



DELTA
TESTING & RESEARCH LABORATORIES



Plot No.C-5, Block- C, Main Kanjawala Road
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TEST REPORT

M/S TIIVRA VENTURES PVT LTD.

11, Manju Villa 246 Waterfield Rd, Bandra West Mumbai 400050

Sample Description	:	PROTECTIVE HELMET FOR TWO WHEELER RIDERS
Standard Follow	:	ECE R 22.05
Type	:	PROTECTIVE WITH LOWER FACE COVER WITH VISOR
Brand	:	TIIVRA
Model	:	ALTEREGO
Size	:	60 cm
Manufacturing Date	:	24/08/2022
Batch No.	:	12/ALTEREGO/2022
Material	:	NON - METALLIC
Report No.	:	DTRL/GEN/26082217230
ULR No.	:	TC741422000003412F
Period of Testing	:	27/08/2022 to 31/08/2022
Date of Receipt	:	26/08/2022
Report Date	:	31/08/2022

This Report Contains 23 Pages In Total.

DTRL-2022-0727



Sunil Shukla
Deputy Tech. Manager

Analysed By

Authorised Signatory

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Helmet Brand Name	Tiivra
Helmet Model Designation	Altergo
Helmet Size	60 cm
Year of manufacture	24/08/2022
Material	Non - Metallic
Period of Testing	27.08.2022 to 31.08.2022
Discipline :Mechanical Tests Group : Performance/Durability/Safety Test	



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1.	Markings	Clause 4 Sub-Clause 4.1	The protective helmets submitted for approval in conformity with paragraph 3.1 of this code shall bear:	Applicable	Yes
		Sub-Clause 4.1.1	On the helmet, the applicant's trade name or mark and an indication of the size and, if appropriate, an indication of the unsuitability of the lower face cover to offer any protection against impacts to the chin.	Present	Yes
		Sub-Clause 4.1.2	On the visor, the applicant's trade name or mark and, if appropriate, an indication of the unsuitability of the visor for use during the hours of darkness or in conditions of poor Visibility.	Present	Yes
		Sub-Clause 4.2	The visors submitted for approval in conformity with paragraph 3.2. of this code shall bear the applicant's trade name or mark and, if appropriate, an indication of the unsuitability of the visor for use during the hours of darkness or in conditions of poor visibility.	Present	Yes
		Sub-Clause 4.3	The marking shall not be placed within the main visibility area.	Satisfactory	Yes

