

3M™ 5-series Mesh Protective Faceshields

Technical datasheet



Product description

The 3M™ 5-series Mesh Protective Faceshields are a range of helmet and headgear mounted faceshields designed to meet the requirements of Forestry and Arboriculture applications. The range includes a selection of lightweight and robust faceshields offering protection from flying wood chips and large particles.

Product range

5B: Polyamide Mesh Faceshield

5C-1: Stainless Steel Faceshield

5J-1: Etched Metal Faceshield

3M™ V5 or 3M™ U5B: Faceshield Holder

3M™ SecureFit™ Safety Helmets

3M™ Industrial Safety Helmets

3M™ G500: Headgear

Key features

- ▶ 3M™ Mesh Faceshields offer eye and face protection from flying wood chips and large particles, whilst allowing fog-free vision and increased ventilation when working in difficult outdoor conditions
- ▶ The 3M™ 5B Mesh Faceshield meets the requirement for protection against high speed particles for low energy impacts, marked F (45m/s)
- ▶ The 3M™ 5J-1 offers good visibility with low light reduction in the main viewing area whilst maintaining protection for the face
- ▶ The faceshields feature an easy to use “snap in” connection for fast replacement of faceshields in the 3M™ V5 or U5B Faceshield Holders
- ▶ The spring-loaded faceshield holders allow for easy flip up and down of the faceshield and the 2-point rotation mechanism means that the faceshield sits further back on the helmet when in the up position
- ▶ The 3M™ V5 and U5B Faceshield Holder can be attached to a range of 3M™ Industrial Safety Helmets

Typical applications

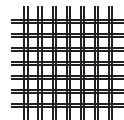
- ▶ Forestry
- ▶ Arboriculture
- ▶ Facilities maintenance

Size (mm)

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

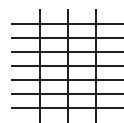
Model	Weight
5B	45g
5C-1	54g
5J-1	53g

Mesh types



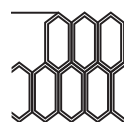
5B: Polyamide Plastic Mesh

Aperture: 1.0mm x 1.0mm
Wire Diameter: 0.3mm o.d.
Light Reduction: 45%



5C-1: Stainless Steel Mesh

Aperture: 1.8mm x 2.5mm
Wire Diameter: 0.2mm o.d.
Light Reduction: 25%



5J-1: Etched Metal Mesh (viewing area)

Aperture: 4.0mm x 1.5mm hex
Faceshield thickness: 0.15mm
Light Reduction: 18%

The 5J-1 faceshield is designed in 3 zones with different aperture sizes. Light reduction increases away from the viewing area as the aperture size decreases:

Zone 1: 18% light reduction, 4.0mm x 1.5mm

Zone 2: 28% light reduction, 3.8mm x 1.4mm

Zone 3: 37% light reduction, 3.7mm x 1.3mm

Materials

Component	Material
Faceshields	As above
Frame and holder	Polyamide

Standards and approvals

The 3M™ Mesh Faceshield V5 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 have been tested and approved in accordance with EN 1731:2006.

Protection

These faceshields meet the requirements for Increased Robustness (S) in accordance with EN 1731:2006.

In addition, the 5B faceshield meets the requirement for protection against high speed particles for low energy impacts, marked F (45m/s).

Use limitations

- ▶ Where the faceshield and frame markings do not match the lowest level of protection applies
- ▶ Mesh faceshields do not provide protection against liquid splash (including molten metals), hot solids, electrical hazards, infrared or ultraviolet radiation
- ▶ Protective goggles must be worn when there is a risk of injury to the eyes by particles that may penetrate the faceshield. Never modify or alter this product
- ▶ Please contact 3M for further information on alternative or additional protection requirements

Compatibility

The faceshield holders V5 and U5B are connected to the helmets through a 3M™ P3E earmuff or a 3M™ P3E adapter if hearing protection is not required. Headgear G500 does not require a faceshield holder.

Model	U5B + X5000 / X5500	V5 + G3000	V5 + G22	V5 + G3501	G500
5B	N/A	✓	✓	✓	✓
5C-1	N/A	✓	✓	✓	✓
5J-1	N/A	✓	✓	✓	✓

Important notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

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Storage

Temperature range for usage	-5°C – +55°C
Recommended storage conditions	+3° C - +40° C, <85% humidity
Maximum recommended shelf life	5 years.

Spare parts

5B replacement faceshield
5C-1 replacement faceshield
5J-1 replacement faceshield
V5 faceshield holder
U5B faceshield holder
G500 headgear
P3E helmet attachments