



## Test Report

No.: GZHL1612055153HM

Date: Dec 21, 2016

COMERCIALIZADORA INDUCASCOS S.A.  
CRA.50GG # 10BSUR - 38 MEDELLIN - COLOMBIA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : MOTORCYCLE HELMET  
Style / Item No. : HRO-510  
Size : 57cm-58cm; 59cm-60cm; 61cm-62cm  
HPI (from basic plane) : 57cm-58cm: 48mm FOR C-dot  
59cm-60cm: 48mm FOR C-dot  
61cm-62cm: 53mm FOR d-dot  
Test Performed : FMVSS 49 CFR 571.218  
Sample Receiving Date : Dec 13, 2016  
Test Performing Date : Dec 13, 2016 to Dec 20, 2016  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
Guangzhou Branch  
SGS-CSTC Ltd.

Arthur Mak  
Approved Signatory



SGS-CSTC (China) Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Headlines

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**Test Conducted: Based on FMVSS 49 CFR 571.218 Motorcycle Helmets**

**Number of Tested Sample: 12** piece(s)

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

Clause	Test Method/Requirement	Test Result
5.1	<p><b>Impact attenuation</b> When an impact attenuation test is conducted in accordance with S7.1, all of the following requirements shall be met:</p> <ul style="list-style-type: none"> <li>(a) Peak accelerations shall not exceed 400g;</li> <li>(b) Accelerations in excess of 200g shall not exceed a cumulative duration of 2.0 milliseconds; and</li> <li>(c) Accelerations in excess of 150g shall not exceed a cumulative duration of 4.0 milliseconds.</li> </ul>	Pass See annex 1
5.2	<p><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.</p>	Pass See annex 4
5.3	<p><b>Retention system</b></p>	
5.3.1	<p>When tested in accordance with S7.3:</p> <ul style="list-style-type: none"> <li>(a) The retention system or its components shall attain the loads specified without separation; and</li> <li>(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.</li> </ul>	Pass See annex 2
5.3.2	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	N/A
5.4	<p><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</p>	Pass See annex 3
5.5	<p><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).</p>	Pass
5.6	<p><b>Labeling</b></p>	
5.6.1	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



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	(a) Manufacturer's name.	Pass
	(b) Discrete size.	Pass
	(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.

