

RESEARCH TESTING FM.V.S.S. 218 (DSHC1)	
Report	Code: GPX 4.5 FMVSS218 170427 Date: 27/04/2017
Manufacturer	Name: Leatt® Corporation Address: No. 50 Kiepersol Crescent- Atlas Gardens Atlas Gardens Cape Town Republic of South Africa
Representative	It does not apply
Sample	Helmet model: GPX 4.5 L Approval n°: N/AP Stickers from n°: N/AP to n°: N/AP Batch n°: N/AP Arrival date: 21/04/2017 Testing date: 26/04/2017

IMPACT ATTENUATION - SYSTEMS CHECK

SYSTEMS CHECK	TRIAL DROP	DROP HEIGHT (cm)	VEL. (m/s)	PEAK g	DWELL TIME (ms)		TEST RECORD	GROUP NO.
					150g	200g		
PRETEST	1	129	4.47	351	1.95	1.52	M	1
	2	132	4.54	344	1.90	1.52	M	1
	3	129	4.48	331	1.92	1.48	M	1
PRETEST AVERAGE		xxxxxxxx	xxxxxxxx	342	xxxxx	xxxxx	xxxxxx	xxxxxx
POST TEST	1	121	4.45	352	1.02	1.46	M	1
	2	132	4.42	350	1.92	1.52	M	1
	3	129	4.53	340	1.87	1.50	M	1
POSTTEST AVERAGE		xxxxxxxx	xxxxxxxx	347	xxxxx	xxxxx	xxxxxx	xxxxxx
DIFFERENCE BETWEEN PRETEST AND POSTTEST AVERAGES				5	DIFFERENCE NOT TO EXCEED 15g			

TEST PERFORMANCE ACCORDING TO TP-218-07 May 13, 2011

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-0767			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
L	Medium	Hot	Front	1	Hemi	5.01	76	-	-
				2	Hemi	5.00	104	-	-
			Side L	1	Hemi	5.01	82	-	-
				2	Hemi	5.00	93	-	-
			Side R	1	Flat	6.02	136	-	-
				2	Flat	6.11	136	-	-
			Rear	1	Flat	5.97	149	-	-
				2	Flat	5.97	135	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-0767			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	M	Hot	3	Rear L	5	PASS
				Rear R	6	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0767			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	L	M	DD ring	5	12	7

HPI L 51 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1			
Helmet Internal Id: 17-0768			Helmet Client Id: GPX 4.5							
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]	
L	Medium	Cold	Front	1	Flat	5.82	113	-	-	
				2	Flat	5.80	186	1.76	-	
			Side R	1	Flat	6.02	128	-	-	
				2	Flat	6.08	148	-	-	
			Side L	1	Hemi	5.21	80	-	-	
				2	Hemi	5.23	99	-	-	
Rear	1	Hemi	5.11	90	-	-				
	2	Hemi	5.21	133	-	-				

SHELL PENETRATION TEST						Ref. S5.2; S7.2	
Helmet Internal Id: 17-0768			Helmet Client Id: GPX 4.5				
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]	
	M	Cold	3	Rear L	12	PASS	
				Rear R	6	PASS	

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0768			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	L	M	DD ring	5	12	7

HPI L 51 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-0769			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
L	Medium	Amb	Front	1	Hemi	5.02	106	-	-
				2	Hemi	5.01	107	-	-
			Side R	1	Hemi	5.02	82	-	-
				2	Hemi	5.01	98	-	-
			Side L	1	Flat	6.02	120	-	-
				2	Flat	6.10	133	-	-
Rear	1	Flat	5.98	125	-	-			
	2	Flat	5.97	123	-	-			

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-0769			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	M	Amb	3	Side L	8	PASS
				Side R	6	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0769			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	L	M	DD ring	6	14	8

HPI L 51 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1			
Helmet Internal Id: 17-0770			Helmet Client Id: GPX 4.5							
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]	
L	Medium	Wet	Front	1	Flat	5.80	115	-	-	
				2	Flat	5.82	168	1.36	-	
			Side R	1	Flat	6.02	137	-	-	
				2	Flat	6.10	149	-	-	
			Side L	1	Hemi	5.22	82	-	-	
				2	Hemi	5.23	85	-	-	
Rear	1	Hemi	5.11	95	-	-				
	2	Hemi	5.21	129	-	-				

