

MILITARY COMMITTEE AIR STANDARDIZATION BOARD (MCASB)

22 October 2007

NSA(AIR)0792(2007)AA/3441

MCASB

STANAG 3441 AA (EDITION 8) - DESIGN OF AIRCRAFT STORES

Reference:

A. MAS(AIR)18-AA/3441 dated 19 February 1996 (Edition 7).

1. The enclosed NATO Standardization Agreement, which has been ratified by nations as reflected in the **NATO Standardization Document Database (NSDD)**, is promulgated herewith.
2. The Reference listed above is to be destroyed in accordance with local document destruction procedures.
3. The MCASB, NSA considers this an editorial edition to the STANAG; previous ratifying references and implementation details are deemed to be valid.

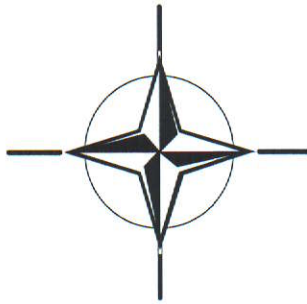
Juan A. MORENO
Vice Admiral, ESP(N)
Director, NATO Standardization Agency

Enclosure:

STANAG 3441 AA (Edition 8)

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**NORTH ATLANTIC TREATY ORGANIZATION
(NATO)**



**NATO STANDARDIZATION AGENCY
(NSA)**

**STANDARDIZATION AGREEMENT
(STANAG)**

SUBJECT: DESIGN OF AIRCRAFT STORES

Promulgated on 22 October 2007

A handwritten signature in blue ink, which appears to read 'Juan A. Moreno'. The signature is written over a horizontal line that extends across the width of the signature area. The signature is positioned above the printed name and title of the signatory.

Juan A. MORENO
Vice Admiral, ESP(N)
Director, NATO Standardization Agency

RECORD OF AMENDMENTS

No.	Reference/date of Amendment	Date entered	Signature

EXPLANATORY NOTES

AGREEMENT

1. This NATO Standardization Agreement (STANAG) is promulgated by the Director NATO Standardization Agency under the authority vested in him by the NATO Standardization Organisation Charter.
2. No departure may be made from the agreement without informing the tasking authority in the form of a reservation. Nations may propose changes at any time to the tasking authority where they will be processed in the same manner as the original agreement.
3. Ratifying nations have agreed that national orders, manuals and instructions implementing this STANAG will include a reference to the STANAG number for purposes of identification.

RATIFICATION, IMPLEMENTATION AND RESERVATIONS

4. Ratification, implementation and reservation details are available on request or through the NSA websites (internet <http://nsa.nato.int>; NATO Secure WAN <http://nsa.hq.nato.int>).

FEEDBACK

5. Any comments concerning this publication should be directed to NATO/NSA – Bvd Leopold III - 1110 Brussels - BEL.

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Agreed English/French Texts

STANAG 3441
(Edition 8)

NAVY/ARMY/AIR

NATO STANDARDIZATION AGREEMENT
(STANAG)

DESIGN OF AIRCRAFT STORES

Annex: A. Threaded Lug Well

Related Documents:	STANAG 3575 AA	-	AIRCRAFT STORES EJECTOR RACKS
	STANAG 3635 AA	-	AIRCRAFT STORES SUSPENSION UNITS WITH GRAVITY RELEASE CAPABILITY
	STANAG 3726 AA	-	BAIL (PORTAL) LUGS FOR THE SUSPENSION OF AIRCRAFT STORES
	MIL-STD-8591	-	AIRBORNE STORES, SUSPENSION EQUIPMENT AND AIRCRAFT-STORE INTERFACE (CARRIAGE PHASE); DESIGN CRITERIA STANDARD

AIM

1. The aim of this agreement is to standardize the structural and mechanical design of aircraft stores and their associated suspension equipment interfaces to facilitate interchangeability and the cross-servicing of aircraft.

AGREEMENT

2. Participating nations agree to apply the design requirements specified below in the design of aircraft stores and their associated suspension equipment interfaces.

DETAILS OF THE AGREEMENT

3. Aircraft stores shall be designed to the structural and mechanical criteria of MIL-STD-8591 except for the lug wells as shown in Annex A. The suspension units with which the stores must be compatible are defined in STANAGs 3575 and 3635.

