



TECHNICAL REPORT

A. V. ROE CANADA LIMITED MALTON - ONTARIO

TECHNICAL DEPARTMENT (Aircraft)

, AIRCRAFT: C105

REPORT NO. 7/0590/2003.

FILE NO

NO. OF SHEETS: 12

TITLE:

LANDING GEAR DESIGN CASES.

CONFIDENTIAL

Classification cancelled / Changed to UNCASS

AVRS By authority of

Date 305,456

Signature DS.a.

Unit / Rank / Appointment AVRS 5

AERO | M.E.

87- 12 1 0

BIBLIOTHEQUE AERO | G.M.

PREPARED BY G. L. ONTES DATE FEB 26:34

CHECKED BY

TE

SUPERVISED BY

DATE

APPROVED BY

DATE

	ISSUE NO.	REVISION NO.	REVISED BY	APPROVED BY	DATE	REMARKS
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A. V. ROE CANADA LIMITED

TECHNICAL DEPARTMENT (Aircraft)

AIRCRAFT:

C105

LANDING GEAR

PREPARED BY DATE

G. L. OATES FEB26 SH

DATE

· CONTENTS

CONFIDENTIAL

CHECKED BY

INTEDDUCTION

INTEDDUCTION

LANDING GEAR SPECIFICATIONS

GEOMETRY.

DESIGN DATA

C.G. ENVELOPE.

ENERGY ASSORPTION (MAIN UNDERCARRIAGE)

(NOSEWHEEL)

T

STRENGTH UNDER MAIN U/C LOADS

NOSEWHEEL LOADS: 11-12.

A. V ROE CANADA LIMITED MALTON - ONTARIO

TECHNICAL DEPARTMENT (Aircraft)

AIRCRAFT:

REPORT NO. 7/0590/2003

SHEET NO.

LANDING GENT

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G. L. OMTES CHECKED BY

PREPARED BY

DATE

INTRODUCTION

THE FOLLOWING REPORT IS BASED ON THE REVISED PRELIMINARY WEIGHTS, AN ASSUMED C.G. ENVELORE, (C.G. FORWARD 27% & C.G AFT 3/9, M.A.C. PRELIMINARY SEOMETRY (SEE DEG. 7-0190-0001) & COSSEICIENT OF LIET CZ = 100 FOR THE LANDING CONFIGURATION \$ 167 FOR THE THEE OFF CONFIGURATION.

ALL CASES FOR LANDING TAXYING & HANDLING CONDITIONS ARE BASED ON AMC- 12 & MIL-7-6053 A (IN ITS PRELIM LARY FORM). FOR ENDINE CONDITIONS IT IS ASSUMED THAT THE AIRCRAFT IS FULLY MLBORNE

IN OCCER TO MAKE THE NOSEWHEEL SUFFICIENTLY STRONG FOR PITCHING EFFECT, DUE TO SUPPEN BRAKING THE RESPONSE COLFFICIENT SHOULD BE GALCULATED ASSUMING THAT THE BRAKE LOAD INCREASES LINEARLY WITH INCREASE OF BLAKE PRESSURE FROM ZERO To A MAXIMUM IN 12 SECONDS, (SEE ANC-2; 7.53 a)

