







AIRCRAFT FABRIC

AIRWORTHINESS NOTICE

VERSION : 2.0
DATE OF IMPLEMENTATION : 26-04-2010
OFFICE OF PRIME INTEREST : AIRWORTHINESS DIRECTORATE

	NAME	DESIGNATION	SIGNATURE
PREPARED BY	Engr AMINULLAH MENGAL	Airworthiness Surveyor	
REVIEWED BY	Engr MUNAWAR JAMAL QURESHI	GM Airworthiness (Regulation)	
VERIFIED BY	Engr MUNAWAR JAMAL QURESHI	GM Airworthiness (Regulation)	
APPROVED BY	Engr GHULAM MURTAZA	Director Airworthiness	
TYPE OF DOCUMENT	AIRWORTHINESS NOTICE (AWNOT)		
STATUS OF DOCUMENT	CONTROLLED		

A. AUTHORITY:

A1. This Airworthiness Notice has been issued under the authority vested in DG CAA vide rules 4 of Civil Aviation Rules 1994.

B. PURPOSE:

B1. This Airworthiness Notice prescribes the requirements and Airworthiness Standards regarding aircraft fabric, which has been in service for some time.

C. SCOPE:

C1. This Airworthiness Notice is applicable to all operators and organizations related to operation and maintenance of the aircraft.

D. DESCRIPTION:

D1. DEFINITIONS:

Nil

D2. GENERAL:

D2.1 Many factors can influence the life and condition of covering fabrics, such as age, contamination, exposure to high humidity, ultra violet light, utilization and type of operation for which the aircraft has been employed. The type of covering material used will also need to be ascertained as natural materials are much more susceptible to adverse climatic conditions than synthetic materials. However, the improved longevity of synthetic materials often means that internal structures are inspected much less frequently and deterioration can go undetected

D3. REQUIREMENTS:

D3.1 Aircraft fabric should be tested after having the dope removed by means of a dope thinner or acetone, after every 7 years.

D3.2 The following minimum strengths will be accepted as meeting Pakistan Standards of Airworthiness:-

D3.2.1 **Grade "A" Fabric** : Minimum Breaking Strength 56 lbs per square inch.

D3.2.2 **Intermediate Grade**: Minimum Breaking Strength 46 lbs per square inch.

D3.2.3 **Aircraft cloth for Gliders & Ultra light aircraft**: Minimum Breaking Strength 30 lbs per square inch.

D3.2.4 **Aircraft Linen DTD 540**: Minimum Breaking Strength 63 lbs per square inch.

D3.3 Testing may be carried out in accordance with the procedure set forth in U.S Federal Specification CAA-T-191A, American Society for Testing Materials Specification (ASTM) D39-99, or defined standard testing specification.

D3.4 It is the responsibility of the aircraft owner to prove that the strength of the fabric is adequate, and it meets the minimum acceptable standards.

E. EVIDENCES (ACRONYMS / RECORDS / REFERENCES):

E1. ACRONYMS:

ASTM American Society for Testing Materials

E2. RECORDS:

Nil


E3. REFERENCES:

U.S Federal Specification CAA-T-191A,
American Society for Testing Materials Specification D39-99,


IMPLEMENTATION:

This Airworthiness Notice shall be implemented with effect from 26th April, 2010 and repeals / cancels / supersedes Airworthiness Notice No. 29 issue 1, dated 23rd May, 2000.

Dated: - 26th April, 2010


(Engr. Munawar Jamal Qureshi)
General Manager Airworthiness (Regulation)
Pakistan Civil Aviation Authority

Dated: - 26th April, 2010
File No. HQCAA/ 2233/1/029/AW


(Engr. GHULAM MURTAZA)
Director Airworthiness
Director General
Pakistan Civil Aviation Authority

For