

APPLICATION GUIDE FOR HEAD PROTECTION



BULLARD



Construction Industry

Occupational hazards are a major concern in the construction industry. Prioritizing safety is essential, and investing in high quality personal protective equipment is the key to keeping workers safe on the job.

OSHA's Safety and Health Information Bulletin, dated March 6, 2024, "Employers must conduct a hazard assessment at their job site and based on the workplace hazards determine whether head protection is necessary and if so, the most appropriate type."



	Type I											Type II		
	Cap Style				Full Brim Style						Bump Cap	Safety Helmet Style	Cap Style	
	C30	S51	S61	S62	C33	C34	C35	S71	Above View™	Above View™ Elevate	Bump Cap	CEN10	Advent	Vector
POTENTIAL HAZARDS														
Dropped objects such as tools and materials	●	●	●	●	●	●	●	●	●	●		●	●	●
Protective performance at HT/LT	HT/LT	HT/LT	HT/LT		HT/LT	HT/LT	HT/LT		HT/LT	HT/LT		HT	HT/LT	LT
Sun and/or rain exposure					●	●	●	●	●	●				
Working at heights		C	C	C				C	C	IC		IC	IC	C
Electrical shock	●	●	●		●	●	●	●	●	●		NV	●	●
Low light environment	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S
Slips, trips, and falls										●		●	●	●
Side impact from moving equipment and materials													●	●
Work around low overhead structures or equipment	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Chemicals and/or splashes exposure	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP		FP	FP	FP
CERTIFICATIONS														
Declaration of Conformity - Level 2*											●		●	
Declaration of Conformity - Level 3**	●	●	●	●	●	●	●	●	●	●		●		●
ANSI/ISEA Z89.1-2019 Class E	●	●	●		●	●	●	●	●	●		NV	●	●
ANSI/ISEA Z89.1-2019 Class G	●	●	●		●	●	●	●	●	●		NV	●	●
ANSI/ISEA Z89.1-2019 Class C				●								V		
CSA Z94.1-2015 Class E	●	●			●				●	●				●
CSA Z94.1-2015 Class G	●	●			●				●	●				●

● = Recommended
 C = Requires 3-Point Chinstrap
 IC = Includes Chinstrap
 H/S = Hi-Viz Yellow or Stripes

V = Vented Only
 NV = Non-Vented Only
 FP = Use with Bullard Face Protection
 HT/LT = High Temp, Low Temp

* = indicates successful conformity to ANSI/ISEA standards by internal testing
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Per CSA Z94.1 (Canadian Standard), if any metal accessory is attached to the helmet, the Electrical Rating would then be Class C.



Utilities Industry

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POTENTIAL HAZARDS														
Working at heights		C	C	C				C	C	IC		IC	IC	C
Electrical shock	•	•	•		•	•	•	•	•	•		NV	•	•
Dropped objects such as tools and materials	•	•	•	•	•	•	•	•	•	•		•	•	•
Protective performance at HT/LT	HT/LT	HT/LT	HT/LT		HT/LT	HT/LT	HT/LT		HT/LT	HT/LT		HT	HT/LT	LT
Sun and/or rain exposure					•	•	•	•	•	•				
Low light environment	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S
Slips, trips, and falls										•		•	•	•
Side impact from moving equipment and materials													•	•
Work around low overhead structures or equipment	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CERTIFICATIONS														
Declaration of Conformity - Level 2*											•		•	
Declaration of Conformity - Level 3**	•	•	•	•	•	•	•	•	•	•		•		•
ANSI/ISEA Z89.1-2019 Class E	•	•	•		•	•	•	•	•	•		NV	•	•
ANSI/ISEA Z89.1-2019 Class G	•	•	•		•	•	•	•	•	•		NV	•	•
ANSI/ISEA Z89.1-2019 Class C				•								V		
CSA Z94.1-2015 Class E	•	•			•				•	•				•
CSA Z94.1-2015 Class G	•	•			•				•	•				•

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Renewable Energy Industry

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POTENTIAL HAZARDS														
Working at heights		C	C	C				C	C	IC		IC	IC	C
Electrical shock	•	•	•		•	•	•	•	•	•		NV	•	•
Dropped objects such as tools and materials	•	•	•	•	•	•	•	•	•	•		•	•	•
Protective performance at HT/LT	HT/LT	HT/LT	HT/LT		HT/LT	HT/LT	HT/LT		HT/LT	HT/LT		HT	HT/LT	LT
Sun and/or rain exposure					•	•	•	•	•	•				
Low light environment	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S
Slips, trips, and falls										•		•	•	•
Side impact from moving equipment and materials													•	•
Work around low overhead structures or equipment	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CERTIFICATIONS														
Declaration of Conformity - Level 2*											•		•	
Declaration of Conformity - Level 3**	•	•	•	•	•	•	•	•	•	•		•		•
ANSI/ISEA Z89.1-2019 Class E	•	•	•		•	•	•	•	•	•		NV	•	•
ANSI/ISEA Z89.1-2019 Class G	•	•	•		•	•	•	•	•	•		NV	•	•
ANSI/ISEA Z89.1-2019 Class C				•								V		
CSA Z94.1-2015 Class E	•	•			•				•	•				•
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Oil & Gas Industry

