

# NATIONAL INSTITUTE OF JUSTICE HARD ARMOR COMPLIANCE TEST REPORT



Report Identification Number: OBL\_CTR\_TA\_MC03543  
Issue/Revision Number: Initial Issue  
Report Date: 5/3/2022

200826-0

NVLAP Lab Code

Test Laboratory Name: Oregon Ballistic Laboratories

Address: 2873 22nd Street SE  
Salem, OR 97302

Customer: Tacticon Armament

Address: 11315 Sucrise Gold Cir. Ste F  
Rancho Cordove, CA 95742

Conditioning Laboratory Name: Oregon Ballistic Laboratories

Address: 2873 22nd Street SE  
Salem, OR 97302

Prospective Model Designation: TA600STL

This test report and the results herein are to be used solely for the purpose of determining compliance to the NIJ 0101.06 Body Armor Standard. The test data should not be used to compare the relative performance characteristics between different models of body armor.

Reproduction of this test report is prohibited except in full.

This test report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.

Test results relate only to the items tested.

Authorized Signatory: Darius Nuttbrock

Function/Position: Ballistic Test Director

Signature:

Date:

5/3/2022

NATIONAL INSTITUTE OF JUSTICE  
HARD ARMOR COMPLIANCE TEST REPORT

NVLAP Lab Code: <u>200826-0</u>	Test Laboratory Name: <u>Oregon Ballistic Laboratories</u> Report Identification Number: <u>OBL_CTR_TA_MC03543</u> Issue / Revision Number: <u>Initial Issue</u>						
<b>COMPLIANCE TESTING INFORMATION</b>							
Test Start Date: <u>04/26/22</u> End Date: <u>04/26/22</u>	Report Date: <u>05/03/22</u>						
<b>RANGE INFORMATION:</b>							
Range Length: <u>50</u> ft Velocity 1: <u>5</u> ft. <u>1.524</u> m Velocity 2: <u>4</u> ft. <u>1.2192</u> m	Velocity Measurement Units: <u>time</u> Chronographs will report the time of flight. Data should be entered in $\mu$ s ( $10^{-6}$ s).						
<b>ARMOR DESCRIPTION:</b>							
Manufacturer: Date Rec'd: <u>08/05/20</u>	Test ID: <u>MC03543</u> Style: <u>Single Curve</u> NIJ Armor Type: <u>3</u>						
<b>SHOT-TO-EDGE REQUIREMENTS:</b>							
Threat 1: <u>2</u> Inches Threat 2: _____ Inches	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Labels legible and adhered after wear tests?: <u>Yes</u></td> <td style="padding: 2px; text-align: right;">(Yes/No)</td> </tr> <tr> <td style="padding: 2px;">Labels legible and adhered after conditioning protocol?: <u>Yes</u></td> <td style="padding: 2px; text-align: right;">(Yes/No)</td> </tr> <tr> <td colspan="2" style="padding: 2px; text-align: center;"><b>Labels meet the requirements of 4.1.5.3</b></td> </tr> </table>	Labels legible and adhered after wear tests?: <u>Yes</u>	(Yes/No)	Labels legible and adhered after conditioning protocol?: <u>Yes</u>	(Yes/No)	<b>Labels meet the requirements of 4.1.5.3</b>	
Labels legible and adhered after wear tests?: <u>Yes</u>	(Yes/No)						
Labels legible and adhered after conditioning protocol?: <u>Yes</u>	(Yes/No)						
<b>Labels meet the requirements of 4.1.5.3</b>							
<b>ARMOR CONSTRUCTION:</b>							
Armor Test Configuration: <u>Non-Planar</u>							
Individual Layer Description:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;"> <b>Plate</b>            Number of Layers: <input style="width: 40px;" type="text"/> </td> <td style="width: 50%; text-align: center; padding: 5px;"> <b>In Conjunction With Panel (if applicable)</b>            Front Closure (Y/N): <input style="width: 40px;" type="text"/>            Number of Layers: <input style="width: 40px;" type="text"/> </td> </tr> <tr style="height: 150px;"> <td style="background-color: yellow;"></td> <td style="background-color: yellow;"></td> </tr> </table>	<b>Plate</b> Number of Layers: <input style="width: 40px;" type="text"/>	<b>In Conjunction With Panel (if applicable)</b> Front Closure (Y/N): <input style="width: 40px;" type="text"/> Number of Layers: <input style="width: 40px;" type="text"/>				
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Description of Stitching:							
Remarks and Revision History:							
Compliance Test Report revision NIJ0101.06 - CTR Hard Armor 01-14 (2012-05-22) / MS Excel version 16.0 / Operating System version Windows (64-bit) NT 10.00							

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**Use this space to enter any necessary supplemental information**

Samples sent to NIJ:

Tested: Sample No. 1 S/N: 0005

Un-Tested: Sample No. 9 S/N: 0003

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Test ID: <u>MC03543</u>	Report Identification Number: <u>OBL_CTR_TA_MC03543</u>
Manufacturer: _____	Issue / Revision Number: <u>Initial Issue</u>

**Penetration and BFS Summary Data**

**Test ID:** MC03543  
**Manufacturer:** \_\_\_\_\_  
**Ammunition:** 7.62mm 147/FMJ

**Report Date:** 05/03/22

<b>Test Velocity:</b>	847.3	±9.1 m/s
	(2780)	±30 ft/s

Sample Information										
Sample Number	Soft Armor Panel		Hard Armor Plate		Gross Weight (lbs)	Shot Number	Avg. Vel. (ft/s)	Perf (Y=1/N=0)	BFS (mm)	Note
	Lot Number	Serial Number	Lot Number	Serial Number						
1			0001	0005	6.91	1	2811	0	31.15	
1			0001	0005	6.91	2	2794	0	36.12	
1			0001	0005	6.91	3	2793	0		
1			0001	0005	6.91	4	2783	0		
1			0001	0005	6.91	5	2788	0		
1			0001	0005	6.91	6	2796	0		
2			0001	0009	7	7	2803	0	25.29	
2			0001	0009	7	8	2797	0	37.04	
2			0001	0009	7	9	2790	0		
2			0001	0009	7	10	2802	0		
2			0001	0009	7	11	2820	0		
2			0001	0009	7	12	2803	0		
3			0001	0008	6.91	13	2799	0	27.2	
3			0001	0008	6.91	14	2774	0	29.05	
3			0001	0008	6.91	15	2811	0		
3			0001	0008	6.91	16	2786	0		
3			0001	0008	6.91	17	2796	0		
3			0001	0008	6.91	18	2790	0		
4			0001	0002	7.02	19	2798	0	35.53	
4			0001	0002	7.02	20	2781	0	30.38	
4			0001	0002	7.02	21	2812	0		
4			0001	0002	7.02	22	2818	0		
4			0001	0002	7.02	23	2789	0		
4			0001	0002	7.02	24	2799	0		
5						25				
5						26				
5						27				
5						28				
5						29				
5						30				

Armor Information	
Plate Subjected to hard armor conditioning	
Soft armor Panel Size (If used)	Plate Size
C-2	10 x 12
NIJ Armor Type:	
3	
Shots Per Plate (Type IV only):	

<b>Summary:</b>	Perforations: <u>0</u>	BFS Statistics: Count: <u>8</u>	
	Maximum BFS: <u>37.04 mm</u>		
Pass - No BFS greater than 44 mm			

**Overall P-BFS Summary**

<b>Perforations:</b>	This requirement is for all P-BFS tested samples 0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.
<b>Backface Signature:</b>	This requirement is for all hard armor plate models Maximum BFS: <u>37.04 mm</u> This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.