

KOV INTERNATIONAL SA DE CV  
CARRETERA LEON LAGOS 2238 INTERIOR 12, COL.LAGUNILLAS, CP. 37600,LEON DE LOS  
ALDAMAS,GUANAJUATO,MEXICO

Sample Description : FLIPUP HELMET  
Item No. : THUNDER  
Brand : KOV  
Manufacturer : KOV INTERNATIONAL SA DE CV

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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Size : 59cm-60cm  
HPI (from basic plane) : 50mm For M DOT  
Sample Receiving Date : Oct 31, 2023  
Test Performing Date : Oct 31, 2023 to Nov 15, 2023  
Test Performed : 49 CFR PART 571.218 (FMVSS 218)  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Arthur Mak  
Authorized Signatory



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**Test Conducted:** Based on 49 CFR PART 571.218 (FMVSS 218) Motorcycle Helmets

**Number of Tested Sample:** 4 piece(s)

**Test Results:** Details shown as following table

Clause	Test Item / Test Requirement / Test Method	Test Result
<b>5</b>	<b>Requirements</b> Each helmet shall meet the requirements of S5.1, S5.2, and S5.3 when subjected to any conditioning procedure specified in S6.4, and tested in accordance with S7.1, S7.2, and S7.3	Pass
<b>5.1</b>	<b>Impact attenuation</b> When an impact attenuation test is conducted in accordance with S7.1, all of the following requirements shall be met: (a) Peak accelerations shall not exceed 400g; (b) Accelerations in excess of 200g shall not exceed a cumulative duration of 2.0 milliseconds; and (c) Accelerations in excess of 150g shall not exceed a cumulative duration of 4.0 milliseconds.	Pass See annex 1
<b>5.2</b>	<b>Penetration</b> When a penetration test is conducted in accordance with S7.2, the striker shall not contact the surface of the test headform.	Pass
<b>5.3</b>	<b>Retention system</b>	
<b>5.3.1</b>	When tested in accordance with S7.3: (a) The retention system or its components shall attain the loads specified without separation; and (b) The adjustable portion of the retention system test device shall not move more than 1 inch (2.5 cm) measured between preliminary and test load positions.	Pass See annex 2
<b>5.3.2</b>	Where the retention system consists of components which can be independently fastened without securing the complete assembly, each such component shall independently meet the requirements of S5.3.1	NA
<b>5.4</b>	<b>Configuration</b> Each helmet shall have a protective surface of continuous contour at all points on or above the test line described in S6.2.3. The helmet shall provide peripheral vision clearance of at least 105° to each side of the mid-sagittal plane, when the helmet is adjusted as specified in S6.3. The vertex of these angles, shown in Figure 3, shall be at the point on the anterior surface of the reference headform at the intersection of the mid-sagittal and basic planes. The brow opening of the helmet shall be at least 1 inch (2.5 cm) above all points in the basic plane that are within the angles of peripheral vision	Pass See annex 3
<b>5.5</b>	<b>Projections</b> A helmet shall not have any rigid projections inside its shell. Rigid projections outside any helmet's shell shall be limited to those required for operation of essential accessories, and shall not protrude more than 0.20 inch (5 mm).	Pass
<b>5.6</b>	<b>Labeling</b>	



