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AIR FORCE PACKAGING EVALUATION AGENCY WRIGHT-PATTERSON--ETC F/G 13/4  
DEVELOPMENT OF DYNAMIC CUSHIONING CURVES FOR TYPE III FAST PACK--ETC(U)  
APR 78 R V BROWN

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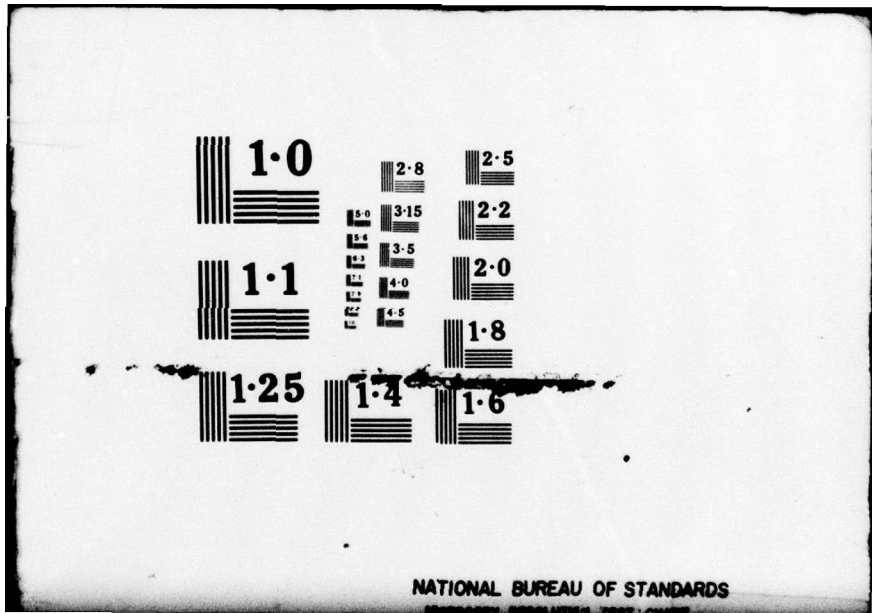
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# INTERIM REPORT

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AIR FORCE ACQUISITION LOGISTICS DIVISION  
AIR FORCE PACKAGING EVALUATION AGENCY  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

DATE 21 APR 1978 **AFALD/PTP I** REPORT NO. 78-4

**FOR FURTHER TRAN**  
14 AFPEA-78-97-4, P TPT-78-4

PROJECT NO. 78-P7-4

TITLE: 6 DEVELOPMENT OF DYNAMIC CUSHIONING CURVES FOR TYPE III FAST PACK,  
(TPO-500-8089)

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AUTHOR: 10 RICHARD V. BROWN, Mechanical Engineering Technician  
AUTOVON: 787-4234  
COMMERCIAL: (513) 257-4234

**ABSTRACT:**

1. This Fast Pack evaluation was conducted in support of the Air Force Fast Pack program to update its inventory of Type III Fast Packs.
2. This pack (TPO-500-8089) was obtained from Warner Robins Air Logistics Center (DSPC), and was constructed according to the attached Transportation Packaging Order (Atch 1). The container I.D. was 30" x 27" x 14". Convuluted polyurethane, 3 3/4" thick was used on all faces.
3. The test load was constructed of 3/4 inch thick plywood with dimensions of 24" x 21" x 8". The triaxially mounted accelerometers were located at the center of gravity (C.G.).
4. The instrumentation and general procedure used to develop the peak G-static stress curves (Atch 2) were the same as those used for testing the previous Type III Fast Packs (see DSPT Report No. 76-1). The drop height used for testing was 30 inches.

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5. The results show that this pack will protect an item approximately 24" x 21" x 8", weighing from 26 to 50 lbs., to a minimum fragility of about 30 G's. No heavier than a 50 lb. item should be packed in this container because of the sharp increase in G levels.

*Richard V. Brown*

RICHARD V. BROWN  
Mechanical Engineering Technician  
Air Force Packaging Evaluation Agency

