

NATO STANDARD

AMedP-2.1

**STRETCHERS, BEARING BRACKETS
AND ATTACHMENT SUPPORTS**

Edition A Version 1

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NORTH ATLANTIC TREATY ORGANIZATION

ALLIED MEDICAL PUBLICATION

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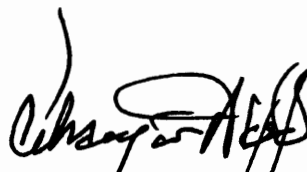
NORTH ATLANTIC TREATY ORGANIZATION (NATO)

NATO STANDARDIZATION AGENCY (NSA)

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18 November 2103

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CHAPTER 1 INTRODUCTION

1.1 AIM

The aim of this publication is to:

- a. Achieve interchangeability of stretchers used by NATO Forces.
- b. Ensure that means of suspension and fixtures used within suitable forms of transportation can receive these stretchers.
- c. Ensure that restraining aids, which safely keep the patient in the required position and prevent undue movement are available.

1.2. AGREEMENT

Participating nations agree that general purpose stretchers, bearing brackets and attachment supports used by NATO Forces will conform to the dimensions shown herein and that restraining aids will be available.

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CHAPTER 2 GENERAL

2.1. INTERCHANGEABILITY

The provisions of this publication are to be observed so that the aim of interchangeability of general purpose stretchers and the ability to secure these stretchers in various forms of transportation within NATO Forces can be attained. It is appreciated that, in addition to general purposes stretchers, special types of stretchers are required. Requirements for special stretchers are not contained in this publication. Stretchers produced in accordance with this publication must meet general requirements for airworthiness, and must be certified for the use aboard aircraft in accordance with STANAG 3204 with reference to annex E.

The means of suspension must conform with those of the type of aircraft in which the stretchers will be carried. The stretcher with its accessories, harness systems and its restraining aid must meet general requirements for roadworthiness. It must stand the acceleration and the delay of 10G in straight, diagonal and vertical direction to withstand the high accelerations that occur in crash situations. The stretcher fabric must be skid-proofed, made of material that is insensitive to environmental influences, easy to sanitize and correspond to international standards of fire safety and flame retardancy.

2.2. DEFINITIONS

The following terms and definitions are used for the purpose of this publication only:

- a. Stretcher
A type of litter which provides a rigid frame and a flat horizontal surface on which a patient or casualty can be transported in a lying position.
- b. Restraining Aid
A means of securing a patient or casualty in a required position to prevent undue movement. This term is not synonymous with the term Safety Harness described in paragraph 1.c., annex E, STANAG 3204.
- c. Means of suspension, Bearing Brackets and Attachment Supports
Means of receiving and attaching stretchers in all suitable means of transportation.

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CHAPTER 3 STATEMENT OF DETAILS

3.1. DIMENSIONS OF STRETCHERS

Frame and Support: Annex A (A.1)

3.2. DIMENSIONS OF STRETCHERS

Support and Handles: Annex A (A.2)

3.3 SUSPENSIONS SYSTEMS FITTED INSIDE A VEHICLE:

- a. The outer edges of attachment supports (slings or hooks) will be not more than 2120 mm apart.
- b. The inside edges of attachment supports will be not less than 2000 mm apart.
- c. Attachment supports shall be capable of accepting and securing handles of a maximum diameter of 40 mm and a minimum diameter of 30 mm. Closed suspension systems (slings) must have openings of 45 mm to accept 40 mm stretcher handles.

3.4 BEARING BRACKETS

- a. The outer edges of the bearing brackets will be 1065 mm apart.
- b. The brackets (traverse) shall be capable of accepting and securing stretchers having overall widths of 590 mm maximum and 540 mm minimum.

3.5 SUPPORT SYSTEMS FITTED INSIDE TRANSPORTATION:

The support systems will have the dimensions shown in a. and b. below and will be constructed so as to fulfill the requirements shown in c. and d.

- a. Channel width will be 60 mm.
- b. The distance or width between the outside edges of both supports, thickness of the edges not included (therefore the useful width) will be 590 mm.
- c. The length of the channels will be sufficient will be sufficient to accommodate the stretcher described in Annex A.
- d. The height and depth of channels are optional, but each nation will ensure that arrangements are made to secure adequately the stretcher when it is in place.

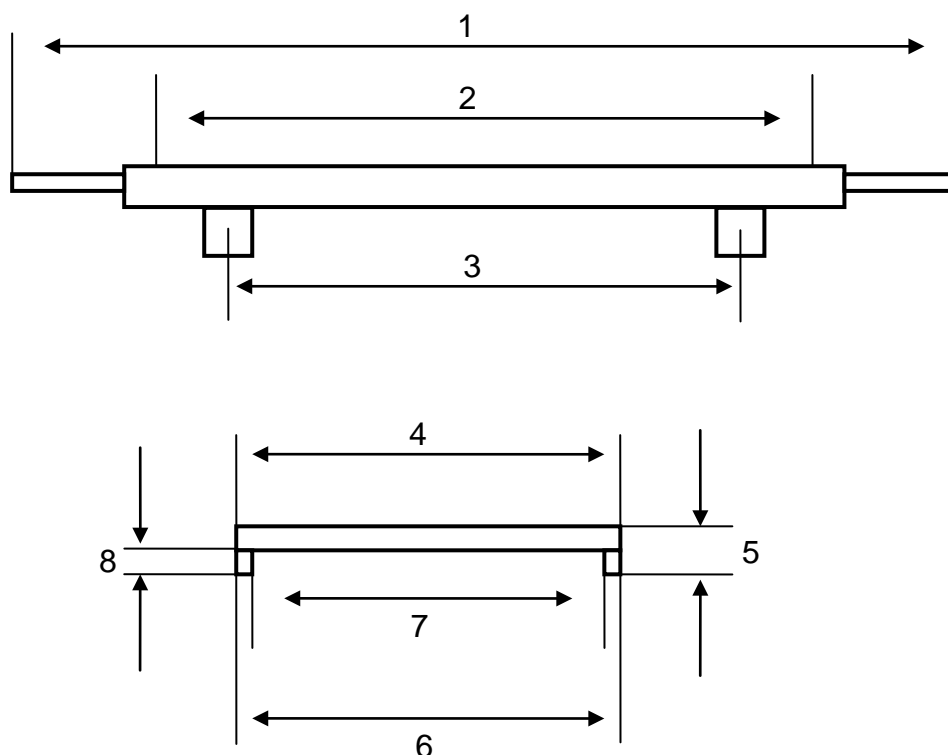
3.6 RESTRAINING AIDS:

Restraining aids (tension belts) are to be furnished with each stretcher. No specification concerning pattern, length or width of the material is prescribed. Restraining aids may be removable or firmly attached to the stretcher. They will secure the patient and a cover or rest pad to the stretcher.

Fettering devices may be used if necessary. No specifications for such devices are prescribed.

ANNEX A DIMENSIONS OF STRETCHERS

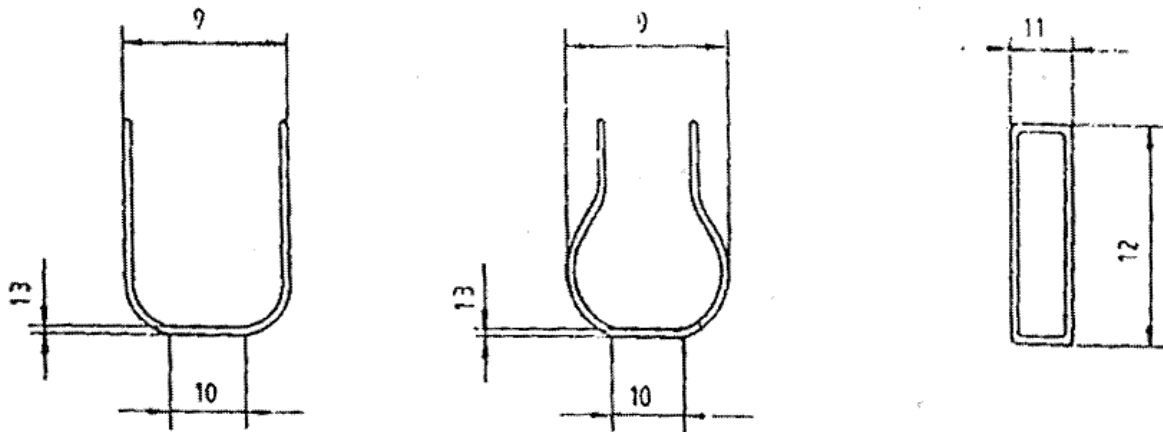
A.1. FRAME AND SUPPORT



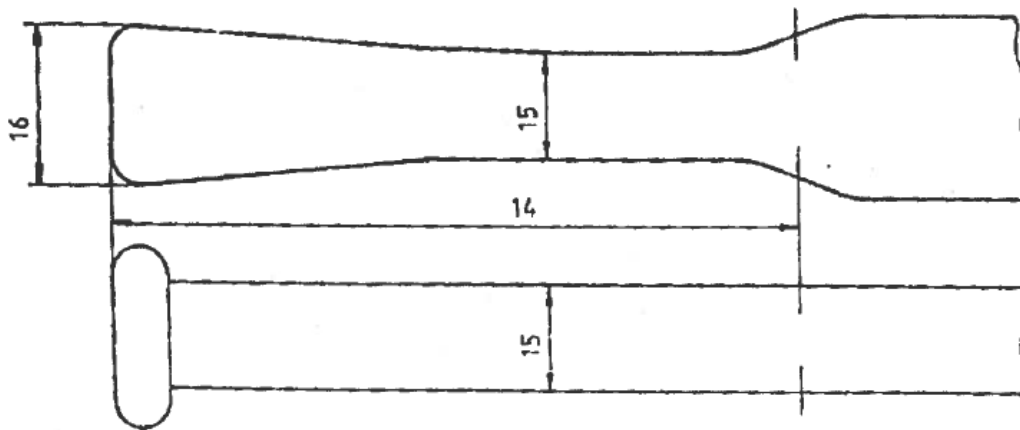
	Millimeters (1)	
1	2290 (0. - 6)	Length, overall
2	1950 (0. - 50)	Length, of the cover
3	1170 (+/- 10)	Distance, lengthwise centre to centre
4	584 (0. - 20)	Width, overall
5	Max. 171	Height
6	Max. 584	Maximum width between the outer faces of the support (2)
7	Min. 476	Minimum width between the inner faces of the support
8	Min. 30	Clearance ground – transverse joint

- Notes:
- (1) Tolerances
 - (2) Measured at the support bearings surfaces. At the height of 40 mm of the support this distance should not be longer nor shorter.

A.2. SUPPORT AND HANDLES



	Millimetres	Remarks
9	Max. 92	Length of supports overall
10	Min. 40	Length of support (bearing surface)
11	38 (0. – 6)	Width of support (bearing surface)
12	140 (0. – 30)	Height of support
13	Max. 7	Thickness of support



Section	Millimetres	Remarks
14	Min. 152	Overall handle length
15	30	Diameter minimum
16	40	Diameter maximum

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