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A. V. ROE CANADA LIMITED

MALTON - ONTARIO

TECHNICAL DEPARTMENT (Aircraft)

ANALYZED

AIRCRAFT: C105	REPORT No. 7/0558/50
FILE NO: CONFIDENTIAL	No. OF SHEETS:
COMPLETION	The second secon
TITLE ENGINE MANIFOLD ACCESS PANEL	
THURSE MANIFOLD MOLESS MAKEL	
	. CHEST.
1. DOOR EFFICIENCY	1-7
2. INSTABILITY STRESS FOR EDGE MEMBER	8
3. RIVETING.	9
Classification cancelled / Changed to CUCCASS	
By authority of ANES	
Date 30 Set 96 Signature Dell	AERO / M.E.
Unit / Rank / Appointment AVES	LIBRARY
	87- 32 10
	BIBLIOTHÈQUE
	AFRO I G.M.
	CNRC - ICIST
PREPARED BY C. M.	. COILEY, DATE 27-12-55
CHECKED BY	DATE
SUPERVISED BY	DATE
35. 2.732D B1	DATE.
APPROVED BY	DATE
ISSUE NO. REVISION NO REVISED BY APPROVED BY DATE REMARKS	
ISSUE NO. REVISION NO REVISED BY APPROVED BY DATE REMARKS	DATE

15867 401

A. V. ROE CANADA LIMITED MALTON . ONTARIO

TECHNICAL DEPARTMENT (Aircraft)

SHEET NO. PREPARED BY

CONFIDENTIAL

REPORT NO. 7/0558/50

AIRCRAFT: C105

ENGINE MAINFOLD ACCESS FATHER ENS UT BET

DATE GM. COILEY 23-10-1 CHECKED BY DATE

DPG Nº 7-0158-288

Door EFFICIENCY :-INITIAL LACK OF FIT OF EDLT

FROM AN STANDARDS

AN 509 - Nº 10 -32 N.F. -3A

MAX. DIA = 1890 16 4. +015

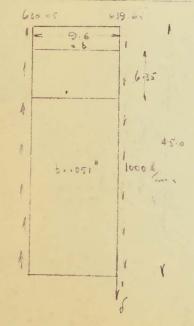
MIN DIA = 1/800

AV ROE CTANDORY TALERANCES

(CLASS I FIT HOLE + . 001) CLEMARICE HELL -0.

IF BOLT 15 DOWN AND HOLE UP :-1 - 2 400 - 4 . AIC 60 35 6045 - 1 BITTERRICK ON RED. 15 . 100225 a.

DEFLEE OF THAR PAWEL



-de 2.0259 V. 45.0-6.35 38.65 9 = 1000 x 45 = 1165 16/ 39.65

> .0259 × 1/65 × 38.65 × 9.6 3 4 Y 1 5 Y 1051 0.0562 m.

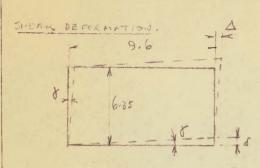
NOTE . NO TEMP SPEECTS NEED TO BE USE WITH A SPEAS FLOW OF LOOK By

A. V. ROE CANADA LIMITED MALTON . ONTARIO

TECHNICAL DEPARTMENT (Aircraft)

AIRCRAFT: ENGINE MANIFOLD ALLESS PANEL C105

REPORT NO.	
SHEET NO. 2	
PREPARED BY	DATE
CARCOLLY	23-10-15
CHECKED BY	DATE



9.68= 8 AND 6.3582 A

FOR 8 = .0562

Dz 10372 m.

COMPARING THIS DEFLECTION WITH WITHL LYCK OF FIT. of 10045 in

BOLT SLIP.

FOR J DIA BULTE TEST RESULTS - SPECIMEN 76 211

SAY SHEAR FLOW IN PANEL & 800 4.

LOAD ON ENCE 3/ PORT A 800 × 6.35 = 10206.

DET. BEARING STRANGTH D= 3 BOLT = 974×146 = 1420 8.

LOAD AT A Y AGE OF ULT = 1020 ×100 = 71140

FROM TEST RESULTS (SPECIMENTAD 211) REP RES T2, 2104

RT 42 3641 -733 SLIP FOR \$ DIA BOLT & 1013 m.

SAY SUID FOR 3/16 BOLT IS THE SAME.

OVERALL 19 32 1000 1 20 199 1986 1664

A. V. ROE CANADA LIMITED MALTON : ONTARIO TECHNICAL DEPARTMENT (Aircraft)

SHEET NO PREPARED BY DATE

AIRCRAFT:

C105

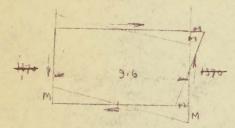
ENGINE MANIFOLD
ALLESS PANCE

CHECKED BY DATE

DOOR SURROUND

LOAD TO BE CHERIES BY SURROUND & 1000-664 \ x 6.35.

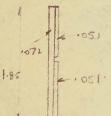
= 2130%



3M.= M = 2,130 x 9.6

BENDING SPET - HORIZONTAL MEMIERS

SAY EFFECTIVE Z = 1123 × 1.852 × .0701.



SIDE MEMBERS = 47,000 x (1.05)

2 30,70016

INSTABILITY STREET FOR . 072 DOUBLISK ..

SAY for 2 0.53 x 10.5 x 106 x (1072)2

Fey = 64,000 / 6:

RF 1.08

A. V. ROE CANADA LIMITED REPORT No. MALTON . ONTARIO SHEET NO _____5 TECHNICAL DEPARTMENT (Aircraft) PREPARED BY DATE AIRCRAFT: BUCINE MAY TOLL 24-10-11 Cy my COCLEY C 105. ACCESS PANEL CHECKED BY DATE USEING SLIP AS GIVEN FOR 3 DIR DIMBLES KILLES 1st ADPROX 5 KY LOND /111 IN DOOL & 700 5. Land /Bout a 89a Se a constant = 10212 Thy " " 1021 " 1021 x 10263 0 1420 SLIP (] = .0351 - .0263 - .0088 - .251 . .: "TOTAL 4 = 25/x 942 = 1237 2 nd Attox SAY LOND /IN = 3504/ ...

TOTAL 7 2 1678.8.9442 1640

3-x APPROX

LOND /IN . 500 R/.

LOND/LOST 2 636 R

SLIP FOR 1064 2 10130

SLIP FOR 1064 2 10163

THEN SLIP 7 = 10351 - 0163 = 10188 2 .526

10351

TOTAL 7 * 1526 × 944 = 49.6 2