

3M™ 4-series Mesh Protective Faceshields

Technical datasheet



Product description

The 3M™ 4-series Mesh Protective Faceshields is a range of helmet and earmuff 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

4G: Steel Mesh Faceshield

4B: Polyamide Mesh Faceshield

4C: Stainless Steel Faceshield

4J: Etched Metal Faceshield

3M™ V43: Faceshield Holder with peak

3M™ V46: Faceshield Holder without peak

3M™ V40: Faceshield Holder

3M™ Industrial Safety Helmets

3M™ PELTOR™ over-the-head Earmuffs

P3E: Attachment adaptor

Preassembled combinations with the following product designation are offered:

Visor model	3M™ Safety Helmets G22, G2000, G3000, H700		3M™ PELTOR™ Earmuffs H510, H520, H540, H31
	V43	V46	V40
4G	V4G	V4GK	V40G
4B	V4B	V4BK	N/A
4C	V4C	V4CK	V40C
4J	V4J	V4JK	N/A

Typical applications

- ▶ Forestry
- ▶ Arboriculture
- ▶ Facilities maintenance

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
- ▶ 3M™ 4-series Faceshield Holders are available with and without peak, V43 and V46 respectively, offering the flexibility to choose between coverage from the environment (sun glare, rain) or upward visibility
- ▶ 3M™ V40 Faceshield Holder allows attachment of the faceshields directly with 3M™ PELTOR™ earmuffs without the need for head protection
- ▶ The 3M™ 4C and 4J Mesh Faceshields are constructed from materials selected for hard working environments
- ▶ The 3M™ 4J offers good visibility with low light reduction in the main viewing area whilst maintaining protection for the face

*Compared to solid plastic faceshields

Size (mm)

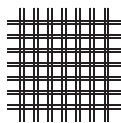
Diagram	Model	Dimension		
		A	B	C
	4G	161	210	306
	4B	161	210	306
	4C	161	210	306
	4J	161	210	306

Mesh types



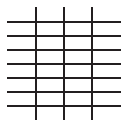
4G: Steel Mesh

Aperture: 1.8mm x 1.8mm
Wire Diameter: 0.3mm o.d.
Light Reduction: 35%



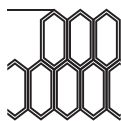
4B: Polyamide Plastic Mesh

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



4C: Stainless Steel Mesh

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



4J: Etched Metal Mesh (viewing area)

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

The 4J faceshield is designed in 3 zones with different aperture sizes. Light reduction increases away from the viewing area as the aperture size decreases:

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
Faceshield frame and holder	Polypropylene, polyamide

Standards and approvals

The 3M™ 4-series Mesh Protective Faceshields 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). 3M™ 4-series Mesh Protective Faceshields 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.

Use limitations

- ▶ Where the faceshield and frame markings do not match the lowest level of protection applies
- ▶ Faceshields marked 'S' should not be used for protection if there is a foreseeable risk from hard or sharp flying particles
- ▶ Mesh face shields 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 face shield. Never modify or alter this product
- ▶ Please contact 3M for further information on alternative or additional protection requirements

Compatibility

The 3M™ 4-series Mesh Faceshields are designed to be used with 3M™ Industrial Safety helmets and 3M™ PELTOR™ Earmuffs.

The faceshield holders V43 and V46 are connected to the helmets through a 3M™ PELTOR™ earmuff or a 3M™ P3E adapter if hearing protection is not required. The faceshield holder V40 can be directly mounted to over-the-head earmuffs.

Storage

Recommended storage conditions	+3° C – +40° C, <85% humidity
Maximum recommended product 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 warranty.

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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