

FOREWORD:

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

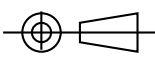
TABLE OF CONTENTS

Paragraph		Sheet
1.	SCOPE	2
1.1	Applicability	2
2.	REFERENCED DOCUMENTS	2
2.1	Government documents	2
2.1.1	Specifications, standards and handbooks	2
2.2	Industry Publications	2
3.	DEFINITIONS	2
4.	GENERAL REQUIREMENTS	2
4.1	Test apparatus	2
4.1.1	Push-out test device	2
4.1.1.1	Force gage	2
4.1.1.2	Dead weight loading	2
4.1.1.3	Deflection	2
5.	DETAIL REQUIREMENTS	2
5.1	Test procedure	2
5.1.1	Push-out test	2
6.	NOTES	3
6.1	Test report	3

FIGURE

Figure		Sheet
1	Typical push-out fixture	4

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MIL-STD-1312-22.
DESIGNATION FOR THIS TEST METHOD REMAINS MIL-STD-1312-22.

THIRD ANGLE PROJECTION		CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION NONE		TITLE FASTENER TEST METHODS METHOD 22 RECEPTACLE PUSH-OUT, PANEL FASTENERS	CLASSIFICATION STANDARD PRACTICE NAS 1312-22

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1. SCOPE

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

2. REFERENCED DOCUMENTS

- 2.1. Industry publications

Aerospace Industries Association

NASM20426 Rivet, Solid, Countersunk 100°, Precision Head, Aluminum and Titanium Columbium Alloy

Copies can be obtained from the Aerospace Industries Association, 1000 Wilson Blvd., Suite 1700, Arlington, VA 22209. www.aia-aerospace.org

3. DEFINITIONS

Not applicable.

4. GENERAL REQUIREMENTS

- 4.1. Test apparatus

- 4.1.1. Push-out test device. The push-out test device shall be capable of applying an axial force to the stud member of the receptacle assembly.

- 4.1.1.1. Force gage. A force gage capable of indicating the applied test load within an accuracy of $\pm 1\%$ may be utilized. A typical arrangement is shown in Figure 1.

- 4.1.1.2. Dead weight loading. In lieu of the force gage specified in 4.1.1.1, the "Dead Weight" loading method may be utilized to apply an axial force to the receptacle assembly.

- 4.1.1.3. Deflection. The axial deflection of the receptacle assembly with respect to the attached plate shall be measured with a dial indicator which is accurate to within .0005 inches.

5. DETAIL REQUIREMENTS

- 5.1. Test procedure

- 5.1.1. Push-out test. Unless otherwise specified, securely attach receptacle assembly to a rigid test plate by means of MS20426AD rivets. Apply push-out test load axially to the receptacle assembly through a simulated stud of the same type fastener material being tested and sufficiently long to transmit the entire test load to the receptacle components. The test load shall be applied to the head of the simulated stud until the requirement is reached. The load shall be removed and the permanent set measurement recorded. Failure of the attaching rivets is not to be interpreted as a failure of the receptacle.

2

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2

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SHEET 2