

GBU-57 Massive Ordnance Penetrator (MOP) - Bunker Buster



The GBU-57 series MOP (Massive Ordnance Penetrator) is a 30,000-pound (14,000 kg) class, 20.5-foot-long (6.2 m) precision-guided munition "bunker buster" bomb -- the initials "GBU" stand for "Guided Bomb Unit"-- developed by Boeing for the United States Air Force (USAF). Composed of a BLU-127 bomb body and an integrated GPS/INS guidance package, there are seven GBU-57 variants. Due to its size and weight, the GBU-57 MOP can only be carried by the Northrop B-2 Spirit strategic bomber, although initial tests were conducted with the Boeing B-52 Stratofortress.

In flight, the bomb is stabilized by grid fins, which help maintain trajectory and allow for mid-course adjustments.

The first combat use of the GBU-57 MOP came on June 22, 2025, when seven Northrop B-2 Spirit stealth bombers dropped a total of fourteen GBU-57 bombs on Iran's Fordow Uranium Enrichment Plant and Natanz Nuclear Facility.

According to General Dan Caine, Chairman of the U.S Joint Chiefs of Staff, both sites sustained severe damage. Darya Dolzikova, Senior Research Fellow at RUSI, argues that the exact damage to the facilities is unclear. Rafael Grossi, director general in IAEA said "no one, including the IAEA, is in a position to have fully assessed the underground damage at Fordow", it is expected to be "very significant".

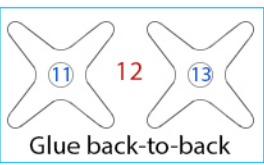
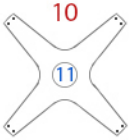
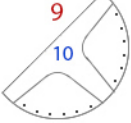
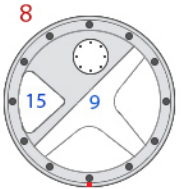
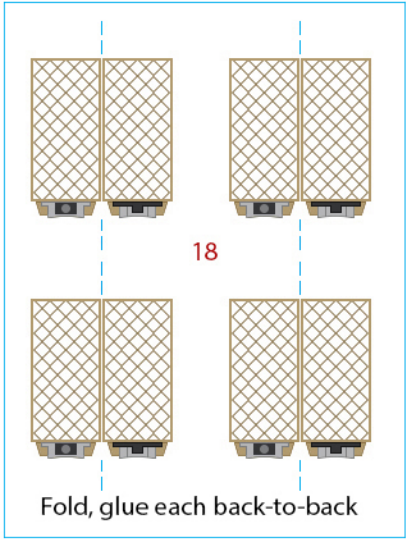
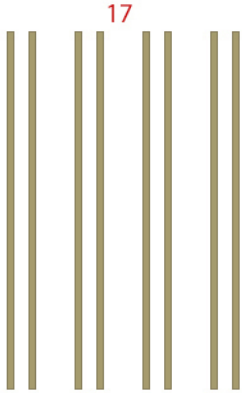
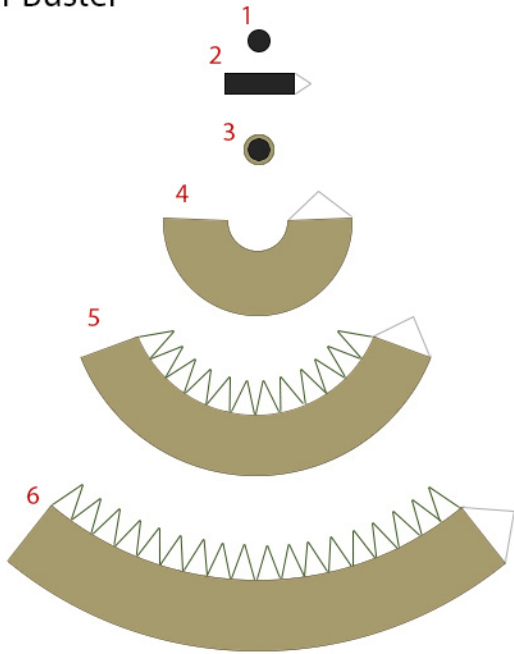
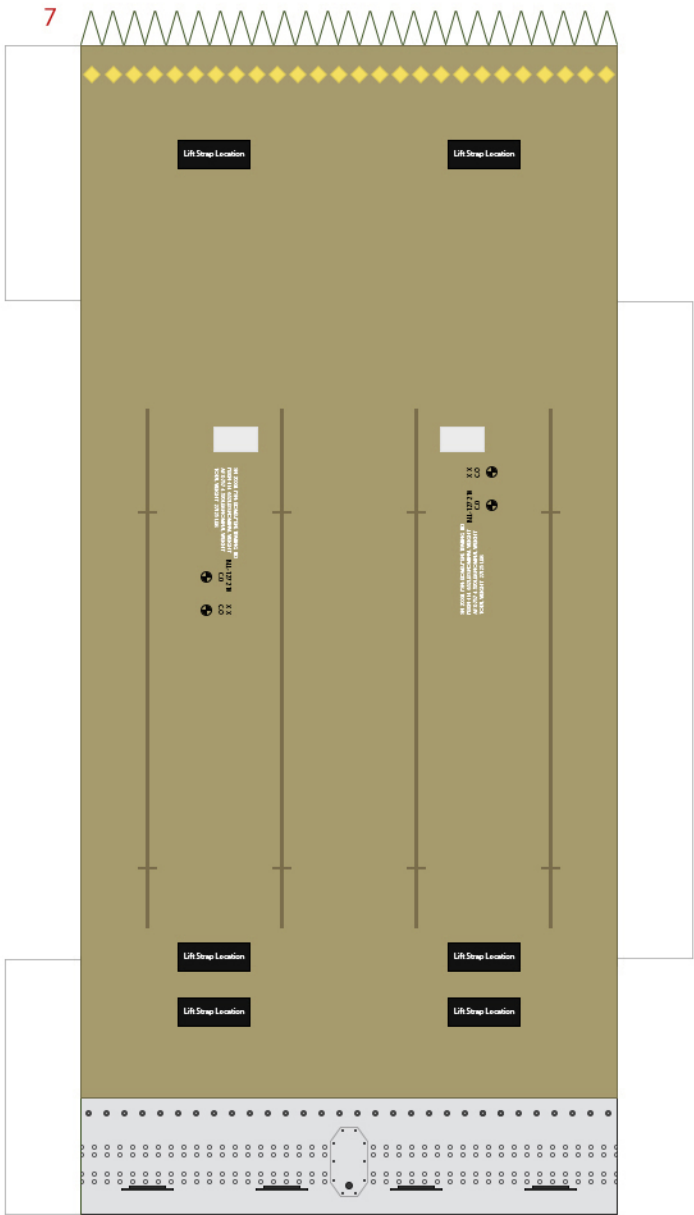
The MOP measures about 20.5 feet in length and 31.5 inches in diameter, according to the Air Force.

