

INCH-POUND

MIL-C-71010 (AR)  
..11 March 1994

## MILITARY SPECIFICATION

COVERS, CAMOUFLAGE FOR TILES, ARMOR, FOR THE  
M2A2/M3A2 BRADLEY FIGHTING VEHICLE SYSTEMS (BFVS)

This specification is approved for use by the U.S. Army Armament, Munitions and Chemical Command, and is available for use by all Departments and Agencies of the Department of Defense.

## 1. SCOPE

1.1 Scope. This specification covers quality assurance provisions and preparation for delivery for Covers, Camouflage for Armor Tiles for the M2A2/M3A2 BFVS. (see 6.1)

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

## SPECIFICATIONS

## MILITARY

MIL-A-48078 - Ammunition, Standard Quality  
Provisions, General Specification for

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document, should be addressed to: Commander, U.S. Army ARDEC, ATTN: SMCAR-BAC-S, Picatinny Arsenal, NJ 07806-5000 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 2350

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## STANDARDS

## MILITARY

- MIL-STD-129 - Marking for Shipping and Storage
- MIL-STD-1168 - Ammunition Lot Numbering

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from DODSSP - Customer Service, Standardization Documents Order Desk, 700 Robbins Avenue, Bldg. 4D, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publications.  
The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

## DRAWINGS (see 6.5)

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (ARDEC)

## PRODUCT DRAWINGS

- 12902739 - Cover, Camouflage, Armor Tile, Right Side, Bradley M2A2/M3A2
- 12902740 - Cover, Camouflage, Armor Tile, Left Side, Bradley M2A2/M3A2
- 12902741 - Cover, Camouflage, Armor Tile, Front, Bradley M2A2/M3A2
- 12902734 - Clip
- 12902737 - Clip Assembly
- 12902733 - Strap
- 12902742 - Cover Installations, Camouflage, Armor Tile, Bradley M2A2/M3A2

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## PACKAGING DRAWINGS

P12902739	-	Cover, Camouflage, Armor Tile, Right Side, Bradley M2A2/M3A2
P12902740	-	Cover, Camouflage, Armor Tile, Left Side, Bradley M2A2/M3A2
P12902741	-	Cover, Camouflage, Armor Tile, Front, Bradley M2A2/M3A2

(Copies of other Government documents, drawings, and publications required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained. (See contract provisions for additional precedence criteria).

## 3. REQUIREMENTS

3.1 Materials. Materials shall be in accordance with applicable drawings and specifications.

3.2 Parts. The parts shall comply with all requirements specified in the specified drawings (Dwgs) and with all associated drawings and with all requirements specified in applicable specifications.

3.3 Identification and marking. Identification and marking shall be in accordance with Standard MIL-STD-129 and as specified on applicable drawings.

3.4 Workmanship. All parts shall be fabricated in a thorough workmanlike manner. They shall be free of porosity, twist, warpage, heat marks, sinks, voids, cracks, holes, chipped edges, burrs, bubbles, blisters, burn marks, or other defects that would effect their serviceability. All metal parts shall be fabricated in a thorough workmanlike manner. They shall be free of burrs, chips, chipped edges, gouges, cracks, splits, surface defects, dirt, grease, oil, lacquer smears, and other foreign matter. The cleaning methods used shall not be injurious to any part, nor shall the parts be contaminated by the cleaning agent. All assemblies shall be assembled in a thorough workmanlike manner.

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## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as specified in the contract or purchase order, the contractor may utilize his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of Sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.2 Classification of inspection. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3)
- b. Quality conformance inspection (see 4.4)

4.3 First article inspection.

4.3.1 Submission. The contractor shall submit a first article as designated by the Contracting Officer for evaluation in accordance with Table I. The first article sample shall be of the same design as will be suitable for regular production. It shall be manufactured using the same materials, equipment, process and procedures for regular production. First article samples shall not be specifically selected as custom or marked in a way that cause the product quality to be different than what can be expected from regular production.

4.3.2 Inspection to be performed. See MIL-A-48078 and Table I.

4.3.3 Rejection. Failure of the first article sample to be in accordance with the applicable drawings, requirements and Table I will result in disapproval of the first article sample.