SHELL PENETRATION TEST						Ref. S5.2; S7.2	
Helmet Internal Id: 17-0770			Helmet Client Id: GPX 4.5				
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]	
	M	Wet	3	Front L	5	PASS	
				Top	6	PASS	



STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0770			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	L	M	DD ring	5	12	7



HPI L 51 mm


LABELLING & MARKING


Required information	Pass/Fail
Manufacturer's name	Pass
Discrete size	Pass
Month and year of manufacture	Fail
Instructions for the purchaser as follows:	-----
"Shell and liner constructed of (identify type(s) of materials"	Pass
"Helmet can be seriously damaged by some common substances without Damage being visible to the user"	Pass
"Apply only the following: (recommended cleaning agents, paints, adhesives, etc, as appropriate"	Pass
"Make no modifications"	Pass
"Fasten helmet securely"	Pass
"If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it"	Pass
Required Certification Information	Pass/Fail
The symbol "DOT" horizontally centered on the label, in letters at least 0.38 inch (1.0cm) high	Pass
The term "FMVSS No 218" horizontally centered beneath the symbol DOT, in letters at least 0.09 inch (0,23cm) high.	Pass
The word "CERTIFIED" horizontally centered beneath the term "FMVSS No 218", in letters at least 0.09 inch (0.23 cm) high.	Pass
The precise model designation, horizontally centered above the symbol "DOT" in letters and/or numerals at least 0.09 inch (0.23 cm) high.	Pass
The manufacturer's name and/or brand, horizontally centered above the model designation, in letters and/or numerals at least 0.09 inch (0,23 cm) high	Pass
All symbols, letters and numerals are in a color that contrasts with the background of the label	Pass
No information, other than the certification information listed above, appears on the certification label.	Pass
The label appears on the outer surface of the helmet and is placed so that it is centered laterally with the horizontal centreline 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

Shell Penetration Tests: Striking position




			
Rear Right	Rear Left	Penetration L HOT	

			
Rear Left	Rear Right	Penetration L COLD	

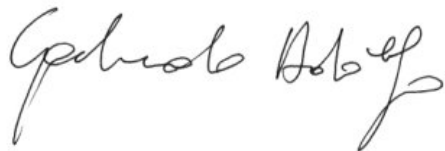
			
Side Right/Side Left	Penetration L AMB		

			
Front Left/Top	Penetration L WET		

Test Area/Labelling and Marking Images

			
Labelling and Marking			

Laboratory Technician
 (Adolfo Garlando)



Laboratory Manager
 (Juan Pablo Cuesta)



RESEARCH TESTING FM.V.S.S. 218 (DSHC1)	
Report	Code: GPX 4.5 FMVSS218 170712 Date: 12/07/2017
Manufacturer	Name: Leatt® Corporation Address: No. 50 Kiepersol Crescent- Atlas Gardens Atlas Gardens Cape Town Republic of South Africa
Representative	It does not apply
Sample	Helmet model: GPX 4.5 S Approval n°: N/AP Stickers from n°: N/AP to n°: N/AP Batch n°: N/AP Arrival date: 07/07/2017 Testing date: 12/07/2017

IMPACT ATTENUATION – SYSTEMS CHECK

SYSTEMS CHECK	TRIAL DROP	DROP HEIGHT (cm)	VEL. (m/s)	PEAK g	DWELL TIME (ms)		TEST RECORD	GROUP NO.
					150g	200g		
PRETEST	1	129	4.44	360	1.92	1.40	M	1
	2	130	4.27	361	180	1.32	M	1
	3	121	4.48	368	1.92	1.38	M	1
PRETEST AVERAGE		xxxxxxxx	xxxxxxxx	363	xxxxx	xxxxx	xxxxxx	xxxxx
POST TEST	1	122	4.47	352	1.21	1.36	M	1
	2	132	4.44	359	1.92	1.50	M	1
	3	129	4.53	363	1.80	1.50	M	1
POSTTEST AVERAGE		xxxxxxxx	xxxxxxxx	358	xxxxx	xxxxx	xxxxxx	xxxxx
DIFFERENCE BETWEEN PRETEST AND POSTTEST AVERAGES				6	DIFFERENCE NOT TO EXCEED 15g			

