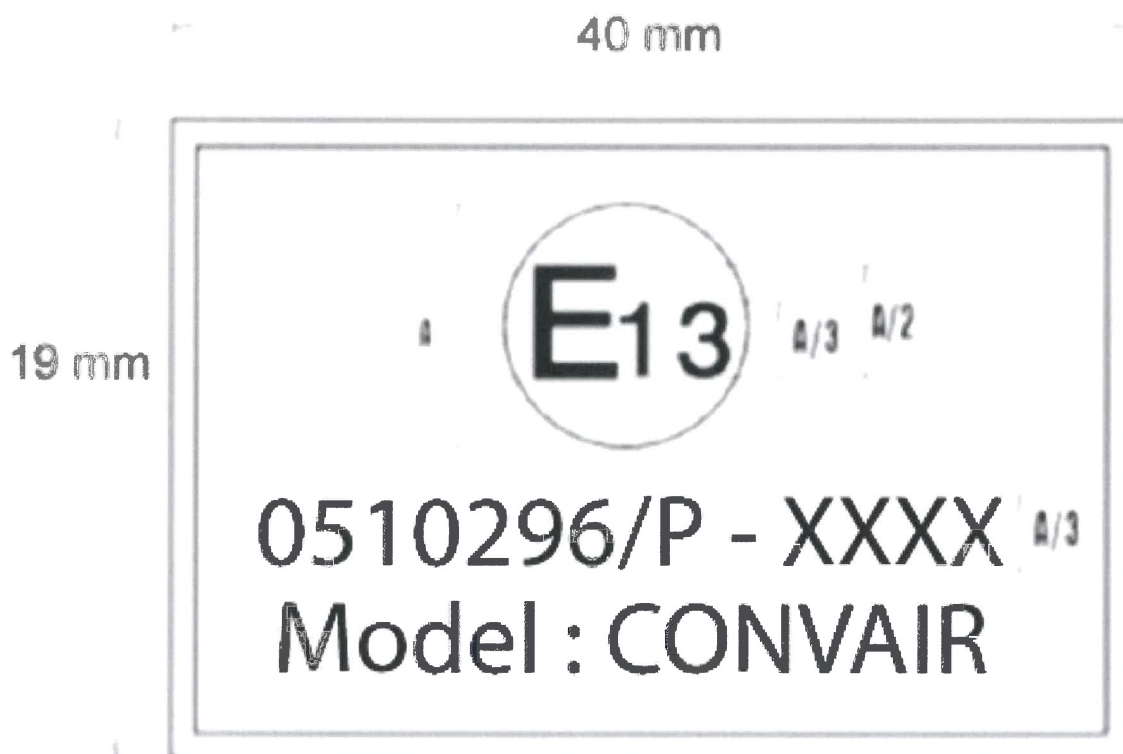
Accessories

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A = 8,0 mm

HELMET TYPE : CONVAIR
COLOR OF LABEL : WHITE
COLOR OF PRINT : BLACK
MATERIAL OF LABEL : NYLON

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DRW.

CONVAIR-11

Approval marking(s)

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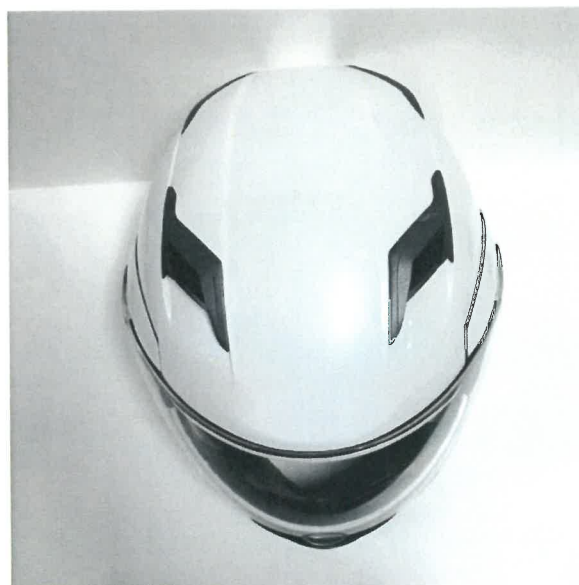
FRONT VIEW



REAR VIEW



SIDE VIEW



TOP VIEW

DRW.	CONVAIR-12	Helmet assembly pictures
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