

NOT MEASUREMENT SENSITIVE
------------------------------

MIL-L-85896(AS)  
AMENDMENT 2  
30 September 1999  
SUPERSEDING  
AMENDMENT 1  
14 April 1993

### MILITARY SPECIFICATION

#### LADDER, AIRCRAFT MAINTENANCE, ALUMINUM THREE-WAY COMBINATION (STEP, STRAIGHT AND EXTENSION), GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-L-85896(AS), dated 8 April 1988, and is approved for use by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1.2 Delete and substitute:

“1.2 Classification. Ladders shall be one of the following classes:

	Class			
	I	II	III	IV
Part Number	M85896-1	M85896-2	M85896-3	M85896-4
Storage height (Approximate) Maximum (ft)	4	5	6	7
Stepladder standing height (Approximate) Maximum (ft)	1 to 3	2 to 5	3 to 7	4 to 9
Extended standing height (Approximate) Maximum (ft)	4 to 8	6 to 12	8 to 16	10 to 20
Weight (lb) (Approximate)	32 ±2	39 ±2	45 ±2	56 ±2

MIL-L-85896(AS)  
AMENDMENT 2

PAGE 3

\* 3.2.1.1 Delete and substitute:

“3.2.1.1 Dissimilar metals. Dissimilar metals as defined in MIL-STD-889 shall be electrically insulated from one another to minimize or prevent galvanic corrosion. Insulation shall be provided by an insulating barrier such as a coat of epoxy primer conforming to MIL-PRF-23377 or corrosion inhibiting sealant conforming to MIL-PRF-81733.”

PAGE 4

3.3.2.1 Delete and substitute:

“3.3.2.1 Stepladder standing height. The standing height range of the ladder in the stepladder configuration (see figure 5a) shall be those specified in table I.”

3.3.2.2 Delete and substitute:

“3.3.2.2 Extended ladder standing height. The standing height range of the ladder in the extended configuration (see figure 5b) shall be as specified in table I.”

PAGE 5

Add the following table:

TABLE I. Configuration standing heights.

Ladder Configuration	Standing height for part numbers			
	M85896-1	M85896-2	M85896-3	M85896-45
Stepladder configuration	1 to 3 ft ±0.50	2 to 5 ft ±0.50	3 to 7 ft ±0.50	4 to 9 ft ±0.50
Extended configuration	4 to 8 ft ±0.50	6 to 12 ft ±0.50	8 to 16 ft ±0.50	10 to 20 ft ±0.50

MIL-L-85896(AS)  
AMENDMENT 2

3.4 Delete and substitute:

“3.4 Weight. The ladder assembly shall not exceed those values shown in table II.”

TABLE II. Ladder weights.

	Class			
	I	II	III	IV
Part Number	M85896-1	M85896-2	M85896-3	M85896-4
Weight	32 ±2 lb	39 ±2 lb	45 ±2 lb	56 ±2 lb

4.3.2 Delete and substitute:

“4.3.2 Inspection tests. The first article ladder shall be inspected as specified in table III. Presence of one defect shall be cause for rejection.”

4.4.4 Delete and substitute:

“4.4.4 Conformance inspection tests. Samples selected in accordance with 4.4.2 shall be tested as specified in table III.”

PAGE 9

Add the following table:

MIL-L-85896(AS)  
AMENDMENT 2

TABLE III. First article and quality conformance inspections sequence.

Sample(s)	Requirement paragraph	Inspection sequence	Test modification
First article	3.1	4.5.2	
	3.7.4	4.5.2.1	
	3.7.4	4.5.2.1.1	
	3.7.4	4.5.2.1.2	
	3.7.4	4.5.2.1.3	
	3.7.1	4.5.2.2	
	3.7.2	4.5.2.3.1	
	3.7.2	4.5.2.3.2	
	3.7.3	4.5.2.4	
	3.7.5	4.5.2.5	
	3.3.5	4.5.2.6	
	3.3.9	4.5.2.7	
	3.3.8	4.5.2.8	
3.3.7.1	4.5.2.9		
Quality conformance	3.7.2	4.5.2.3.1	Apply a load of 300 pounds
	3.7.2	4.5.2.3.2	Apply a load of 300 pounds
	3.7.5	4.5.2.5	Apply a load of 600 pounds

PAGE 10

4.5.2.3.1, sixth sentence: Delete and substitute “The maximum average deflection of both side rails shall not exceed those values in table IV.”

PAGE 11

Add the following table at the top of the page:

TABLE IV. Extended ladder maximum average vertical deflection.

	Class			
	I	II	III	IV
Part Number	M85896-1	M85896-2	M85896-3	M85896-4
Average deflection (inches)	4.4	7.6	11.6	14.8

MIL-L-85896(AS)  
AMENDMENT 2

NOTE: The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Preparing activity:  
Navy – AS

(Project 5440-0002)