

3M™ Industrial Safety Helmet G3000

Application and Configurations

Date: February 2021



Product description

The 3M™ Industrial Safety Helmet G3000 is designed to offer you head protection from falling objects in accordance with the European Standard EN 397:2012+A1:2012.

It is available in a variety of configurations so that the product can be tailored to meet the needs of your application. It is also a platform for a range of hearing, eye and face protection products.

When selecting a safety helmet, the configuration in the first place depends on the risks that your work force is exposed to, determined by a risk assessment. Secondly, working conditions play an important role.

Let's walk through some of the considerations:

► **Basic head protection?**

Vented or unvented could be suitable

► **Extreme hot temperature environments?**

Consider the optional standard +150°C

► **Working on electrical equipment or at risk from it?**

Consider two insulated options; 440Vac approval (EN 397) and/or 1000Vac approval (EN 50356)

► **Working with or around molten metal?**

Consider the molten metal splash approval within EN 397

► **Wearers too hot and humid?**

Consider vented as it can reduce heat build up

► **Extreme cold temperature environments?**

Consider the optional standard -20°C and -30°C



Certifications

The table below shows the approvals that the various G3000 models can have, please contact us to help you select the appropriate model.

Additional protection characteristics according to EN 397:2012+A1:2012 and EN 50365:2002 (1000Vac/1500Vdc).

Low temperatures			High temperatures			Electrical properties		Lateral deformation
-10°C*	-20°C	-30°C	+50°C*	+150°C	Molten Metal	440Vac**	1000Vac/ 1500Vdc**	LD
✓	✓	✓	✓	✗	✓	✓	✓	✗

✓ = Approved ✗ = Not approved

*Mandatory requirement within EN 397:2012+A1:2012

**Properties available on non-vented shell models G3001

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Configuration options and certification requirements

Helmets can help protect your head but other PPE can be fitted to protect your hearing, eyes and face. Two points to consider:

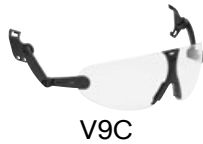
- ▶ Earmuffs require CE certification for use in combination with the safety helmet
- ▶ Faceshield holders and faceshields require CE certification for use in combination with the safety helmet

Below are some configuration options that are available.

G3000



Why not integrate safety eyewear with the V9 Series?



V9C



V9A



V9G

G3000 with Earmuffs OR Communication solutions with 4-Series face protection



OR



AND



4-Series Faceshield

G3000 without Earmuffs OR Communication solutions with 4-Series face protection



P3E

AND



4-Series Faceshield

G3000 with Earmuffs OR Communication solutions with 5-Series face protection



OR



AND



V5 Holder

AND



5-Series Faceshield

G3000 without Earmuffs OR Communication solutions with 5-Series face protection



P3E

AND



V5 Holder

AND

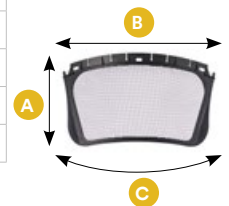
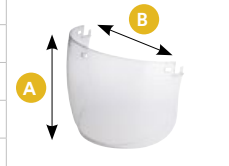
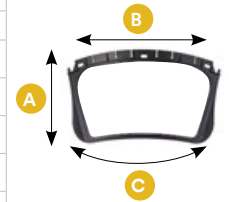
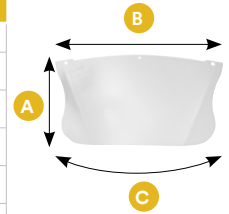


5-Series Faceshield

Different levels of protection

Applications and tasks can require different levels of protection and the table below shows what options are available for the 5 and 4 series faceshields.