TABLE I. First article inspection  
 CLASSIFICATION OF CHARACTERISTICS

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PARAGRAPH	TITLE Covers, Camouflage for Armor Tiles for the BFVS	SHEET 1 OF 1		DRAWING NUMBER See below NEXT HIGHER ASSEMBLY
		CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	
	<u>Cover, camouflage, right side</u> (Dwg. 12902739)	5	3.2	4.4.2.1
	<u>Cover, camouflage, left side</u> (Dwg. 12902740)	5	3.2	4.4.2.2
	<u>Cover, camouflage, front</u> (Dwg. 12902741)	5	3.2	4.4.2.3
	<u>Clip</u> (Dwg. 12902734)	5	3.2	4.4.2.4
	<u>Clip assembly</u> (Dwg. 12902737)	5	3.2	4.4.2.5
	<u>Strap</u> (Dwg. 12902733)	5	3.2	4.4.2.6
NOTES:				

Replaces 1570, 1 Feb 85, which may not be used.

AMSMC Form 1570b, 1 Jul 89

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4.4 Quality Conformance Inspection.4.4.1 Lot formation. In accordance with MIL-A-48078.

4.4.1.1 Lot identification. Each lot of camouflage cover kits shall be identified in accordance with MIL-STD-1168.

4.4.2 Examinations and tests.

a. Classification of characteristics. Quality conformance examinations and tests are specified in the following Classification of Characteristics paragraphs. The contractor's quality program or detailed inspection system shall provide assurance of compliance of all characteristics with the applicable drawing and specification requirements utilizing as a minimum the conformance criteria specified. When cited herein, attributes sampling inspection shall be conducted in accordance with Table II below, using the inspection levels stated in the Classification of Characteristics paragraphs.

TABLE II. Attributes sampling inspection

<u>Lot Size</u>	<u>Inspection Levels</u>					
	<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>	<u>V</u>	<u>VI</u>
2 to 8	*	*	*	*	5	3
9 to 15	*	*	*	13	5	3
16 to 25	*	*	*	13	5	3
26 to 50	*	*	32	13	5	3
51 to 90	*	*	32	13	13	5
91 to 150	*	125	32	13	13	5
151 to 280	*	125	32	32	20	8
281 to 500	*	125	32	32	20	8
501 to 1200	*	125	80	50	20	13
1201 to 3200	1250	125	80	50	32	13
3201 to 10000	1250	125	125	50	32	13
10001 to 35000	1250	315	125	80	50	13
35001 to 150000	1250	315	125	80	50	13
150001 to 500000	1250	500	200	125	50	13
500001 and over	1250	500	200	125	50	13

Numbers under inspection levels indicate sample size; asterisks (\*) indicate one hundred percent inspection. If sample size exceeds lot size, perform one hundred percent inspection. Accept on zero and reject on one or more for all inspection levels.

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b. Alternative quality conformance provisions. Unless otherwise specified herein or provided for in the contract, alternative quality conformance procedures, methods or equipment, such as statistical process control, tool control, variables sampling or other types of sampling plans, etc., may be used by the contractor when they provide, as a minimum, the level of quality assurance required by the provisions herein. Prior to applying such alternative procedures, methods or equipment, the contractor shall describe them in a written proposal submitted to the Government for evaluation (see 6.7). When required, the contractor shall demonstrate that the effectiveness of each proposed alternative is equal to or better than the specified quality conformance provision(s) herein. In case of dispute as to whether the contractor's proposed alternative(s) provides equivalent assurance, the provisions of this specification shall apply. All approved alternative provisions shall be specifically incorporated into the contractor's quality program or inspection system, as applicable.