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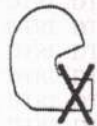
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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 4.4	The marking shall be indelible, clearly legible and in readily accessible place.	Present	Yes
2.	General Specifications	Clause 6 Sub-Clause 6.1 Sub-Clause 6.2	The basic construction of the helmet shall be in the form of a hard outer shell, containing additional means of absorbing impact energy, and a retention system. The protective helmet may be fitted with ear flaps and a neck curtain. It may also have detachable peak, a visor and a lower face cover. If fitted with a non-protective lower face cover the outer surface of the cover shall be marked "Does not protect chin from impacts" and/or with the symbol shown in figure 1 below indicating the unsuitability of the lower face cover to offer any protection against impacts to the chin  <small>Figure 1: Symbol "Does not protect chin from impacts"</small>	Refer to Clause 7.3 (Satisfactory) Visor Fitted: Refer to Annex 1	Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 6.3	No component or device may be fitted to or incorporated in the protective helmet unless it is designed in such a way that it will not cause injury and that, when it is fitted to or incorporated in the protective helmet, the helmet still complies with the requirements of this Regulation.	No component or devices are fitted or incorporated that cause injury. (Satisfactory)	Yes
		Sub-Clause 6.4	The extent of the protection provided shall be as follows:		
		Sub-Clause 6.4.1	The shell shall cover all areas above plane AA' and shall extend downwards at least as far as the lines CDEF on both sides of the head form.(See Annex 4, Figure 1A of the standard)	Shell covered all the area above 'AA' plane also covered CDEF lines on both sides.	Yes
		Sub-Clause 6.4.2	At the rear, the rigid parts and, in particular, the shell shall not be within a cylinder defined as follows(See Annex 4, Figure 1B of the standard) - Diameter 100 mm; - Axis, situated at the intersection of the medium plane of symmetry of the head form and of a plane parallel to and 110 mm below the reference plane.	At the rear, the rigid parts and, in Particular, the shell is not within a cylinder of diameter 100mm and with axis situated at the intersection of the medium plane of symmetry of the head for and of a plane parallel to and 110mm below the reference plane. (Satisfactory)	Yes
		Sub-Clause 6.4.3	The protective padding shall cover all the areas defined in paragraph 6.4.1., account being taken of the requirements of paragraph 6.5.	Satisfactory	Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 6.5	The helmet shall not dangerously affect the wearer's ability to hear. The temperature in the space between the head and the shell shall not rise inordinately; to prevent this, ventilation holes may be provided in the shell. Where means for attaching a visor are not provided, the profile at the front edge shall not prevent the wearing of goggles.	Satisfactory Ventilation Holes present.	Yes Yes
		Sub-Clause 6.6	All projections from or irregularities in the outer surface of the shell greater than 2 mm shall be tested for shear assessment according to paragraphs 7.4.1. or 7.4.2.	Projection in the shell greater than 2mm present (Refer to clause 7.4.2)	Yes
		Sub-Clause 6.7	All external projections shall be radiused and any external projections other than press-fasteners shall be smooth and adequately faired.	External Projections: Radiused, smooth and adequately faired.	Yes
		Sub-Clause 6.7.1	All external projections not more than 2 mm above the outer surface of the shell (e.g. rivet heads) shall have a radius of a minimum of 1 mm.	Rivet Head :Radiused , not more than 2 mm above the shell & radius more than 1 mm.	Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)		
		Sub-Clause 6.7.2	All external projections more than 2 mm above the outer surface of the shell shall have a radius of a minimum of 2 mm. The latter specific requirements shall not apply if a projection satisfies the requirements in paragraphs 7.4.1. or 7.4.2. Below.	Satisfactory	Yes
		Sub-Clause 6.8	There shall be no inward-facing sharp edges on the inside of the helmet; rigid, projecting internal parts shall be covered with padding so that any stresses transmitted to the head are not highly concentrated.	Inward -Facing sharp edges: Not Present. Rigid Projection internal parts: Covered with padding.	Yes
		Sub-Clause 6.9	The various components of the protective helmet shall be so assembled that they are not liable to become easily detached as a result of an impact.	No detachment of components observed.	Yes
		Sub-Clause 6.10	Retention systems shall be protected from abrasion.	Satisfactory	
		Sub-Clause 6.11	The helmet shall be held in place on the wearer's head by means of a retention system which is secured under the lower jaw. All parts of the retention system shall be permanently attached to the system or to the helmet.	Retention system permanently attached to the helmet and D-ring Provided.	Yes

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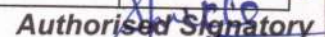


