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SUPERSEDING
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MILITARY STANDARD

FASTENER TEST METHODS

METHOD 24,

RECEPTACLE TORQUE-OUT,

PANEL FASTENERS



FSC 53GP

DEPARTMENT OF DEFENSE WASHINGTON, DC 20301

Fastener Test Methods, Method 24, Receptacle Torque-Out. Panel Fasteners
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- 1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.
- 2. Beneficial comments (recommendations, additions, deletions) any any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer, Naval Air Engineering Center, Systems Engineering and Standardization Department (SESD), Code 93, Lakehurst, NJ 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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FOREWORD

This standard sets forth a standard test procedure for determining the torque-out capabilities of receptacle assemblies of structural panel fasteners.

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1. SCOPE

1.1 Applicability. This test method covers the procedure and apparatus required for testing the torque-out capability of receptacle assembly of structural panel fasteners.

2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. Unless otherwise specified, the following specifications, standards and handbooks of the issue listed in the current Department of Defense Index of Specifications and Standards (DoDISS) and the supplement thereto (if applicable), form a part of this standard to the extent specified herein.

STANDARDS

FEDERAL

GGG-W-686

Wrench, Torque

MILITARY

MS20426

Rivet, Solid, Countersunk 100 Degrees, Precision Head, Aluminum and Aluminum Alloy

(Copies of specifications, standards, handbooks, 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 officer.)

3. DEFINITIONS

Not applicable.

4. GENERAL REQUIREMENTS

4.1 Test apparatus.

4.1.1 Torque-out. Torque applied to the receptacle should be measured with a torque indicating wrench calibrated for accuracy within the limits specified by GGG-W-686. The wrench scale should be selected so that the anticipated loading is within the middle of the scale.

5. DETAIL REQUIREMENTS

5.1 Test procedure.

5.1.1 Torque-out test. Unless otherwise specified, mount receptacle assembly on rigid test plate using MS20426 AD rivets. Apply

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torque to the receptacle by means of a stud sufficiently long to avoid any clamping loading. Use torque measuring device to record test load in a clockwise direction. When subjected to required minimum values, there shall be no failure or permanent deformation visible to the unaided eye to any of the receptacle components. Failure of the attaching rivets or other specified fastener is not to be interpreted as a failure of the receptacle.

6. NOTES

6.1 Test report. The test report shall include the following data:

- a. Fastener description.
 - (1) Part number.
 - (2) Lot identification.
 - (3) Material.
 - (4) Heat treat.
 - (5) Grip length.
 - (6) Mating part.
 - (7) Measured fastener diameter.
- b. Test machine.
 - (1) Model and serial number.
 - (2) Calibration date.
- c. Ultimate load.
- d. Installation procedure.
- e. Test load and load rate.
- f. Type of failure.
- g. Method of support.
- h. Date of test.
- i. Test performed by.

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