



中国认可
国际互认
检测
TESTING
CNAS L0167

Test Report

No.: GZHL250401218601HM

Date: Jul 17, 2025

Page 1 of 14

NEW WISDOM INVESTMENT LIMITED
ROOM 1003, 10/F, TOWER 1, LIPPO CENTRE, 89 QUEENSWAY, ADMIRALTY, HONG KONG

Sample Description : INDUSTRIAL SAFETY HARD HAT

Client Reference Information : WISDOM HH-IG-HDPE-4WE, WISDOM HH-IG-HDPE-5WE
WISDOM HH-IG-HDPE-4RD, WISDOM HH-IG-HDPE-5RD
WISDOM HH-IG-HDPE-4BK, WISDOM HH-IG-HDPE-5BK
WISDOM HH-IG-HDPE-4OE, WISDOM HH-IG-HDPE-5OE
WISDOM HH-IG-HDPE-4YW, WISDOM HH-IG-HDPE-5YW
WISDOM HH-IG-HDPE-4BN, WISDOM HH-IG-HDPE-5BN
WISDOM HH-IG-HDPE-4GN, WISDOM HH-IG-HDPE-5GN
WISDOM HH-IG-HDPE-4BE, WISDOM HH-IG-HDPE-5BE
WISDOM HH-IG-HDPE-4MX1, WISDOM HH-IG-HDPE-5MX1
WISDOM HH-IG-HDPE-4MX2, WISDOM HH-IG-HDPE-5MX2
WISDOM HH-IG-HDPE-4MX3, WISDOM HH-IG-HDPE-5MX3
WISDOM HH-IG-HDPE-4MX4, WISDOM HH-IG-HDPE-5MX4

Item No. : WISDOM HH-IG-HDPE-4WE

Size : 53cm-64cm

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Apr 02, 2025

Test Performing Date : Apr 02, 2025 to Jul 17, 2025

Test Performed : ANSI/ISEA Z89.1-2014(R2019)

Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joe Chow
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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
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Test Conducted: Based on **ANSI/ISEA Z89.1-2014(R2019)** American National Standard for Industrial Head Protection

Number of Tested Sample: 30 piece(s)

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
5	Accessories and Replacement Components Accessories or replacement components, when installed, shall not cause the helmet to fail the requirements of this standard. The entity claiming that an accessory or replacement component, when installed, does not cause the helmet to fail the requirements of this standard is responsible for providing justification upon request.	not provided
6	Instructions and Marking	
6.1	Each helmet shall be accompanied by manufacturers' instructions explaining the application(s) of use, proper method of size adjustment and fitting (including, if applicable, reverse wearing) and, guidelines for care and useful service life. NOTE: Useful service life guidelines are intended to provide the user with information that certain conditions may affect a specific helmet's continued protection over time. A specific service life, defined in terms of number of years, is not required though individual manufacturers may choose to include such information for their respective helmets.	Pass
6.2	Each helmet shall bear permanent markings in at least 1.5 mm (0.06 in.) high letters stating the following information: a. Name or identification mark of the manufacturer. b. The date of manufacture. c. The American National Standard designation, ANSI/ISEA Z89.1-2014. d. The applicable Type and Class designations, followed by applicable optional criteria markings; e. The approximate headsize range (see Table 2).	Pass
6.3	If optional performance features are satisfied, the appropriate marking below shall be applied in the sequence as specified below:  - Reverse donning; LT - Lower temperature HV - High visibility HT - Higher temperature The size of the reverse donning symbol shall be large enough to be legible.	NT
7	Performance Requirements	
7.1	Requirements for Type I and Type II Helmets	
7.1.1	Flammability Helmets shall be tested in accordance with Section 10.1. No flame shall be visible 5 seconds after removal of the test flame.	Pass See Annex 4