It weighs in at just under 30,000 pounds, including about 5,300 pounds of explosive material. The Air Force says that the MOP's explosive power is over 10 times that of its predecessor, the BLU-109.

It's designed to penetrate up to 200 feet underground before exploding. The warhead is encased in a special high-performance steel alloy, which is meant to enable it to carry a large explosive payload while maintaining the penetrator case's integrity during impact, according to an Air Force fact sheet.

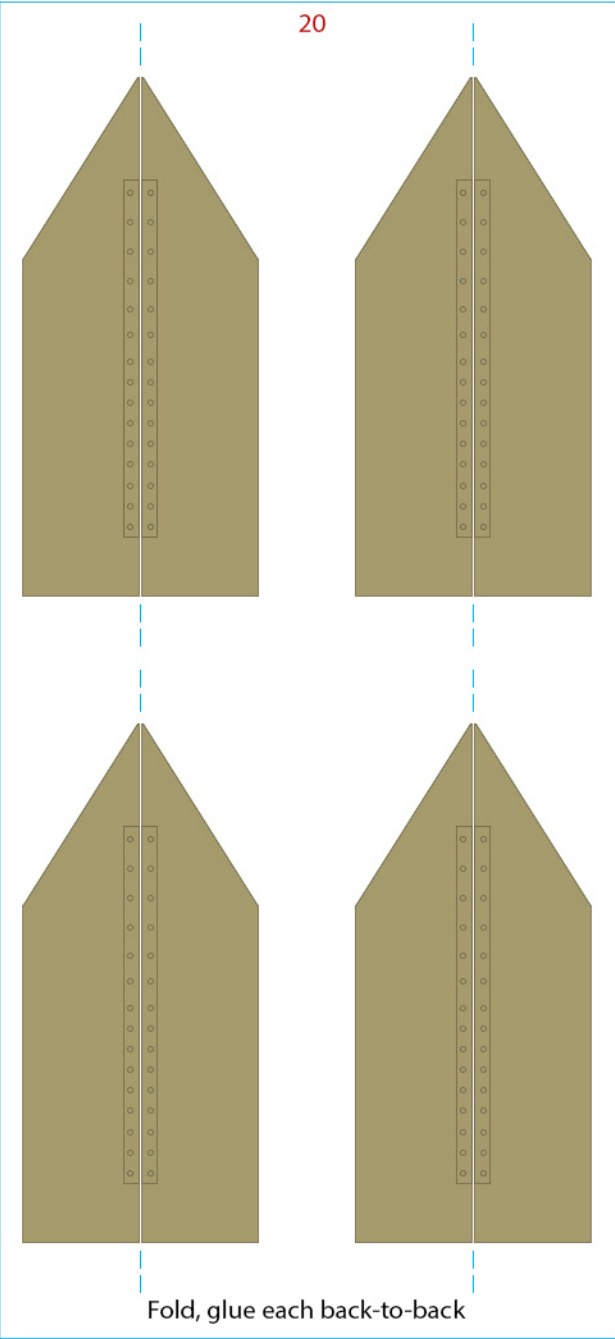


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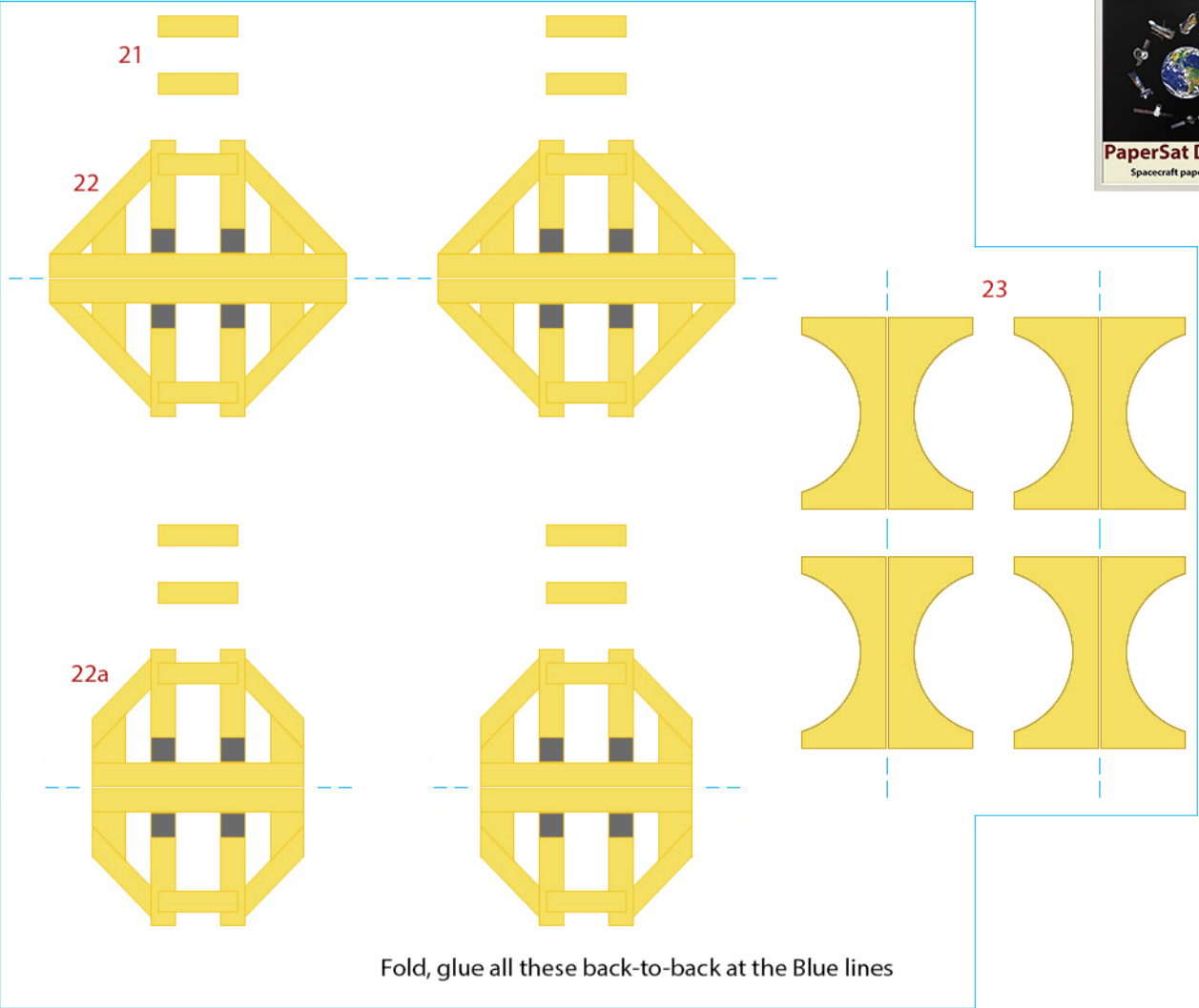