4. When lugs are utilized to attach the store to the suspension equipment, the lugs shall meet the requirements of STANAG 3726. The store lug wells shall be spaced in accordance with the following dimensions:

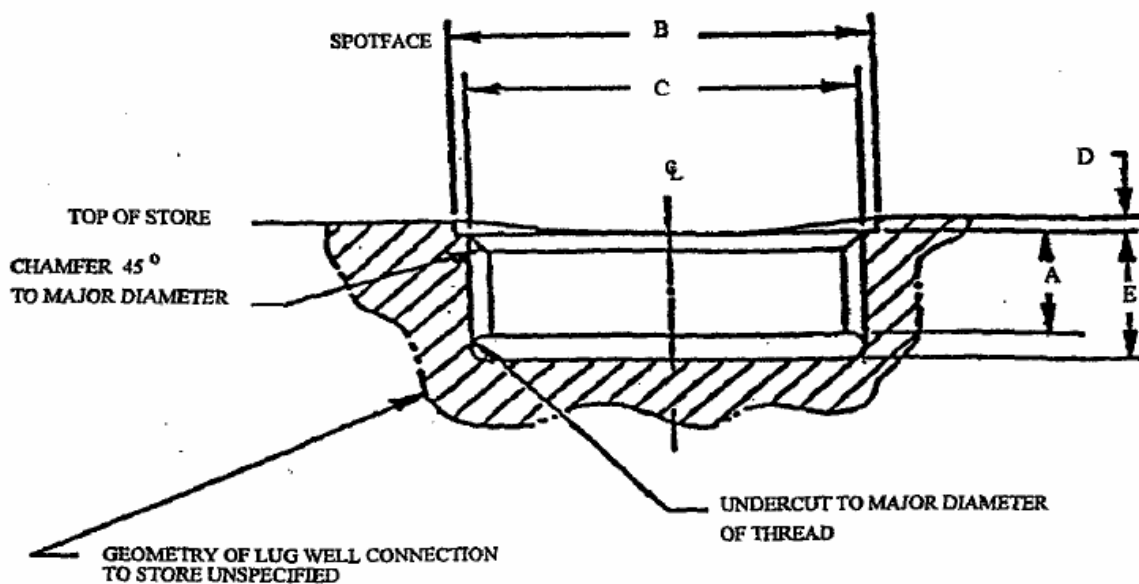
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CLASS STORE	SPACING
1000 lb (500 kg)	14 inches (355.60 mm) preferred 30 inches (762.00 mm) alternative
2000 lb (1000 kg)	30 inches (762.00 mm)

5. The threaded lug wells, with the lugs installed to meet the requirements of Dimension "I" in STANAG 3726, shall be capable of retaining the combined reaction load of the store when the aircraft on which the store is carried undergoes the maximum permissible load factor.

IMPLEMENTATION OF THE AGREEMENT

6. This STANAG is implemented when a nation has issued instructions that all future equipment procured for its forces will be manufactured in accordance with the specification detailed herein.



NOTE: Centrelines of the lug well shall be perpendicular to the longitudinal axis of the store.

THREADED LUG WELL DIMENSIONS				
1000 LB CLASS STORE			2000 LB CLASS STORE	
	Inches	Millimetres	Inches	Millimetres
A	0.624 Minimum Full Thread	15.85 Minimum Full Thread	1.14 Minimum Full Thread	28.96 Minimum Full Thread
B	1.870 Diameter	47.50 Diameter	2.620 Diameter	66.55 Diameter
C	1.750 12 UN-2B Thread	44.45 12 UN-2B Thread	2.500 12 UN-2B Thread	63.50 12 UN-2B Thread
D	SPOTFACE TO DEPTH SUFFICIENT TO ALLOW CLEANUP TO FULL SPOTFACE DIAMETER.			
E	TO BE COMPATIBLE WITH LUG INSTALLATION PROCEDURES AND ACHIEVE DIMENSION "I" SPECIFIED IN STANAG 3726 <u>WHEN SCREWED ALL THE WAY INTO THE LUG WELL.</u>			

FIGURE A-1 - THREADED LUG WELL