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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 6.11.1	If the retention system includes a chin-strap, the strap shall be not less than 20 mm wide under a load of 150 N ± 5 N applied under the condition prescribed in paragraph 7.6.2.	Chin Strap Included. Width:21.52 mm	Yes
		Sub-Clause 6.11.2	The chin strap shall not include a chin-cup.	Not Included	-
		Sub-Clause 6.11.3	Chin straps shall be fitted with a device to adjust and maintain tension in the strap.	Adjusting device: Fitted.	Yes
		Sub-clause 6.11.4	Chin strap fastening and tensioning devices shall be positioned on the straps either so that there are no rigid parts extending more than 130 mm vertically below the head form reference plane with the helmet mounted on the appropriate sized head form, or so that the whole of the device is between the bony projections of the underside of the lower jaw.	No rigid parts extending more than 130 mm vertically below the head form reference plane observed.	Yes
		Sub-Clause 6.11.5	If the retention system includes either a double-D ring or sliding bar fastening device then means shall be provided to prevent the retention system being completely undone and also to retain the free end of the strap when the retention system is adjusted.	Satisfactory	Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 6.11.6	Sliding bar and double-D ring fastening devices shall be fitted with a pulling flap to be used for releasing the retention system. Its colour must be red and its minimum dimensions must be 10 x 20 mm.	Satisfactory	Yes
		Sub-Clause 6.11.7	If a retention system includes a quick-release mechanism, then the method of release of this mechanism shall be self-evident. Any levers, tabs, buttons or other components which need to be operated to release the mechanism shall be coloured red, those parts of the rest of the system which are visible when closed shall not be similarly coloured, and the mode of operation shall be permanently indicated.	Not Applicable	-
		Sub-Clause 6.11.8	The retention system shall remain closed when the tests described in paragraphs 7.3., 7.6. and 7.7 are carried out.	Retention system closed as per clause.	Yes
		Sub-Clause 6.11.9	The buckle of the retention system shall be designed so as to preclude any possibility of incorrect manipulation. This means, inter alia, that it must not be possible for the buckle to be left in a partially closed position.	Satisfactory	Yes
		Sub-Clause 6.12	The characteristics of the materials used in the manufacture of helmets shall be known not to undergo appreciable alteration under the influence of ageing, or of the circumstances of use to which the helmet is normally subjected, such as exposure to sun, extremes of temperature and rain.	Conditions simulated as per the requirement and sample also tested by wearing in sun light for 1h. (Satisfactory)	Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 6.13	For those parts of the helmet coming into contact with the skin, the materials used shall be known not to undergo appreciable alteration through the effect of perspiration or of toilet preparations. The manufacturer shall not use materials known to cause skin troubles. The suitability of a proposed new material shall be established by the manufacturer. After the performance of one of the prescribed tests, the protective helmet shall not exhibit any breakage or deformation dangerous to the wearer.	No deformation/No breakage observed.	Yes
3.	Peripheral Vision	Clause 6.14 Sub-Clause 6.14.1 Sub-Clause 6.14.2 Sub-Clause 6.14.3 Sub-Clause 6.14.3.1	To carry out the test, the technical service shall select from among the existing sizes of a helmet type the size it considers likely to yield the least favourable result; The helmet shall be placed on the head form corresponding to its size by the procedure set out in annex 5 to this Regulation; In the above conditions there shall be no occultation in the field of vision bounded by: (See annex 4, figs. 2A, 2B, and 2C) Horizontally: two segments of dihedral angles symmetrical in relation to the median longitudinal planes. Each of these dihedral angles is defined by the median longitudinal vertical plane of the head form and the vertical plane forming an angle of not less than 105° with the median longitudinal vertical plane and whose edge is the straight line LK;	Satisfactory Satisfactory 116.4°	Yes Yes Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)			
		Sub-Clause 6.14.3.2	Upwards: a dihedral angle defined by the reference plane of the head form and a plane forming an angle of not less than 7° with the reference plane and whose edge is the straight line L1 L2, the points L1 and L2 representing the eyes;	18.8°	Yes
		Sub-Clause 6.14.3.3	Downwards: a dihedral angle defined by the basic plane of the head form and a plane forming an angle of not less than 45° with the basic plane and whose edge is the straight line K1 K2.	64.1°	Yes
4.	Visors	Clause 6.15			
		Sub-Clause 6.15.1	The systems of attachment of a visor to a helmet shall be such that the visor is removable. It must be possible to manoeuvre the visor out of the field of vision with a simple movement of one hand. However, the latter prescription may not be required for helmets which do not provide chin protection provided that a label is attached to the helmet to the effect of warning the purchaser that the visor cannot be manoeuvred.	Satisfactory	Yes
		Sub-clause 6.15.2	Angle opening (Should be ≥ 5° as per Annex 9)	Passes the test	Yes
		Sub-clause 6.15.3	Field of vision		

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4) Sub-Clause 6.15.3.1	The visor shall not comprise any part liable to impair the user's peripheral vision as defined in paragraph 6.14 when the visor is in the totally opened position. Furthermore, the lower edge of the visor shall not be situated in the downward field of vision of the user as defined in paragraph 6.14. when the visor is in closed position. The surface of the visor in the peripheral field of vision of the helmet may however include: (i) The lower edge of the visor, provided that it is made of a material with at least the same transmittance as the rest of the visor, (ii) A device to allow the visor to be manoeuvred. However, if this device is situated within the field of vision of the visor defined in paragraph 6.15.3.2. below it shall be at the lower edge and present a maximum height (h) of 10 mm and its width (l) shall be such that the product (h x l) at the most is equal to 1.5 cm ² . Moreover, it must be made of a material with at least the same transmittance as the visor and it must be free of any engraving, paint or other covering feature,	Satisfactory	Yes
				Satisfactory	Yes

