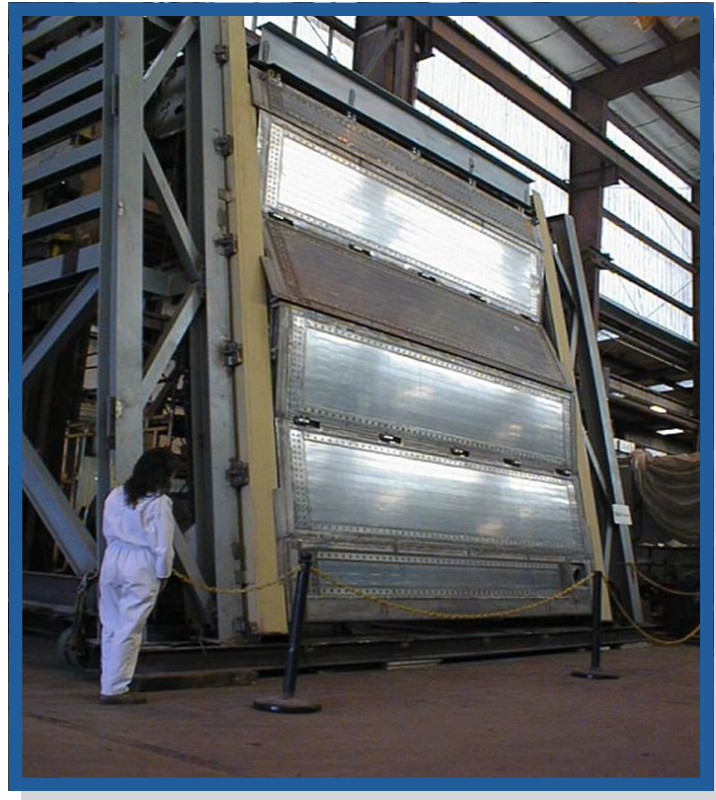


NAVTRUSS Panels

NAVTRUSS panels were initially designed for use on the DDG-51 Class Helicopter Hangar Door (HHD) System. There are multiple potential applications for a NAVTRUSS panel system. One easily adaptable system is blast protection for military armored vehicles, such as MRAP and Humvees. The panels are composed of a corrugated core panel sandwiched between two skins.

The panels, as part of the HHDs has been qualification tested to meet Grade A Shock per MIL-S-901D. This means the panel system has been tested to withstand multiple underwater explosions from multiple directions (fore-and-aft and athwart ship) in close proximity to the barge which is the test bed.

Many simulated IED tests on armored vehicles use several lbs. of explosives and test a vehicles armor as it drives over the IED. The application of NAVTRUSS style panels in the floorboards of tactical vehicles will protect passengers from blast and shrapnel. Recent simulations demonstrate the feasibility of this design.



Simulation analysis has demonstrated the system's capacity to withstand heavy static shock loads equivalent to the simulated blast of a typical IED.