NATIONAL TECHNICAL SYSTEMS **HELMET COMPRESSION TEST: TOP / BOTTOM COMPRESSION**

Date Received: 10/15/18 USPS Via: Returned Via: UPS

Sample Information

Manufacturer:	Hard Head Veterans
Model:	ATE
Color / Size:	Camo / L / XL
Sample No.:	5
Weight (lbs.):	2.84
Style:	High Cut
DoM:	N/A
Conditioning:	Ambient

Test Standard AR/PD 10-02 Rev A With Change 6 16 December 2013

Record No: HHV18001-6 Test Date: 10/17/18 Customer: Hard Head Veterans

Test Conditions

Temperature:	73 °	F
Humidity:	39 %	6

Machine

Lloyd Instruments LR10K Plus NEXYGEN Plus 3 Software Rate: 2 in./m 400 lbs. Max Load: Min Load: 5 lbs. 25 Cycles

RESULTS						
Test Description		Measur	ements		<u>Avg.</u>	Pass / Fail
Maximum Pre-Test Width (in.) (Outside Helmet):	<u>#1</u> 6.602	<u>#2</u> 6.601	<u>#3</u> 6.591	<u>#4</u> 6.591	6.597	
<i>Test Date:</i> 10/17/18 <i>Test Time:</i> 7:34 Maximum Load on Helmet (Ibs.):		407	.25			
<u>After 5 min.:</u> <i>Test Date: 10/17/18</i> <i>Test Time: 7:39</i> Maximum Post-Test Width (in.) (Outside Helmet): Difference:	6.543	6.626	6.558	6.608	6.584 0.013	PASS
After 24 hrs.: Test Date: N/A Test Time: N/A Maximum Post-Test Width (in.) (Outside Helmet): Difference:	N/A	N/A	N/A	N/A	#DIV/0! #DIV/0!	N/A
This test was performed in accordance with the specification requirements and the results properly	,	7447 W. 3	33rd St. N		Fa	
reflect the performance of the listed sample.		Wichita, k	5 67205	USA	Ema	ail: ustl@nts.com

REMARKS/NOTES:

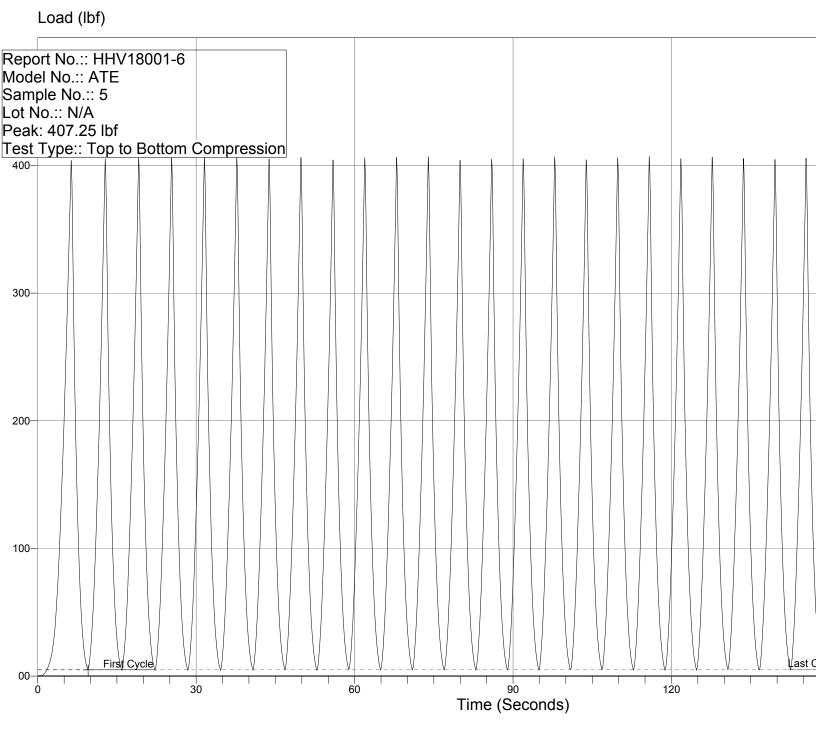
•Sample must meet a 0.020" or less dimensional change within 5 min.

•Sample was marked and tested at the apex of the crown.

•Helmet tested with pads, suspension / retention system and chinstrap

Side rails were removed prior to testing.
Customer waived 24hr measurement requirements with previous testing.

Zerger



NATIONAL TECHNICAL SYSTEMS HELMET COMPRESSION TEST: SIDE TO SIDE COMPRESSION

Date Received: 10/15/18 Via: USPS Returned Via: UPS

Sample Information

Manufacturer:	Hard Head Veterans
Model:	ATE
Color / Size:	Camo / L / XL
Sample No.:	5
Weight (lbs.):	2.84
Style:	High Cut
DoM:	N/Ā
Conditioning:	Ambient

Test Standard AR/PD 10-02 Rev A With Change 6 16 December 2013 Record No:HHV18001-7Test Date:10/17/18Customer:Hard Head Veterans

Test Conditions

Temperature:	73 °F
Humidity:	39 %

Machine

Lloyd Instruments LR10K Plus NEXYGEN Plus 3 Software Rate: 2 in./m Max Load: 300 lbs. Min Load: 5 lbs. Cycles 25

RESULTS						
Test Description		Measu	rements		<u>Avg.</u>	Pass / Fail
Maximum Pre-Test Width (in.) (Outside Helmet):	<u>#1</u> 8.449	<u>#2</u> 8.464	<u>#3</u> 8.491	<u>#4</u> 8.461	8.455	
<i>Test Date: 10/17/18 Test Time: 8:25</i> Maximum Load on Helmet (lbs.):		30	1.27			
After 5 min.: Test Date: 10/17/18 Test Time: 8:30 Maximum Post-Test Width (in.) (Outside Helmet): Difference:	8.403	8.421	8.407	8.415	8.412 <u>0.043</u>	PASS
After 24 hrs.: Test Date: N/A Test Time: N/A Maximum Post-Test Width (in.) (Outside Helmet Difference:	N/A	N/A	N/A	N/A	#DIV/0! #DIV/0!	N/A
This test was performed in accordance with the specification requirements and the results proper	lv.		Technical 33rd St. N.	Systems, In	c. Ph Fa	one: 316-832-1600 x: 316-832-1602
reflect the performance of the listed sample.	iy		SSIG St. N. KS 67205		Ema	

REMARKS/NOTES:

•Sample must meet a 0.200" or less dimensional change within 5 min.

•Sample was marked and tested at the apex of the ear flap.

•Helmet tested with pads, suspension / retention system and chinstrap

•Side rails were removed prior to testing.

• Customer waived 24hr measurement requirements with previous testing.

Zerger

