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CONCERNING THE APPROVAL GRANTED [(1)]/ ~~APPROVAL EXTENDED~~ [(1)]/ ~~APPROVAL REFUSED~~ [(1)]/ ~~APPROVAL WITHDRAWN~~ [(1)]/ ~~PRODUCTION DEFINITELY DISCONTINUED~~ [(1)] OF A TYPE OF PROTECTIVE HELMET VISOR PURSUANT TO REGULATION NO. 22.05

E11 Approval No: E11*22R05/03*0660*00

1. Trade mark: INDIAN MOTORCYCLES

2. Type: V500

3. Manufacturer's name: Zhejiang Aegis Sports Goods Co., Ltd.

4. Address:

   Zhejiang Aegis Sports Goods Co., Ltd.
   NO.156 East Tingyao Road, Ganyao Town
   Jiashan, Zhejiang, 314107
   People's Republic of China

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

6. Address: Not applicable

7. Brief description of visor: See manufacturer's documentation

8. Types of helmet to which the visor may be fitted: A500

UK Approval Authority Vehicle Certification Agency 08-Jul-19

9. Submitted for approval on: 06 December 2018

10. Technical service responsible for conducting approval tests: Omega S.r.l

11. Date of report issued by that service: 07 December 2018

12. Number of report issued by that service: MAU446627

13. Any Remarks: None

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 Approval GRANTED/~~EXTENDED/REFUSED/WITHDRAWN~~ (1)

15. Place: BRISTOL

16. Date: 08 JULY 2019

17. Signature:

D LAWLOR
Chief Technical and Statutory Operations Officer

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

(1) Strike out what does not apply.

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APPROVAL NUMBER: E11*22R05/03*0660*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

Conformity of Production (COP) Declaration	**COP Confirmed**	
Assessment Method	**COP Audit**	
Date of Initial Clearance	**January**	**2014**
Date of Last Clearance	**March**	**2019**

Total number of sheets: 07 (Seven)

Reasons for Revision: Not applicable

Revision Date
&
Office Stamp

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CONTENT OF DOCUMENTATION

Page Concept:

1. **General information**
2. **Description of the visor**
3. **Other characteristics**
4. **Annexes (Products drawings)**

Drawing of the visor

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1 General Information

1.1 Trade Marks:

INDIAN MOTORCYCLES

1.2 Type:

V500

1.3 Variants versions:

……

1.4 Name and address of manufacturer:

Zhejiang Aegis Sports Goods Co., Ltd.

NO.156 East Tingyao Road， Ganyao Town,

Jiashan, Zhejiang, China, 314107

1.5 Name and address of assembly plant:

Zhejiang Aegis Sports Goods Co., Ltd.

NO.156 East Tingyao Road， Ganyao Town,

Jiashan, Zhejiang, China, 314107

1.6 Location and method of affixing of the international approval mark:

Marked in a label stuck onto the visor

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2 Description of the visor

2.1 Material:

Polycarbonate

2.2 Manufacture process:

Moulding by injection machine

2.3 Drawing of visor: See the Annexes.

3 Other Characteristics

3.1 Markings :

7.1.1 Location of :

Mark: on the top front of visor

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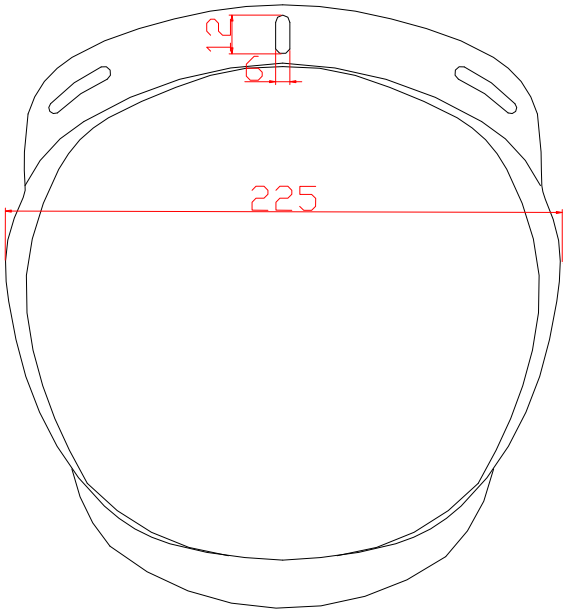
4 Annexes