3M ID #	Product #	Description	Faceshield	Frame	Dimension (mm)			
					A	B	C	
P3E Adaptor (required if earmuffs are not used)								
7100246136	P3E	Helmet attachment						
V4 Series Faceshield System								
Clear Faceshield Options								
7000039612	V4D	Clear 1mm acetate faceshield with peak	3M 2 F	3M EN 166 3 9 F	181	210	330	
7000108162	V4DK	Clear 1mm acetate faceshield without peak			181	210	330	
7000107740	V4F	Clear 1mm polycarbonate faceshield with peak	3M 1 F		181	210	330	
7000108165	V4FK	Clear 1mm polycarbonate faceshield without peak			181	210	330	
7000039613	V4H	Clear 1.2mm polycarbonate faceshield with peak	2C-1,2 3M 1 F		3M EN 1731:2006 S	181	210	330
7000108166	V4HK	Clear 1.2mm polycarbonate faceshield without peak				181	210	330
7000038213	V4KK	Clear 1.5mm polycarbonate faceshield without peak	2C-1,2 3M 1 F 9			247	210	455
Mesh Faceshield Options								
7000107736	V4B	Mesh polyamide plastic faceshield with peak	3M EN 1731:2006 S	3M EN 166 3 9 F	161	210	306	
7000108159	V4BK	Mesh polyamide plastic faceshield without peak			161	210	306	
7000108160	V4C	Mesh Stainless Steel faceshield with peak			161	210	306	
7000107737	V4CK	Mesh Stainless Steel faceshield without peak			161	210	306	
7100046846	V4G	Mesh Steel faceshield with peak			3M EN 1731:2006 S	161	210	306
7000108168	V4J	Mesh etched metal faceshield with peak				161	210	306
7000108320	V4JK	Mesh etched metal faceshield without peak				161	210	306
V5 Faceshield System								
7000038218	V5	Faceshield holder		3M 166 3 9 B 3M EN 1731:2006 F				
Clear Faceshield Options								
7000103788	5E-11	Green Shade 5 polycarbonate faceshield	5 3M 1 B		169	223		
7100029680	5F-11	Clear polycarbonate faceshield	2C-1,2 3M 1 B		169	223		
7100212096	5A-CP	Clear acetate faceshield with chinguard	2C-1,2 3M 1 FT 3 N		205	205		
Mesh Faceshield Options								
7000103791	5B	Mesh black polyamide f waceshield	3M EN 1731:2006 F		175	211	333	
7000103792	5C-1	Mesh black stainless-steel faceshield	3M EN 1731:2006 S		175	211	333	
7000103793	5J-1	Mesh black etched stainless-steel faceshield	3M EN 1731:2006 S		175	211	333	



Marking	Description
2C-1.2 (EN 170:2002)	UV protection with good colour recognition. This product conforms to the requirements of the standard, providing UV protection for the complete specified range (210nm – 365nm)
5 (EN 169:2002)	Welding lens providing protection against UV for the specified range (210nm to 365nm) and IR protection for the specified range (780nm to 1400nm)
1 or 2	Optical class
S	Increased Robustness
F	Impact protection against high speed particle at low energy (45 m/s)
B	Impact protection against high speed particle at medium energy (120 m/s)
T	Tested for impact protection at extreme temperature conditions -5°C and +55°C
N	Resistance to fogging
3	Protection against droplets and splashes of liquid
9	Protection against molten metals splash and hot solids

Certified helmet and hearing and communication solutions configurations

Earmuffs and Communication solutions require certification in combination with a helmet to ensure that the hearing protector provides the level of attenuation as intended. Below overview lists the possible combinations with G3000 that are certified according to EN 352-3. 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Please connect with a 3M representative for further advice.

Earmuffs

Product	Adapter	Size (S-Small, M-Medium, L-Large)
3M™ PELTOR™ X1	E	S/M/L
3M™ PELTOR™ X2	E	S/M/L
3M™ PELTOR™ X3	E	S/M/L
3M™ PELTOR™ X4	E	S/M/L
3M™ PELTOR™ X5	E	M/L
3M™ PELTOR™ Optime™ I	E	S/M/L
3M™ PELTOR™ Optime™ II	E	S/M/L
3M™ PELTOR™ Optime™ III	E	S/M/L
3M™ PELTOR™ H31	E	S/M/L



Communication Solutions

Product	Adapter	Size (S-Small, M-Medium, L-Large)
3M™ PELTOR™ ALERT™	E	S/M/L
3M™ PELTOR™ LiteCom	E	S/M/L
3M™ PELTOR™ Tactical XP	E	S/M/L
3M™ PELTOR™ CH5 Headset	E	L
3M™ PELTOR™ Twin cup	E	S/M/L
3M™ PELTOR™ ProTac III Slim	E	L
3M™ PELTOR™ ProTac III	E	L
3M™ PELTOR™ WorkTunes Pro AM-FM	E	L
3M™ PELTOR™ LiteCom Pro III	E	L
3M™ PELTOR™ WS™ ALERT™ XP/XPI	E	L
3M™ PELTOR™ FM/DAB-RADIO	E	L
3M™ PELTOR™ CH-3 FLX2 Listening only	E	L
3M™ PELTOR™ CH-3 FLX2 Headset	E	L
3M™ PELTOR™ CH-3 FLX2 PTT	E	L
3M™ PELTOR™ WS™ ProTac XPI	E	L
3M™ PELTOR™ WS™ LiteCom Plus	E	L
3M™ PELTOR™ LiteCom Plus	E	L



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Product Selection and Use: Many factors beyond 3M's control and uniquely within users' knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customers' application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., PPE Regulation (EU) 2016/425, EN 397, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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