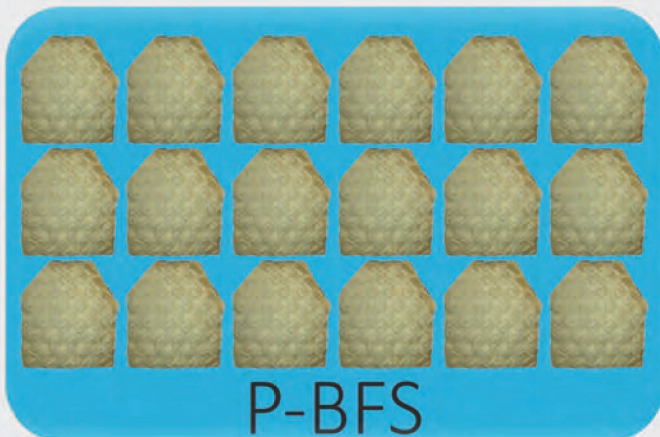


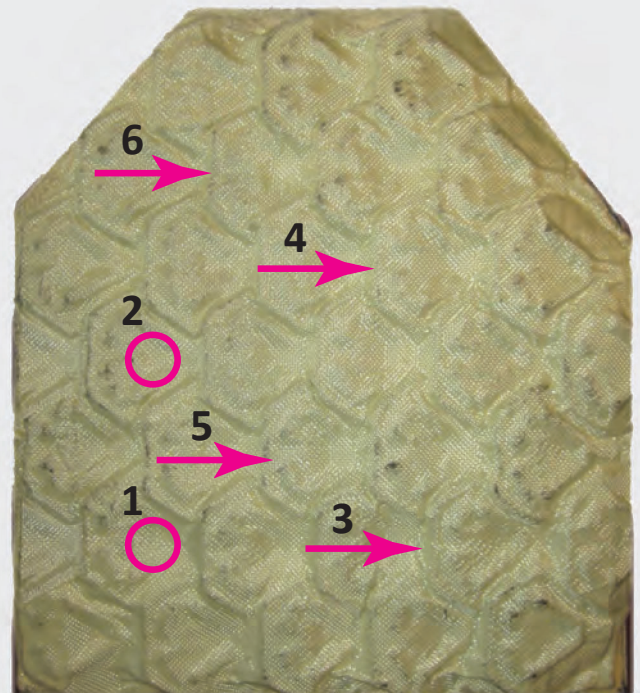
Verco's NIJ Level III Certification Tests

The National Institute of Justice (NIJ) Level III test for rifle protection plates (NIJ 0101.06):

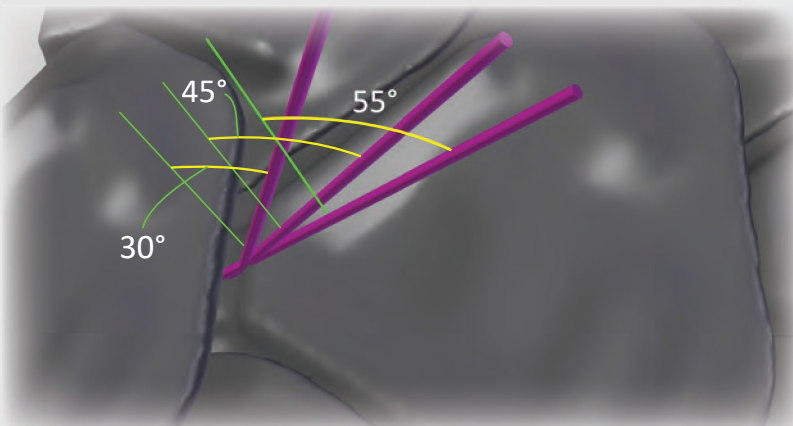
Perforation and back face signature (P-BFS) test: 4 plates, 6 shots/plate. M80 ball at muzzle velocity (2780 ft/s)—must have no perforations, no excessive back face deformation (<44 mm).



The NIJ test for imbricated armor (Admin. Clarif. 2015:01) is much more rigorous: 18 P-BFS panels.



