

3M™ PELTOR™ Earmuffs H31 Series

Technical datasheet



Product description

The 3M™ PELTOR™ Earmuffs H31 Series are available in headband or helmet mounted versions. Designed to provide a moderate level of attenuation, which meets the needs of an extensive range of industrial application. These products are particularly suited to meet the needs of the forestry industry.

When correctly selected and worn, these earmuffs can help to reduce exposure to hazardous levels of noise. The helmet mounted version is designed to fit a wide range of industrial safety helmets (see below for further details).

Key features

- ▶ Attractive, low profile stylish design
- ▶ Bevelled cup design can help improve compatibility with some industrial safety helmets
- ▶ Soft wide foam cushions helps reduce pressure around the ears and improves comfort and wearability
- ▶ Helmet mounted version fits directly to many industrial safety helmets without the need of any adapter
- ▶ Replaceable cushions and inserts are available separately to extend the life of your earmuffs
- ▶ Unique low profile headband design helps maintain constant pressure thus providing confidence in protection

Standards and approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate Directives or Regulations to fulfill the requirements for the CE and/or UKCA marking.

The full text of the Declaration of Conformity is available at the following internet address: www.3M.com/PELTOR/DOC.

A copy of the Declaration of Conformity and additional information required in the Directives or Regulations can also be obtained by contacting 3M in the country of purchase.

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. Refer to applicable regulations and guidance on how to adjust attenuation label value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

Applications

The 3M™ PELTOR™ H31 earmuffs are ideal for protection against noise arising from a wide range of applications in the workplace. Examples of typical applications include:

- ▶ Forestry
- ▶ Engineering
- ▶ Foundry
- ▶ Metal processing
- ▶ Woodworking
- ▶ Construction
- ▶ Textile manufacture
- ▶ Chemical and pharmaceutical manufacture
- ▶ Cement manufacture
- ▶ Printing



Images are for illustration only and may not reflect exact markings on product received.

Material listing

Component	Headband	Attachable version
Headband/neckband and cover/sleeve	Stainless steel wire, PVC, Acetal	N/A
Helmet attachment arm	N/A	Stainless steel, acetal, polyamide
Cups	ABS (acrylonitrile butadiene styrene)	ABS
Insert (liner)	Polyurethane foam	Polyurethane foam
Cushions and cushion covers	Polyurethane foam and PVC	Polyurethane foam and PVC

Approved carrier combinations

Brand	Model number	P3 Adapter code	3M™ PELTOR™ Optime™ I Earmuffs	3M™ PELTOR™ Optime™ II Earmuffs	3M™ PELTOR™ Optime™ III Earmuffs
3M	SecureFit™ X5500 (Basic combination)	E	S, M, L	S, M, L	M, L
3M	SecureFit™ X5000	E	S, M, L	S, M, L	M, L
3M	G3000	E	M, L	M, L	M, L
3M	G3501	E	S, M, L	M, L	M, L
3M	G500 Headgear	E	M, L	S, M, L	M, L
3M	G22	E	M, L	M, L	M, L
3M	H-700	E	M, L	L	L
3M	Versaflo™ M-207	AF	L	L	L
3M	Versaflo™ M-307	AF	L	L	L
3M	Speedglas™ 9100MP (M-300)	AF	L	L	L
3M	Speedglas™ 9100 MP-Lite (M-200)	AF	L	L	L

Accessories/replacement

The cushions and inserts on the 3M™ PELTOR™ Earmuff H31 Series can be replaced with the hygiene kits listed below to maintain consistent protection, hygiene, and comfort.

Hygiene kits:


Earmuff model	Hygiene kit
3M™ PELTOR™ H31 Earmuffs (H31A, H31P3)	HYX2

In addition, HY100 sweat pads are also available that can be placed on the cushions to help absorb moisture and sweat.

Attenuation values and weights


3M™ PELTOR™ H31A Earmuff

EN 352-1:2020

	Frequency (Hz) <i>f</i>							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	14.3	19.9	30.6	39.4	35.9	34.8	34.4	35.5	30.1	21.4	31.6	165 g
SD (dB)	3.6	2.7	2.1	2.8	3.4	3.9	2.2	2.4	2.3	3.0	2.1	
APVf (dB)	10.7	17.2	28.5	36.6	32.5	30.9	32.2	33	28	18	30	

3M™ PELTOR™ H31P3 Earmuff

EN 352-3:2020

	Frequency (Hz) <i>f</i>							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	11.0	19.0	29.0	36.2	35.7	33.3	33.1	34.6	28.3	18.9	29.92	189 g
SD (dB)	3.1	2.4	2.7	2.1	2.2	2.6	4.8	2.4	2.0	2.6	2.1	
APVf (dB)	7.8	16.6	26.3	34.1	33.4	30.7	28.2	32	26	16	28	

Attenuation table key:

f = Test frequency

Mf = Mean attenuation value

SD = Standard deviation

APVf (Mf - SD) = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with LC – LA = -2dB)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with LC – LA = +2dB)

L = Low-frequency attenuation value (predicted noise level reduction for noise with LC – LA = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear).

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 & 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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