TEST PERFORMANCE ACCORDING TO TP-218-07 May 13, 2011

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-1366			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
S	Medium	Hot	Front	1	Flat	5.82	141	-	-
				2	Flat	5.80	171	1.02	-
			Side L	1	Flat	6.02	121	-	-
				2	Flat	6.08	136	-	-
			Side R	1	Hemi	5.20	66	-	-
				2	Hemi	5.20	80	-	-
			Rear	1	Hemi	5.20	81	-	-
				2	Hemi	5.21	97	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-1366			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	S	Hot	3	Top	8	PASS
				Rear R	7	PASS
				Rear L	6	

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-1366			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	S	M	DD ring	5	17	12

HPI M 49 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-1367			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
S	Medium	Cold	Front	1	Hemi	5.21	75	-	-
				2	Hemi	5.20	95	-	-
			Side R	1	Hemi	5.10	76	-	-
				2	Hemi	5.10	85	-	-
			Side L	1	Flat	6.00	132	-	-
				2	Flat	6.12	143	-	-
			Rear	1	Flat	6.02	119	-	-
				2	Flat	5.98	160	0.82	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-1367			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	S	Cold	3	Rear L	4	PASS
				Top	4	PASS
				Rear R	6	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-1367			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	S	M	DD ring	6	12	6

HPI M 49 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-1368			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
S	Medium	Amb	Front	1	Flat	5.89	122	-	-
				2	Flat	5.81	164	1.00	-
			Side R	1	Flat	6.02	109	-	-
				2	Flat	6.00	141	-	-
			Side L	1	Hemi	5.22	67	-	-
				2	Hemi	5.20	74	-	-
			Rear	1	Hemi	5.20	103	-	-
				2	Hemi	5.21	135	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-1368			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	S	Amb	3	Rear L	12	PASS
				Rear R	6	PASS
				Top	8	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-1368			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	S	M	DD ring	6	11	5

HPI M 49 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-1369			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
S	Medium	Wet	Front	1	Hemi	5.22	79	-	-
				2	Hemi	5.21	217	1.16	0.58
			Side R	1	Hemi	5.10	73	-	-
				2	Hemi	5.10	73	-	-
			Side L	1	Flat	6.01	127	-	-
				2	Flat	6.10	145	-	-
Rear	1	Flat	6.00	134	-	-			
	2	Flat	5.98	162	0.80	-			

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-1369			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	S	Wet	3	Rear R	6	PASS
				Rear L	6	PASS
				Top	6	PASS