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Clause	Test Method/Requirement	Result
7.1.2	Force Transmission Helmets shall be tested in accordance with Section 10.2 and shall not transmit a force to the test headform that exceeds 4,450 N (1,000 lbf). Additionally, for each preconditioning specified, the maximum transmitted force of individual test samples shall be averaged. The averaged values shall not exceed 3,780 N (850 lbf).	Pass See Annex 2
7.1.3	Apex Penetration Helmets shall be tested in accordance with Section 10.3. The penetrator shall not make contact with the top of the test headform.	Pass See Annex 3
7.1.4	Electrical Insulation Requirements	
7.1.4.1	General Class G and Class E helmets shall meet their appropriate performance requirement as listed below. Class C helmets are not tested for electrical insulation.	Class G
7.1.4.2	Class G Requirements Class G helmets shall be tested in accordance with Section 10.7 and shall withstand 2,200 volts (root mean square) AC, 60 hertz, for 1 minute. Leakage shall not exceed 3 milliamperes.	Pass See annex 1
7.1.4.3	Class E Requirements After first passing the force transmission test specified in Section 7.1.2, Class E helmets shall be tested in accordance with Section 10.7 and shall withstand 20,000 volts (root mean square) AC, 60 hertz, for 3 minutes. Leakage shall not exceed 9 milliamperes. At 30,000 volts, the test sample shall not burn through.	NA
7.2	Additional Requirements for Type II Helmets	
7.2.1	Impact Energy Attenuation Type II helmets shall be tested in accordance with Section 10.4. Maximum acceleration shall not exceed 150g.	NA
7.2.2	Off-center Penetration Type II helmets shall be tested in accordance with Section 10.5. For each helmet tested, the penetrator shall not make contact with the test headform.	NA
7.2.3	Chin Strap Chin straps shall be made of material not less than 12.7 mm (0.50 in.) in width. Type II helmets which are provided with chin straps shall be tested for retention in accordance with Section 10.6. For each helmet tested,, the chin strap shall remain attached to the helmet. The residual elongation of the strap shall not exceed 25 mm(1.0 in.).	NA
7.3	Requirements for Optional Features	
7.3.1	Reverse Wearing Type I Helmets that are to be marked with the reverse wearing marking shall pass the force transmission test when mounted in the reverse position on the headform. Type II Helmets that are to be marked with the reverse wearing mark shall pass the force transmission, impact attenuation, and off-center penetration tests when mounted in the reverse wearing position on the test headform.	NA



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Clause	Test Method/Requirement	Result																																					
7.3.2	High-Visibility When measured in accordance with Section 10.8, helmets marked “HV” for high-visibility shall demonstrate, for the appropriate color in Table 1: a. Chromaticity that lies within one of the sets of coordinates in Table 1 b. Total luminance factor (Y expressed as a percentage) that meets or exceeds the corresponding minimum value in Table 1. Table 1. Color, High-Visibility Helmets	NA																																					
	<table><tr><th rowspan="2">Color</th><th colspan="2">Chromaticity coordinates</th><th>Minimum total luminance factor</th></tr><tr><th>x</th><th>y</th><th>Y (%)</th></tr><tr><td rowspan="4">Fluorescent yellow-green</td><td>0.387</td><td>0.610</td><td rowspan="4">70</td></tr><tr><td>0.356</td><td>0.494</td></tr><tr><td>0.398</td><td>0.452</td></tr><tr><td>0.460</td><td>0.540</td></tr><tr><td rowspan="4">Fluorescent orange-red</td><td>0.610</td><td>0.390</td><td rowspan="4">40</td></tr><tr><td>0.535</td><td>0.375</td></tr><tr><td>0.570</td><td>0.340</td></tr><tr><td>0.655</td><td>0.344</td></tr><tr><td rowspan="4">Fluorescent red</td><td>0.655</td><td>0.344</td><td rowspan="4">25</td></tr><tr><td>0.570</td><td>0.340</td></tr><tr><td>0.595</td><td>0.315</td></tr><tr><td>0.690</td><td>0.310</td></tr></table>		Color	Chromaticity coordinates		Minimum total luminance factor	x	y	Y (%)	Fluorescent yellow-green	0.387	0.610	70	0.356	0.494	0.398	0.452	0.460	0.540	Fluorescent orange-red	0.610	0.390	40	0.535	0.375	0.570	0.340	0.655	0.344	Fluorescent red	0.655	0.344	25	0.570	0.340	0.595	0.315	0.690	0.310
	Color			Chromaticity coordinates		Minimum total luminance factor																																	
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	0.595	0.315																																					
	0.690	0.310																																					

Remark:

1. NA = Not applicable.
2. NT = Not tested as per client's request.
3. Clause 7.3.2 is not within CNAS accreditation testing scope of the lab.
4. Except for clauses 7.1.1, other content of test report is extracted from the test report number GZHL250401218501HM.