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POTENTIAL HAZARDS														
Dropped objects such as tools and materials	•	•	•	•	•	•	•	•	•	•		•	•	•
Protective performance at HT/LT	HT/LT	HT/LT	HT/LT		HT/LT	HT/LT	HT/LT		HT/LT	HT/LT		HT	HT/LT	LT
Sun and/or rain exposure					•	•	•	•	•	•				
Working at heights		C	C	C				C	C	IC		IC	IC	C
Low light environment	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S
Slips, trips, and falls										•		•	•	•
Side impact from moving equipment and materials													•	•
Work around low overhead structures or equipment	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CERTIFICATIONS														
Declaration of Conformity - Level 2*											•		•	
Declaration of Conformity - Level 3**	•	•	•	•	•	•	•	•	•	•		•		•
ANSI/ISEA Z89.1-2019 Class E	•	•	•		•	•	•	•	•	•		NV	•	•
ANSI/ISEA Z89.1-2019 Class G	•	•	•		•	•	•	•	•	•		NV	•	•
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Transportation Industry

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POTENTIAL HAZARDS														
Dropped objects such as tools and materials	•	•	•	•	•	•	•	•	•	•		•	•	•
Protective performance at HT/LT	HT/LT	HT/LT	HT/LT		HT/LT	HT/LT	HT/LT		HT/LT	HT/LT		HT	HT/LT	LT
Sun and/or rain exposure					•	•	•	•	•	•				
Working at heights		C	C	C				C	C	IC		IC	IC	C
Low light environment	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S	H/S
Slips, trips, and falls										•		•	•	•
Side impact from moving equipment and materials													•	•
Work around low overhead structures or equipment	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CERTIFICATIONS														
Declaration of Conformity - Level 2*											•		•	
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ANSI/ISEA Z89.1-2019 Class E	•	•	•		•	•	•	•	•	•		NV	•	•
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Standards Explanation

What is the difference between the ANSI/ISEA Z89.1-2014 (R2019) testing standard and BS EN 12492: 2012?

Type II ANSI/ISEA Z89.1-2014 (R2019) American National Standard

ANSI/ISEA Z89.1-2014 (R2019) American National Standard for Industrial Head Protection includes specifications for helmets designed to offer protection from top-only or combined top and lateral impact, giving employers and users the flexibility to specify the helmet that best meets the needs of their specific workplace. Industrial head protective helmets meeting the ANSI/ISEA Z89.1-2014 (R2019) standard requirements are classified as **Type I for top impact protection** or **Type II for both top and lateral impact protection**.

Both types are tested for impact attenuation and penetration resistance. Type II helmet performance requirements include criteria for impact energy attenuation from impacts from the front, back and sides as well as the top, off-center penetration resistance, and chin strap retention. There are at least four impact locations in the test zone. Also, as of today, there is no helmet retention testing.

These three classes indicate the helmet's electrical insulation rating:

- Class G (general) helmets are tested at 2,200 volts
- Class E (electrical) are tested to withstand 20,000 volts
- Class C (conductive) provides no electrical protection

Type II BS EN 12492:2012 Standard

The BS EN 12492:2012 standard defines the requirements for the design, construction, materials, and performance of mountaineering helmets. It also specifies the testing methods and procedures that manufacturers must follow to ensure that their helmets meet the requirements of the standard. To be certified to BS EN 12492:2012, the helmet must be vented (similar to Z89.1 Class "C") which provides no electrical protection. Additionally, EN 12492 states a helmet cannot be certified to specific clauses within the standard but must meet the entire standard.

NOTE: These are two separate standards. The ISEA standard is 100% performance-based while the BS EN 12492:2012 takes into account design considerations. Additionally, for these standards, **OSHA can only enforce U.S. standards or ANSI/ISEA Z89.1-2014 (R2019)**.

What makes ANSI/ISEA Z89.1-2014 (R2019) standard testing better than BS EN 12492:2012? With ANSI/ISEA Z89.1-2014, covering a large impact zone, the construction of the helmet must be durable throughout the helmet versus a specific location. With BS EN 12492:2012, a manufacturer can pinpoint and substantially increase the construction of the helmet at the impact points.

Ask your manufacturer or supplier for a declaration of conformity.



**Proudly Assembled
in the USA.**

Bullard Center

2421 Fortune Drive
Lexington, KY 40509 • USA
877-BULLARD (285-5273)
Tel: +1-859-234-6616
Fax: +1-859-246-0243

Americas Operations

1898 Safety Way
Cynthiana, KY 41031 • USA
877-BULLARD (285-5273)
Tel: +1-859-234-6616
Fax: +1-859-234-8987

Bullard GmbH

Dieselstrasse 8a
53424 Remagen • Germany
Tel: +49-2642 999980
Fax: +49-2642 9999829

Bullard AsiaPacific Pte. Ltd.

51 Changi Business Park
Central 2
#03-04 The Signature
Singapore 486066
Tel: +65 6745 0556



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