



**US Army Corps
of Engineers®**

ENGINEERING AND CONSTRUCTION BULLETIN

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Subject: Department of Defense Explosives Safety Board (DDESB) approval of Modular Storage Magazine (MSM), U.S. Army Corps of Engineers Standard Drawing Series 421-80-08

Applicability: Guidance

1. Purpose: This bulletin announces the availability of the new 7-bar structural designation MSM approved by the DDESB for new construction. The 421-80-08 MSM supersedes the Munitions Storage Magazine (14 foot ceiling height) as designed for Hill AFB. The 421-80-08 MSM is a pre-cast reinforced concrete box type structure and qualifies to be sited as an Earth Covered Magazine (ECM) per the guidance in DoD 6055.09-M, DoD Ammunition and Explosives Safety Standards. The approval documentation will be included in DDESB Technical Paper 15, Approved Protective Construction. The magazine drawings will be posted for download on the Whole Building Design Guide (WBDG) website for Ammunition and Explosives Storage Magazines, http://www.wbdg.org/design/ammo_magazines.php. In the interim, requests for the drawings should be sent to Mr. Jeff Coulston at jeff.coulston@usace.army.mil.
2. Background: The DDESB requested a new series MSM be developed to incorporate lessons learned during construction of the MSM, Box Type, 421-80-06 (Modified) and the Hill AFB MSM. The development of the new 421-80-08 MSM was coordinated with the DDESB and the Army, Navy and Air Force Safety Centers.
3. Use: This MSM provides another DDESB approved protective structure alternative for the storage of ammunition and explosives. This ECM is approved for new construction of Ammunition Supply Points and other Munitions Supply Areas. Although a transition period is recognized, it is recommended, as possible, that the new 421-80-08 MSM be utilized for projects that currently include the construction of the MSM (14 foot ceiling height) as designed for Hill AFB.
4. Distribution: The 421-80-08 MSM drawings are approved for public release and distribution is unlimited.
5. The point of contacts for this ECB are Richard Ludwitzke, CECW-CE, 202-761-1580 and Jeff Coulston, CEHNC-ED-CS-S, 256-895-1651.

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