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Test Report

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Date: Jul 17, 2025

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Item No: WISDOM HH-IG-HDPE-4WE Size: 53-64 cm Test headform: M (ISO) Type: I Class: G

Annex-1: Electrical Insulation test

Test Specification: ANSI/ISEA Z89.1-2014 -10.7

Ambient temperature at time of test: 22.0 °C

Sample No.	alternating current	Root mean square voltage	Leakage (milliamperes)	Result
1	60-Hertz	2,200 volts	0.41	Pass
13	60-Hertz	2,200 volts	0.42	Pass

Annex-2: Force Transmission test (Test headform: Size 7)

Test Specification: ANSI/ISEA Z89.1-2014 -10.2

Ambient temperature at time of test: 22.0 °C

Sample No.	Condition	Impact site	Velocity (m/s)	Peak force (N)	Requirement for single value	Result	Mean value (N)	Requirement for mean value	Result
1	Hot	Crown	5.51	2662.1	≤4,450 N (1,000 lbf)	Pass	2753.7	≤3,780 N (850 lbf)	Pass
2			5.50	2873.6		Pass			Pass
3			5.54	2856.0		Pass			Pass
4			5.55	2685.6		Pass			Pass
5			5.51	2797.3		Pass			Pass
6			5.55	2938.3		Pass			Pass
7			5.55	2932.4		Pass			Pass
8			5.52	2726.7		Pass			Pass
9			5.50	2532.8		Pass			Pass
10			5.45	2556.3		Pass			Pass
11			5.55	2803.1		Pass			Pass
12			5.52	2679.7		Pass			Pass
13	Cold		5.55	3268.1		Pass	3394.6		Pass
14			5.50	3745.1		Pass			Pass
15			5.55	3929.9		Pass			Pass
16			5.55	3637.6		Pass			Pass
17			5.50	3613.2		Pass			Pass
18			5.51	3361.5		Pass			Pass
19			5.52	3873.0		Pass			Pass
20			5.52	3182.9		Pass			Pass
21			5.52	3314.4		Pass			Pass
22			5.48	2697.3		Pass			Pass
23			5.55	2720.9		Pass			Pass
24			5.53	3390.8		Pass			Pass



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Annex-3: Apex Penetration test

Test Specification: ANSI/ISEA Z89.1-2014 -10.3

Ambient temperature at time of test: 22.0 °C

Sample No.	Condition	Test Site	Velocity (m/s)	Test description	Result
25	Hot	Crown	6.9	Not contact the test block	Pass
26			7.0	Not contact the test block	Pass
27			7.1	Not contact the test block	Pass
28	Cold		7.0	Not contact the test block	Pass
29			7.0	Not contact the test block	Pass
30			6.9	Not contact the test block	Pass

Annex 4: Flammability test

Test Specification: ANSI/ISEA Z89.1-2014 -10.1

Ambient temperature at time of test: 22.0 °C

Sample No.	Test description	Result
12	No flame shall be visible 5 seconds after removal of the test flame.	Pass

Sample Photo(s):





