

ERA

Explosive reactive armor protection system

Weighting app. 6 kg each, these tiles ensure significant shaped charge jet destruction effect (decrease up to 80% of shaped charge penetration). ERA tiles configuration provides reliable effectiveness against various types of HEAT warheads including ammunition with hard ogival point. Explosive reactive armor reduces penetration of shaped charge warheads up to 80%, while terminal efficiency of kinetic energy projectiles is reduced by 25%.

Explosive reactive armor can offer protection of up to 80% of overall MBT frontal area, with weight increase of 750 kg (1000 kg if ERA boxes are installed on side skirts).

ERA boxes retrofitting at MBT's hull and turret are based on screw connection with specially designed box carrying rods, previously welded at turret and hull main armor. Rod design and positions provide ERA box distance and orientation from tank's main armor, providing maximum protection effect against main threat - HEAT and AP projectiles. Two main ERA boxes configuration are existing – parallel and arrow-head configuration.

Realized configuration of ERA protection systems at T-55 and T-72 MBT.