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		Sub-clause 6.15.3.2	(iii) Fixings and devices to allow the visor to be manoeuvred if they are situated outside of the field of vision of the visor and if the total surface of these parts, including devices, if any, to allow the visor to be manoeuvred does not exceed 2 cm ² , possibly distributed on each side of the field of vision. The field of vision of the visor is defined by:	Satisfactory	Yes
			(a) A dihedron defined by the reference plane of the head form and a plane forming an angle of at least 7° upwards, its edge being the straight line L1 L2, with points L1 and L2 representing the eyes,	Satisfactory	Yes
			(b) Two segments of dihedral angles symmetrical to the median vertical longitudinal plane of the head form. Each of these dihedral angles is defined by the median vertical longitudinal plane of the head form and the vertical plane forming with this plane an angle of 90°, its edge being the straight line LK,	Satisfactory	Yes
		Sub-clause 6.15.3.3	(c) and the lower edge of the visor. To determine the field of vision as defined in paragraph 6.15.3.2. above, the helmet fitted with the visor being tested shall be placed on a test head form of suitable size in accordance with the provisions of paragraph 7.3.1.3.1., with the helmet tipped towards the rear as specified in paragraph 7.3.1.3.1. and the visor placed in the closed position.	Satisfactory	Yes
		Sub-clause 6.15.3.4	Visors shall have a luminous transmittance $\tau_v \geq 80\%$, relative to the standard illuminate D65. A luminous transmittance $80\% > \tau_v \geq 50\%$, measured by the method given in paragraph 7.8.3.2.1.1., is also permissible if the visor is marked with the symbol shown in figure 2 of this code and/or with the English words "ADAYTIME USE ONLY". The luminous transmittance shall be measured before the abrasion test.	91.1%	Yes

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TEST REPORT

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ULR No. : TC741422000003412F

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4) Sub-Clause 6.15.3.5	Visors shall be free from any significant defects likely to impair the vision, such as bubbles, scratches, inclusions, dull spots, holes, mould marks, scratches or other defects originating from the manufacturing process in the field of vision. The light diffusion shall not exceed the limit in accordance with paragraph 7.8.3.2.1.2. when measured in accordance with one of the methods specified in annex 11.(See Annex 2 of this report) If different results arise when this is assessed, the requirements on scattered light shall be measured and assessed over an area 5 mm in diameter which includes the presumed error. In addition, the regular transmittance shall not deviate by more than ± 5 per cent from the reference value, measured in one of two sight points specified in paragraph 6.15.3.8., at any point within the field of vision of the visor.	Satisfactory	Yes
		Sub-clause 6.15.3.7	The spectral transmittance, measured by the method given in paragraph 7.8.3.2.1.1., of the visor shall not be less than $0.2\tau_v$. The spectral transmittance shall be measured before the abrasion test.	Satisfactory	Yes
		Sub-clause 6.15.3.8	The table contains the permissible refractive powers at the sight points. The sight points are located in the reference plane 32 mm to the right and the left of the longitudinal median plane. For Permissible refractive power values for visors – See Annexure 1	Satisfactory	Yes

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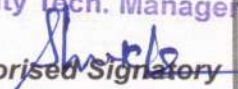


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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)		
5.	Tests	Clause 7			
		Sub-Clause 7.2	Each helmet shall be subject to Solvent conditioning.	All Conditioning has been done as per clause.	Yes
		Sub-Clause 7.2.1	<p>Solvent Conditioning Take a cotton cloth approximately 150 mm square and a quantity approximately 25 ml of a solvent consisting of test liquid B in accordance with ISO 1817:1985(70 per cent octane and 30 per cent toluene) Using the cloth soaked in the solvent, apply the solvent to all those regions of the outside surface of the helmet within 50 mm of the chin strap fixings, and keep these regions wet with the solvent for (7.5 " 2.5) s. Repeat the procedure on the remainder of the external surface including any chin guard, keeping these regions wet for (12.5 " 2.5) s. Do not carry out any further conditioning or testing during the following 30 min.</p>		
		Sub-clause 7.2.2	<p>Ambient-temperature and hygrometry conditioning The helmet shall be exposed to a temperature of 25 °C " 5 °C and are relative humidity of 65% " 5% for at least 4 hours.</p>		
		Sub-Clause 7.2.3	<p>Heat conditioning The helmet shall be exposed to a temperature of 50 °C + 2 °C for not less than 4 hours and not more than 6 hours.</p>		
		Sub-Clause 7.2.4	<p>Low-temperature conditioning The helmet shall be exposed to a temperature of -20 °C + 2 °C for not less than 4 hours and not more than 6 hours.</p>		

