



AEROSPACE STANDARD

AS85075™

Issued 2000-03
Reaffirmed 2017-11

Tie Down Assembly, Helicopter Blade, General Specification For
FSC 1730

RATIONALE

AS85075 has been reaffirmed to comply with the SAE Five-Year Review policy.

NOTICE

This document has been taken directly from U.S. Military Specification MIL-T-85075A(AS) and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-T-85075A(AS). Any part numbers established by the original specification remain unchanged.

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Documents
Document Sharing Hub

1. SCOPE:

1.1 Scope:

This specification covers the tie down assemblies for use on helicopter blades.

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 specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

FEDERAL

QQ-C-320	Chromium Plating (Electrodeposited)
QQ-N-290	Nickel Plating (Electrodeposited)
QQ-P-416	Plating, Cadmium (Electrodeposited)
QQ-S-365	Silver Plating, Electrodeposited, General Requirements for

MILITARY

MIL-C-5541	Chemical Conversion Coatings on Aluminum Alloys
MIL-H-6875	Heat Treatment of Steel, Process for
MIL-A-8625	Anodic Coatings, for Aluminum and Aluminum Alloys
MIL-T-10727	Tin Plating, Electrodeposited or Hot-dipped, for Ferrous and Nonferrous Metals
MIL-C-26074	Coatings, Electroless Nickel, Requirements for
MIL-T-85075/1	Tie Down Assembly, Helicopter Blade, CH-46 Helicopter
MIL-T-85075/2	Tie Down Assembly, Helicopter Blade, CH-53 Helicopter

STANDARDS

MILITARY

MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U.S. Military Property
MIL-STD-143	Standards and Specifications, Order of Precedence for the Selection of
MIL-STD-704	Aircraft Electric Power Characteristics

2.1.1 (Continued):

MIL-STD-794	Part and Equipment, Procedures for Packaging and Packing of
MIL-STD-810	Environmental Test Methods
MIL-STD-831	Test Reports, Preparation of
MIL-STD-889	Dissimilar Metals

MILITARY HANDBOOKS

MIL-HDBK-5	Aerospace Vehicle Structures, Metallic Materials and Elements for
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(Copies of specifications, standards, handbooks, drawings and publications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.2 Other publications:

The following document(s) form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted shall be those listed in the issue of the DoDISS specified in the solicitation. Unless otherwise specified, the issues of the documents not listed in the DoDISS shall be the issue of the nongovernment documents which is current on the date of the solicitation.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

B633-78	Electrodeposited Coatings of Zinc on Iron and Steel, Specification for
AMS 5643	Steel Bars, Forgings, Tubing and Rings, Corrosion Resistant

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

2.3 Order of precedence:

In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS:

3.1 Specification sheets:

The individual item requirements shall be as specified herein and in accordance with the applicable specification sheets. In the event of any conflict between requirements of this specification and the specification sheet, the latter shall govern.

3.2 First article:

When specified in the contract or purchase order (see 4.3 and 6.2.1), the contractor shall furnish sample tie down assemblies for first article inspection(s) and approval. A new contractor, supplier, or manufacturer shall be required to complete a first article inspection (4.3).

3.3 Materials:

Materials used in the manufacture of tie down assemblies shall be of aircraft quality, suitable for the purpose, and shall conform to applicable Government specifications. Materials conforming to contractor's specifications may be used, provided they are equivalent to Government specifications with respect to operating characteristics and that a savings in weight or cost can be accomplished. Contractor's specifications must be satisfactory to the Government and contain provisions for adequate tests as specified herein. The use of contractor's specifications will not constitute waiver of Government inspection.

3.3.1 Metals: All metals shall be compatible with the intended temperature, functional, service and storage conditions to which the components will be exposed. The metals shall possess adequate corrosion resistant characteristics or shall be suitably protected by the use of coatings equivalent to those listed in Table I to resist corrosion which may result from such conditions as dissimilar metal combinations, moisture, and salt spray as applicable. Where not indicated, class or type is at the option of the manufacturer, subject to approval by the procuring activity. Dissimilar metals are defined in MIL-STD-889. Unless otherwise specified herein, physical properties of all metals shall meet the minimum requirements of MIL-HDBK-5.

3.3.1.1 Copper and aluminum alloys: All copper alloys except for bearing surfaces shall be suitably protected with a coating selected from Table I, except that cadmium and zinc plating shall not be used in applications subject to abrasion. Other metallic coatings, which shall have been demonstrated to be satisfactory to the Government, such as electrodeposited 85 percent tin and 15 percent cadmium alloy, may be used. All aluminum alloys shall be anodized in accordance with MIL-A-8625, type II coating, except that in the absence of abrasive conditions the anodize may be type I coating, where applicable, or may be a chemical film in accordance with MIL-C-5541.