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Sample	
Front view	

Side view	
Back view	



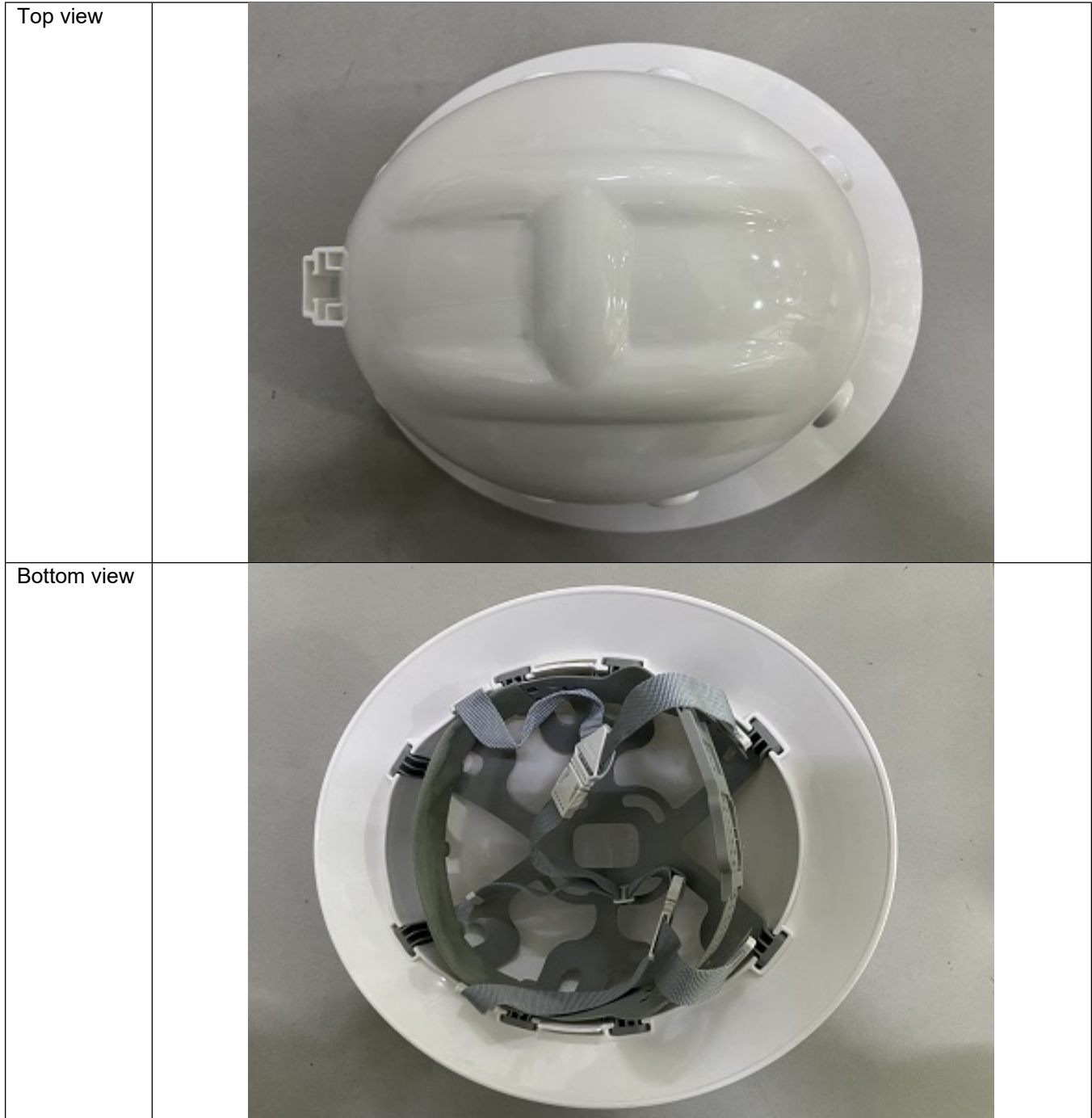
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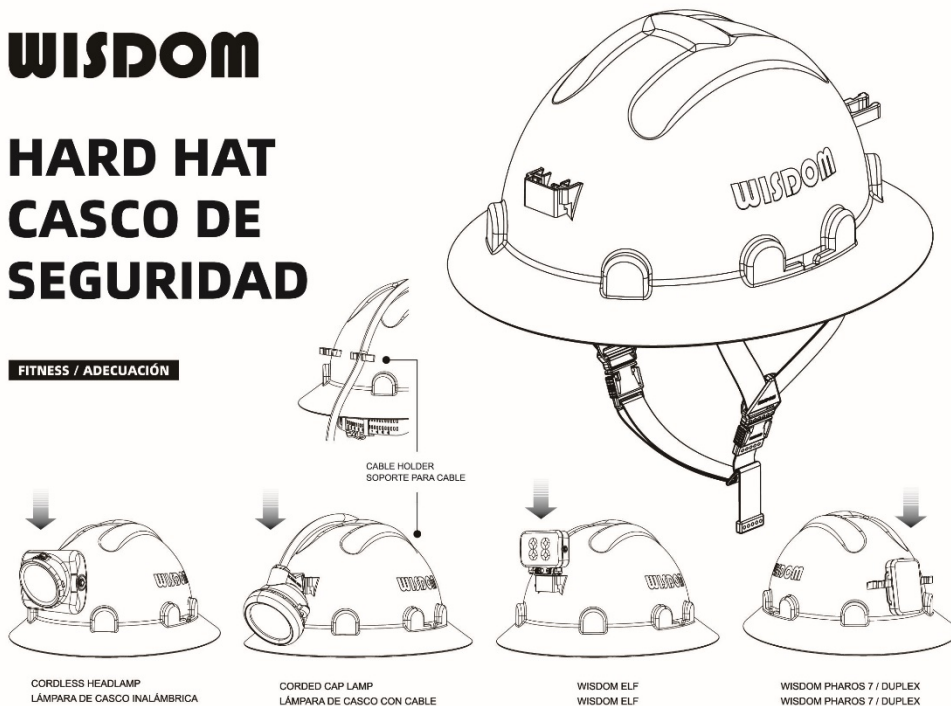
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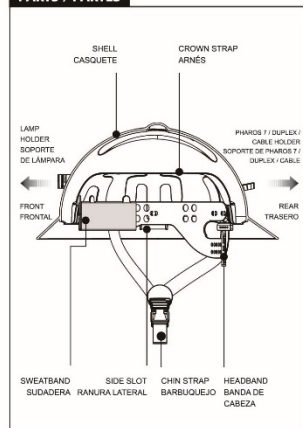
Instructions