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		Sub-Clause 7.2.5	Ultraviolet-radiation conditioning and moisture conditioning The outer surface of the protective helmet shall be exposed successively to:		
		Sub-Clause 7.2.5.1	7.2.5.1 ultraviolet irradiation by a 125-watt xenon-filled quartz lamp for 48 hours at a range of 25 cm;		
		Sub-Clause 7.2.5.2.	Spraying for 4 to 6 hours with water at ambient temperature at the rate of 1 litre per minute.		
6.	Impact-absorptions tests	Clause 7.3 Sub-Clause 7.3.6	The absorption efficiency shall be considered sufficient where the resultant acceleration measured at the centre of gravity of the head form at no time exceeds 275 g, and the Head Injury Criterion does not exceed 2400. The helmet shall not become detached from the head form. (See Annexure 3)	Satisfactory (See Annexure 3)	Yes
7.	Test for Projections and Surface Friction (Method B)	Clause 7.4.2 Sub-Clause 7.4.2.4.1	For shear assessment the tested projection shall shear away ,be detached or alternatively shall not prevent the assessment bar from sliding past the projection. In all cases the bar on the horizontal carriage shall travel past the projection.	Satisfactory	Yes
		Sub-Clause 7.4.2.4.2	For friction assessment the abrasive carriage shall not be brought to rest by the helmet.	Satisfactory	Yes

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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)		
8.	Rigidity Tests	Clause 7.5 Sub-Clause 7.5.4 Sub-Clause 7.5.5	In the test along each axis, the deformation measured under the 630 N load shall not exceed that measured under the initial 30 N load by more than 40 mm. After restoration of the 30 N load, the deformation measured shall not exceed that measured under the initial 30 N load by more than 15 mm. (See Annexure 4)	Satisfactory (See Annexure-4)	Yes
9.	Dynamic Test of the Retention system	Clause 7.6 Sub-Clause 7.6.4 Sub-Clause 7.6.5	(a) During the test, the dynamic displacement of the point of application of the force shall not exceed 35 mm. (b) After two minutes, the residual displacement of the point of application of the force, as measured under a mass of 15 kg ± 0.5 kg, shall not exceed 25 mm. (See Annexure 5)	Satisfactory (See Annexure-5)	Yes
10.	Retention (Detaching) Test	Clause 7.7 Sub-clause 7.7.4	After the test the angle between the reference line situated on the shell of the helmet and the reference plane of the head form shall not exceed 30°. (See Annexure 6)	Satisfactory (See Annexure-6)	Yes
11.	Visor Tests	Clause 7.8 Sub-Clause 7.8.2 Sub-Clause 7.8.2.3.1	Mechanical Characteristics No sharp splinters are produced if the visor is shattered. Any segment having an angle less than 60° shall be considered as a sharp splinter.	Passes the test Satisfactory	Yes Yes

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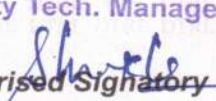


