

Pentagon to get super bunker-buster bomb

The United States military is developing a huge, precision-guided bomb designed to destroy deeply-buried bunkers beyond the reach of existing weapons. The *Massive Ordnance Penetrator (MOP)* will be the largest non-nuclear bomb in the U.S. arsenal and could be ready by mid-2010

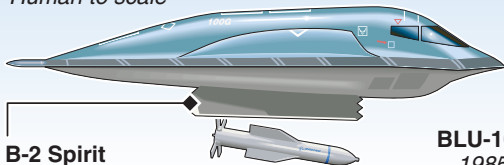
MOP
(GBU-57)

Casing: Made of hardened ferro-cobalt alloy to survive impact. Body comprises more than 80 percent of bomb's total weight



Human to scale

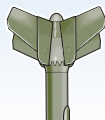
Guidance: GPS-based system for enhanced accuracy. Weapon reaches supersonic speed prior to impact



B-2 Spirit

Stealth bomber drops weapon at high altitude. Aircraft specially modified to carry two bombs, one in each weapons bay

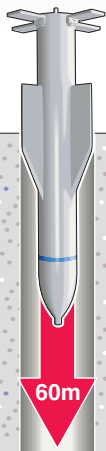
GBU-28
1990



BLU-109
1985



Massive Ordnance Penetrator
2010



BUNKER-BUSTER COMPARISON

Penetration through reinforced concrete

MOP SPECIFICATIONS

Length	6.2 metres
Diameter	0.8 metres
Weight	14 metric tonnes
Warhead	2.4 metric tonnes
Penetration	60m of 5,000 psi concrete 8m of 10,000 psi concrete 40m of moderately hard rock

1.8m

6m

60m