

16 March 2011

NSA/0291(2011)-JAIS/4694

See CNAD AC/225 STANAG distribution

STANAG 4694 JAIS (EDITION 1) – NATO ACCESSORY RAIL

Reference: PFP(NAAG)D(2009)0027 dated 28 October 2009

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.

ACTION BY NATIONAL STAFFS

3. National staffs are requested to examine their ratification status of the STANAG and, if they have not already done so, advise the Defence Investment Division through their national delegation as appropriate of their intention regarding its ratification and implementation.

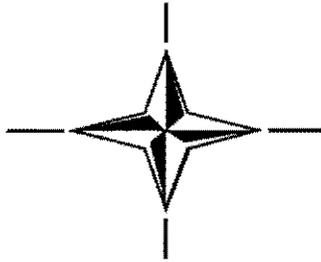


Cihangir AKSIT, TUR Civ
Director, NATO Standardization Agency

Enclosure:
STANAG 4694 (Edition 1)

NATO Standardization Agency - Agence OTAN de normalisation
B-1110 Brussels, Belgium Internet site: <http://nsa.nato.int>
E-mail: tasman.osman@hq.nato.int – Tel 32.2.707.4300 – Fax 32.2.707.4103

**NORTH ATLANTIC TREATY ORGANISATION
(NATO)**



**NATO STANDARDIZATION AGENCY
(NSA)**

**STANDARDIZATION AGREEMENT
(STANAG)**

SUBJECT: NATO ACCESSORY RAIL

Promulgated on 16 March 2011

A handwritten signature in black ink, appearing to read 'Cihangir AKSIT'.

Cihangir AKSIT, TUR Civ
Director, NATO Standardization Agency

RECORD OF AMENDMENTS

No.	Reference/date of amendment	Date entered	Signature

EXPLANATORY NOTES

AGREEMENT

1. This 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 – BE.

NATO STANDARDIZATION AGREEMENT
(STANAG)

NATO ACCESSORY RAIL

Annexes:

- A. Drawing.
- B. Recommended method to attach accessories to the NATO Accessory Rail.

Foreword

Due to an increased requirement to attach accessories to infantry weapons, there is a need to standardize the interface between these accessories and the weapon. Because of this NATO established RTO / SCI panel / group 178 / RTG-043 consisting of representatives from CAN, DEU, ESP, ITA, NLD, NOR, ROM, SVK, SWE and USA.

The NATO Accessory Rail according to this STANAG has full backwards compatibility with existing US MIL-STD-1913 accessories.

Related documents

N/A

AIM

- 1. The aim of this agreement is standardization of an accessory interface for interchangeability.
- 2. This document will describe the interface.
- 3. This STANAG will also give recommendation on attachment methods.

AGREEMENT

- 4. Participating nations agree that they shall adhere to the technical interfaces as outlined below.
- 5. Nations may propose changes to this standard if the development of future systems or technological enhancements dictate changes or refinement.

6. Such proposals should be submitted, at the earliest possible opportunity, to the Military Agency for Standardization and the Defense Support Division where they will be processed in the same manner as the original agreement.

ASSUMPTIONS AND EXCLUSIONS

GENERAL

7. The NATO accessory rail is defined by the drawing in annex A.
8. Recommended method to attach accessories to the NATO Accessory Rail is found in annex B.

IMPLEMENTATION OF THIS AGREEMENT

9. This STANAG is implemented when signatory countries, by means of appropriate national procedures, have:
 - (a) Ensured that all persons responsible for the design and construction of Dismounted Soldier System and related equipment are informed of the existence of the NATO standard characteristics defined in this Agreement; and
 - (b) Ensured that the introduction of new equipment designs does not hinder the interoperability of their respective new equipment with other Nation's Dismounted Soldier System. It is the signatory Nation's responsibility to provide interoperability at the level of their choices respecting this STANAG.

