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

Sample Description : MOTORCYCLE HELMET

Style / Item No. : AH-16 VOSSDOT

 Size
 : 61cm-62cm (XL)

 HPI
 : 46mm for DOT D

Manufacturer

Test Performed : FMVSS 218
Sample Receiving Date : Mar. 07, 2015

Test Performing Date : Mar. 07, 2015 To Mar. 18, 2015

Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
FMVSS 48 CFR 571.218	Pass

Signed for and on behalf of SGS-CSTC Co., Ltd.

Jason Cheung Approved Signatory



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Test Conducted: FMVSS 218 Motorcycle Helmets

Test results:

Clause	Test Method/Requirement	Result
	Impact attenuation	
5.1	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
	Penetration	
5.2	When a penetration test is conducted in accordance with S7.2, the striker shall not contact the surface of the test headform.	Pass
5.3	Retention system	
5.3.1	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
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 \$5.3.1	N/A
	Configuration	
5.4	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
	Projections	
	A helmet shall not have any rigid projections inside its shell.	Pass
5.5	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



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5.6	Labeling		
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:		
	(a) Manufacturer's name or identification	Pass	
	(b) Precise model designation	Pass	
	(c) Size	Pass	
	(d) Month and year of manufacture. This may be spelled out (for example, June 1988), or expressed in numerals (for example, 6/88)	Pass	
	(e) The symbol DOT, constituting the manufacturer's certification that the helmet conforms to the applicable Federal motor vehicle safety standards. This symbol shall appear on the outer surface, in a color that contrasts with the background, in letters at least 3/8 inch (1 cm) high, centered laterally with the horizontal centerline of the symbol located a minimum of 11/8 inches (2.9 cm) and a maximum of 13/8 inches (3.5 cm) from the bottom edge of the posterior portion of the helmet	Pass	
	(f) 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	

Remark:

- 1. N/A means not applicable.
- 2. N/T means not tested as per client's request.



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Model: <u>AH-16</u> Size: <u>61-62</u> cm Headform: <u>D</u> DOT HPI: <u>46</u> mm

Annex-1 Impact energy attenuation test:

Test Specification: FMVSS 218–7.1 Ambient temperature at time of test: 22 °C

Condition	Test Anvil	Test Site	Peak' G	Duration at 150 g(ms)	Duration at 200 g(ms)	Assessment
	Flat	Crown	160.8	2.07	0.00	Pass
	riat	Clowii	191.4	3.13	0.00	F 455
Ambient (Clause 6.4.1 a) No.1	Flat	Left	170.5	3.35	0.00	Pass
			198.2	3.51	0.00	
	Hemi	Front	103.0	0.00	0.00	Pass
	nemi	Front	125.3	0.00	0.00]
	Hemi	Rear	91.8	0.00	0.00	Pass
			125.3	0.00	0.00	1
	Flat	Front	165.7	1.39	0.00	Pass
	1 160	l Tonk	194.3	2.67	0.00]
нот	TI-4	Rear	152.1	0.56	0.00	Pass
(Clause 6.4.1 b)	Flat	i toui	195.8	3.45	0.00]
	11	Crown	107.9	0.00	0.00	Pass
No.2	Hemi	Clowii	113.7	0.00	0.00	, Fa55
	Hemi	Left	116.6	0.00	0.00	Pass
	Hom	Lon	123.9	0.00	0.00	1 433
	Flat	0	176.4	1.22	0.00	Pass
	1 100	Crown	198.7	2.49	0.00	1 . 400
Cold		Left	188.5	2.85	0.00	Pass
(Clause 6.4.1 c)	Flat	Lon	207.5	3.47	1.52	1 455
	11		95.7	0.00	0.00	Pass
No.3	Hemi	Front	110.3	0.00	0.00	1 400
	Hemi	Rear	96.7	0.00	0.00	Pass
	Hom	rtour	153.5	0.67	0.00	1 400
	Flat	Front	165.7	1.53	0.00	Pass
	Tiut	110111	189.5	2.10	0.00	1
Wet	F1-4	Rear	144.3	0.00	0.00	Pass
vvet (Clause 6.4.1 d)	Flat Rea	T (Cui	156.4	1.42	0.00	1 433
No.4	11	Crown	94.3	0.00	0.00	Pass
	Hemi	O O O VIII	117.6	0.00	0.00	1 433
	Hemi	Left	104.0	0.00	0.00	Pass
	Helli	Leit	126.8	0.00	0.00	1 033