WISDOM HARD HAT CASCO DE SEGURIDAD

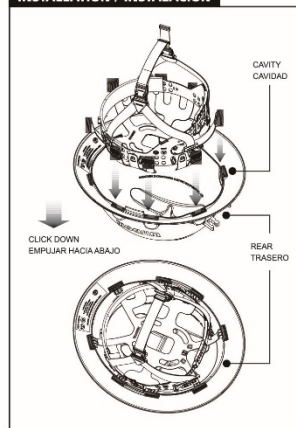
FITNESS / ADECUACIÓN



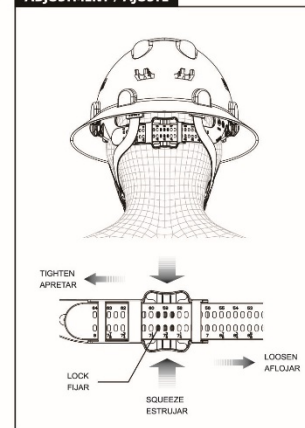
PARTS / PARTES



INSTALLATION / INSTALACIÓN



ADJUSTMENT / AJUSTE



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Instructions

USER INSTRUCTIONS / INSTRUCCIONES DE USO

⚠ WARNING

READ ALL INSTRUCTIONS AND WARNINGS BEFORE USE. Failure to follow these instructions and warnings may result in serious personal injury, including death.

- This hard hat provides limited impact and penetration protection to the top of the head.
- It is not specifically designed to protect against front, side or rear blows. (Not designed for lateral protection)
- This hard hat must fit securely on the head to provide maximum protection.
- Only utilize the WISDOM suspension liner that is provided with. Other liners may fit in hard hat but may not provide the appropriate level of protection.
- Never store gloves, cigarettes, earplugs, etc. between the suspension and the shell as objects in this space can transmit large forces to the head and neck, resulting in serious injury or death.
- Never use this hard hat as a vehicular or recreational hard hat.
- Inspect the hard hat before and after each use. Replace any parts showing wear or damage.
- This hard hat was made with high quality, wear resistant materials, but it will not last forever. The suspension should be replaced no more than 12 months of use, the hard hat shell should be replaced no more than 6 years of use.
- Never exceed useful service life guidelines of hard hat as outlined in these instructions. Replace components or hard hats as required.
- Never alter or modify this hard hat in any way.
- Never use paint, solvents, or hydrocarbon type cleaners (that is, M.E.K., thinner, gasoline, kerosene) on this hard hat. These may cause unnoticeable damage.
- Hard hats must be cleaned & inspected regularly. Clean with mild soap & water. Store hard hat in clean, dry environment, not to exceed 120 F.
- For hard hat with HDPE shell, immersion in water in excess of 1/2 hour may result in logo peeling off.