4.1 Drawing of visor



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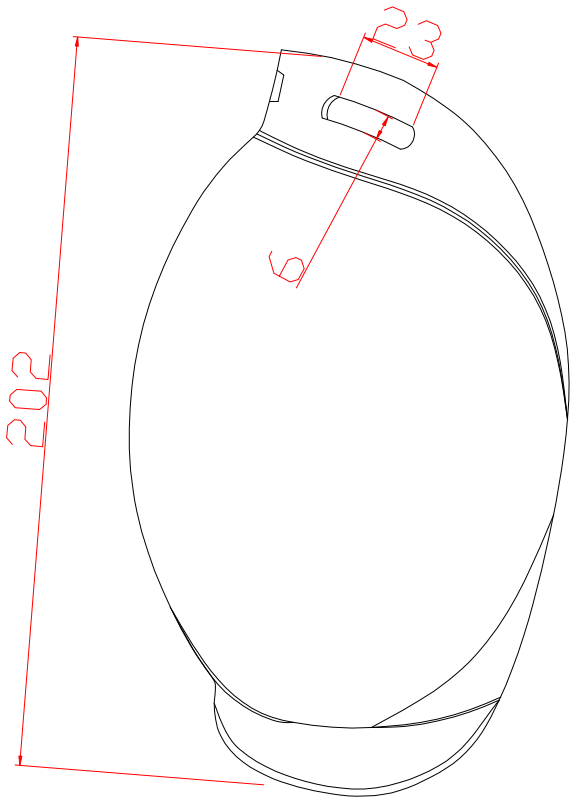

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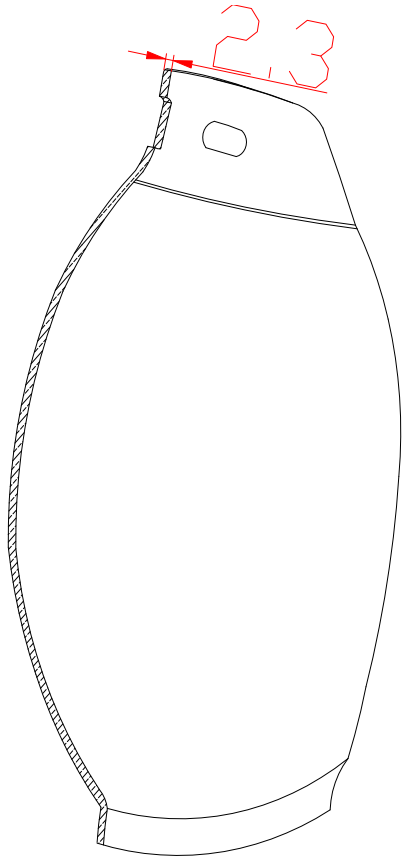
Type: V500

Date : March 6, 2019
Ext. : 00
Page : 6

R22.05/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS



	Part NO.	Description	Aegis		
	Name	BUBBLE VISOR	Wangchunfa@aegis-protection.com		
	Material	PC PLASTIC	Drawing	Weight	Scale
	Model	V500			1:1
Mark	REV	Desc	Approval		
Designer	任晓业	Standard	ECE		
Reviser	李景然	Technics			
Exanimate	李儒松				Sheet
Approval	王春发	Date	2019/03/06		1/1

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Zhejiang Aegis Sports Goods Co., Ltd.

NO.156 East Tingyao Road， Ganyao Town,

Jiashan, Zhejiang, China, 314107

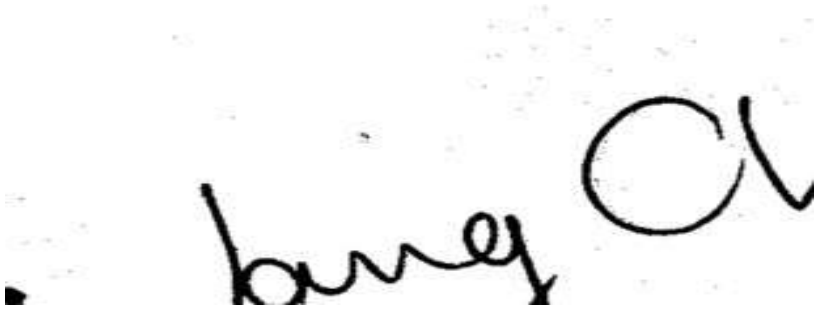
Tel:86 0573 84515801

Fax:86 0573 84515805

Email: wangchunfa@aegis-protection.com

Homepage: www.aegis-protection.com

Signature：



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CERTIFICATION TESTING

UNECE n°22 Series 05

Internal Identification Test: E5VC

Job Number	MAU446627
Report	Code: Bubble Visor Homologation 181207 Date: 07/12/2018
Manufacturer	Name: Zhejiang Aegis Sports Goods Co., Ltd Address: NO.156 East Tingyao Road, Ganyao Town, Jiashan, Zhejiang, China,314107
Representative	It does not apply
Sample	Visor model: V500 (Clear/Grey/Red/Yellow) Approval n°: Stickers from n°: to n°: Batch n°: Arrival date: 29/11/2018 Testing date: 06-07/12/2018