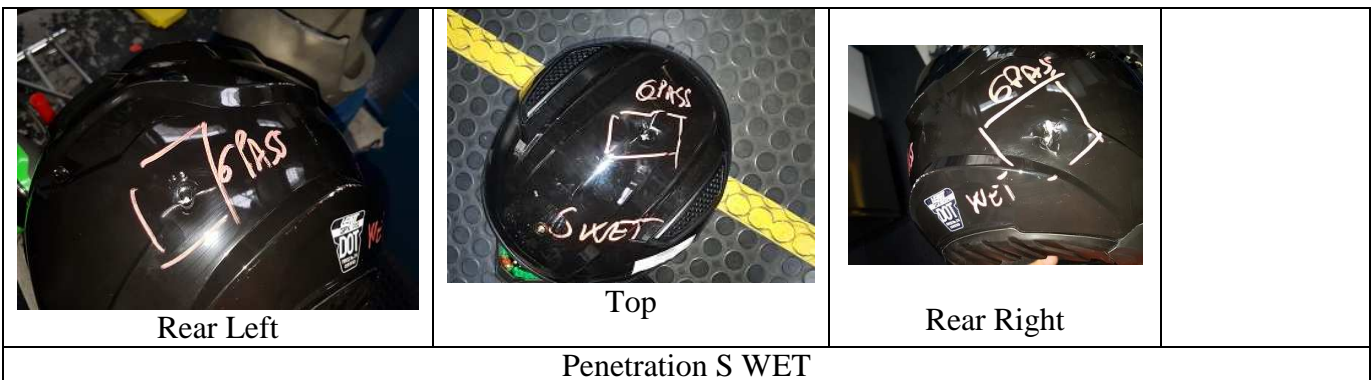
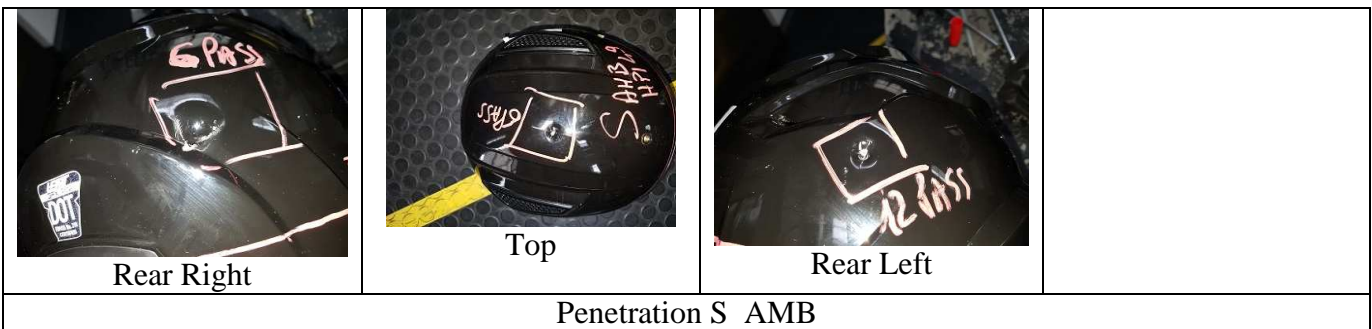
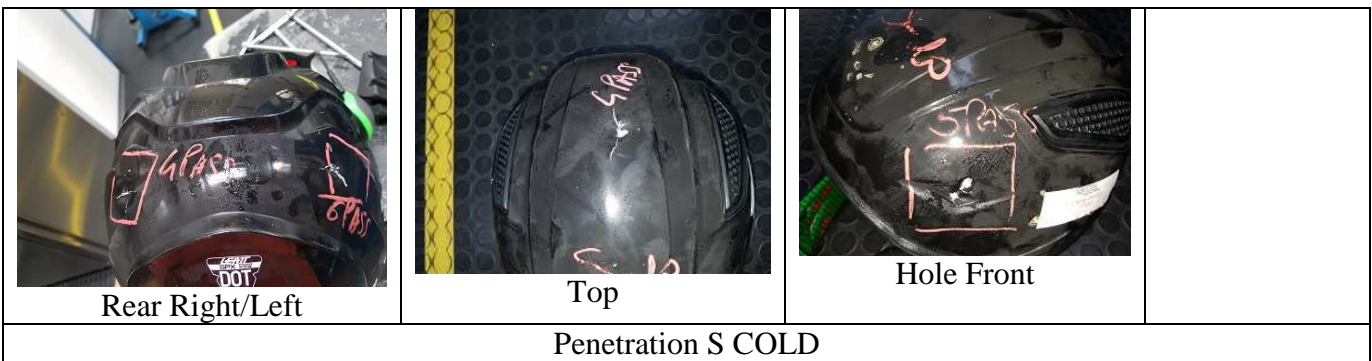
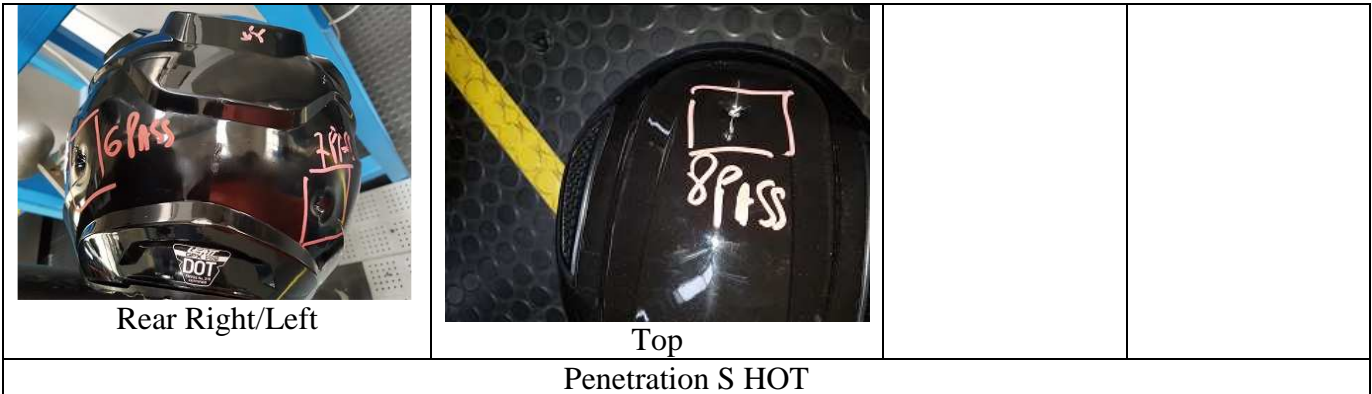
STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-1369			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	S	M	DD ring	6	13	7