Glue to cardstock

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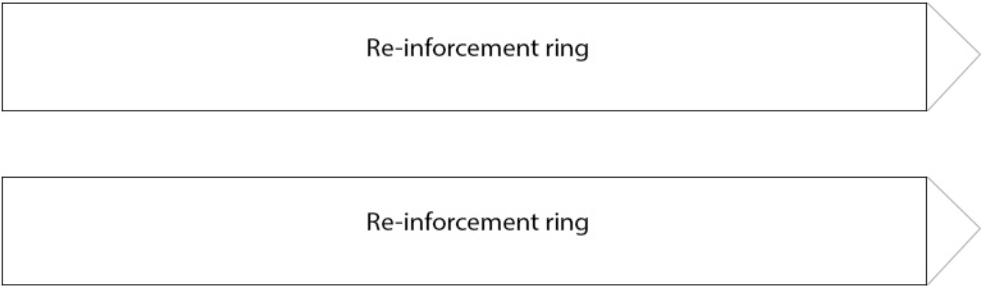
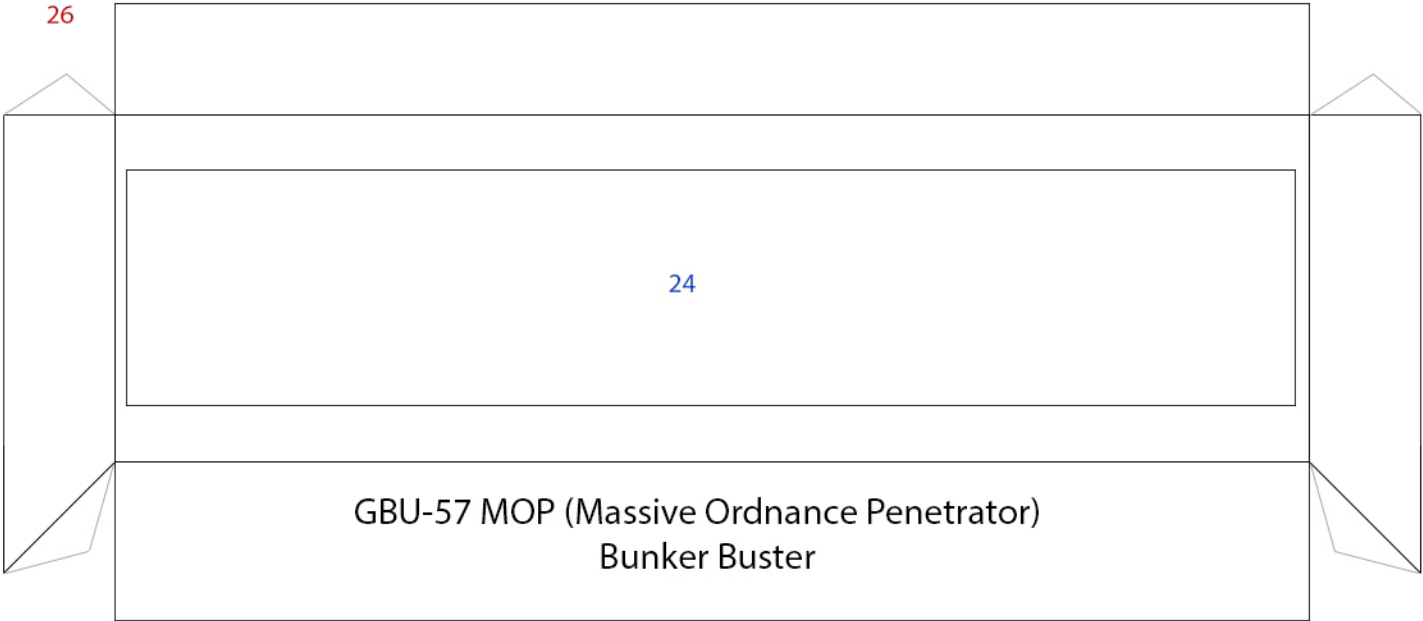
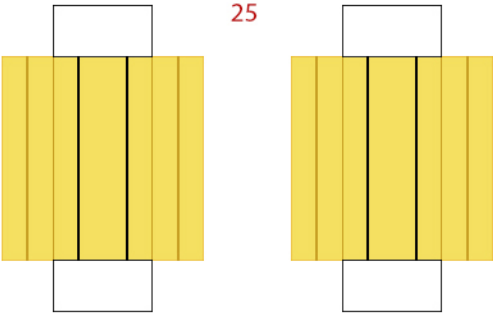


Fold, glue each back-to-back



Glue to two (2) layers of cardstock

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Re-inforcement rings, glue under the stand - It's a heavy bomb