





# NORWEGIAN DEFENCE MATERIEL AGENCY

**Technical Specification**  
**Belt, personal and pistol**

	<b>Technical specification</b>			<b>Gradering:</b> Ugradert
	<b>Belt, personal and pistol</b>			<b>Antall sider:</b> 10

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## 1 Introduction

### 1.1. Scope

This technical specification describes a belt used with field trouser that enables carrying a pistol.

### 1.2. Areas of use

The belts primary function is to hold the pistol holster and to keep field trousers in place. Secondary the belt may be used with combat gear. For a large majority of the personnel the belt will only be used to keep combat trousers up and in place. The belt will be used as a part of the soldier's everyday work uniform and field/combat uniform. Fulfilment of the technical requirements in Table 1 will determine the products suitability for the stated areas of use, and hence determine which product to be selected.

## 2 Normative References

FS 7650-2000	Generelle bestemmelser og kontrollforskrifter for teknomateriell (Appendix B-1)
FS 7650-2000E	General requirements and inspection regulations for textile materials (Appendix B-1E)
FS 7650-2004	Generelle bestemmelser for artikkelmerking og pakking (Appendix B-2)
FS 7650-2004E	General regulations for labelling items, packing and packaging labels for textiles (Appendix B-2E)
FS 8115-0084	Kasse, papp (Appendix B-3)
FS 8115-0084E	Box, cardboard (Appendix B-3E)
AECTP-230	Climatic conditions (Ed.1)
EN ISO 15025	Protective clothing – Protection against flame – Method of test for limited flame spread
AQAP 2130	NATO Quality Assurance Requirements for Inspection and Test

In the event of any differences in interpretation of the standards the Norwegian version shall take precedence over the English translation.

## 3 Clarifications

### 3.1. Terms and definitions


The following terms and definitions are applicable for this document:

#### 3.1.1 Supplier

The supplier is the ones offering products to the Norwegian Defence Materiel Agency (NDMA).

#### 3.1.2 Shall-requirement

The shall-requirement describes the minimum requirement that shall be fulfilled. Shall requirements are not subject for evaluation, but will only be graded *fulfilled* or *not-fulfilled*. Non-fulfilment of a shall-requirement will as a main rule lead to rejection of the product.

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### 3.1.3 Should-requirement

A should-requirement is a requirement that should be fulfilled for the product to be in compliance with the function and life time requirements. The fulfilment of should-requirements will be evaluated and given points.

### 3.1.4 N/A

Not applicable. No requirements given.

### 3.1.5 Documentation

Documentation is the description of the compliance or fulfilment of a requirement. The documentation can be a written confirmation, a product data sheet, a certificate or a test report. Each technical requirement will describe its need for documentation.

#### 3.1.5.1. Confirmation

A confirmation is a written statement from the supplier confirming that a requirement is fulfilled.

#### 3.1.5.2. Technical description

A description is a written document from the supplier, clearly describing how the product fulfils the specified requirement.

#### 3.1.5.3. Product data sheet

A product data sheet is a document summarizing the performance and other technical characteristics of the product.

#### 3.1.5.4. Product sample

A product sample is a sample showing the minimum quality that The Norwegian Armed Forces can expect in the event of delivery.

#### 3.1.5.5. Certificate


A document issued by a technical control organ, also called notified body, confirming that the product is in compliance with requirements given in EU/EEA directives.

#### 3.1.5.6. Laboratory testing

- A test performed by an accredited laboratory, including a test report, or
- Testing done by the Norwegian Defence Materiel Agency.

#### 3.1.5.7. User test

A representative amount of users will test the should-requirements and verify the shall-requirements. The belt will be tested and verified with relevant soldier equipment.

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## 4 Technical requirements

This section describes the technical requirements of the products, and contains shall- and should-requirements as defined in section 3.1. According to the definitions, the should-requirements will be scored according to fulfilment.