⚠ ADVERTENCIA

LEA TODAS LAS INSTRUCCIONES Y ADVERTENCIAS ANTES DE USAR. El no seguir estas advertencias puede producir lesiones graves o incluso la muerte.

- Este casco brinda protección limitada contra impactos y penetración para la parte superior de la cabeza.
- No está diseñado específicamente para proteger contra golpes de frente, lado, o posteriores (No está diseñado para la protección lateral)
- Este casco debe ajustarse de manera segura en la cabeza para así brindar máxima protección.
- Utilice únicamente suspensión de WISDOM suministrado. Otros pueden encajar en el casco, pero no pueden proporcionar el nivel adecuado de protección.
- Nunca guarde guantes, cigarrillos, tapones auditivos, etc. entre la suspensión y el casquete. Objetos en este espacio pueden transmitir grandes fuerzas a la cabeza y cuello, resultando en lesión seria o muerte.
- Nunca utilice este casco como casco para vehículos o para uso recreativo.
- Revise el casco antes y después de cada utilización. Reemplace cualquier parte que esté desgastada o dañada.
- Este casco fue fabricado con materiales de alta calidad y resistentes al desgaste, pero no durará para siempre. La sustitución de suspensión no debe superar más de 12 meses de uso y la sustitución de casquete no debe superar más de 6 años de uso.
- Nunca exceda las pautas de la vida útil de servicio de este casco de seguridad como se menciona en estas instrucciones. Reemplace componentes o el casco de seguridad completo cuando se requiera.
- De ninguna manera altere o modifique este casco.
- Nunca aplique pinturas, solventes o limpiadores a base de hidrocarburos (metilcelosolona, diluyente, gasolina, kerosene). Pueden provocar daños imperceptibles al casco.
- Los cascos deben limpiarse y examinarse periódicamente. Limpielos con agua y jabón suave. Almacene en un ambiente limpio y seco, que no supere los 120 F.
- Para los cascos de seguridad con carcasa de HDPE, la inmersión en agua durante más de media hora puede provocar que el logotipo se desprenda.

HOW TO WEAR THE HARD HAT FOR MAXIMUM PROTECTION

- Positioning the Hard Hat
 - Place the hard hat on your head with the lamp holder facing forward. Ensure the crown strap sit evenly on the top of your head.
- Adjusting the Suspension System
 - Locate the pin lock mechanism at the back of the headband. Insert the locking pins into the desired slot on the headband to fit the circumference of your head. Ensure that the headband fits snugly but not too tight to prevent the hard hat from slipping or shifting while work.
- Ensuring a Secure Fit
 - Movement Test: Shake your head gently from side to side and up and down. The hard hat should remain secure and not wobble or slide off.
 - Chin Strap: In environments where there is a risk of the hard hat falling off, use a chin strap for added security. The chin strap should be snug but comfortable, ensuring the hard hat stays in place without causing discomfort.

CÓMO LLEVAR EL CASCO PARA UNA MÁXIMA PROTECCIÓN

- Posicionamiento del Casco de Seguridad
 - Coloque el casco sobre su cabeza con el soporte de la lámpara hacia adelante. Asegúrese de que el arnés se sienta uniformemente en la parte superior de su cabeza.
- Ajuste del Sistema de Suspensión
 - Localice el mecanismo de bloqueo del pin en la parte posterior de la cinta. Inserte los pines de bloqueo en la ranura deseada en la cinta para adaptarse a la circunferencia de su cabeza. Asegúrese de que la cinta se ajusta cómodamente, pero no demasiado apretada para evitar que el casco se deslice o se mueva mientras trabaja.
- Garantizar un Ajuste Seguro
 - Prueba de Movimiento: Sacuda suavemente la cabeza de lado a lado, arriba y abajo. El casco debe permanecer seguro y no tambalearse o resbalarse.
 - Barbiquejo: En entornos con riesgo de caída del casco, utilice barbiquejo para mayor seguridad. El barbiquejo debe ser ajustado pero cómodo, asegurando que el casco permanezca en su lugar sin causar molestias.

