

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, 3M™ U5B or FH1: Faceshield Holder

3M™ SecureFit™ Safety Helmets

3M™ Industrial Safety Helmets

3M™ G500: Headgear

Key features

- ▶ 3M™ 5-series faceshields are designed to be used with faceshield holders V5, U5B or FH1 for attaching to a wide range of 3M™ Safety Helmets
- ▶ 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, U5B or FH1 Faceshield Holders

Typical applications

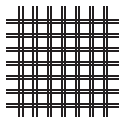
- ▶ Forestry
- ▶ Arboriculture
- ▶ Facilities maintenance

Size (mm)

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

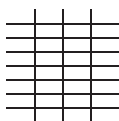
Model	Weight
5B	45g
5C-1	54g
5J-1	53g

Mesh types



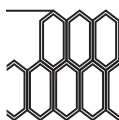
5B: Polyamide Plastic Mesh

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

These products are type approved by DIN CERTCO Gesellschaft fuer Konformitaetsbewertung GmbH, Alboinstrasse 56, 12103 Berlin, Germany (Notified body number 0196); These products meet the requirements of Regulation 2016/425 on personal protective equipment.

These products are type approved by TUV Rheinland UK, Friars Gate (Third Floor), 1011 Stratford Road, Shirley, Solihull B90 4BN. Approved Body no. 2571; These products meet the requirements of Regulation 2016/425 on personal protective equipment, as amended to apply in GB.

Certificates and Declarations of Conformity are available at www.3M.com/Head/certs

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/FH1 + X5000 / X5500	V5/FH1 + G3000	V5/FH1 + G3501	G500
5B	✓	✓	✓	✓
5C-1	✓	✓	✓	✓
5J-1	✓	✓	✓	✓

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.

Storage

Recommended storage conditions	+3°C – +40°C, <85% humidity
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Maximum recommended shelf life 5 years.

Spare parts

5B replacement faceshield

5C-1 replacement faceshield

5J-1 replacement faceshield

V5, U5B or FH1 faceshield holder

G500 headgear

P3E helmet attachments