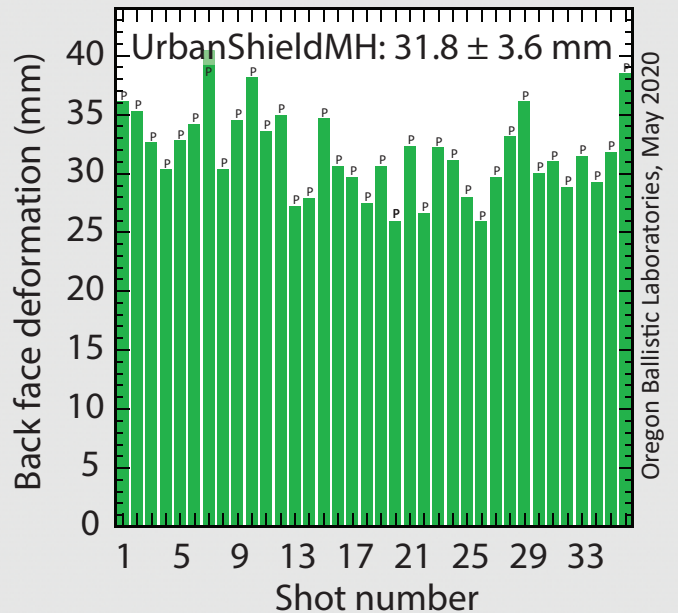
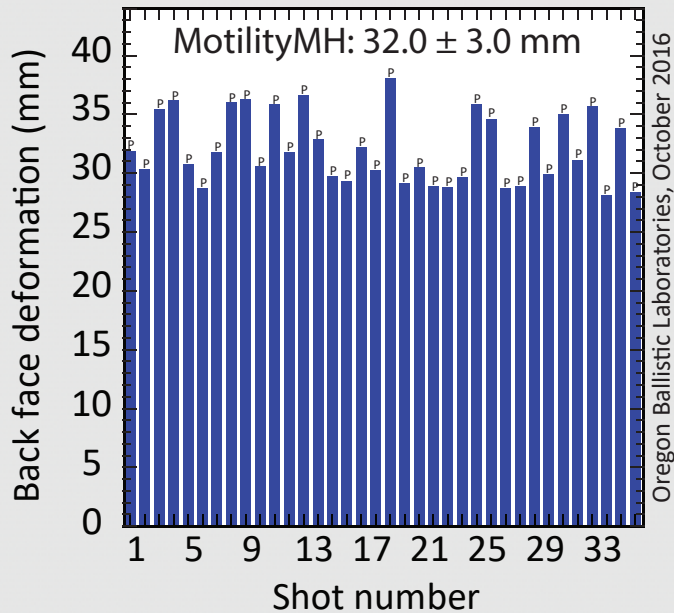
The first two shots are orthogonal at muzzle velocity. The panel must show no perforations or excessive BFS (>44 mm).



The next four are angle shots, attempting to perforate between the imbricated tiles.

Results: For both MotilityMH and UrbanShieldMH, all 72 oblique shots showed no perforation.

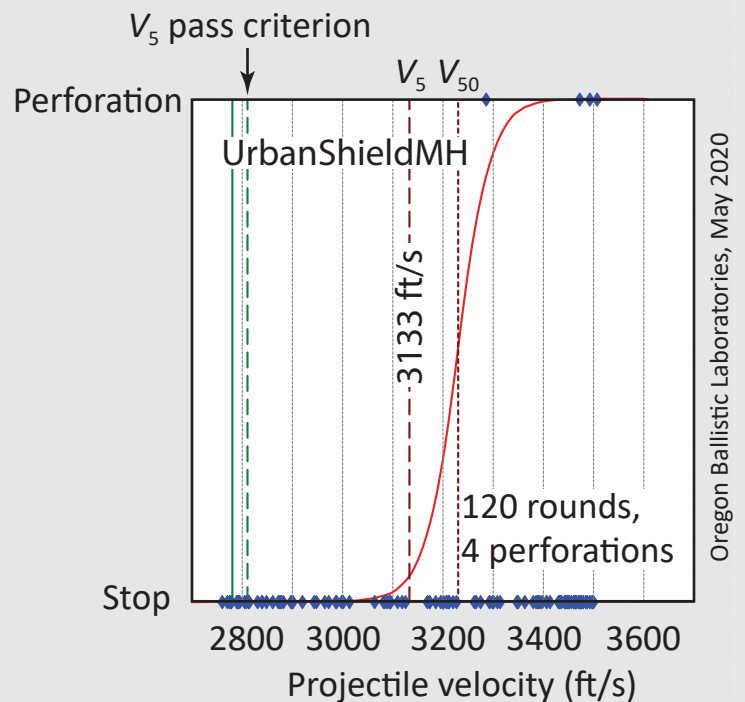
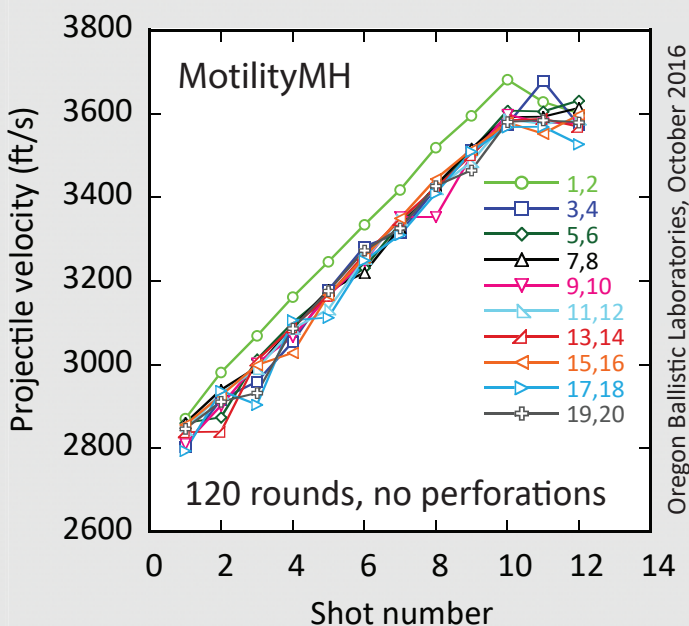
Orthogonal BFS impacts, no perforations, all <44 mm:



Ballistic limit (BL) test for plates: 4 plates, 6 shots per plate. Find the velocity at which 50% perforate (V_{50}). Requirement: 95% confidence that muzzle velocity will not perforate.

The test for imbricated armor (Ad. Cl. 2015:01) is more rigorous: 20 BL panels, 6 shots per panel.

Results:



Verco's MotilityMH earned NIJ Level III compliance, January 2017. UrbanShield-MH earned NIJ Level III compliance, January 2021.

Verco is presently the only company to earn NIJ certification (Admin. Clairf. 2015:01) for imbricated armor.

