GBU-16/B Paveway II LGB [Mk83] (USN)

Guided Weapon



Type: Guided Weapon
Weight: 495.0 kg
Length: 3.68 m
Span: 1.6 m
Length: 3.68 m
Diameter: 0.36
Generation: None

Properties: Illuminate at Launch, Supports Buddy Illumination
Targets: Surface Vessel, Land Structure - Soft, Land Structure - Hardened, Runway, Mobile Target - Soft, Mobile Target - Hardened

Sensors / EW:
- Laser Spot Tracker (LGB) - (Paveway II CCG, Fixed and Mobile) Laser Spot Tracker (LST), LST, Laser Spot Tracker, Max range: 0 km

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Weapons / Loadouts:
- GBU-16/B Paveway II LGB [Mk83] - (USN) Guided Weapon. Surface Max: 7.4 km. Land Max: 7.4 km.

OVERVIEW: The GBU-16/B Paveway II is a laser guided bomb (LGB).

DETAILS: The GBU-16/B Paveway II is intended for precision bombing against non-hardened targets. It consists of a bolt-on gimballed seeker head and Computer Control Group (CCG) and a stabilizing tail airfoil assembly attached to a conventional Mk83 gravity bomb. This converts the Mk83 into a laser-guided weapon that homes in on a reflected laser beam transmitted from a ground or air-based laser designator. A Paveway II-series bomb steers to the target using "bang-bang" guidance, where the control surfaces are always fully deflected. This results in a relatively inefficient flight path. Consequentially, the Paveway II-series has limited standoff capabilities. Its sensor also was limited by mist and fog.

NOTES: IOC in late 1970's

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SOURCES: Jane's Air Launched Weapons "Paveway (GBU-10/11/12/16/17/24, January 01, 1997 ; Friedman, Norman. The Naval Institute Guide to World Naval Weapon Systems, 1997-1998 Annapolis, Md: Naval Institute Press, 1998, pg. 253-54 ; Laser Guided Bombs (LGB) | NAVAIR - U.S. Navy Naval Air Systems Command - Navy and Marine Corps Aviation Research, Development, Acquisition, Test and Evaluation. (n.d.). Retrieved from http://www.navair.navy.mil/index.cfm?fuseaction=home.displayPlatform&key=8ABEFAFF-CF7B-4649-A502-38E4E0A42F37