Essential Technical Data	
VISOR MATERIAL	Polycarbonate with Anti Scratch Treatment
OTHER TECHNICAL DETAILS	See Manufacturers Technical Specification

ENVIRONMENTAL CONDISTIONS	Temperature	27.9°
	Humidity	46.4%

Used Machine	**Identifier /Manufacturer**	**Calibration Date**
M0060 / Mechanical Characteristics Penetration test	*MTP 1007/2W/A(AD Engineering)*	21/05/2020
M0087 / Scratch resistance	*1064 (AD Engineering*	30/01/2019
M0101 / Optical qualities	*1)LDM 1060/AFN/SSE 2)*	13/09/2020
M0113 / Luminous transmittance	*V530 (JASCO)*	13/09/2020
M0144 / Refractive Powers	*OPB 1046 (AD Engineering)*	05/10/2019

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VAT number: 01828300069

Bubble Visor-Clear

VISOR MECHANICAL CHARACTERISTICS				Ref. 7.8.2
The visor has been tested on the helmet model:				A500
Sticker n°/ Internal Id	Condit.[°C]	Fragments	Sharp fragments	Note
18-1815	-20	NOT	NOT	
18-1816	-20	NOT	NOT	
18-1817	-20	NOT	NOT	

OPTICAL QUALITIES AND SCRATCH RESISTANCE				Ref. 7.8.3
Sticker n°/ Internal Id	Condit. [°C]	Luminous transmittance	Light diffusion	
		Before scratch	Before scratch	After scratch
		>80%	<2,5%	<20%
18-1818	AMB	90,7%	0,2%	5,0%
18-1819	AMB	90,2%	0,2%	5,5%
18-1820	AMB	90,8%	0,1%	6,7%

REFRACTIVE POWERS Ref. 6.15.3.8

Internal Id Sample	Sticker n°	Side	Spherical power +/-0,12 [m^{-1}]	Astigmatic power 0,12 [m^{-1}]	Prismatic power Base OUT	Prismatic power Limits Horiz Base IN:<0,25 Base OUT:<1 [cm/m]	Prismatic power Limits Vert <0,25 [cm/m]	Final Result
18-1815		DX	-0,07	0,02	OUT	0,01	0,014	PASS
		SX	-0,05	0,06	OUT	0,07	0,04	
18-1816		DX	0,06	0,04	OUT	0,01	0,16	PASS
		SX	0,04	0,03	OUT	0,10	0,02	
18-1817		DX	0,06	0,04	OUT	0,02	0,01	PASS
		SX	-0,05	0,02	OUT	0,04	0,02	

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LUMINOUS TRASMITTANCE, LIGHT DIFFUSION, RECOGNITION OF SIGNAL LIGHTS, SPECTRAL TRASMITTANCE									
Reference: 6.15.3.4, 6.15.3.5, 6.15.3.6, 6.15.3.7									
Internal Id	Luminous trasmittance	Recognition of signal lights				Light diffusion		Spectral Trasmittance	
		Qred	Qyellow	Qgreen	Qblu	Before scratch	After scratch	Result	Limit
	$\tau_v \geq 50\%$ Daytime $\tau_v \geq 80\%$ General	>=0,8	>=0,8	>=0,6	>=0,4	<2,5%	<20%	τ_f [500–600nm]	$\rangle 0.2\tau_v$
18-1818	91,99%	1,00	1,00	1,00	1,00	-	-	0,909	> 0,184
18-1819	91,34%	1,00	1,00	1,00	1,00	-	-	0,850	> 0,183
18-1820	90,32%	1,00	1,01	1,00	1,00	-	-	0,820	> 0,181

Bubble Visor-Grey

OPTICAL QUALITIES AND SCRATCH RESISTANCE				Ref. 7.8.3
Sticker n°/ Internal Id	Condit. [°C]	Luminous transmittance	Light diffusion	
		Before scratch	Before scratch	After scratch
		>80%	<2,5%	<20%
18-1821	AMB	61,2%	0,1%	7,3%
18-1822	AMB	61,4%	0,1%	9,6%
18-1823	AMB	62,2%	0,1%	8,0%