### 4.1 Requirements

Table 1 contains shall-and should requirements, that will be verified by the Norwegian Defence in accordance with the test-standard/verification stated by each requirement, and shall be documented by supplier that is fulfilled<sup>1</sup> in accordance with the documentation requested by each requirement.


Table 1

NO	QUALITY	SHALL-REQUIREMENT	SHOULD-REQUIREMENT	TEST STANDARD/VERIFICATION	DOCUMENTATION
1.	<b>Documentation</b>	All documentation <b>shall</b> be presented in Norwegian <b>or</b> English.	N/A	Visual inspection of documentation	
2.	<b>Compatibility with pistol holster</b>	Belt <b>shall</b> be able to be thread into the holster of an upgraded Glock 17/Safariland ALS. (Opening 55mm wide/8mm deep) See Model #6004-27 from Safariland for reference.	N/A	User test	Product samples
3.	<b>Compatibility with pistol holster</b>	N/A	Belt <b>should (1)</b> allow the holster to be thread on without having to remove the buckle.	User test	Product samples


<sup>1</sup> The Norwegian Defence Agency reserves the right to test the requirements of Table 1 in a laboratory if the need should arise. These tests will then be done by an accredited laboratory. In the case of any discrepancies between the submitted documentation and test reports from NDMA initiated testing, the results from the test reports will be applicable.

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NO	QUALITY	SHALL-REQUIREMENT	SHOULD-REQUIREMENT	TEST STANDARD/VERIFICATION	DOCUMENTATION
4.	<b>Stiffness</b>	Belt <b>shall</b> be stiff enough to carry pistol holster with pistol (Glock 17), 2 x filled Glock 17 magazines, hand cuffs and pepper spray without twisting or causing discomfort.	N/A	User test: will put on trousers with pistol and magazines and see that belt does not twist.	Product samples
5.	<b>Keep shape when wet</b>	Belt <b>shall</b> not alter length or stiffness when it is moist or wet.	N/A	User test: will check that wet belt does not need further tightening.	Product samples
6.	<b>Use in warm and cold weather</b>	Belt <b>shall</b> be serviceable in climate zones A2, A3, and C0.	N/A	AECTP-230 – Climatic conditions (Ed.1), or similar  Belt buckle shall not become weak or break in extreme heat or extreme cold	Product data sheet or confirmation from supplier, describing how requirement is fulfilled
7.	<b>Use in cold weather</b>	N/A	Belt <b>should (1)</b> be serviceable in climate zone C1.	AECTP-230 – Climatic conditions (Ed.1), or similar  Belt buckle shall not become weak or break in extreme cold	Product data sheet or confirmation from supplier, describing how requirement is fulfilled
8.	<b>Function</b>	N/A	Belt <b>should (1)</b> be suitable for everyday use with combat uniform.	User test: Check the belts integration with combat uniform and that belt can hold combat pants in place.	Product samples

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NO	QUALITY	SHALL-REQUIREMENT	SHOULD-REQUIREMENT	TEST STANDARD/VERIFICATION	DOCUMENTATION
9.	<b>Sizing</b>	Belt <b>shall</b> fit all Norwegian Defence personnel. Not necessarily one size fits all.	N/A	Table 2 "Body Measurement chart unisex"  Visual inspection of documentation.	Product samples Product data sheet or confirmation from supplier, describing how requirement is fulfilled
10.	<b>Sizing</b>	N/A	Belt <b>should (2)</b> be designed to fit all personnel sizes (hip width) with as few belt sizes as possible, i.e. belt with adjustment possibilities.	Table 2 "Body Measurement chart unisex"  Visual inspection of documentation.	Product data sheet or confirmation from supplier, describing how requirement is fulfilled
11.	<b>Flame retardant</b>	N/A	Belt <b>should (1)</b> be no melt/no drip	EN ISO 15025 Protective clothing – Protection against flame – Method of test for limited flame spread, or similar  Visual inspection of documentation	Product data sheet or confirmation from supplier, describing how requirement is fulfilled
12.	<b>Design</b>	N/A	Belt <b>should (1)</b> not interfere with other equipment or functions, when lying on stomach.	User test: Will put on belt and take on and off backpack, while wearing combat vest and/or ballistic protection. Will also lie down on stomach to evaluate that it does not build significantly out from body. Make sure it can be tightly fitted.	Product samples