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Clause	Test Item / Test Requirement / Test Method	Test Result
5.6.1	On a label or labels separate from the certification label required by S5.6.2, each helmet shall be labeled permanently and legibly, in a manner such that the label(s) can be read easily without removing padding or any other permanent part, with the following:	Pass
	(a) Manufacturer's name.	Pass
	(b) Discrete size.	Pass
5.6.2	(c) Month and year of manufacture. This may be spelled out (for example, June 2010), or expressed in numerals (for example, 6/10).	Pass
	(d) Instructions to the purchaser as follows:	Pass
	(1) "Shell and liner constructed of (identify type(s) of materials)	Pass
	(2) "Helmet can be seriously damaged by some common substances without damage being visible to the user. Apply only the following: (Recommended cleaning agents, paints, adhesives, etc., as appropriate)	Pass
	(3) "Make no modifications. Fasten helmet securely. If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it."	Pass
	(4) Any additional relevant safety information should be applied at the time of purchase by means of an attached tag, brochure, or other suitable means	Pass
	<b>Certification</b>	
	Each helmet shall be labeled permanently and legibly with a label, constituting the manufacturer's certification that the helmet conforms to the applicable Federal motor vehicle safety standards, that is separate from the label(s) used to comply with S5.6.1, and complies with paragraphs (a) through (c) of this section.	Pass
5.6.2	(a) Content, format, and appearance. The label required by paragraph S5.6.2 shall have the following content, format, and appearance:	Pass
	(1) The symbol "DOT," horizontally centered on the label, in letters not less than 0.38 inch (1.0 cm) high.	Pass
	(2) The term "FMVSS No. 218," horizontally centered beneath the symbol DOT, in letters not less than 0.09 inches (0.23 cm) high.	Pass
	(3) The word "CERTIFIED," horizontally centered beneath the term "FMVSS No. 218," in letters not less than 0.09 inches (0.23 cm) high.	Pass
	(4) The precise model designation, horizontally centered above the symbol DOT, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass
	(5) The manufacturer's name and/or brand, horizontally centered above the model designation, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass
	(6) All symbols, letters and numerals shall be in a color that contrasts with the background of the label.	Pass
	(b) Other information. No information, other than the information specified in subparagraph (a), shall appear on the label.	Pass
	(c) Location. The label shall appear on the outer surface of the helmet and be placed so that it is centered laterally with the horizontal centerline of the DOT symbol located a minimum of 1 inch (2.5 cm) and a maximum of 3 inches (7.6 cm) from the bottom edge of the posterior portion of the helmet.	Pass

Remark: 1. NA = Not applicable.  
 2. NT = Not tested as per client's request.



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Model: THUNDER

Size: 59-60 cm

Headform: M DOT

HPI: 50 mm

**Annex-1 Impact energy attenuation test:**

Test Specification: 49 CFR PART 571.218 (FMVSS 218)

Ambient temperature at time of test: 23.0 °C

Condition	Test Anvil	Test Site	Peak' G	Duration at 150 g(ms)	Duration at 200 g(ms)	Assessment
Ambient (Clause 6.4.1 a) 1669 No.1	Flat	Front	137.0	0.00	0.00	Pass
			169.4	2.48	0.00	
	Flat	Rear	164.2	1.97	0.00	Pass
			181.4	2.81	0.00	
	Hemi	Crown	146.1	0.00	0.00	Pass
			148.9	0.00	0.00	
Hemi	Left	135.1	0.00	0.00	Pass	
		146.5	0.00	0.00		
HOT (Clause 6.4.1 b) 1664 No.2	Flat	Crown	224.3	2.76	0.93	Pass
			251.5	2.95	1.04	
	Flat	Left	182.8	3.33	0.00	Pass
			222.4	3.39	1.08	
	Hemi	Front	86.4	0.00	0.00	Pass
			89.3	0.00	0.00	
Hemi	Rear	86.9	0.00	0.00	Pass	
		89.3	0.00	0.00		
Cold (Clause 6.4.1 c) 1668 No.3	Flat	Left	213.8	3.34	0.60	Pass
			231.5	3.21	1.21	
	Flat	Rear	158.5	1.32	0.00	Pass
			181.4	2.96	0.00	
	Hemi	Front	93.1	0.00	0.00	Pass
			93.6	0.00	0.00	
Hemi	Right	127.0	0.00	0.00	Pass	
		147.5	0.00	0.00		
Wet (Clause 6.4.1 d) 1667 No.4	Flat	Front	109.3	0.00	0.00	Pass
			134.6	0.00	0.00	
	Flat	Right	177.6	3.14	0.00	Pass
			201.4	3.04	0.27	
	Hemi	Left	120.8	0.00	0.00	Pass
			127.0	0.00	0.00	
Hemi	Rear	81.1	0.00	0.00	Pass	
		82.1	0.00	0.00		



