



Republic of the Philippines  
**DEPARTMENT OF LABOR AND EMPLOYMENT**  
**Occupational Safety and Health Center**  
North Avenue Corner Agham Road, Diliman, Quezon City



**SAFETY CONTROL DIVISION**  
**PPE TESTING AND ASSESSMENT**  
**PROTECTIVE HELMET TEST RESULTS**

Request Reference Code:

**PPE-HHAT-2017-015**

**FM-SCD-PPE-015**

<b>BRAND NAME</b>	DELTAPLUS	<b>MODEL</b>	DIAMOND V
<b>MANUFACTURER</b>	DELTA PLUS PHILIPPINES, INC.		
<b>ADDRESS</b>	2nd FLOOR, NO. 83 FELIX MANALO ST., CUBAO, QUEZON CITY		
Shell Material: <u>ABS</u>		Shell Color: <u>WHITE with silver stripe</u>	<b>Remarks:</b> Testing Standard:  Occupational Safety and Health Standards Rule 1080: Personal Protective Equipment and Devices  <b>Based on ANSI/ISEA Z89.1 - 2014</b>  American National Standard For Industrial Head Protection  <b>Note: SPECIMENS SHALL MEET ALL TESTING CRITERIA AS REQUIRED FOR THE SPECIFIED TYPE AND CLASS.</b>
Harness Type: <u>6-point - Push Rail Type Adjustment</u>		Harness Material: <u>LDPE + Nylon</u>	
Headband Material: <u>Black Fabric</u>			
Fitting Method of Suspension System:		<input checked="" type="checkbox"/> Fitting-in Type <input type="checkbox"/> String Fitting Type <input type="checkbox"/> Rivet Fitting Type	
Other Information: <u>Hard hat provided without chin strap</u>			

**A. FORCE TRANSMISSION TEST**

Specimen Number	Crown Clearnace mm	Weight of Helmet grams	Transmitted Force kgf	Average Transmitted Force, kgf	Remarks	Criteria
1	41	373.96	277	265	PASSED	Individual specimen shall not transmit a force exceeding 454 kgf. Average transmitted force shall not exceed 386 kgf.
2	41	371.60	274			
3	39	368.42	244			

**B. APEX PENETRATION TEST**

Specimen Number	Crown Clearnace mm	Weight of Helmet grams	Observations	Remarks	Criteria
1	40	369.89	No contact of the test pin on the headform.	PASSED	The penetrator shall not make contact with the top of the test headform.
2	39	370.72			
3	40	373.31			

**C. ELECTRICAL RESISTANCE TEST**

Specimen Number	Test Voltage V-AC	Leakage Current mA	Remarks	Criteria
1	2,200	1	PASSED "CLASS G"	Class E Helmets shall be able to withstand 20,000 volts proof-test voltage with no more than 9 mA leakage current. Class G Helmets shall be able to withstand 2,200 volts proof-test voltage with no more than 3 mA leakage current. Class C Helmets are not intended to provide protection against contact with electrical hazards
2	2,200	1		





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<b>D. FLAMMABILITY TEST</b>				
<b>Specimen Number</b>	<b>Flame Exposure Duration secs</b>	<b>Observations</b>	<b>Remarks</b>	<b>Criteria</b>
<b>1</b>	<b>5</b>	<b>No visible flame</b>	<b>PASSED</b>	<b>No flame shall be visible 5 seconds after removal of the test flame.</b>
<b>COMMENTS:</b>  The specimens passed the requirements of ANSI/ISEA Z89.1 - 2014 for Type I, Class G.				

Test Conducted By:

*Vinia O. Cadelina*

**VINIA O. CADELINA**  
Engineering Assistant

*Engr. Ramon B. Fernando*

**ENGR. RAMON B. FERNANDO**  
Engineer II

Noted By:

*C.T.M. X*

**ENGR. CONCEPCION T. STO. TOMAS**  
Chief, Safety Control Division

Date:

**24 MAY 2017**

*Engr. Jose Maria S. Batino*

**ENGR. JOSE MARIA S. BATINO**  
Deputy Executive Director