2 Atch  
1. TPO-500-8089  
2. Peak G-Static Stress Curves

ACCESSION for	
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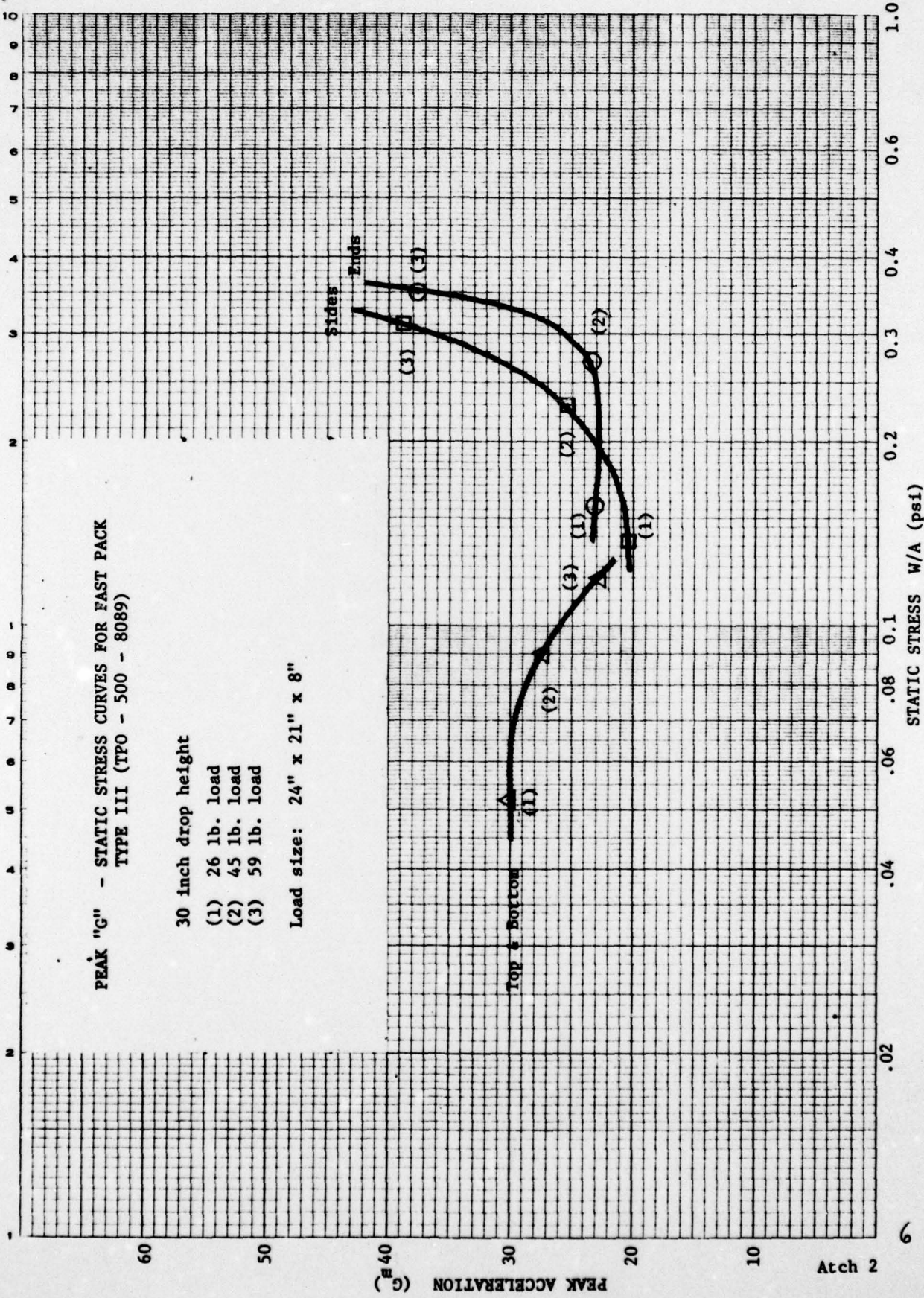


**PEAK "G" - STATIC STRESS CURVES FOR FAST PACK  
TYPE III (TPO - 500 - 8089)**

30 inch drop height

- (1) 26 lb. load
- (2) 45 lb. load
- (3) 59 lb. load

Load size: 24" x 21" x 8"



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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER PTPT Report No. 78-4 ✓	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) DEVELOPMENT OF DYNAMIC CUSHIONING CURVES FOR TYPE III FAST PACK, (TPO-500-8089) ✓	5. TYPE OF REPORT & PERIOD COVERED Interim ✓	
	6. PERFORMING ORG. REPORT NUMBER AFPEA Project No. 78-P7-4 ✓	
7. AUTHOR(s) Richard V. Brown	8. CONTRACT OR GRANT NUMBER(s)	
9. PERFORMING ORGANIZATION NAME AND ADDRESS AFALD/PTPT Wright-Patterson AFB OH 45433	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS AFALD/PTP Wright-Patterson AFB OH 45433	12. REPORT DATE April 1978 ✓	
	13. NUMBER OF PAGES 7	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) Unclassified	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Packaging; Fast Pack; Container; Cushioning Performance Curves		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Completed pack dynamic cushioning curves have been developed for the Type III Fast Pack (TPO-500-8089). General test procedures and drop height were based on Test Method 5007, "Drop Test (Free Fall)", contained in Federal Test Method Standard 101B. This container will protect an item approximately 24" x 21" x 8", weighing from 26 to 50 lbs., to a minimum fragility of about 30 G's.		

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