

1-800-GRAINGER (472-4643)

### Hard Hat ANSI Classifications

**ANSI/ISEA-Z89.1-2014**

Describes the impact resistance and electrical insulation properties of the hard hat.

**Impact and Electrical Insulation Classifications**

**Type I:** Reduces the force of impact caused by a blow to the top of the head only.

**Type II:** Reduces the force of impact from a blow to the top or side of the head.

**Class C - Conductive:** Provides no protection from electrical hazards.

**Class G - General:** Provides low-voltage protection up to 2.2kV.

**Class E - Electrical:** Provides high-voltage protection up to 20kV.



### General Purpose Hard Hats—Type 1, Class E

**Non-vented**

Protect against vertical impacts and high-voltage conductors up to 20kV. Worn by construction workers, road crews, and other workers as required by OSHA. Front brims protect the face from sun, reduce glare, and help shed rain. Full brims protect both the face and neck. See Grainger.com for available colors.

**V-Gard**—Proprietary design with raised V-shape on top that deflects objects and gives added impact protection.

**North Zone**—3-level height adjustment provides better stability and retention.

**3M**—HDPE hats have UVicator sensor that indicates when hat should be replaced due to UV exposure.

**BOLT**—Include front mount to securely attach a headlamp and a marker clip to hold pen or marker for quick access.

**SuperEight**—Advanced suspension balances and spreads weight over a wide area for optimal comfort and protection.

Material	Series	Brand	FRONT BRIM Accessory Slots	Item No.	FULL BRIM Accessory Slots	Item No.
<b>Pinlock (4-Point)</b>						
Polyethylene	North Zone	Honeywell North	Yes	J5113	—	—
Polyethylene	SL	Condor	Yes	J5421	—	—
Polyethylene	V-Gard	MSA	Yes	D0311	Yes	D0366
Polyethylene	V-Gard Small	MSA	Yes	J5166	—	—
<b>Ratchet (4-Point)</b>						
Glass-Reinforced Nylon	—	3M	—	K7780	—	—
HDPE	—	3M	—	K7779	—	K7783
Polyethylene	—	MSA	—	—	Yes	K7784
Polyethylene	N20	Honeywell North	—	—	Yes	J6000
Polyethylene	North Zone	Honeywell North	Yes	J5114	—	—
Polyethylene	SL	Condor	Yes	J5422	No	J5423
Polyethylene	SmoothDome	MSA	Yes	D0371	—	—
Polyethylene	V-Gard	MSA	Yes	D0312	Yes	D0367
Polyethylene	V-Gard	MSA	Yes	H0844	—	—
Polyethylene	V-Gard Green	MSA	Yes	H9882	—	—
Polyethylene	V-Gard Large	MSA	Yes	E5646	—	—
Polyethylene	V-Gard Small	MSA	Yes	E8191	—	—
<b>Ratchet (6-Point)</b>						
HDPE	BOLT	Milwaukee	Yes	K7778	Yes	K7782
Polyethylene	Ceros	HexArmor	Yes	K7776	—	—
Polyethylene	Classic	Bullard	Yes	E5090	No	E5091
<b>Ratchet (8-Point)</b>						
Thermoplastic	SuperEight E1	Honeywell Fibre-Metal	—	—	No	G5183
Thermoplastic	SuperEight E2	Honeywell Fibre-Metal	No	E4406	—	—
<b>Swing Ratchet (8-Point)</b>						
Thermoplastic	SuperEight E1	Honeywell Fibre-Metal	—	—	No	G5184
Thermoplastic	SuperEight E2	Honeywell Fibre-Metal	No	E4407	—	—

### Western-Style Hard Hats—Type 1, Class E

Full brim around the entire hat protects from sun and glare. Cowboy-style side brims curve up to direct water and rain to run off the back of the hat. Protect workers from vertical impacts and high-voltage electrical hazards up to 20kV.



Material	Accessory Slots	CHOOSE: Color	Series	Item No.
<b>Ratchet (6-Point)</b>				
Polyethylene	No	Black, Gray, Tan, White	Vulcan	E3811

### Hard Hat Materials and Suspension Types

**MATERIALS**

**Lightweight**

ABS, HDPE, polycarbonate, polyethylene, and thermoplastic are lightweight, durable plastics that resist corrosion and impact. These helmets are commonly used in industry, construction, and utilities applications.

**Heat-Resistant**

Nylon, glass-reinforced nylon, fiberglass, and phenolic helmets resist damage when exposed to high temperatures. They are suitable for metalworking, forging, and welding applications.

**SUSPENSION TYPES**

**Pinlock**

Feature a band with evenly spaced holes on one end and pins on the other end that fasten for a comfortable fit.

**Ratchet and Swing-Ratchet**

Feature a knob for tightening or loosening the band to customize the fit. Swing-ratchet suspension helmets let the wearer reverse the position of the helmet without removing the suspension frame.

**One-Touch and Staz-On**

One-Touch have a clip that is squeezed and slid along the band to adjust fit. Staz-On suspension helmets have a band with evenly spaced holes on one end and pins on the other end that fasten to adjust.



### Freedom Series V-Gard Hard Hats—Type 1, Class E

**Non-vented**

Patriotic hard hats are printed with symbols of national pride, such as flags and eagles. Protect wearers from vertical impacts and high-voltage conductors up to 20kV. See Grainger.com for available graphics.



Material	Series	Front Brim Accessory Slots	Item No.	Full Brim Accessory Slots	Item No.
<b>Ratchet (4-Point)</b>					
Polyethylene	Freedom Series	Yes	H0843	No	J5167



### Vented Hard Hats

Venting helps dissipate heat to keep workers cool. Protect wearers from vertical impacts. Vents allow a clear path for electrical arcing, so hats should not be used in locations where electrical hazards are present. Front brims protect the face from sun, reduce glare, and help shed rain. Full brims protect both the face and neck. See Grainger.com for available colors.

**3M**—K7786 and K7791 have UVicator sensor that indicates when hat should be replaced due to UV exposure.

**BOLT**—Include front mount to securely attach a headlamp and a marker clip to hold pen or marker for quick access.

Material	Series	Brand	FRONT BRIM Accessory Slots	Item No.	FULL BRIM Accessory Slots	Item No.
<b>Type 1, Class C Pinlock (4-Point)</b>						
Polyethylene	S62	Bullard	Yes	E3824	—	—
Polyethylene	Americana	Erb Safety	Yes	J5463	No	J5465
<b>Ratchet (4-Point)</b>						
HDPE	—	3M	—	K7786	—	K7791
HDPE	—	3M	—	K7787	—	—
Polyethylene	V-Gard 500	MSA	Yes	D0368	—	—
Polyethylene	S62	Bullard	Yes	E3825	—	—
Polyethylene	Americana	Erb Safety	Yes	J5462	No	J5464
Polyethylene	—	MSA	—	—	Yes	K7792
<b>Ratchet (6-Point)</b>						
HDPE	BOLT	Milwaukee	Yes	K7785	Yes	K7790
Polyethylene	Ceros	HexArmor	Yes	60MF65	—	—
Polyethylene	V-Gard 500	MSA	Yes	D0369	—	—
<b>Type 1, Class E Ratchet (4-Point)</b>						
Polycarbonate	BOLT	Milwaukee	Yes	K7788	—	—
<b>Type 2, Class C Ratchet (4-Point)</b>						
Polycarbonate	BOLT	Milwaukee	Yes	K7789	—	—