QUALITY CONFORMANCE INSPECTION  
CLASSIFICATION OF CHARACTERISTICS

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PARAGRAPH	TITLE	SHEET 1 OF 1		DRAWING NUMBER
		CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	
4.4.2.1	Cover, Camouflage, Right Side			12902739 NEXT HIGHER ASSEMBLY M2A2/M3A2 BFVS
<u>CLASSIFICATION</u>	<u>EXAMINATION OR TEST</u>			
<u>Critical</u>	None defined			
<u>Major</u> 101	Pattern incorrect or incomplete	Level V	3.2	Visual
102	Heat seal of end panels incomplete or inadequate	Level V	3.2	Visual/Manual
103	Stitching of seams incomplete or inadequate	Level V	3.2	Visual
104	Strapping or hardware missing or improperly assembled	Level V	3.2	Visual
105	Hole or tear in fabric	Level V	3.2	Visual
<u>Minor</u> 201	Evidence of poor workmanship	Level VI	3.4	Visual
<u>NOTES:</u>				



**QUALITY CONFORMANCE INSPECTION  
CLASSIFICATION OF CHARACTERISTICS**

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PARAGRAPH	TITLE	SHEET 1 OF 1		DRAWING NUMBER
4.4.2.2	Cover, Camouflage, Left Side			12902740
CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
<u>Critical</u>	None defined			
<u>Major</u>				
101	Pattern incorrect or incomplete	Level V	3.2	Visual
102	Heat seal of end panels incomplete or inadequate	Level V	3.2	Visual
103	Stitching of seams incomplete or inadequate	Level V	3.2	Visual
104	Strapping or hardware missing or improperly assembled	Level V	3.2	Visual
105	Hole or tear if fabric	Level V	3.2	Visual
<u>Minor</u>				
201	Evidence of poor workmanship	Level VI	3.4	Visual
NOTES:				

QUALITY CONFORMANCE INSPECTION  
CLASSIFICATION OF CHARACTERISTICS

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PARAGRAPH	TITLE	SHEET 1 OF 1	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
4.4.2.3	Cover, Camouflage, Front				DRAWING NUMBER 12902741 NEXT HIGHER ASSEMBLY M2A2/M3A2 BFVS
<u>CLASSIFICATION</u>	<u>EXAMINATION OR TEST</u>				
<u>Critical</u>	None defined				
<u>Major</u> 101	Pattern incorrect or incomplete		Level V	3.2	Visual
102	Stitching of seams incomplete or inadequate		Level V	3.2	Visual/manual
103	Strapping or hardware missing or improperly assembled		Level V	3.2	Visual
104	Hole or tear in fabric		Level V	3.2	Visual
<u>Minor</u> 201	Evidence of poor workmanship		Level VI	3.4	Visual
NOTES:					

QUALITY CONFORMANCE INSPECTION  
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**CLASSIFICATION OF CHARACTERISTICS**

PARAGRAPH	TITLE	SHEET 1 OF 1		DRAWING NUMBER
CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
4.4.2.4	Clip			12902734 NEXT HIGHER ASSEMBLY 12902737
<u>Critical</u>	None defined			
<u>Major</u> 101 102 103 104	Width of slot, minimum Inside radius incorrect Burr or sharp edges Protective coating incomplete or inadequate	Level V Level V Level V Level V	3.2 3.2 3.2 3.2	Gage Gage Visual/manual Visual
<u>Minor</u> 201	Evidence of poor workmanship	Level VI	3.4	Visual
NOTES:				

Replaces 1570, 1 Feb 85, which may not be used.

AMSMC Form 1570b, 1 Jul 89

QUALITY CONFORMANCE INSPECTION  
CLASSIFICATION OF CHARACTERISTICS

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PARAGRAPH	TITLE	SHEET 1 OF 1	DRAWING NUMBER	INSPECTION METHOD REFERENCE
4.4.2.5	Clip Assembly		12902734	
			NEXT HIGHER ASSEMBLY M2A2/M3A2 BFVS	
CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	
<u>Critical</u>	None defined			
<u>Major</u> 101	Length of strap between buckle and clip inside, maximum	Level V	3.2	Gage
102	Length of strap between buckle and clip, minimum	Level V	3.2	Gage
103	Stitching incomplete or inadequate	Level V	3.2	Visual
<u>Minor</u> 201	Evidence of poor workmanship	Level VI	3.4	Visual
NOTES:				

**QUALITY CONFORMANCE INSPECTION  
CLASSIFICATION OF CHARACTERISTICS**

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PARAGRAPH	TITLE	SHEET 1 OF 1	DRAWING NUMBER
4.4.2.6	Strap		12902733
			NEXT HIGHER ASSEMBLY M2A2/M3A2 BFVS
CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH
<u>Critical</u>	None defined		
<u>Major</u> 101	Heat seal of ends incomplete or inadequate	Level V	3.2
102	Length	Level V	3.2
103	Width	Level V	3.2
<u>Minor</u> 201	Evidence of poor workmanship	Level VI	3.4
			Visual Gage Gage Visual
INSPECTION METHOD REFERENCE			
NOTES:			

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4.5 Inspection equipment. The inspection equipment required to perform the inspections specified herein is identified in the "Inspection Method Reference" column of the Classification of Characteristics listings starting with 4.4.2.1. Contractor inspection equipment designs shall be submitted for Government approval as specified in the contract. Designs which provide variable measurements instead of attributes data are preferred in order to facilitate the use of statistical process control. See MIL-A-48078 and 6.4 herein.

4.6 Methods of inspection.

4.6.1 Materials, components and processes. Compliance with all requirements of section 3 of this specification shall be ascertained by current and continuing examination of inspection and test data to determine that all components (parts, subassemblies and materials) have been inspected and tested and found to comply with their respective drawing, specification or specification requirements, and that all specified manufacturing processes have been followed.

5. PACKAGING

5.1 Preservation and Packaging. Preservation and Packaging shall be performed in accordance with Special Packaging Instructions P12902739, P12902740 and P12902741.

5.2 Marking. Marking shall be in accordance with Special Packaging Instructions P12902739, P12902740 and P12902741.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The camouflage covers covered by this specification are intended for use on the Bradley Fighting Vehicle system, M2A2/M3A2.

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6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number and date of this specification.
- b. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.2).
- c. Requirements for submission of first article sample.
- d. Applicable stock number.

6.3 Consideration of data requirements. The following data requirements should be considered when this specification is applied on a contract, per the Contract Data Requirements List, DD Form 1423.

<u>Reference Paragraph</u>	<u>DID Number</u>	<u>DID Title</u>
6.4.1	DI-MISC-80043	Ammunition Data Card

6.4 Submission of contractor inspection equipment designs for approval. Submit copies of designs as required to: Commander, U.S. Army ARDEC, ATTN: SMCAR-QAT-I, Picatinny Arsenal, NJ 07806-5000. This address will be specified on the Contract Data Requirements List, DD Form 1423 in the contract.

6.5 Drawings. Drawings listed in Section 2 of this specification under the heading U.S. Army Armament, Research, Development and Engineering Center (ARDEC) may also include drawings prepared by, and identified as U.S. Army Armament, Research and Development Command (ARRADCOM), Frankford Arsenal, Rock Island Arsenal or Picatinny Arsenal drawings. Technical data originally prepared by these activities is now under cognizance of ARDEC.

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6.6 Subject term (key word) listing.

Clip assembly  
Strap

6.7 Submission of alternative quality conformance provisions.  
All contractor proposed alternative quality conformance provisions will be submitted to the Government for evaluation/approval as directed by the contracting activity.

Custodian:  
Army-AR

Preparing activity:  
Army-AR

(Project 2350-A465)



# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

## INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

**NOTE:** This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

**I RECOMMEND A CHANGE:**

1. DOCUMENT NUMBER

MIL-C-71010(AR)

2. DOCUMENT DATE (YYMMDD)

940311

3. DOCUMENT TITLE **COVERS, CAMOUFLAGE FOR TILES, ARMOR, FOR THE M2A2/M3A2 BRADLEY FIGHTING VEHICLE SYSTEMS (BFVS)**

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets if needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

7. DATE SUBMITTED (YYMMDD)

(1) Commercial  
(2) AUTOVON  
(if applicable)

8. PREPARING ACTIVITY

a. NAME

**U.S. ARMY ARDEC  
STANDARDIZATION OFFICE**

b. TELEPHONE (Include Area Code)

(1) Commercial

**201-724-6626**

(2) AUTOVON

**DSN-880-6626**

ADDRESS (Include Zip Code)

**ATTN: SMCAR-BAC-S  
PICATINNY ARSENAL, NJ 07806-5000**

**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:  
Defense Quality and Standardization Office  
6203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3468  
Telephone (703) 768-2340 AUTOVON 289-2340**