

SBIR 06.2 PHASE I - AWARD DETAILS	
ORGANIZATION	PEO CS&CSS
TOPIC NUMBER	A06-191
CONTRACT NUMBER	
YEAR OF AWARD	
AWARD START DATE	
AWARD COMPLETION DATE	
PROPOSAL NUMBER	A062-191-0080
TITLE	Lightweight Mine-Protected Fasteners for Blast Protection Appliqués
PROJECT MANAGER	Ken-An Lou (480) 682-1006 ken.lou@armorWorks.com
COMPANY	ArmorWorks, Inc. 7306 S. Harl Avenue Tempe AZ 85283 Minority Owned: No Veteran Owned: Yes Number of Employees: 200
KEYWORDS	High performance fastener, blast protection, appliqué, anti-vehicular mine, tactical vehicle, survivability, bolt, shear failure
ABSTRACT	The objective of this SBIR Phase I program is to develop innovative lightweight mine-protected fastener design concepts as well as evaluate and identify potential off the shelf high performance metallic or composite fasteners to incorporate into the design. The success of the design will be demonstrated via computer modeling and simulation during this Phase I study. Our approach is to continue the success of many years research efforts conducted by the University of Delaware, Center for Composite Materials (UD-CCM) and Army Research Laboratory (ARL) in optimizing joint design for composite structures under ballistic impact.
BENEFITS	The SBIR Phase I will result in a lightweight high-performance fastener system that will be beneficial to both the automotive and aerospace industries, due to increased use of innovative materials for ballistic and blast protection in both industries. Additional markets would include aftermarket automotive companies that offer specialty ballistic armor and blast protection products for civilian vehicles.