



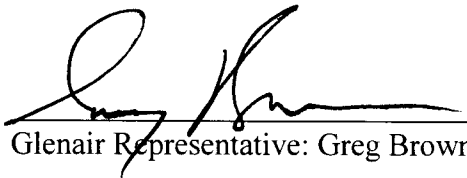
*Glenair, Inc. · 1211 Air Way · Glendale, California 91201
Telephone (818) 247-6000 · Fax (818) 543-0317*

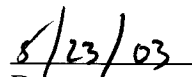
Test Report
For
Flammability
12 Second Vertical Ignition

Reference:
FAR 25.853(a), Amendment 25-83,
Appendix F, Part I, Paragraph (a)(1)(ii)

May 23, 2003

Approval Signature


Glenair Representative: Greg Brown


Date



TEST REPORT

In account with GLENAIR, INC. 1211 Air Way Glendale, CA 91201-2497	Date	05/22/2003	Page 1 of 3 Pages
	W. O. No.	T 37663	P. O. No. A31350-1211
	Identification	As noted	Shipper Letter 05/12/03

IDENTIFICATION : One (1) set of molded rubber slabs was submitted by Glenair, Inc. for determinations of 12 second vertical ignition, conducted in accordance with FAR 25.853(a), Amendment 25-83, Appendix F, Part I.

The client identified the test materials as follows:

<u>Set No.</u>	<u>Glenair Identification</u>
1	Glenair Modified Neoprene Material #EX464A

SPECIFICATION : FAR 25.853(a), Amendment 25-83, with Appendix F, Part I for ignition properties.

REFERENCE DOCUMENTS :

1. FAR Part 25, "Airworthiness Standards: Transport Category Airplanes", with Appendix F, Part I, Amendment 25-83, effective 06 March 1995.
2. DOT/FAA/AR-00/12, "Aircraft Materials Fire Test Handbook", dated April 2000.
3. Letter, from Greg Brown, Director of Engineering of Glenair, dated 13 May 2003.
4. Glenair Purchase Order No. A31350-1211, dated 13 May 2003.

As a mutual protection to clients, the public and Delsen Testing Laboratories, Inc., this report is submitted for the exclusive use of the client to whom it is addressed. This report applies only to the sample(s) tested and is not necessarily indicative of the qualities of apparently similar or identical products. Use of this report, whether in whole or in part, or of any seals or insignia connected therewith, in any advertising or publicity matter, without prior written authorization from Delsen Testing Laboratories, Inc. is prohibited.



1024 Grand Central Avenue • Glendale, California 91201-3011
 (818) 247-4106 • FAX (818) 247-4537

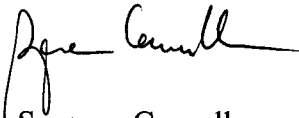


CAVEAT : The results of these tests were determined under controlled laboratory conditions and are not necessarily representative of the behavior of the material under actual fire conditions. However, the results of these tests may be used as elements of a fire risk assessment that takes into account all of the factors that are pertinent to its end use.

RESULTS : The test result averages for the above noted test articles, submitted and identified by Glenair, Inc., meet the requirements of FAR 25.853(a), Amendment 25-83, Appendix F, Part I, Paragraph (a)(1)(ii), when tested for 12 second vertical ignition per Appendix F, Paragraph (b)(1) through (b)(4).

All individual test results are presented on page 3 of this report, for the client's evaluation.

Respectfully submitted,



Suzanne Cannell

Manager, Flammability Laboratory

DELSEN TESTING LABORATORIES, INC.

sc L4D98 T 37663w

Delsen Testing Laboratories, Inc. is accredited by the American Association for Laboratory Accreditation in the field of mechanical testing, as listed in the current A2LA Directory of Accredited Laboratories and as shown on the A2LA Scope of Accreditation, Certificate No. 0096-01.

