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PRODUCT TEST REPORT

Fisher Body Engineering Section
 GENERAL MOTORS CORPORATION

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Report No. 111037
Procedure No. 001-00
Program Exp.
Date 3-3-71
Page 1 of 2

SUBJECT:
 Bodies - Static Roof Intrusion Tests -
 1970 and 1971 F, H, A, X, and B Styles

FOREWORD:
 The Product Testing Laboratory was asked to conduct static roof intrusion tests in accordance with the proposed roof intrusion requirement (Docket 2-6 Notice 4) issued on December 28, 1970.

- The following bodies were tested:
1. 1971 Chevrolet B-47 Production Body
 2. 1971 Chevrolet H-11 Pilot Body
 3. 1970 Pontiac F-87 Production Body
 4. 1971 Chevrolet X-27 Production Body
 5. 1970 Oldsmobile B-37 Production Body
 6. 1971 Pontiac B-45 Pilot Body

CONCLUSIONS:
 All the bodies tested failed to meet the requirements of the proposed roof intrusion requirements (Docket 2-6 Notice 4) except the X-27 Body that passed.

Reported By: D.E. Foley/jlv
 Date Test Conducted: 1-11-71
 Test Sheet Reference: 203-24

Approved by: P.J. Timinsky
 P.J. Timinsky

①

Proposed
 Peak Deflection
 Requirements

	1971 B-47		1971 B-11		1970 F-37		1971 E-27		1970 B-27		1971 B-48	
	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side
Peak Load (lbs)	3700	3000	3625	3125	3725	3375	4550	4150	4325	3125	4500	4100
Non-Fusible Deflection (Inches) at Peak Load	4.3	4.0	3.8	4.3	4.7	4.1	6.0	4.3	4.5	4.1	3.8	6.0
Lower Fusible Deflection (Inches) at Peak Load	3.3	3.0	3.0	3.8	3.7	3.1	3.6	3.0	3.1	3.0	3.0	3.0

* The side tested first
 of Peak Load requirement is 3.3 times "empty" weight or 8000 pounds, whichever is less except in body - 3200 pounds. Weight values regulated by Product, Assembly and Safety.

The 1971 and 1972 "A" models will be tested at a lower date.

Draws and photographs are on file in the log book.