HPI M 49 mm

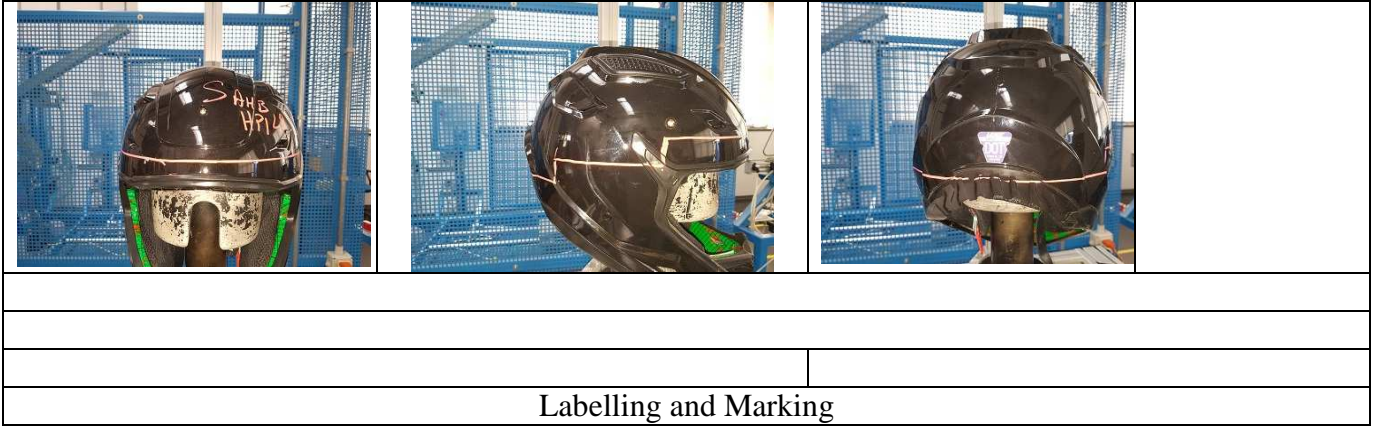
LABELLING & MARKING

Required information	Pass/Fail
Manufacturer's name	Pass
Discrete size	Pass
Month and year of manufacture	Fail
Instructions for the purchaser as follows:	-----
"Shell and liner constructed of (identify type(s) of materials"	Pass
"Helmet can be seriously damaged by some common substances without Damage being visible to the user"	Pass
"Apply only the following: (recommended cleaning agents, paints, adhesives, etc, as appropriate"	Pass
"Make no modifications"	Pass
"Fasten helmet securely"	Pass
"If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it"	Pass
Required Certification Information	Pass/Fail
The symbol "DOT" horizontally centered on the label, in letters at least 0.38 inch (1.0cm) high	Pass
The term "FMVSS No 218" horizontally centered beneath the symbol DOT, in letters at least 0.09 inch (0,23cm) high.	Pass
The word "CERTIFIED" horizontally centered beneath the term "FMVSS No 218", in letters at least 0.09 inch (0.23 cm) high.	Pass
The precise model designation, horizontally centered above the symbol "DOT" in letters and/or numerals at least 0.09 inch (0.23 cm) high.	Pass
The manufacturer's name and/or brand, horizontally centered above the model designation, in letters and/or numerals at least 0.09 inch (0,23 cm) high	Pass
All symbols, letters and numerals are in a color that contrasts with the background of the label	Pass
No information, other than the certification information listed above, appears on the certification label.	Pass
The label appears on the outer surface of the helmet and is placed so that it is centered laterally with the horizontal centreline 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