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12.	Optical qualities and scratch resistance	Clause 7.8.3 Sub-Clause 7.8.3.2.1 Sub-Clause 7.8.3.2.1.1 Sub-Clause 7.8.3.2.1.2	7.8.3.2.1. Three similar test pieces, each from a different visor and taken from the area specified in paragraph 6.15.3.2., shall meet the requirements of paragraphs 7.8.3.2.1.1.and 7.8.3.2.1.2. 7.8.3.2.1.1. In a parallel beam, with the test specimens being irradiated vertically, determine the spectral transmittance values between 380 nm and 780 nm and then the transmittance and the visual attenuation quotient in accordance with the equations given in annex 13. To calculate the luminous transmittance, the spectral distribution of standard illuminate D65 and the spectral values of the colorimetric 2° standard observer CIE 1931 according to ISO/CIE 10526 shall be used. The product of the spectral distribution of standard illuminate D65 and the spectral values of the colorimetric 2° standard observer CIE 1931 according to ISO/CIE 10526 is given in annex 14. Linear interpolation of these values for steps smaller than 10 nm is permissible. The light diffusion shall not exceed the following values for each method: See Annexure 2	Satisfactory Satisfactory (See Annexure-1) Satisfactory (See Annexure-2)	Yes Yes Yes
13.	Micro-slip test of the chin strap	Clause 7.9 Sub-Clause 7.9.4	The total slippage through the grip shall not exceed 10 mm.	Slippage through the grip:2.48 mm	Yes
14.	Test for resistance to abrasion of the chin strap	Clause 7.1 Sub-Clause 7.10.5	The strap shall withstand a tension of 3 kN without breaking.	Slippage at micro slip test less than 5mm. Hence, this test not required to be performed. (Not Applicable)	-

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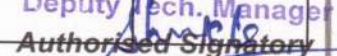


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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)		
15.	Tests for retention systems relying on quick-release mechanisms	<p>Clause 7.11 Sub-Clause 7.11.1</p> <p>Sub-Clause 7.11.1.1</p> <p>Sub-Clause 7.11.1.2</p>	<p>Inadvertent release by pressure</p> <p>If the retention system is designed to be released by pressure on a certain part, the system shall not release when a rigid sphere of diameter 100 mm is pressed with a force of 100 ± 5 N directly in the line of movement of that part.</p> <p>If such a system incorporates more than one quick-release mechanism, or one such mechanism requiring more than one operation to release it, the system shall be deemed not to comply with this requirement if sufficient opening of the system is caused by the pressure of the sphere on only one quick-release mechanism or for only one operation, whichever is appropriate, to allow the release of the appropriate head form.</p>	<p>Retention system is not designed to be released by pressure on certain part. (Not Applicable)</p> <p>Not Applicable</p>	-
16.	Ease of release	<p>Clause 7.11.2 Sub-Clause 7.11.2.1</p> <p>Sub-Clause 7.11.2.2</p>	<p>The helmet shall be mounted on the apparatus described in paragraph 7.6. such that a static force of 150 ± 5 N is applied to the retention system. An additional static force of 350 ± 5 N shall be applied to the retention system for at least 30 seconds and then removed. After the additional force has been removed, the opening system shall be capable of being operated by a force not exceeding 30 N. However, if the quick release mechanism is incorporated in the helmet shell, the opening system shall be capable of being operated by a force not exceeding 60 N.</p> <p>The buckle opening force shall be applied using a dynamometer or similar device in the manner and direction of normal use. In the case of a push button the contact end shall be a polished metal hemisphere with radius 2.5 " 0.1 mm. The opening force shall be applied on the geometric centre of the push button or respective application areas.</p>	<p>Not Applicable</p> <p>Push Button: Not Present (Not Applicable)</p>	-

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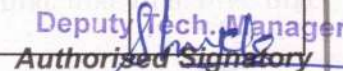


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		ECE Regulation No.22, supplement 3 to the 05 series of amendments (Including Revision 4)	(As per ECE Regulation No.22, supplement 3 to the 05 series of amendments) (Including Revision 4)		
17.	Durability of quick-release mechanisms	<p>Clause 7.11.3 Sub-Clause 7.11.3.1</p> <p>Sub-Clause 7.11.3.2</p> <p>Sub-Clause 7.11.3.3</p> <p>Sub-Clause 7.11.3.4</p> <p>Sub-clause 7.11.3.5</p>	<p>Subject the quick-release mechanism to the following procedure in the order given.</p> <p>Using apparatus appropriate to the particular design of mechanism carry out the following procedure. Close and lock the mechanism. Apply a loading force of 20 ± 1 N in the direction in which the mechanism is designed to bear load, then unlock and disengage the mechanism under load. Complete this cycle in not less than 2 s. Repeat for a total of 5,000 cycles.</p> <p>If the quick-release mechanism incorporates metal components carry out the following procedure:</p> <p>Place the complete mechanism in a closed cabinet so that the mechanism can be continuously wetted by a spray while still allowing free access of air to all parts of the mechanism.</p> <p>Subject the mechanism to a spray of a solution consisting of 5 ± 1 per cent (m/m) of reagent grade sodium chloride in distilled or de-ionized water for a period of 48 ± 1 h at a temperature of 35 ± 5 °C. Rinse the mechanism thoroughly in clean running water to remove salt deposits and allow it to dry for 24 ± 1 h.</p> <p>Repeat the procedure in paragraph 7.11.3.2.</p> <p>The quick release mechanism shall not fracture nor disengage when a tensile force of $2.0 \text{ kN} \pm 50\text{N}$ is progressively applied to the retention system in the direction in which the mechanism is designed to bear load. Following the application and removal of the force, the quick release mechanism shall still be capable of operation.</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>	<p>-</p> <p>-</p> <p>-</p> <p>-</p>

