



Test Report No: 177:010968

Date: March 11, 2008

CLIENT: BANDIT Helmets GmbH
Roentgenstr, 14 A
10587 Berlin
Germany

Attention: DAVID KWON

The following sample was submitted by the Client as: Motorcycle Helmet

SAMPLE

DESCRIPTION: BANDIT XXR Size: Large

DATE OF RECEIPT: March 4, 2008

TESTING PERIOD: March 10, 2008

AUTHORIZATION: Order Number: 018153

TEST REQUESTED: The submitted sample was tested for conformance to the requirements of Federal Motor Vehicle Safety Standard No. 218, "Motorcycle Helmets" using TP-218-05, National Highway Traffic Safety Administration Laboratory Test Procedure.

TEST RESULTS: Continued on the following pages.

CONCLUSION: The submitted sample does meet the requirements of the above referenced specification.

PREPARED BY:

**SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.**

**Edwin Rivera, Technician
Materials Evaluation Lab**

**Dominick Lepore, Manager
Building Materials**

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CLIENT: BANDIT Helmets GmbH

HELMET BRAND NAME: BANDIT

HELMET MODEL DESIGNATION: XXR

HELMET MANUFACTURER: BANDIT GmbH

HELMET SIZE: Large

CORRESPONDING HEADFORM SIZE: DOT-C Medium

HELMET POSITIONING INDEX: 47 mm

HELMET COVERAGE: Partial

SHELL MATERIAL: Fiberglass

LINER MATERIAL: Expanded Poly-styrene (White)

BUCKLE DESCRIPTION: "U" Clip Buckle

HELMET	A Ambient	B Low Temperature	C High Temperature	D Immersed	E Spare
SHELL COLOR/PATTERN	Black	Black	Black	Black	
WEIGHT (grams)	1265	1248	1260	1292	
MONTH & YEAR OF MANUFACTURE	11/07	11/07	11/07	11/07	

Summary of Test Results: Indicate P-Pass F-Fail					
Helmet Test	A Ambient	B Low Temperature	C High Temperature	D Immersed	Notes
Impact	P	P	P	P	
Penetration	P	P	P	P	
Retention	P	P	P	P	
Peripheral Labeling	P	P	P	P	

Comment:



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IMPACT TEST (Para. S5.1 - Impact Attenuation)

Ambient Temperature (°C)
 21°C ± 6°C 40% to 60% Relative Humidity

Drop Assembly Weight: 5.0 kg

Anvil	Impact Velocity Drop Height	Peak Accel.	Milliseconds @	
			150 G's	200 G's
Hemisphere	5.2 m/s,+0 m/s, -0.4 m/s	400 G's	4 ms.	2 ms.
Flat	6.0 m/s,+0 m/s, -0.4 m/s	400 G's	4 ms.	2 ms.

Systems Check	Trial Drop	Drop Height	VEL. (m/s)	Peak "G"	Milliseconds @		Test Record
					150 "G"	200 "G"	
Pre-Test	1	138 cm	5.20	377	2.48	1.84	A
	2	138 cm	5.20	380	2.16	1.92	B
	3	138 cm	5.19	380	2.32	1.92	C
Pre-Test Average				379			
Post-Test	1	138 cm	5.20	388	2.24	1.84	D
	2	138 cm	5.20	400	2.24	1.84	E
	3	138 cm	5.20	376	2.24	1.84	F
Post-Test Average				388			
Difference Between Pre-Test and Post-Test:				9G's	(Difference not to exceed 40G's.)		

Comment:

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IMPACT TEST (Para. S5.1 - Impact Attenuation)