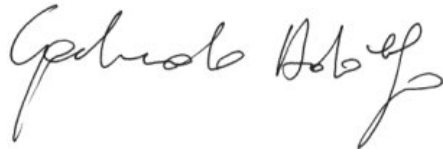
Shell Penetration Tests: Striking position



Area/Labelling and Marking Images



**Laboratory Technician
(Adolfo Garlando)**



**Laboratory Manager
(Juan Pablo Cuesta)**



RESEARCH TESTING FM.V.S.S. 218 (DSHC1)	
Report	Code: GPX 4.5 FMVSS218 170427 Date: 27/04/2017
Manufacturer	Name: Leatt® Corporation Address: No. 50 Kiepersol Crescent- Atlas Gardens Atlas Gardens Cape Town Republic of South Africa
Representative	It does not apply
Sample	Helmet model: GPX 4.5 XXL Approval n°: N/AP Stickers from n°: N/AP to n°: N/AP Batch n°: N/AP Arrival date: 21/04/2017 Testing date: 26/04/2017

IMPACT ATTENUATION – SYSTEMS CHECK

SYSTEMS CHECK	TRIAL DROP	DROP HEIGHT (cm)	VEL. (m/s)	PEAK g	DWELL TIME (ms)		TEST RECORD	GROUP NO.
					150g	200g		
PRETEST	1	128	4.48	350	1.98	1.50	L	1
	2	131	4.54	344	1.90	1.54	L	1
	3	129	4.48	329	1.92	1.48	L	1
PRETEST AVERAGE		xxxxxxx	xxxxxxx	341	xxxxx	xxxxx	xxxxxx	xxxxxx
POST TEST	1	124	4.45	348	1.00	1.46	L	1
	2	122	4.42	352	1.90	1.46	L	1
	3	129	4.53	342	1.86	1.52	L	1
POSTTEST AVERAGE		xxxxxxx	xxxxxxx	347	xxxxx	xxxxx	xxxxxxx	xxxxxx
DIFFERENCE BETWEEN PRETEST AND POSTTEST AVERAGES				6	DIFFERENCE NOT TO EXCEED 15g			

TEST PERFORMANCE ACCORDING TO TP-218-07 May 13, 2011

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-0763			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
XXL	Large	Hot	Front	1	Flat	5.87	126	-	-
				2	Flat	5.8	136	-	-
			Side L	1	Flat	6.06	134	-	-
				2	Flat	6.18	151	0.10	-
			Side R	1	Hemi	5.20	75	-	-
				2	Hemi	5.03	89	-	-
			Rear	1	Hemi	5.19	101	-	-
				2	Hemi	5.21	112	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-0763			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	XXL	Hot	3	Top	8	PASS
				Side L	8	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0763			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	XXL	L	DD ring	6	15	9

HPI L 54 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-0764			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
XXL	Large	Cold	Front	1	Hemi	5.02	116	-	-
				2	Hemi	5.02	61	-	-
			Side R	1	Hemi	5.02	107	-	-
				2	Hemi	5.00	81	-	-
			Side L	1	Flat	6.01	185	1.54	-
				2	Flat	6.10	135	-	-
			Rear	1	Flat	5.95	154	0.18	-
				2	Flat	5.97	136	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-0764			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	XXL	Cold	3	Top	8	PASS
				Side R	10	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0764			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	XXL	L	DD ring	5	12	7

HPI L 54 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-0765			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
XXL	Large	Amb	Front	1	Flat	5.87	150	0.08	-
				2	Flat	5.82	165	2.34	-
			Side R	1	Flat	6.02	196	3.40	-
				2	Flat	6.08	189	3.40	-
			Side L	1	Hemi	5.20	60	-	-
				2	Hemi	5.23	118	-	-
			Rear	1	Hemi	5.19	122	-	-
				2	Hemi	5.21	102	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-0765			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	XXL	Amb	3	Rear L	6	PASS
				Rear R	6	PASS

STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0765			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	XXL	L	DD ring	6	13	7

HPI L 54 mm

IMPACT ATTENUATION TEST							Ref. S5.1; S7.1		
Helmet Internal Id: 17-0766			Helmet Client Id: GPX 4.5						
Helmet Size	Headform Size	Condit. [°C]	Impact point	Impact n°	Anvil	Speed [m/s]	Decel. ≤ 400 [g]	Time _{150g} ≤ 4 [ms]	Time _{200g} ≤ 2 [ms]
XXL	Large	Wet	Front	1	Hemi	5.04	72	-	-
				2	Hemi	5.01	91	-	-
			Side R	1	Hemi	5.02	74	-	-
				2	Hemi	5.02	112	-	-
			Side L	1	Flat	6.02	148	-	-
				2	Flat	6.10	162	0.76	-
			Rear	1	Flat	5.95	139	-	-
				2	Flat	5.97	110	-	-

SHELL PENETRATION TEST						Ref. S5.2; S7.2
Helmet Internal Id: 17-0766			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	Condit. [°C]	Drop Height [m]	Impact point	Contact distance [mm]	Result [Pass/Fail]
	XXL	Wet	3	Top Hole R	16	PASS
				Side L	10	PASS


STATIC TEST OF RETENTION SYSTEM					Ref. S5.3; S7.3	
Helmet Internal Id: 17-0766			Helmet Client Id: GPX 4.5			
Sticker n°	Helmet Size	H.F. Size	Chin strap	Helmet Apex [mm]	Extension test device [mm]	Final 25[mm]
	XXL	L	DD ring	2	10	8


HPI L 54 mm



LABELLING & MARKING

Required information	Pass/Fail
Manufacturer's name	Pass
Discrete size	Pass
Month and year of manufacture	Fail
Instructions for the purchaser as follows:	-----
"Shell and liner constructed of (identify type(s) of materials"	Pass
"Helmet can be seriously damaged by some common substances without Damage being visible to the user"	Pass
"Apply only the following: (recommended cleaning agents, paints, adhesives, etc, as appropriate"	Pass
"Make no modifications"	Pass
"Fasten helmet securely"	Pass
"If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it"	Pass
Required Certification Information	Pass/Fail
The symbol "DOT" horizontally centered on the label, in letters at least 0.38 inch (1.0cm) high	Pass
The term "FMVSS No 218" horizontally centered beneath the symbol DOT, in letters at least 0.09 inch (0,23cm) high.	Pass
The word "CERTIFIED" horizontally centered beneath the term "FMVSS No 218", in letters at least 0.09 inch (0.23 cm) high.	Pass
The precise model designation, horizontally centered above the symbol "DOT" in letters and/or numerals at least 0.09 inch (0.23 cm) high.	Pass
The manufacturer's name and/or brand, horizontally centered above the model designation, in letters and/or numerals at least 0.09 inch (0,23 cm) high	Pass
All symbols, letters and numerals are in a color that contrasts with the background of the label	Pass
No information, other than the certification information listed above, appears on the certification label.	Pass
The label appears on the outer surface of the helmet and is placed so that it is centered laterally with the horizontal centreline 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

Shell Penetration Tests: Striking position




			
<p>Top/Side L</p> <p style="text-align: center;">Penetration XXL HOT</p>			

			
<p>Top /Side R</p> <p style="text-align: center;">Penetration XXL COLD</p>			

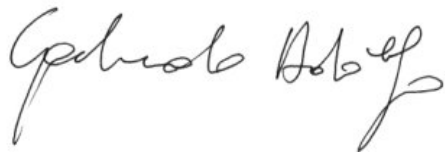
			
<p>Rear Right Rear Left</p> <p style="text-align: center;">Penetration XXL AMB</p>			

			
<p>Top Hole Right Side Left</p> <p style="text-align: center;">Penetration XXL WET</p>			

Test Area/Labelling and Marking Images

			
Labelling and Marking			

Laboratory Technician
(Adolfo Garlando)



Laboratory Manager
(Juan Pablo Cuesta)