LUMINOUS TRASMITTANCE, LIGHT DIFFUSION, RECOGNITION OF SIGNAL LIGHTS, SPECTRAL TRASMITTANCE									
Reference: 6.15.3.4, 6.15.3.5, 6.15.3.6, 6.15.3.7									
Internal Id	Luminous trasmittance	Recognition of signal lights				Light diffusion		Spectral Trasmittance	
		Qred	Qyellow	Qgreen	Qblu	Before scratch	After scratch	Result	Limit
	$\tau_v \geq 50\%$ Daytime $\tau_v \geq 80\%$ General	>=0,8	>=0,8	>=0,6	>=0,4	<2,5%	<20%	τ_f [500–600nm]	$\rangle 0.2\tau_v$
18-1821	61,01%	1,02	1,00	1,00	1,02	-	-	0,591	> 0,122
18-1822	60,68%	1,02	0,99	1,00	1,03	-	-	0,570	> 0,121
18-1823	60,95%	1,01	0,99	1,01	1,02	-	-	0,560	> 0,122

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VAT number: 01828300069

Bubble Visor-Red

OPTICAL QUALITIES AND SCRATCH RESISTANCE				Ref. 7.8.3
Sticker n°/ Internal Id	Condit. [°C]	Luminous transmittance	Light diffusion	
		Before scratch	Before scratch	After scratch
		>80%	<2,5%	<20%
18-1824	AMB	57,0%	0,1%	8,9%
18-1825	AMB	57,3%	0,1%	7,3%
18-1826	AMB	58,4%	0,1%	7,7%

LUMINOUS TRASMITTANCE, LIGHT DIFFUSION, RECOGNITION OF SIGNAL LIGHTS, SPECTRAL TRASMITTANCE

Reference: 6.15.3.4, 6.15.3.5, 6.15.3.6, 6.15.3.7

Internal Id	Luminous trasmittance	Recognition of signal lights				Light diffusion		Spectral Trasmittance	
		Qred	Qyellow	Qgreen	Qblu	Before scratch	After scratch	Result	Limit
	$\tau_v \geq 50\%$ *Daytime* $\tau_v \geq 80\%$ *General*	>=0,8	>=0,8	>=0,6	>=0,4	<2,5%	<20%	τ_f [500–600nm]	$\rangle 0.2\,\tau_v$
18-1824	58,07%	1,51	1,27	0,81	0,82	-	-	0,356	> 0,116
18-1825	57,45%	1,53	1,27	0,80	0,82	-	-	0,356	> 0,115
18-1826	57,07%	1,54	1,28	0,80	0,82	-	-	0,356	> 0,114

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Bubble Visor-Yellow

OPTICAL QUALITIES AND SCRATCH RESISTANCE				Ref. 7.8.3
Sticker n°/ Internal Id	Condit. [°C]	Luminous transmittance	Light diffusion	
		Before scratch	Before scratch	After scratch
		>80%	<2,5%	<20%
18-1827	AMB	81,8%	0,1%	5,5%
18-1828	AMB	82,2%	0,1%	6,1%
18-1829	AMB	81,4%	0,1%	7,0%

LUMINOUS TRASMITTANCE, LIGHT DIFFUSION, RECOGNITION OF SIGNAL LIGHTS, SPECTRAL TRASMITTANCE

Reference: 6.15.3.4, 6.15.3.5, 6.15.3.6, 6.15.3.7

Internal Id	Luminous trasmittance	Recognition of signal lights				Light diffusion		Spectral Trasmittance	
		Qred	Qyellow	Qgreen	Qblu	Before scratch	After scratch	Result	Limit
	$\tau_v \geq 50\%$ Daytime $\tau_v \geq 80\%$ General	>=0,8	>=0,8	>=0,6	>=0,4	<2,5%	<20%	τ_f [500–600nm]	$\rangle 0.2\,\tau_v$
18-1660	81,60%	1,11	1,10	0,95	0,83	-	-	0,620	> 0,163
18-1661	80,59%	1,13	1,11	0,95	0,83	-	-	0,630	> 0,161
18-1662	81,09%	1,12	1,10	0,96	0,84	-	-	0,630	> 0,162

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THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM.

Laboratory Technician
(Adolfo Garlando)

Laboratory Manager
(Juan Pablo Cuesta)

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