COLOR CODE / CÓDIGO DE COLOR



White / Blanco SKU # CPA002	Black / Negro SKU # CPA005
Red / Rojo SKU # CPA004	Yellow / Amarillo SKU # CPA007
Orange / Naranja SKU # CPA006	Blue / Azul SKU # CPA017
Brown / Marrón SKU # CPA008	Green / Verde SKU # CPA009
Mix1 / Mezcla1 SKU # CPA035	Mix2 / Mezcla2 SKU # CPA037
Mix3 / Mezcla3 SKU # CPA039	Mix4 / Mezcla4 SKU # CPA041



White / Blanco SKU # CPA010	Black / Negro SKU # CPA012
Red / Rojo SKU # CPA011	Yellow / Amarillo SKU # CPA014
Orange / Naranja SKU # CPA013	Blue / Azul SKU # CPA018
Brown / Marrón SKU # CPA015	Green / Verde SKU # CPA016
Mix1 / Mezcla1 SKU # CPA036	Mix2 / Mezcla2 SKU # CPA038
Mix3 / Mezcla3 SKU # CPA040	Mix4 / Mezcla4 SKU # CPA042

⚠ WARNING

- KEEP THIS BAG AWAY FROM BABIES AND CHILDREN. DO NOT USE IN CRIBS, BEDS, CARRIAGES OR PLAYPENS. THE THIN FILM MAY CLING TO NOSE AND MOUTH AND PREVENT BREATHING.
- HARD HAT IS TO BE REMOVED FROM BAG ONLY BY THE END USER.
- ALL INSTRUCTIONS ON BOTH SIDES OF BAG MUST BE CAREFULLY READ AND FOLLOWED WITH SPECIAL ATTENTION TO ALL WARNINGS.

⚠ ADVERTENCIA

- MANTENGA ESTA BOLSA FUERA DEL ALCANCE DE LOS BEBES Y NIÑOS. NO USAR CUNAS, CAMAS, COCHECITOS O CORRALES. LA PELÍCULA DELGADA PUEDE ADHERIRSE A LA NARIZ Y LA BOCA E IMPEDIR LA RESPIRACIÓN.
- SÓLO EL USUARIO FINAL DEBE SACAR EL CASCO DE LA BOLSA.
- LEA Y SIGA DETENIDAMENTE TODAS LAS INSTRUCCIONES, ESPECIALMENTE TODAS LAS ADVERTENCIAS, QUE SE INDICAN EN AMBOS LADOS DE LA BOLSA.



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Instructions

SUSPENSION ASSEMBLY WITH HEADBAND & CHIN STRAP & SWEATBAND ENSAMBLE DE SUSPENSIÓN CON BANDA DE CABEZA & BARBUQUEJO & SUDADERA

▲ WARNING

- Suspension and hard hat sizes must match.
- Misuse can result in serious personal injury or death.
- The suspension should be replaced no more than 12 months of use.

▲ ADVERTENCIA

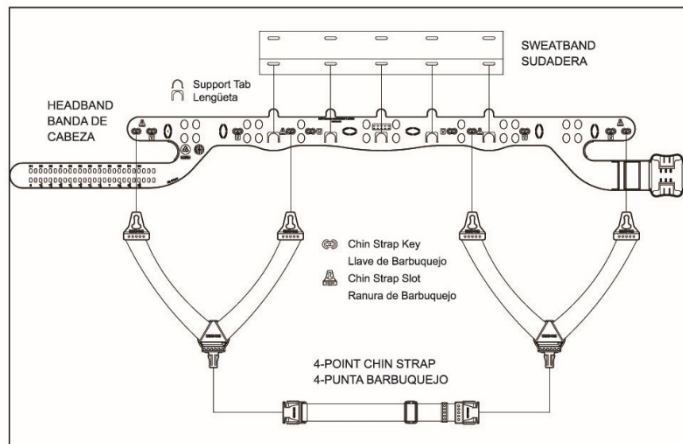
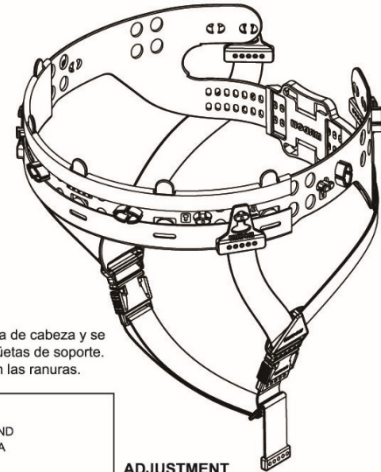
- Las tallas del arnés y del casco deben coincidir.
- El uso incorrecto puede provocar lesiones personales graves o muerte.
- El arnés debe ser reemplazado cuando se usa más de 12 meses.

