

NVLAP Lab Code: 200820-0

Test Laboratory Name: NTS-Chesapeake Testing  
 Report Identification Number:  
 Issue / Revision Number:

**Penetration and BFS Summary Data**

Test ID: MC03042  
 Manufacturer: [REDACTED]

Report Date:  
 NIJ Armor Type: 3A

Ammunition: .357 SIG 125/FMJ Threat 1 - New Armor Test Velocity: 1470 ± 30 ft/s Conditioning: New

Shot Number	Sample 1 Size: C-1				Sample 2 Size: C-1			
	Panel A		Panel B		Panel A		Panel B	
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1457	0	27		1445	0	29.1	
2	1457	0	27.1		1474	0	28.9	
3	1474	0	28.8		1481	0	32.3	
4	1473	0			1476	0		
5	1485	0			1469	0		
6	1471	0			1479	0		
7								
8								
<b>Summary:</b> Perforations: 0 (Pass) BFS Statistics: Count: 12 Average: 28.82 mm Maximum BFS: 32.3 mm St. Dev: 1.55103 mm Pass - No BFS greater than 44 mm								

Shot Number	Sample 3 Size: C-5				Sample 4 Size: C-5			
	Panel A		Panel B		Panel A		Panel B	
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1452	0	27.2		1493	0	26.5	
2	1471	0	26		1479	0	24.5	
3	1472	0	21.6		1483	0	19.9	
4	1459	0			1483	0		
5	1468	0			1486	0		
6	1473	0			1467	0		
7								
8								
<b>Summary:</b> Perforations: 0 (Pass) BFS Statistics: Count: 12 Average: 23.22 mm Maximum BFS: 27.2 mm St. Dev: 3.02109 mm Pass - No BFS greater than 44 mm								

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Threat 2 - New Armor

Ammunition: .44 Mag 240/SJHP

Test Velocity: 1430 ± 30 ft/s

Conditioning: New

Shot Number	Sample 5 Size: C-1				Sample 6 Size: C-1											
	Panel A		Panel B		Panel A		Panel B									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1431	0	36.8		1421	0	34.3		1425	0	37.3		1425	0	38.5	
2	1445	0	38.6		1421	0	34.5		1425	0	35.3		1430	0	36.9	
3	1421	0	39.6		1427	0	36.2		1428	0	40.5		1422	0	39.1	
4	1422	0			1427	0			1430	0			1428	0		
5	1423	0			1417	0			1430	0			1428	0		
6	1415	0			1419	0			1416	0			1431	0		
7																
8																
<b>Summary:</b> Perforations: 0 (Pass) BFS Statistics: Count: 12 Average: 37.3 mm Maximum BFS: 40.5 mm St. Dev: 2.00817 mm Pass - No BFS greater than 44 mm																

Shot Number	Sample 7 Size: C-5				Sample 8 Size: C-5											
	Panel A		Panel B		Panel A		Panel B									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1422	0	33		1436	0	34.7		1427	0	30.1		1423	0	30.5	
2	1420	0	33		1429	0	34.4		1419	0	33.1		1428	0	30.2	
3	1425	0	26.8		1419	0	27.1		1419	0	27.8		1423	0	27.4	
4	1420	0			1431	0			1422	0			1420	0		
5	1434	0			1433	0			1425	0			1416	0		
6	1431	0			1427	0			1422	0			1416	0		
7																
8																
<b>Summary:</b> Perforations: 0 (Pass) BFS Statistics: Count: 12 Average: 30.67 mm Maximum BFS: 34.7 mm St. Dev: 2.92548 mm (Pass - No BFS greater than 44 mm)																

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Threat 1 - Conditioned Armor

Ammunition: .357 SIG 125/FMJ

Test Velocity: 1410 ± 30 ft/s

Conditioning: Conditioned

Shot Number	Sample 21 Size: C-1				Sample 22 Size: C-5											
	Panel A		Panel B		Panel A		Panel B									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note				
1	1393	0	28.8		1432	0	31.6		1402	0	25.4		1422	0	22.1	
2	1413	0	32.8		1438	0	33		1418	0	27.4		1421	0	22.9	
3	1399	0	32.7		1408	0	31.9		1406	0	22.2		1415	0	18.6	
4	1408	0			1407	0			1416	0			1422	0		
5	1403	0			1413	0			1426	0			1428	0		
6	1422	0			1426	0			1418	0			1420	0		
7																
8																
<b>Summary:</b>		Perforations: 0 (Pass)				Perforations: 0 (Pass)				Maximum BFS: 33 mm (no requirement)		Maximum BFS: 27.4 mm (no requirement)				

Threat 2 - Conditioned Armor

Ammunition: .44 Mag 240/SJHP

Test Velocity: 1340 ± 30 ft/s

Conditioning: Conditioned

Shot Number	Sample 23 Size: C-1				Sample 24 Size: C-5											
	Panel A		Panel B		Panel A		Panel B									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note				
1	1348	0	41.8		1354	0	42.1		1352	0	37.6		1320	0	34.9	
2	1345	0	41.5		1376	0	41.8		1320	0	33.5		1338	0	32.4	
3	1338	0	44.4		1353	0	44.4		1345	0	30.2		1340	0	27.9	
4	1329	0			1337	0			1351	0			1335	0		
5	1354	0			1337	0			1356	0			1358	0		
6	1350	0			1341	0			1347	0			1338	0		
7																
8																
<b>Summary:</b>		Perforations: 0 (Pass)				Perforations: 0 (Pass)				Maximum BFS: 44.4 mm (no requirement)		Maximum BFS: 37.6 mm (no requirement)				

Overall P-BFS Summary

**Perforations:** This requirement is for all P-BFS tested samples - New and Conditioned

0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.

**Backface Signature:** This requirement is for New armors only

**Maximum BFS:** 40.5 mm

This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.