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. U. 188 Kezhu Road, Soientech Park Guangzhou Economic & Technology Development District, Guangzhou, Chira 510663 t (86-20) 82155555 f (86-20) 82075191 www.sgs.group.com.cn 中国・广州・经济技术开发区科学城科珠路198号 鄭編: 510663 t (86-20) 82155555 f (86-20) 82075191 e sgs.china@sgs.com



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Annex-2 Retention system strength test results:

Test Specification: FMVSS 218-7.3

Ambient temperature at time of test: 22 °C

Condition	Max. extension (mm)	Assessment
Ambient (Clause 6.4.1 d) No.1	20.8	Pass
Hot (Clause 6.4.1 d) No.2	23.1	Pass
Cold (Clause 6.4.1 d) No. 3	20.2	Pass
Wet (Clause 6.4.1 d) No.4	23.8	Pass

Annex-3 Vision test result:

Head form: _D_DOT

Positioning Index: 46 mm Peripheral vision: >105° Brow opening: 45 mm



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PHOTO APPENDIX





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Label FMVSS NO.218 Instruction User's manual Within the terms of the Limited Warranty, if the helmet is found to be defective in materials or workmanship within twelve months from the date of purchaser, the helmet will be repaired or replaced, at the option of HELMET.

This warranty is made each with the the option of HELMET. This warranty is made only with the original Purchaser of the helmet and does not extend to any third parties. The term of this warranty shall commence on the date of purchase and shall continue through a period of twelve months. In no event shall this warranty apply to any helmet replaced thereafter. In the event of a defect covered by this warranty, the purchaser should return the helmet to the establishment where the helmet was originally bacteriased Except as expressly provided by this warranty, HELMET shall not be responsible for any incident or consequential damages associated with a claim under this agreement, whether the claim is based on contract. WARNING: NEVER USE THIS, OR ANY OTHER HELMET, AFTER IT HAS BEEN SUBJECTED TO AN IMPACT OF ANY KIND. *************



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Instruction

Even under ideal conditions an accident carl happen, a minor impact at speeds less than 13 miles per hour can cause serious head injuries. Common sense dictates that you need protection. No helmet can protect the user against all impacts, but a quality motorcycle helmet properly fitted and fastened is the most effective protection you can get.

A helmet should be snug but not too tight, once it is seated on your head lightlen the chin strap, position it well back against your throat it should be light enough so that you cannot place your fignes between the strap and your throat, but breathing and swallowing

should not be impaired.

Once securely fastened, move the heimet side to side, then up and Down to insure that your skin movement is the same as that of the heimet, if it slip at all try a smaller size. Attempt to roll the heimet forward off your head by firmly pulling upward on the rear of the helmet. You should not be able to remove a correctly fitting heimet in

Always check the face shield screws on both sides of the helmet before nding, it can be very dangerous if these parts come loose during nding. If necessary tighten them. Never nide with the shield open. Do not use a timed face shield when dining at night or in other conditions of poor visibility. Always fasten your chin strap before heading out. REMEMBER: helmets reduce your ability to hear sounds, especially at high speeds. Sudden temperature variations or cause unexpected misting of your shield and loss of visibility. Be aware of how your perception of trail conditions is affected.

CARING FOR YOUR HELMET

Your helmet may be damaged and rendered ineffective by petroleum
and petrochemical products, cleaning agents, paints, adhesives
ect. without the damage being visible to the user Use only the '
following materials to clean your helmen: mids oap and water or a
solution of bicarbonate of soda for the Iner, and automotive wax or
polish for the cutes relial. After cleaning interior, rinse with a damo
coth and let dry at room temperature. High heat will damage the liner
as will strong solvents and gasoline products. It is a good dea to koop
your hement in a secure place when you are not using it. Visors should
not be excessively cold when they are being refitted otherwise they
may crack.

Never rids with the heimet hanging from the heimet holder. Don't sit on it or throw it around. Mistending your helmet like this will damage the shell and shock absorbing liner and reduce the helmet's ability to protect you in an accident.

Make no modification and never drill holes in the shell or cut the inner liner. This can seriously weaken the helmet.

HELMETS ARE DESIGNED TO ABSORB ONE IMPACT

A helmet only works once, after it has protected you from a major mpact, you must get a new one. An impact or fall could seriously impair he safety of your helmet even if there is no wisible damage. The shock absorber inside the helmet is made of polystyrene. During an impact or fall. This polystyrene shell is compressed leaving a gap between the inner and outer shell of the helmet. The helmet no longer has the ability to absorb further impacts. Never wear a helmet that has sustained an impact of any sort.

Front test line for C DOT head form





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End of Report