INSTALLATION

- Fold the sweatband over the headband and the sweatband is held in place by 10 support tabs.
- Insert the 4 chin strap keys into the slots.

INSTALACIÓN

- Doble la sudadera sobre la banda de cabeza y se sostiene en su lugar por 10 lengüetas de soporte.
- Inserte 4 llaves de barbuquejo en las ranuras.

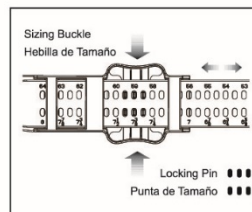
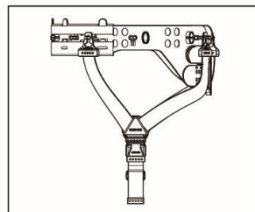


ADJUSTMENT

- Slide the adjustment band through squeezing the sizing buckle to increase or decrease the size. Make sure the six locking pins fit into the sizing slots.
- Place the hard hat on your head and push down on its top until the headband and shell are at a comfortable height.

AJUSTE

- Deslice la banda de ajuste a través del trinquete deslizante para aumentar o disminuir la talla. Asegúrese de que las seis puntas de sujeción encajen en los orificios de sujeción.
- Colóquese el casco en la cabeza y empuje hacia abajo la parte superior hasta que la banda de cabeza y el casquete queden en una altura cómoda.



Instructions

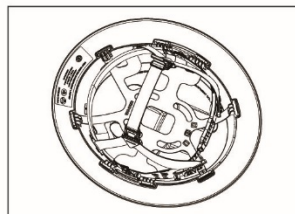
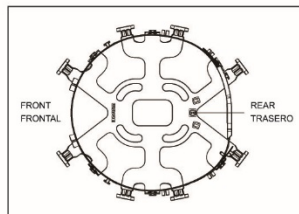
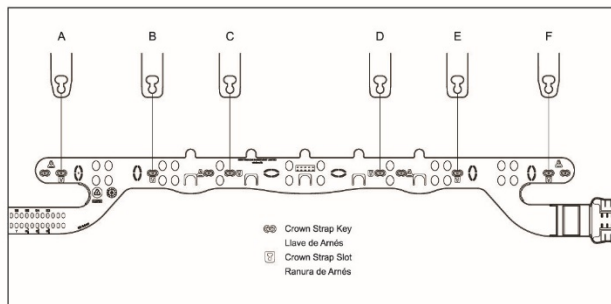
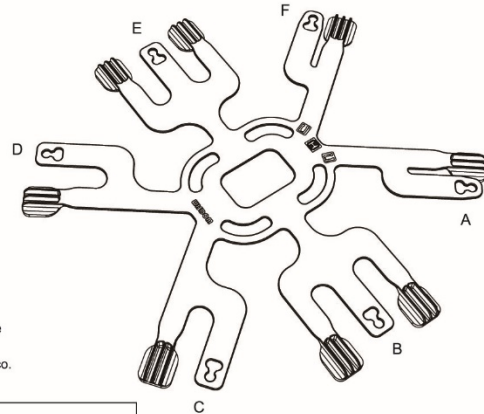
8-POINT CROWN STRAP ASSEMBLY ENSAMBLAJE DE 8-PUNTA ARNÉS

INSTALLATION

- Insert the 6 crown strap keys into the slots.
- Slide the 8 suspension keys fully into the shell cavities with sweatband to front and crown strap toward hard hat.

INSTALACIÓN

- Introduzca las 6 llaves de arnés en las ranuras.
- Deslice las 8 llaves de suspensión completamente en las cavidades de cascara, manteniendo la sudadera hacia frente y el arnés hacia el casco.



WARNING

- Crown strap and hard hat sizes must match.
- Misuse can result in serious personal injury or death.
- The crown strap should be replaced no more than 12 months of use.

ADVERTENCIA

- Las tallas del arnés y del casco deben coincidir.
- El uso incorrecto puede provocar lesiones personales graves o muerte.
- El arnés debe ser reemplazado cuando se usa más de 12 meses.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

End of Report



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