

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

| | | | | | |
|---|------------------------------------|-------------------------------------|----------------------------|---|---------------------------------|
| 1. REPORT DATE JUN 2001 | | 2. REPORT TYPE | | 3. DATES COVERED | |
| 4. TITLE AND SUBTITLE Pre-Engineered Explosives Magazines | | | | 5a. CONTRACT NUMBER | |
| | | | | 5b. GRANT NUMBER | |
| | | | | 5c. PROGRAM ELEMENT NUMBER | |
| 6. AUTHOR(S) Luis Malvar | | | | 5d. PROJECT NUMBER | |
| | | | | 5e. TASK NUMBER | |
| | | | | 5f. WORK UNIT NUMBER | |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Commanding Officer,NAVFAC ESC,1100 23rd Avenue,Port Hueneme,CA,93043-4370 | | | | 8. PERFORMING ORGANIZATION REPORT NUMBER TDS-2078-SHR | |
| 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) | | | | 10. SPONSOR/MONITOR'S ACRONYM(S) | |
| | | | | 11. SPONSOR/MONITOR'S REPORT NUMBER(S) | |
| 12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited. | | | | | |
| 13. SUPPLEMENTARY NOTES | | | | | |
| 14. ABSTRACT Pre-engineered magazines provide a cost-effective alternative to conventional construction for the storage of fuses, detonators, small arms ammunition, and pyrotechnics. They may also be used for the storage of Category II, III, and IV arms when existing facilities do not meet the design criteria of Military Handbook (MIL-HDBK) 1013/1A ?Design Guidelines for Physical Security of Facilities.? Pre-engineered magazines are available in a variety of sizes at about half the cost of onsite construction. | | | | | |
| 15. SUBJECT TERMS | | | | | |
| 16. SECURITY CLASSIFICATION OF: | | | 17. LIMITATION OF ABSTRACT | 18. NUMBER OF PAGES 2 | 19a. NAME OF RESPONSIBLE PERSON |
| a. REPORT unclassified | b. ABSTRACT unclassified | c. THIS PAGE unclassified | | | |



TechData Sheet

Naval Facilities Engineering Service Center
Port Hueneme, California 93043-4370



TDS-2078-SHR

June 2001

Pre-Engineered Explosives Magazines

Overview

Pre-engineered magazines provide a cost-effective alternative to conventional construction for the storage of fuses, detonators, small arms ammunition, and pyrotechnics. They may also be used for the storage of Category II, III, and IV arms when existing facilities do not meet the design criteria of Military Handbook (MIL-HDBK) 1013/1A "Design Guidelines for Physical Security of Facilities." Pre-engineered magazines are available in a variety of sizes at about half the cost of on-site construction.

Requirements

The Department of Defense (DoD) Manual 5100.76-M "Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives" prescribes the minimum standards and criteria for pre-engineered magazines.

Pre-engineered magazines (Figure 1) shall be constructed from a 1/4-inch exterior steel plate with a 3-inch interior hardwood liner. Rectangular side vents with angle iron covers provide ventilation. The door is mounted with two or more heavy-duty strap hinges. All hinges, vents, and shrouds must be welded in place. Hinge-side protection (Figure 2) is required.

If carriage bolts are used to secure the hardwood liner to the door, they must be welded to the exterior surface.

A High Security Hasp and Padlock is also required. The High Security Hasp must meet the



Figure 1. Pre-engineered magazine. (Used with permission from Armag™ Corp.)

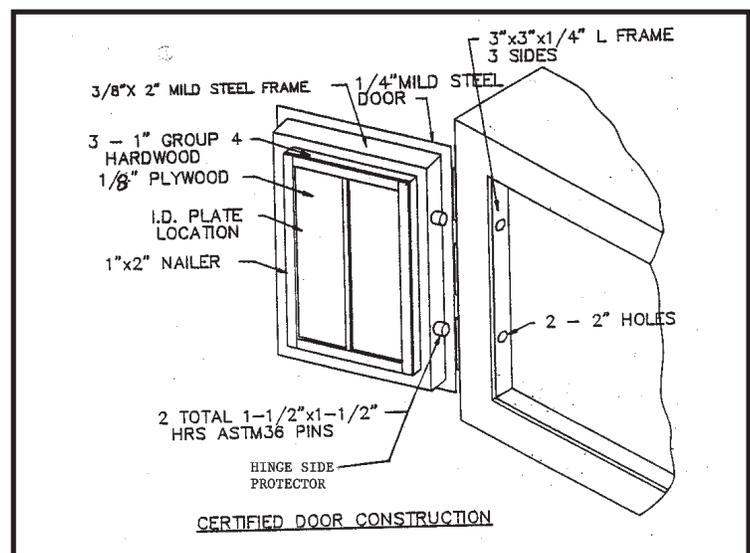


Figure 2. Pin and socket hinge-side protection. (Used with permission from Armag™ Corp.)

current requirements of MIL-H-29181A. The High Security Padlock must meet the current requirements of MIL-P-43607.

Note

Pre-engineered magazine are not considered relocatable buildings so they are exempt from OPNAVINST 11010.33A, "Relocatable Buildings; Procurement and Use of."

Sources

Pre-engineered magazines are available in sizes from 3 x 3 x 3 feet to 8 x 16 x 40 feet (double trailer size). The manufacturer will construct magazines to user specifications. Request price quotations from the following manufacturer.

Pre-Engineered Magazine Sources

ARMAG Corporation
(Formerly Sam Nally Shop, Inc.)
40 Lucknow Court
Bardstown, KY 40004
1-800-443-9994, (502) 348-3987, Fax: (502) 348-4801,
or E-mail info@armagcorp.com

Note

Military application magazines provided by Armag Corporation come with a high security hasp.

High Security Padlock Sources

Navy, Marine Corps, and Coast Guard

NAVSURFWARCENDIV
Building 8
300 Highway 361
Crane, IN 47522-5060
DSN: 482-1354 or (812) 854-1354

NSN: 5340-01-217-5068

Army and Air Force

Defense Supply Center Philadelphia (DSCP)
700 Robbins Avenue
Philadelphia, PA 19111
DSN: 444-2076 or (215) 737-2076

NSN: 5340-01-217-5068

Non DOD Federal Agencies and DOD Contractors

Defense Supply Center Philadelphia (DSCP)
700 Robbins Avenue
Philadelphia, PA 19111
DSN: 444-2076 or (215) 737-2076

NSN: 5340-01-449-4346

For further information on pre-engineered magazines, contact:

Technical Manager

Naval Facilities Engineering Service Center
Code ESC66
1100 23rd Avenue
Port Hueneme, CA 93043-4370
DSN: 551-1212, (805) 982-1212, or E-mail:
lock-tm@nfesc.navy.mil