

# **TEST RESULTS and REPORT**

**for**

## **Wendy's Pancake Welding Shields**

**Z Model**

by



**COLTS** | Laboratories™

Precision Testing. Definitive Results.

**COLTS Laboratories maintains A2LA accreditation to ISO/IEC 17025 for the tests listed on Certificate # 1612.01. Any tests not included on this certificate have been identified on the appropriate test result page.**

**Also Certified for testing by the Safety Equipment Institute and CSA International**

**Z-WND040815-01**

- Results in this report only relate to the samples analyzed.
- This report shall not be reproduced, except in full, without written approval from COLTS Laboratories.
- Unless otherwise requested, test samples will be discarded 21 days from the report date.

**COLTS Laboratories**

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**PRODUCT  
RESULTS  
SUMMARY**

A2LA Accredited Certificate # 1612.01

**Wendy's Pancake Welding Shields  
Z-WND040815-01**

Project ID	Test/Models(s)	Results Pass / Fail	Reason	Page
Z-WND040815-01-01	ANSI Z87.1-2010 Welding Helmet Shell Tests Annual (Major A) Z Model Black Front and Side Piece, 5/8 Lenseholder Wooden Lens Holder/Face Piece	Pass		1

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**Report  
Summary**

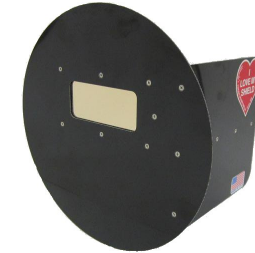
A2LA Accredited Certificate # 1612.01

**Report To:**

Wendy's Pancake Welding Shields  
7865 Terry Road  
Terry, MS 39170

**Project**

of Model(s): Z Model  
Report of: ANSI Z87.1-2010 Welding Helmet Shell Tests  
Annual (Major A)  
Project ID(s): Z-WND040815-01-01



**Attn:** David Keup

**Date:** April 24, 2015

**Product Description:** Black Front and Side Piece, 5/8 Lenseholder Wooden Lens Holder/Face Piece

On April 08, 2015, COLTS Laboratories received Welding Helmets: Z Model from Wendy's Pancake Welding Shields. From April 09, 2015 through April 24, 2015 COLTS Laboratories tested these Welding Helmets in accordance with ANSI Z87.1-2010.

**Final Conclusion:**

The Welding Helmets: Z Model (Black Front and Side Piece, 5/8 Lenseholder Wooden Lens Holder/Face Piece) do comply with ANSI Z87.1-2010 for the test(s) performed for ANSI Z87.1-2010 Welding Helmet Shell Tests Annual (Major A).

Please contact us should you have any questions concerning this report.

**Respectfully submitted,**

COLTS Laboratories

Daryl Neely  
Vice-President & COO

Dale Payne  
Technical Services Manager

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Report To: Wendy's Pancake Welding Shields

Project No: Z-WND040815-01-01



Sample ID:

Z Model

Black Front and Side Piece, 5/8 Lenseholder Wooden Lens  
Holder/Face Piece

A2LA Accredited Certificate # 1612.01

Report Date: 4/24/2015

Lab Temp (C): 23

Lab Rh: 53

## Report of: ANSI Z87.1-2010 Welding Helmet Shell Tests Annual (Major A)

Test/Property	Paragraph	Requirement	Test Results	Acceptance
Frames and Shells	6.1.2	Frames and shells shall meet the requirements for high mass impact and high velocity impact if they are impact-rated. These components shall be tested as a complete device and for frames and shells to be used with prescription lenses, shall be fitted with representative test lenses. Frames and shells are exempt from the penetration requirement.		
		Frames and Shells	Acceptable	Pass
Lateral (Side) Coverage	6.1.3	When tested in accordance with Section 9.10, impact rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5mm (0.06 in.) in diameter) from the vertical plane of the lenses tangential to a point not less than 10 mm (0.394 in.) posterior to the corneal plane and not less than 10 mm (0.394 in.) in height (or 8 mm (0.315 in) for the smaller headform) above and not less than 10 mm (0.394 in.) in height (or 8 mm (0.315 in) for the smaller headform) below the horizontal plane centered on the eyes of the headform. The probe shall not contact the headform within the defined coverage area.		
		Lateral (Side) Coverage	Acceptable	Pass
High Mass Impact	6.2.2	When tested in accordance with Section 9.11, the complete device shall be capable of resisting an impact from a pointed projectile weighing 500 g (17.6 oz.) dropped from a height of 127 cm (50.0 in.).		
		Left Eye Sample 1	Acceptable	Pass
		Left Eye Sample 2	Acceptable	Pass
		Right Eye Sample 3	Acceptable	Pass
		Right Eye Sample 4	Acceptable	Pass
High Velocity Impact (Welding Helmets)	6.2.3	When tested in accordance with Section 9.12, the complete device shall be capable of resisting impact from a 6.35 mm (0.25 in) diameter steel ball traveling at 150 feet per second. No contact with the eye of the headform is permitted as a result of impact.		
		Left Eye Center	148 fps	Pass
		Left Eye 30°	153 fps	Pass
		Right Eye Center	149 fps	Pass
		Right Eye 30°	150 fps	Pass
		One Side 90° at 10mm Above (H - 8mm)	149 fps	Pass
		Opposite Side 90° at 10mm Below (H - 8mm)	153 fps	Pass

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Report To: Wendy's Pancake Welding Shields  
Project No: Z-WND040815-01-01



Sample ID:  
Z Model  
Black Front and Side Piece, 5/8 Lenseholder Wooden Lens  
Holder/Face Piece

A2LA Accredited Certificate # 1612.01

Report Date: 4/24/2015

Lab Temp (C): 23

Lab Rh: 53

## Report of: ANSI Z87.1-2010 Welding Helmet Shell Tests Annual (Major A)

Test/Property	Paragraph	Requirement	Test Results	Acceptance
Devices with Lift Fronts	6.3.1	Complete devices with lift fronts shall be impact tested with the lift front in the "up" position. Lift front in "up" position.	N/A	N/A