



## DISCUSSION OF TECHNICAL CHARACTERISTICS OF METALITH PROTECTIVE BARRIERS

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Infrastructure Defense Technologies, LLC (IDT) is the manufacturer of METALITH, an extensively tested, validated and field proven anti-terrorism and military force protection barrier system which is unrivaled in its ability to protect personnel, equipment and high value assets from threats such as high order blasts, ramming by trucks, direct and indirect fire from rockets and coordinated ground based terrorist/insurgent attacks. METALITH is an improved iteration of the US Air Force's Type B-1 Aircraft Revetment which was widely deployed from the 1960's through the 1990's for the purpose of protecting tactical fighter aircraft (F-4, F-15, F-16, F-18, etc.) from both enemy fire and accidental detonation of ordnance. METALITH is the only product which meets all requirements of US Department of Defense specification MIL-PRF-32277 and DDESB 6055.9. While the USAF continues to protect its air assets with METALITH the product has been adopted by other military, government and private sector entities for applications such as base perimeters, national borders, strategic petrochemical sites and explosive storage facilities. IDT possesses a long term contract for the supply of METALITH to the United States' War Reserve Materiel Program worldwide.

METALITH can be described generically as a "steel bin type, earth filled protective barrier". The product consists of essentially two components: heavily galvanized roll formed steel panels and stainless steel connecting rods. The steel panels are subjected to a series of proprietary manufacturing processes which modify them in a way that allows them to be interconnected with the rods to form continuous cells which are then built on a prepared site into configurations predetermined by the user based on the expected threats. Once assembled each series of cells or "courses" is filled with sand and the process continues until the desired height and width are achieved. The sand fill is the actual strength of the METALITH system as it is extremely heavy and dense yet granular and non-cohesive; thereby making it extremely effective at absorbing and dissipating kinetic energy. The structural grade steel panels are designed, engineered and manufactured to support the hydrostatic load of the encapsulated media which can exceed 4900kg. per square meter in the lower courses. METALITH has an expected service field life of 40+ years.

Further technical information can be obtained from the author via email [t.carlton@infrastructure-defense.com](mailto:t.carlton@infrastructure-defense.com) or by visiting [www.infrastructure-defense.com](http://www.infrastructure-defense.com)