Definitions

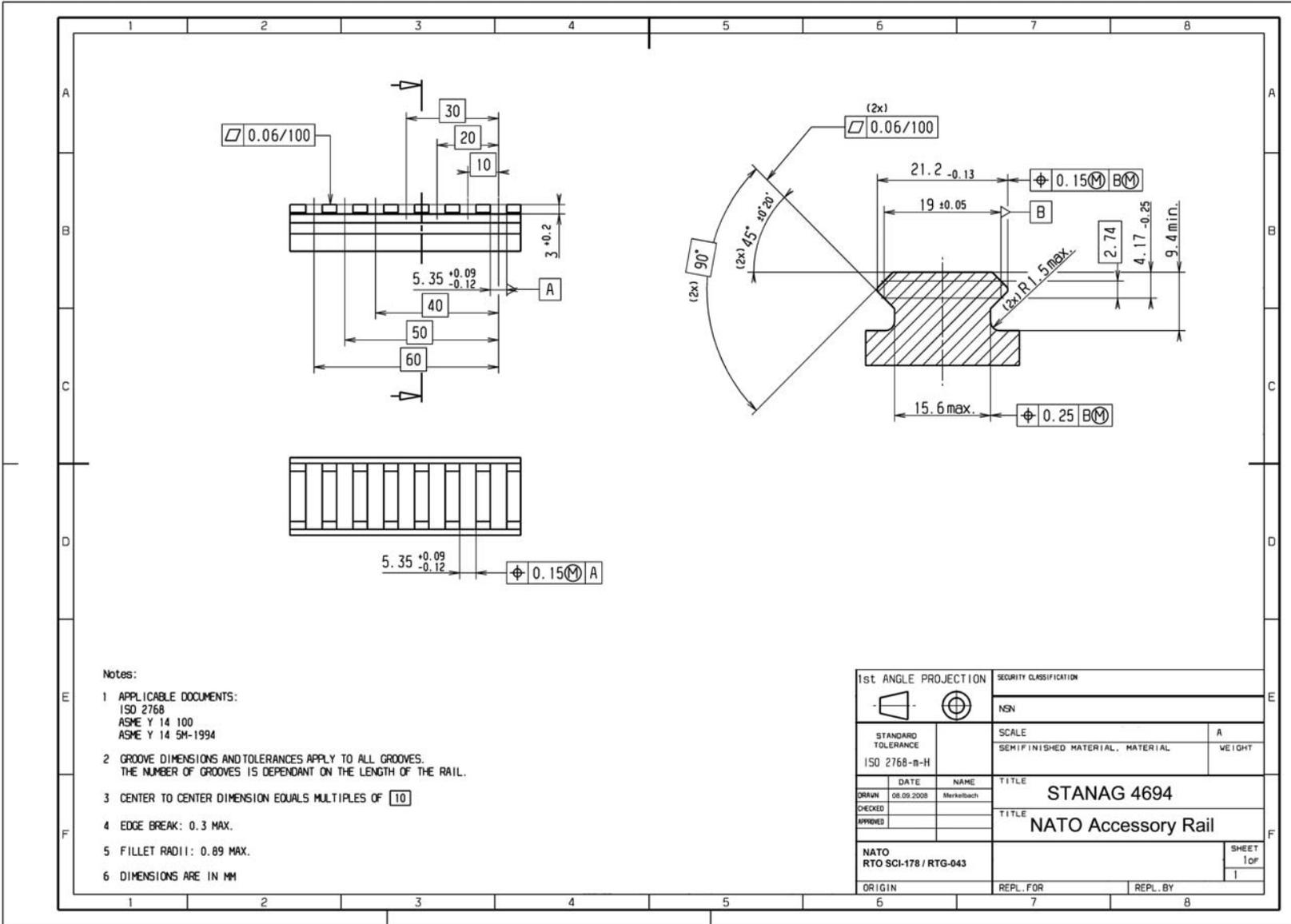
Dismounted Soldier Systems Everything the soldier wears, carries and consumes to fulfill the soldiers tasks as individuals, as members of fighting teams and as parts of higher-level operational units.

Related military technical interface specifications

US MIL-STD-1913

Related technical specifications

Dimensioning and tolerances of the accessory mounting rail for small arms shall be in accordance with ISO 2768, ASME Y 14.100, and ASME Y 14.5M-1994.



Notes:

- 1 APPLICABLE DOCUMENTS:
ISO 2768
ASME Y 14 100
ASME Y 14 5M-1994
- 2 GROOVE DIMENSIONS AND TOLERANCES APPLY TO ALL GROOVES.
THE NUMBER OF GROOVES IS DEPENDANT ON THE LENGTH OF THE RAIL.
- 3 CENTER TO CENTER DIMENSION EQUALS MULTIPLES OF 10
- 4 EDGE BREAK: 0.3 MAX.
- 5 FILLET RADII: 0.89 MAX.
- 6 DIMENSIONS ARE IN MM

1st ANGLE PROJECTION		SECURITY CLASSIFICATION	
		NSN	
STANDARD TOLERANCE ISO 2768-M-H		SCALE	A
		SEMIFINISHED MATERIAL, MATERIAL	WEIGHT
DATE	NAME	TITLE	
08.09.2008	Merkebach	STANAG 4694	
DRAWN	CHECKED	TITLE	
		NATO Accessory Rail	
NATO RTO SCI-178 / RTG-043		SHEET 1 OF 1	
ORIGIN	REPL. FOR	REPL. BY	

Recommended method to attach accessories to the NATO Accessory Rail

It is recommended that accessories (for example sight mounts) are in contact with the rail on **three sides only**. These are the top surface of the rail, and the lower angled two surfaces as shown below.