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### Annex-2 Retention system strength test results:

Test Specification: 49 CFR PART 571.218 (FMVSS 218)

Ambient temperature at time of test: 23.0°C

Condition	Max. extension (mm)	Assessment
Ambient (Clause 6.4.1 d) No.1	19.6	Pass
Hot (Clause 6.4.1 d) No.2	14.5	Pass
Cold (Clause 6.4.1 d) No. 3	17.2	Pass
Wet (Clause 6.4.1 d) No.4	16.3	Pass

### Annex-3 Vision test result:

Head form:  M  DOT

Positioning Index:  50  mm

Peripheral vision: >105°

Brow opening:  45  mm

### Sample Photo(s):



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<p>Side view</p>	
<p>Back view</p>	



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<p>Label</p>	<p style="text-align: center;"><b>DOT FMVSS NO.218 CERTIFIED WARNING!</b></p> <p>No helmet can protect the user from all possible and foreseeable impacts. To provide maximum protection, the helmet:</p> <ol style="list-style-type: none"> <li>1. Must be of good fit and all retention straps must be securely fastened to retain the helmet. The helmet when fitted and fastened, shall not be removed easily under this condition.</li> <li>2. Must allow adequate peripheral vision. Tinted goggles or visors should not be worn at night or in any condition of poor visibility.</li> <li>3. Is so constructed, though damage may not be visible, if it suffers damage after such as impact it must, either be returned to the manufacturer for inspection or to be destroyed and replaced.</li> <li>4. Must make no modification to maintain the full efficiency of the helmet, there may not be alteration to the structure of the helmet or its component parts.</li> <li>5. Can be seriously damaged by some common substances, such as gasoline, paint, adhesives or cleaning agents without visible damage, apply only on the following: non-abrasive cleaners to the shell, use only mild soap and water to clean pads and lining.</li> </ol> <p>Shell constructed of injection moulded acrylonitrile butadiene styrene and polycarbonate blending thermoplastic lining of expanded polystyrene.</p> <p>Important: review helmet user's guide for additional information prior to using your new helmet. Material of the outer shell: ABS Plastic</p> <p><b>KOV INTERNATIONAL SA DE CV</b> CARRETERA LEON-LAGOS #2238, INTERIOR 12, COL. LAGUNILLAS, CP. 37600, LEON DE LOS ALDAMAS, GUANAJUATO, MEXICO</p> <p><b>Model: THUNDER Size:</b> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>S</td><td>M</td><td>L</td><td>XL</td><td>XXL</td></tr></table> <b>Mfg Date: 2023</b> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td>9</td><td>10</td><td>11</td><td>12</td></tr></table></p> <p style="text-align: right; font-size: small;">MADE IN CHINA</p> <p style="text-align: center; font-size: x-small;">59-60CM</p>	S	M	L	XL	XXL	1	2	3	4	5	6	7	8	9	10	11	12
S	M	L	XL	XXL														
1	2	3	4															
5	6	7	8															
9	10	11	12															
<p>Label</p>	<div style="text-align: center; border: 2px solid gray; padding: 20px; width: fit-content; margin: auto;"> <p style="font-size: 48px; margin: 0;">L</p> <hr style="border: 1px solid gray;"/> <p style="font-size: 48px; margin: 0;">59~60cm</p> </div>																	



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Front test line for  
(M) DOT head form



Side test line for  
(M) DOT head form



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Rear test line for  
(M) DOT head form



Penetration sites



<p>Penetration sites</p>	
<p>Penetration sites</p>	



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<p>Penetration sites</p>	
<p>Penetration sites</p>	

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Remark: This test report is to supersede No. GZHL2311038310HM test report which was issued on Nov 15, 2023. And the original test reports (paper and electronic) are invalid.

\*\*\*End of Report\*\*\*



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