Helmet Condition	ANVIL	IMPACT LOCATION							
		FRONT		LEFT		RIGHT		REAR	
		HEMI		HEMI		FLAT		FLAT	
Ambient	Impact No.	1	2	1	2	1	2	1	2
	Test Record No.	1	2	9	10	17	18	25	26
	Peak "G"	114	147	103	101	157	189	164	150
	ms @ 150 "G"	--	--	--	--	0.6	1.2	0.6	--
	ms @ 200 "G"	--	--	--	--	--	--	--	--
	Velocity m/sec.	5.19	5.17	5.18	5.19	5.95	5.95	5.92	5.91
Low	Test Record No.	3	4	11	12	19	20	27	28
	Peak "G"	100	146	114	120	176	166	166	178
	ms @ 150 "G"	--	--	--	1.2	1.4	1.4	0.5	0.9
	ms @ 200 "G"	--	--	--	--	--	--	--	--
	Velocity m/sec.	5.18	5.19	5.18	5.18	5.95	5.95	5.91	5.91
High	Test Record No.	5	6	13	14	21	22	29	30
	Peak "G"	106	169	129	105	160	183	160	184
	ms @ 150 "G"	--	0.9	--	--	0.5	1.8	0.5	2.0
	ms @ 200 "G"	--	--	--	--	--	--	--	--
	Velocity m/sec.	5.20	5.19	5.18	5.18	5.95	5.96	5.92	5.91
Wet	Test Record No.	7	8	15	16	23	24	31	32
	Peak "G"	96	144	101	119	172	176	157	152
	ms @ 150 "G"	--	--	--	--	1.5	1.5	.08	--
	ms @ 200 "G"	--	--	--	--	--	--	--	--
	Velocity m/sec.	5.19	5.18	5.19	5.19	5.95	5.96	5.91	5.92

Comment:



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PENETRATION

Paragraph S5.2 and S7.2

WEIGHT OF STRIKER: 3 kg

POINT OF STRIKER: Radius = 0.5 mm, included angle of 60° + 1.0°, - 0.0, hardness minimum of 60 Rockwell "C" Scale and a cone height of not less than 3.81 cm

HEIGHT OF FALL: 300 cm, + 0.0 cm, -3.05 cm measured from the tip of the striker point to the outer surface of the mounted protective headgear.

FAILURE CRITERION: When tested, the striker shall not contact the surface of the test headform.

<u>TEST</u>	<u>HELMET</u>	<u>PASS</u>	<u>FAIL</u>	<u>CONDITIONS</u>
1	A	P		Ambient
2	A	P		Ambient
3	B	P		Low Temperature
4	B	P		Low Temperature
5	C	P		High Temperature
6	C	P		High Temperature
7	D	P		Water Immersed
8	D	P		Water Immersed

Comment:



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Paragraph S5.3 and S7.3

AMBIENT TEMPERATURE: 21°C ± 6°C

AMBIENT HUMIDITY: 50 %

REQUIREMENTS:

<u>READING</u>	<u>APPLIED LOAD</u>
INITIAL	22.7 kg, + 4.5 kg, - 0 kg
FINAL	136 kg, + 0 kg, - 4.5 kg

ELONGATION NOT TO EXCEED 25.4 mm AFTER LOAD INCREASE

<u>HELMET</u>	<u>CONDITIONS</u>	<u>Elongation mm</u>
A	Ambient	13.589
B	Low Temperature	13.111
C	High Temperature	13.997
D	Water Immersed	12.958

COMMENTS:

PERIPHERAL VISION - Paragraph S5.4 - Helmet shall provide a minimum peripheral vision of 105° to each side of the midsagittal plane. The brow opening shall be at least 2.54 cm above all points in the basic plane that are within the angles of peripheral vision.

	<u>REQUIREMENTS</u>	<u>TEST RESULTS</u>
DEGREE EACH SIDE M.S. PLANE	>105°	Pass
BROW OPENING	>2.54 cm	Pass



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Paragraph S5.6

S5.6 Labeling - Each helmet shall be permanently and legibly labeled, in a manner such that the label(s) can be easily read without removing padding or any other permanent part, with the following:

Required Information	Pass	Fail
Manufacturer's name or identification	X	
Precise model designation	X	
Size	X	
Month and year of manufacture	X	
The symbol DOT... on the outer surface, in a color that contrasts with the background, in letters at least 1 cm high, centered laterally with the horizontal centerline of the symbol located a minimum of 2.9 cm and a maximum of 3.5 cm from the bottom edge of the posterior portion of the helmet	X	
Instructions to the purchaser as follows:	-----	-----
"Shell and liner constructed of (identify type(s) of materials)."	X	
"Helmet can be seriously damaged by some common substances without damage being visible to the user."	X	
"Apply only the following: (Recommended cleaning agents, paints, adhesives, etc., as appropriate.)"	X	
"Make no modifications."	X	
"Fasten helmet securely."	X	
"If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it."	X	

Comment;

End of Report