

3M™ Protective Visors V5 and X5 Series

Technical datasheet

Product description

The 3M™ V5 and X5-SV Protective Visor Series is a range of helmet-or headgear-mounted visors designed to meet the requirements of various industrial applications. The range includes a selection of sizes and shades, offering protection from various optical hazards, chemical splashes and flying particles.

Product range

Product ID	Description
3M™ 5E-11	Green polycarbonate visor
3M™ 5F-11	Clear polycarbonate visor
3M™ X5-SV01	Clear polycarbonate short visor
3M™ X5-SV02	Grey polycarbonate short visor
3M™ X5-SV03	Amber polycarbonate short visor
3M™ X5000, X5500	3M™ SecureFit™ helmets
3M™ G3000, G22 and G3501	Helmets
3M™ G500	Headgear
3M™ V5 or 3M™ U5B	Linkage system

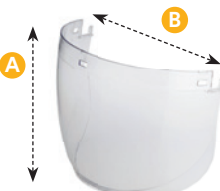
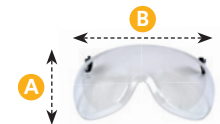
Typical applications

- ▶ General industry
- ▶ Construction
- ▶ Metal working
- ▶ Working at height (X5-SV)

Key features

- ▶ The V5 X5-SV visors are designed to be used with a wide range of 3M™ safety helmets and 3M™ ear muffs
- ▶ The V5 visors feature an easy to use 'snap in' connection with the V5 or U5B visor holder for fast replacement
- ▶ The X5-SV visors feature an easy and fast connection directly to the 3M™ SecureFit™ helmets
- ▶ The double curved shape of the 5E-11, 5F-11 and X5-SV allows for a close-fitting faceshield design
- ▶ 5E-11 and 5F-11 feature a fog and scratch resistant coating to improve fogging and durability when compared to an uncoated visor

Size

Diagram	Model	A	B
	5E-11	169	223
	5F-11	169	223
	X5-SV	136	194

Model	Thickness	Weight
5E-11	1.5mm	140g
5F-11	1.5mm	138g
X5-SV	2.5mm	77g

Materials

Component	Material
Faceshields	Polycarbonate
Frame and linkage	Polypropylene, polyamide



Standards and approvals

The 3M™ Protective Visor V5 and X5-SV Series meet the requirements of the PPE Regulation (EU) 2016/425 and are thus CE marked. The products have been examined by DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstrasse 56, 12103 Berlin, Germany (notified body number 0196). The 3M™ Visors V5 and X5-SV Series have been tested and approved in accordance with EN 166:2001.

Performance

The table below summarises the 3M™ V5 and X5-SV Series Protective Visor specifications according to EN 166.

Model	Filtering perf.	Optical clarity	Impact perf.	Fields of use	Optional requirements
5E-11	5	1	B	3	N/A
5F-11	2C-1.2	1	B	3	N/A
X5-SV01	2C-1.2	1	BT	N/A	K, N
X5-SV02	5-3.1	1	BT	N/A	K, N
X5-SV03	2C-1.2	1	BT	N/A	K, N

Filtering performance:

5 = Welding filter, Shade 5 (EN 169)

2C-1.2 = UV filter, Shade 1.2 (EN 170)

5-3.1 = Sunglare filter, Shade 3.1 (EN 172)

Optical clarity:

The allowable variation in refractive powers for oculars is assessed during certification of the product. Class 1 is the highest performance class for optical clarity.

Impact performance:

All V5 and X5-SV Protective Visor series meet the requirement for protection against high speed particles for medium energy impacts, marked B (120m/s). In addition, the X5-SV series meet this requirement after conditioning at 55°C and -5°C, marked BT.

Fields of use:

In addition, the 5E-11 and 5F-11 visors meet the optional requirements for protection against liquid splash, marked 3.

Optional requirements:

X5-SV series additionally meet the requirements for resistance to surface damage by fine particles, marked K, and for resistance to fogging of oculars, marked N.

Use and storage

Temperature range for use and storage	+3° C - +40° C, <85% humidity
Maximum recommended shelf life	Up to 5 years from date of manufacture*

* The product life as defined above is indicative data. The product life is subject to many external and non-controllable factors and should not be interpreted as a warranty.

Use limitation

- Where the visor and frame markings do not match, the lowest level of protection applies
- Scratched or damaged oculars should be replaced
- Eye-protectors against high speed particles worn over standard ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer. Do not use this product against hazards other than those specified in this document
- Never modify or alter this product

Please contact 3M for further information on alternative or additional protection requirements.

Compatibility

The visor holders V5 and U5 are connected to the helmets and headgear through a 3M™ P3E earmuff or a P3E adapter if hearing protection is not required. The X5-SV visors do not require a visor holder and are connected directly to P3E.

Model	X5000 / X5500	U5 + X5000 / X5550	V5 + G3000	V5 + G22	V5 + G3501	G500
5E-11	N/A	✓	✓	✓	✓	✓
5F-11	N/A	✓	✓	✓	✓	✓
X5-SV01	✓	N/A	✗	✗	✗	✗
X5-SV02	✓	N/A	✗	✗	✗	✗
X5-SV03	✓	N/A	✗	✗	✗	✗

✓ = approved
✗ = not approved
N/A = not applicable

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

Personal Protective Equipment is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to Physical Hazards. 3M offers advice on the selection of products, and training in the correct fitting and usage. For more information on 3M products and services please contact 3M.