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NO	QUALITY	SHALL-REQUIREMENT	SHOULD-REQUIREMENT	TEST STANDARD/VERIFICATION	DOCUMENTATION
13.	<b>Function</b>	N/A	Belt <b>should (1)</b> be easy to open/close to gain easy access in case of injury.	User test	Product samples
14.	<b>Noise</b>	N/A	Belt <b>should (2)</b> be silent when opening and closing, i.e. not generate much noise.	User test	Product samples
15.	<b>Signature</b>	N/A	Belt <b>should (1)</b> have as low as possible signature (visual and in the near infrared spectrum (NIR)).	User test, evaluating colours.  Visual inspection of documentation	Product samples.  Product data sheet or confirmation from supplier, describing how requirement is fulfilled
16.	<b>Comfort</b>	N/A	Belt <b>should (1)</b> not inflict injuries over time, such as blisters, chaffing or general discomfort	User test	Product samples

## 5 Drawings

This specification does not include product drawings.




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## 6 Tables of measurement

With reference to item 9 and 10 in Table 1, please see below body measurement chart.

Table 2

<b>Body measurement chart UNISEX, Norwegian Defence</b>								
Mens sizes		42/44	46/48	50/52	54/56	58/60	62/64	66/68
Womens sizes*	32/34	36/38	40/42	44/46	48/50	50/52	54/56	58/60
<b>Size</b>	<b>XX Liten/XX Small</b>	<b>X Liten/X Small</b>	<b>Liten/Small</b>	<b>Middels/Medium</b>	<b>Stor/Large</b>	<b>X Stor/X Large</b>	<b>XX Stor/XX Large</b>	<b>XXX Stor/XXX Large</b>
<b>Chest</b>	78	86	94	102	110	118	126	134
<b>Waist</b>	62	70	78	86	94	102	114	126
<b>Hip width</b>	82	90	98	106	114	122	130	138
<b>Jacket lenght</b>	72	72	75	78	81	84	84	84
<b>Sleeve lenght</b>	60	60	62	64	66	68	68	68
<b>Inner leg</b>	75	75	79	83	87	91	91	91
<b>Body hight</b>								
XX Liten/XX Small	166 cm	XXORT/XSHORT						
X Liten/X Small	166 cm	XXORT/XSHORT						
Liten/Small	174 cm	KORT/SHORT						
Middels/Medium	182 cm	NORMAL						
Stor/Large	190 cm	LANG/LONG						
X Stor/X Large	198 cm	XLANG/XLONG						
XX Stor/XX Large	198 cm	XLANG/XLONG						
XXX Stor/XXX Large	198 cm	XLANG/XLONG						
*For sizes XLITEN (XSMALL) to STOR (XLARGE) the hip width is 4 cm less and the waist is 2 cm less then the corresponding ladies size								
They will therefore often fit better in trousers in a size bigger then the jacket								

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## 7 Quality control

### 7.1 General

The products being offered and delivered shall comply with the requirements in "Produktforskriften" (Product Regulations), ref. FOR-2004-06-01-922.

### 7.2 Supplier quality control

AQAP 2130 NATO Quality Assurance Requirements for Inspection and Test

### 7.3 NDMA quality control

FS 7650-2000 Generelle bestemmelser og kontrollforskrifter for teknomateriell (Appendix B-1)  
 FS 7650-2000E General requirements and inspection regulations for textile materials (Appendix B-1E)

## 8 Packaging and labelling

FS 7650-2004 Generelle bestemmelser for artikkelmerking og pakking (Appendix B-2)  
 FS 7650-2004E General regulations for labelling items, packing and packaging labels for textiles (Appendix B-2E)  
 FS 8115-0084 Kasse, papp (Appendix B-3)  
 FS 8115-0084E Box, cardboard (Appendix B-3E)