

TEST REPORT NO. 3065065-001
CLEMCO NO. 813104
ANSI Z89.1-2003
INITIAL TESTING OF
CLEMCO INDUSTRIES
MODEL NUMBER(S): APOLLO

RENDERED TO:
CLEMCO INDUSTRIES
ONE CABLE CAR DRIVE
WASHINGTON, MO 63090

Abstract

The protective helmet identified as a Clemco Industries Apollo, submitted by the manufacturer, was received in the pristine condition on 08/20/04, and was evaluated in accordance with the requirements of Section 9.2, Force Transmission, of ANSI Z89.1-2003 entitled, "American National Standard for Industrial Head Protection," on 09/28/04.

Details of the instrument calibration are maintained in laboratory records.

Introduction

This report describes the results of the test program conducted in accordance with the requirements of Section 9.2, Force Transmission, of ANSI Z89.1-2003 entitled, "American National Standard for Industrial Head Protection," performed on specimens submitted by the manufacturer. Intertek located in Cortland, NY conducted the test evaluations.

Product Description

Intertek received 24 production protective helmets. The test samples were identified as specimens 1C-24C.

Authorization

The test was authorized by quote number 15628699, signed by Mark Ehlert.

PERFORMANCE REQUIREMENTS**FORCE TRANSMISSION**

Method: The protective helmet was tested in accordance with Section 9.2.

Requirements: The protective cap shall transmit an average force of not more than 3781N (850 lbs.). No individual specimen shall transmit a force more than 4450N (1000 lbs.).

Results:

VELOCITY RANGE: 5.45 – 5.55 m/s (5.50 ± 0.05 m/s)

DROP HEIGHT: 60.7 inches

120 ± 3.6 °F			0 ± 3.6 °F		
SPECIMEN NO.	VELOCITY (m/s)	FORCE (lbs.)	SPECIMEN NO.	VELOCITY (m/s)	FORCE (lbs.)
1	5.56	485.19	13	5.56	577.82
2	5.56	463.14	14	5.47	661.63
3	5.47	485.19	15	5.47	621.93
4	5.56	494.02	16	5.56	617.52
5	5.56	489.60	17	5.47	643.98
6	5.56	454.32	18	5.47	643.98
7	5.47	502.84	19	5.56	696.91
8	5.47	471.96	20	5.47	573.41
9	5.47	494.02	21	5.56	591.05
10	5.56	511.66	22	5.56	595.46
11	5.56	516.07	23	5.47	811.60
12	5.47	520.48	24	5.47	621.93
AVERAGE		490.71	AVERAGE		638.10

RESULTS: COMPLIANT

Conclusion

The protective helmet identified as a Clemco - Apollo **met** the minimum performance requirements defined in Section 9.2, Force Transmission, of ANSI Z89.1-2003 entitled, "American National Standard for Industrial Head Protection".

Test Performed by:



Sara Oseid
Technician
Performance Group

Report Approved by:



Jason Allen
Project Engineer
Performance Group