1000 POUND RESISTANCE TEST
(FORM - 216)

LOG BOOK 426
TC-221067

TEST REQUEST NO. 221067

DATE 5-18-72

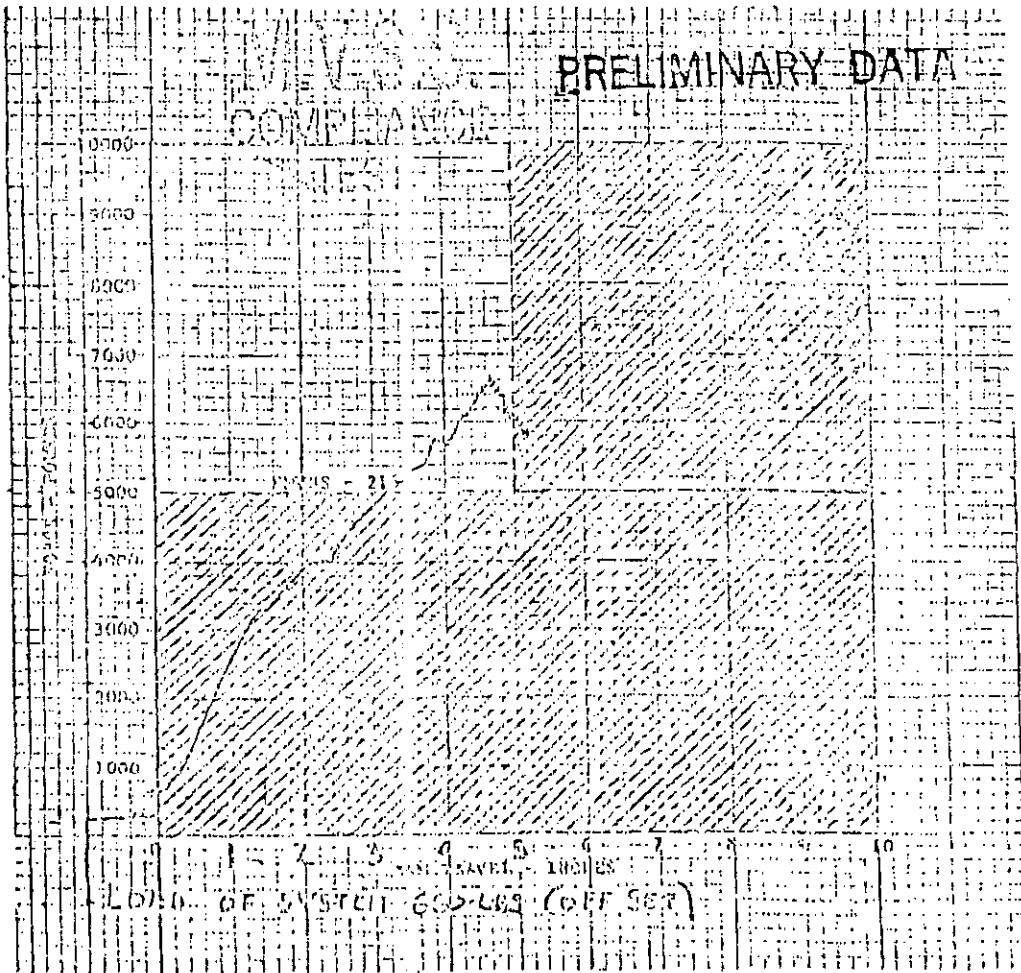
VEHICLE DESCRIPTION 1972 CHEV F-30 PRODUCTION BODY

SLAB TESTED LEFT

PEAK FORCE
(Tons) 67000

DEFLECTION
(Inches) 4.7

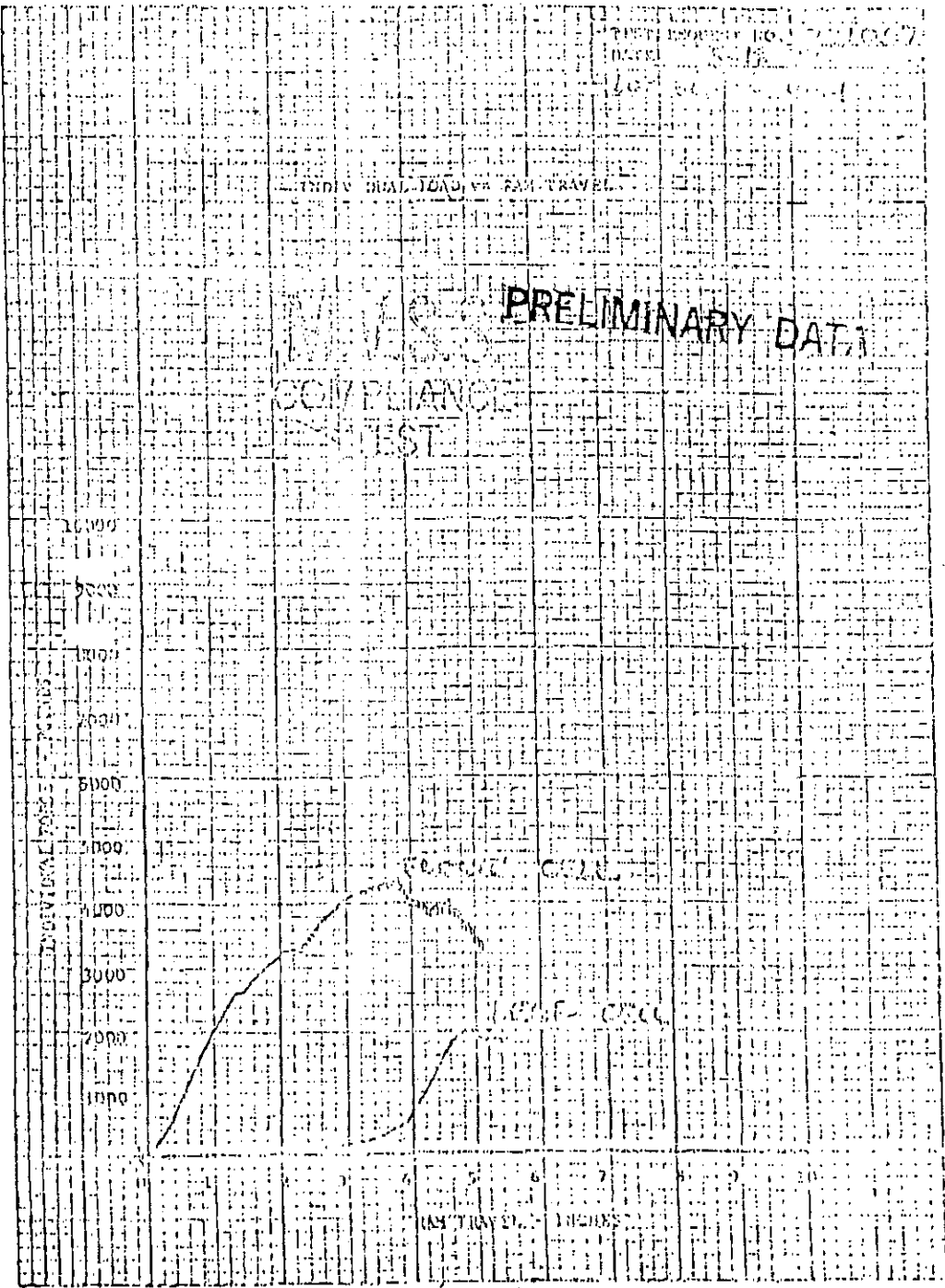
MODES OF FAILURE SEE DETACHED SHEET



TEST ENGINEER D. Foley

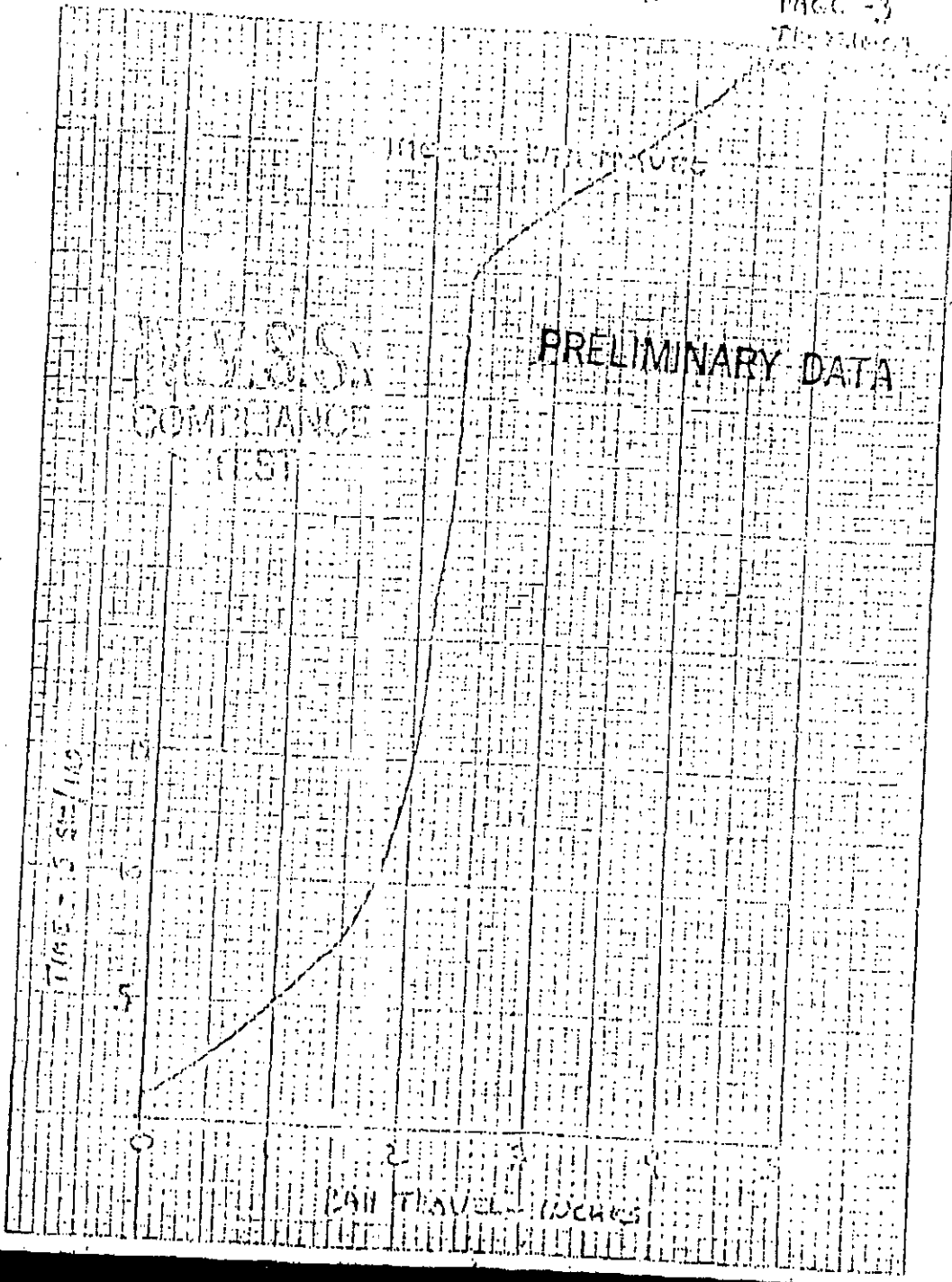
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340-12 DIVISION OF PAPER
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PRODUCT TEST REPORT

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 P.J. Timinsky - South Lab
 D.E. Foley - South Lab

Report No. 111037 A
 Procedure No. COL-00
 Program Exp.
 Date 3-23-71
 Page 1 of 2

SUBJECT:

Body - Static Roof Intrusion - 1971 Pontiac A-37

FOREWORD:

A 1971 Pontiac A-37 production body (without quarter glass) was submitted to the Laboratory by PR&S (Mr. J. Bobak) for static roof intrusion loading of both front corners of the body.

The static roof intrusion tests were conducted in accordance with the proposed roof intrusion requirement (Docket 2-6, Notice 4) issued on December 28, 1970.

This report is written as supplemental information to PTLR 111037.

CONCLUSIONS:

The 1971 Pontiac A-37 production body (without quarter glass) failed to meet the standards of the proposed roof intrusion requirement (Docket 2-6, Notice 4), issued on December 28, 1970.

RESULTS OF TESTS:

	1971 Pontiac A-37		Proposed Roof Intrusion Requirement
	Left Side	Right Side	
Peak Load (lbs)	5700 ¹	4750	5000 ²
Raw Travel Deflection (inches) at Peak Load	4.8	4.3	Within 3.0
Inner Panel Deflection (inches) at Peak Load	2.9	2.4	--

See log book for graphs and photographs.

- NOTES:
1. This side tested first
 2. The required load is 1.5 times the "empty weight" of the car or 5000 lbs, whatever is less. The weight used was supplied by PR&S.

Reported by D.E. Foley
 Date Test Conducted 3-2-71
 Log Book Reference 204-2

Approved by P.J. Timinsky
 P.J. Timinsky

RESULTS OF TESTS: (Continued)

- 3. Roof inner panel deflection is not mentioned in the proposed requirement but it was measured collinear at the deflection of the load and central to the loading pad.

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