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Annexure 1

Permissible refractive power values for visors

Spherical effect	Astigmatic effect	Prismatic effect difference		
		Horizontal		Vertical
		Base Out	Base In	
$\frac{D_1 + D_2}{2}$	$ D_1 - D_2 $			
m^{-2}	m^{-2}	Cm/m	Cm/m	Cm/m
0.013	0.004	0.114	0.113	0.217

D_1, D_2 : Refractive effect in two main sectors

The requirements for the prismatic effect apply to the difference between the values at the two sight points.

The refractive powers shall be measured according to method specified in annex 15 of ECE-22.05

Annexure 2

The light diffusion shall not exceed the following values for each method :

Before abrasion	After abrasion
0.7 %	1.5 %

b/ measured according to annex 11, method (b);

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Annexure 3

Impact Absorption Test for Helmets

Velocity : 7.5(-0.0, +0.15) m/s for kerbstone and flat (at all points, except "S" point), 5.50 (-0.0, +0.15) m/s for flat (at "S" point).
Max peak : 275g

Helmet no.	Condition	Test anvil	Test site	Velocity (m/s)	Peak 'G ≤275 g	HIC ≤2400	Result
1.	Solvent plus ambient temperature and hygrometry conditioning	Kerbstone	B	7.58	155.7	779	Pass
		Kerbstone	X	7.54	114.5	645	Pass
		Flat	P	7.51	195.4	1725	Pass
		Flat	R	7.56	173.3	1001	Pass
2.	Solvent plus ambient temperature and hygrometry conditioning	Flat	B	7.58	192.6	1401	Pass
		Flat	X	7.59	179.7	1240	Pass
		Kerbstone	P	7.58	130.9	758	Pass
		Kerbstone	R	7.58	141.3	692	Pass
3.	Solvent plus heat conditioning	Kerbstone	B	7.62	186.8	1397	Pass
		Kerbstone	X	7.62	169.1	706	Pass
		Kerbstone	P	7.51	138.2	595	Pass
		Kerbstone	R	7.58	173.8	1140	Pass
4.	Solvent plus low temperature conditioning	Flat	B	7.54	209.2	1717	Pass
		Flat	X	7.54	162.7	1122	Pass
		Flat	P	7.51	171.7	1182	Pass
		Flat	R	7.58	158	1054	Pass
		Flat	S	5.58	170.8	844	Pass
5.	Solvent plus ultra-violet radiation conditioning and moisture conditioning	Kerbstone	B	7.54	136.9	786	Pass
		Flat	X	7.58	150.1	1050	Pass
		Flat	P	7.58	196	1445	Pass
		Kerbstone	R	7.52	151.7	927	Pass

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Annexure 4

Helmet no.	Condition	Direction	Deformation (measured under the 630 N and the initial 30 N)	Deformation (measured under the final 30 N and the initial 30 N)	Result
1	Solvent plus ambient temperature and hygrometry conditioning	Longitudinal axis	12 mm	1 mm	Pass
2	Solvent plus ambient temperature and hygrometry conditioning	Transverse axis	9 mm	1 mm	Pass

Annexure 5

Helmet no.	Condition	Dynamic displacement (mm)	Residual displacement (mm)	Result
1.	Solvent plus ambient temperature and hygrometry conditioning	25 mm	21 mm	Pass

Annexure 6

Helmet no.	Condition	Angle (between the reference line and the reference plane of the head form)	Result
1.	Solvent plus ambient temperature and hygrometry conditioning	20°	Pass

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