As a mutual protection to clients, the public and Delsen Testing Laboratories, Inc., this report is submitted for the exclusive use of the client to whom it is addressed. This report applies only to the sample(s) tested and is not necessarily indicative of the qualities of apparently similar or identical products. Use of this report, whether in whole or in part, or of any seals or insignia connected therewith, in any advertising or publicity matter, without prior written authorization from Delsen Testing Laboratories, Inc. is prohibited.

12 SECOND VERTICAL IGNITION

SPECIFICATION : FAR 25.853(a), Amendment 25-83, Appendix F, Part I, Paragraph (a)(1)(ii).

TEST METHOD : FAR Part 25, Amendment 25-83, Appendix F, Part I, Paragraphs (b)(1) through (b)(4).

PRECONDITIONING : 24 hours, minimum, at 70±5°F and 50±5% relative humidity.

TEST TEMPERATURE : 70±5°F

FLAME HEIGHT : 1.5 inches

FLAME TEMPERATURE : 1780±100°F

IGNITION SOURCE : CP Grade Bottled Methane

MATERIAL ID : **Glenair Modified Neoprene Material #EX464A, molded rubber slabs**

<u>SPECIMEN</u>	<u>NOMINAL WIDTH</u> inches	<u>NOMINAL LENGTH</u> inches	<u>NOMINAL THICKNESS</u> inches	<u>TIME TO EXTINGUISH</u> seconds	<u>BURNED LENGTH</u> inches	<u>DRIP TIME TO EXTINGUISH</u> seconds
1	6.0	6.0	0.0629	<1	1.1	0 (N.D.)
2	6.0	6.0	0.0631	<1	1.1	0 (N.D.)
3	6.0	6.0	0.0627	<1	1.1	0 (N.D.)
AVERAGE:				<1	1.1	0 (N.D.)
MAXIMUM ALLOWED (AVERAGE):				15	8	5

NOTE : **N.D.** indicates there was **no dripping** of flaming particles by the specimens under ignition.

RESULTS : The above test articles, submitted and identified by the client, meet the requirements of FAR 25.853(a), Amendment 25-83, Appendix F, Part I, Paragraph (a)(1)(ii) when tested for 12 second vertical ignition per FAR Part 25, Amendment 25-83, Appendix F, Part I, Paragraph (b)(4).

As a mutual protection to clients, the public and Delsen Testing Laboratories, Inc., this report is submitted for the exclusive use of the client to whom it is addressed. This report applies only to the sample(s) tested and is not necessarily indicative of the qualities of apparently similar or identical products. Use of this report, whether in whole or in part, or of any seals or insignia connected therewith, in any advertising or publicity matter, without prior written authorization from Delsen Testing Laboratories, Inc. is prohibited.



*Glenair, Inc. · 1211 Air Way · Glendale, California 91201
Telephone (818) 247-6000 · Fax (818) 543-0317*

May 13, 2003

Delsen Testing Laboratories, Inc.
1024 Grand Central Ave.
Glendale, CA 91201-3011

Attention: Ms. Suzanne Cannell: Manager, Flammability Laboratory

Subject: Twelve-Second Vertical Ignition Test

Reference: FAR 25.853(a), Amendment 25-83, Appendix F, Part I

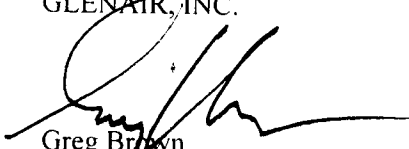
Dear Ms. Cannell:

Enclosed is purchase order #A31350-1211 to test the enclosed samples to the requirements of FAR 25.853(a), Amendment 25-83, Appendix F, Part I, paragraph (a)(1)(ii), when tested for 12-second vertical ignition per Appendix F, paragraph (b)(1) through (b)(4).

The samples provided include four (4) approximately 6X6 inch molded samples (ref: Glenair modified Neoprene material #EX464A). As a reference, this is a repeat of the testing previously performed under purchase order Y21548-1211 (dated 23 July 2002).

Upon completion, we will need a test report documenting the results of this testing. If I can answer any questions or be of any additional assistance, please do not hesitate to ask.

Very Truly Yours,
GLENAIR, INC.



Greg Brown
Director of Engineering