Downloaded from http://www.everyspec.com

NOTICE - When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

This military standard is approved by the Department of Defense and is mandatory for all activities. Selection has all new engineering and design applications and for repetitive use should be made from this document.

FED. SUP CLASS
EDMS

[redacted]

(1) MATERIAL FOR STEP WEDGE SHALL CONSIST OF A SILVER HALIDE EMULSION, COATED ON A CLEAR FILM BASE HAVING A BASE DENSITY NOT EXCEEDING 0.04 AND WHICH WILL PRODUCE A NEUTRAL GRAY SILVER DENSITY WHEN DEVELOPED.

(2) THE SIZE OF THE STEP WEDGE SHALL BE 1 INCH X 5 1/2 INCHES, 21 STEPS, EACH MEASURING 1 INCH X 3/16 INCH AND NUMBERED FROM 1 AT MINIMUM DENSITY APPROXIMATELY .05 TO 21 AT MAXIMUM DENSITY, APPROXIMATELY 3.05.

(3) EXPOSURE OF STEP WEDGE SHALL BE ACCOMPLISHED BY MEANS OF A SENSITOMETER WITH EXPOSURE BETWEEN STEPS VARYING AS LOG 0.15 METER-CANDLE-SECOND IN EXPOSURE TIME.

(4) IN PROCESSING THE STEP WEDGE, DEVELOPMENT SHALL BE CARRIED TO A GAMMA OF 1.0 TO PROVIDE DENSITY SEPARATION OF APPROXIMATELY 0.15 FOR EACH STEP. FIXATION OF THE WEDGE SHALL BE CARRIED OUT IN ACCORDANCE WITH STANDARD PROCEDURE. WASHING TIME SHALL BE SUFFICIENT TO REDUCE THE RESIDUAL THIOSULFATE TO AN ACCEPTABLE LEVEL AS DEFINED IN AMERICAN STANDARD PH-4.8 (AMERICAN STANDARD METHOD FOR DETERMINING THE THIOSULFATE CONTENT OF PROCESSED PHOTOGRAPHIC FILM)

(5) THE STEP WEDGE SHALL BE CALIBRATED WITH A STANDARD STEP WEDGE. THE STANDARD STEP WEDGE SHALL HAVE BEEN CALIBRATED ON THE ABSOLUTE DENSITOMETER OF THE NATIONAL BUREAU OF STANDARDS WITHIN THE PRECEDING SIX MONTHS. THE STEP WEDGE SHALL BE SERIAL NUMBERED ON THE FILM, AND SHALL BE ACCOMPANIED BY A FORM BEARING THE SAME SERIAL NUMBER THAT CONTAINS THE FOLLOWING INFORMATION:

a. A TABLE OF THE CALIBRATED DENSITY VALUE FOR EACH STEP.

b. THE DATE THE STANDARD STEP WEDGE WAS CALIBRATED.

c. THE DATE THE STEP WEDGE WAS CALIBRATED.

d. MANUFACTURED BY

APPROVED 16 JUL 1962 REVISED

P.A. SIGNAL CORPS Other Cust AIR FORCE MOAMA ARMY SIGNAL CORPS NAVY BUWEPS	TITLE DENSITY STEP WEDGE	MILITARY STANDARD MS 27210
PROCUREMENT SPECIFICATION L-P-330	SUPERSEDES NONE	SHEET 1 OF 1

DD FORM 672-1 (Continued) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE