

3M™ SecureFit™ Safety Helmet X5000/X5500

Application and configurations

Date: October 2023



Product description

The 3M™ X5000 and X5500 SecureFit™ Safety Helmets are designed to protect the wearer against objects likely to strike the head in industrial and occupational use. It is also a platform for a range of hearing, eye and face protection products.

The X5500 is certified to EN 397, Industrial Safety Helmets, and is designed to be used for general industrial use.

The X5000 is certified to EN 12492, helmets for mountaineers, and in addition also certified to EN 397 and is designed to be used for working at height and rescue as well as for general industrial use. Note that X5000 is either in EN 12492 mode or in EN 397 mode but cannot meet both EN standards simultaneously.

Many factors can influence the selection of a safety helmet and a risk assessment should identify the safety helmet standard and other helmet mounted PPE required.

Let's walk through some of the considerations:

► Basic head protection?

Vented or unvented could be suitable

► Working with or around molten metal?

Consider the molten metal approval within EN 397

► Working on electrical equipment or at risk from it?

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

► Wearers too hot and humid?

Consider vented as it can reduce heat build up

► Extreme cold temperature environments?

Consider the optional standard -30°C

► Working at height?

Consider climbing helmets as the requirements to retain the helmet on the head are more stringent and therefore less likely to fall off the head



Certifications

Features	Mountaineering safety helmet		Industrial safety helmet	
	X5000V	X5000VE	X5500NVE	X5500V
EN 397:2012+A1:2012	✓	✓	✓	✓
-30°C	✓	✓	✓	✓
Molten Metal (MM)			✓	
Lateral Deformation (LD)	✓	✓	✓	✓
440Vac			✓	
EN 12492:2012	✓	✓		
EN 50365:2002 (1000Vac)		✓	✓	

✓ = Approved

Configuration options and certification requirements

Helmets can help protect your head but other PPE can be fitted to protect your hearing, eyes and face. Three 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
- ▶ Integrated eyewear requires CE certification for use in combination with the safety helmet

Below are some configuration options that are available.

X5000



Why not integrate safety eyewear with the V9 Series?



V9C



V9A



V9G

X5000/X5500 with earmuffs or communication solutions with 5-Series face protection



OR



AND



U5B or FH1 holder

AND



5-Series faceshield

X5000/X5500 without earmuffs or communication solutions with 5-Series face protection



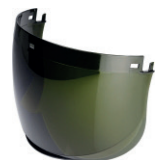
P3E

AND



U5B or FH1 holder

AND



5-Series faceshield

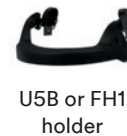
X5000/X5500 with earmuffs or communication solutions with WP Series face protection



or



and



U5B or FH1 holder

and



WP Series faceshield

X5000/X5500 without earmuffs or communication solutions with WP Series face protection



P3E

and



U5B or FH1 holder

and



WP 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 WP series faceshields.

3M ID #	Product #	Description	Marking
P3E Adaptor (required if earmuffs are not used)			
7100098979	P3E	Helmet attachment	
Faceshield holder			
7100179684	U5B	U5B-CE Faceshield holder	3M EN 166 3 9 B
7100290153	FH1	FH1-CE Faceshield holder	3M EN 166 3 9 B
WP Series			
7100016704	WP96	Clear polycarbonate faceshield	2C-1,2 3M 1 B 9
7000089416	WP98	Clear acetate faceshield	2C-1,2 3M 1 F
5-Series faceshields			
Clear faceshield options			
7100322647	5A-CPF	Clear acetate faceshield, chin protection	2C-1,2 3M 1 FT N
7000103788	5E-11	Green shade 5 polycarbonate faceshield	5 3M 1 B
7100029680	5F-11	Clear polycarbonate faceshield	2C-1,2 3M 1 B
Mesh faceshield options			
7000103791	5B	Mesh black polyamide faceshield	3M EN 1731:2006 F
7000103792	5C-1	Mesh black stainless-steel faceshield	3M EN 1731:2006 S
7000103793	5J-1	Mesh black etched stainless-steel faceshield	3M EN 1731:2006 S

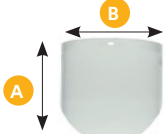
Diagram (mm)	Model	A	B
	WP96	229	263
	WP98	232	378

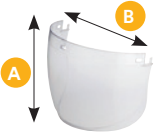
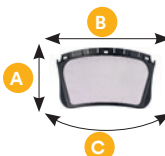
Diagram (mm)	Model	A	B
	5A-CPF	205	205
	5E-11	169	223
	5F-11	169	223

Diagram (mm)	Model	A	B	C
	5B	175	211	333
	5C-1	175	211	333
	5J-1	175	211	333

3M™ Short visor for X5000

Some applications and tasks do not require full face protection and in this scenario a short visor may be more suitable.

Attaching communication or hearing protection solutions

When communication headsets or earmuffs are used attach with an E adaptor. If no hearing protection is required use a P3E adaptor.



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	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 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. The below overview lists the possible combinations with X5000 and X5500 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™ X1P3	E	S/M/L
3M™ PELTOR™ X2P3	E	S/M/L
3M™ PELTOR™ X3P3	E	S/M/L
3M™ PELTOR™ X4P3	E	S/M/L
3M™ PELTOR™ X5P3*	E	M/L
3M™ PELTOR™ Optime™ I	E	S/M/L
3M™ PELTOR™ Optime™ II	E	S/M/L
3M™ PELTOR™ Optime™ III	E	M/L
3M™ PELTOR™ H31	E	S/M/L

*Please note: 3M™ SecureFit™ X5000 and X5500 Series Safety Helmets (Vented and Non-Vented models) are not compatible with 3M™ PELTOR™ X Series P5E Hard Hat Attached Electrically Insulated Earmuffs.



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™ CH5 Headset	E	S/M/L
3M™ PELTOR™ ProTac III Slim	E	S/M/L
3M™ PELTOR™ ProTac III	E	S/M/L
3M™ PELTOR™ WorkTunes Pro AM-FM	E	S/M/L
3M™ PELTOR™ LiteCom Pro III	E	S/M/L
3M™ PELTOR™ WS™ ALERT™ XP/XPI	E	S/M/L
3M™ PELTOR™ FM/DAB-RADIO	E	S/M/L
3M™ PELTOR™ CH-3 FLX2 Listening only	E	S/M/L
3M™ PELTOR™ CH-3 FLX2 Headset	E	S/M/L
3M™ PELTOR™ CH-3 FLX2 PTT	E	S/M/L
3M™ PELTOR™ WS™ ProTac XPI	E	S/M/L
3M™ PELTOR™ WS™ LiteCom Plus	E	S/M/L
3M™ PELTOR™ LiteCom Plus	E	S/M/L



Important notice

Product selection and use: Many factors beyond 3M's control and uniquely within user's 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 customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. 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.

Warranty, limited remedy and disclaimer: A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms and conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.

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