

3M™ PELTOR™ H31P3* Earmuffs

Technical Data Sheet

Product description

3M™ PELTOR™ H31P3* earmuffs feature a bevelled cup for improved compatibility and comfortable seal.

Applications

3M™ Peltor™ H31P3* earmuffs can be used in a wide range of industries requiring combination protection i.e., powered and supplied air respirator system and hearing protection. Typical examples of such applications include:

- Foundries
- Grinding

Standards

These hearing protectors have been produced to comply with the requirements of the Australian /New Zealand Standard AS/NZS 1270:2002.

Materials

The following materials are used in the manufacture of this product.

Component	Material
Inserts	Polyether
Cushions	Polyether
Cushions Cover	PVC
Helmet Attachment Arm	Stainless Steel Wire, PVC, Acetal, polyamid
Cups	ABS



Storage

Store the product in a clean and dry area before and after use.

Always store the product in the original packaging and away from any sources of direct heat or sunlight, dust and damaging chemicals.

Storage temperature range: -20 °C (-4°F) to 55 °C (131°F).

Relative humidity: <90%.

Helmet attachment version: ensure the earmuffs are in the storage position and that the cushions are not compressed.

Laboratory Attenuation Values

H31P3*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	13.8	18	25.4	32.2	36.7	34	34.4
SD (dB)	3.9	3.7	4	4.3	5.3	3.2	6.6
Mean - SD (dB)	9.9	14.3	21.4	27.9	31.4	30.8	27.8

SLC₈₀ 27dB (Class 5), Clamp Force 11.1

Hearing protector Class 5 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise 105dB(A) to less than 110dB(A), assuming an 85dB(A) criterion.

H31P3* + Versaflo™ M-100 Series Headtop

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	8.1	11.8	22.8	28.5	32.4	31.7	36.3
SD (dB)	7.3	7.9	6.8	5.5	5.9	5.5	6.1
Mean - SD (dB)	0.8	3.9	16.0	23.0	23.0	26.2	30.3

SLC₈₀ 20dB (Class 3), Clamp Force 8.6

Hearing protector Class 3 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise 95dB(A) to less than 100dB(A), assuming an 85dB(A) criterion.

H31P3* + Versaflo™ M-300 Series Headtop

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	11.6	17.6	28.8	32.7	35.7	33.0	33.9
SD (dB)	4.7	6.7	4.4	4.7	4.1	7.7	13.8
Mean - SD (dB)	6.9	10.9	24.4	28.0	31.6	25.3	20.1

SLC₈₀ 25dB (Class 4), Clamp Force 8.6

Hearing protector Class 4 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise 100dB(A) to less than 105dB(A), assuming an 85dB(A) criterion.

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.

These earmuffs were tested in combination with the G2000 industrial safety helmet using the P3K adapter, and Versaflo™ M-100 & M-300 Series Head Tops and may give different levels of protection if fitted to different helmets.

Mean = Mean attenuation value derived from testing in accordance with AS/NZS 1270:2002.

SD = Standard Deviation derived from testing in accordance with AS/NZS 1270:2002.

Mean-SD = Mean attenuation value minus Standard Deviation

SLC80 = Single number rating commonly used in Australia and New Zealand to compare acoustic performance of hearing protectors. The subscript '80' indicates that in well managed hearing protector programs, the protection provided is expected to equal or exceed the SLC80 in 80% of protector-wearer noise spectrum combinations.

Class = A simplified process for selecting hearing protectors based on the wearers 8-hour equivalent continuous A-weighted sound pressure level.

Fitting Instructions for M-Series Head Tops

These helmet mounted earmuffs come with the appropriate mouldings and 2 pairs of self tapping screws to enable firm connection to the M-Series headtops. (Note: the fitting process is the same for the M-100 and M-300 headtops).

The headtop has two small indents on each side just behind the visor pivot point (circled) where the earmuffs are screw mounted (figure 1).



Fig. 1

The earmuff moulding is positioned on the headtop in the orientation shown (figure 2) - the mounting screw holes are positioned on the visor side. (Note there is a left and right sided earmuff). Two screws are inserted into the holes of the mounting and tightened firmly onto the headtop. Repeat for other side.



Fig. 2

Ordering Information

3M Order Code	Model #	Description
AT010592841	H31P3AF	Earmuffs for M-Series Head Tops, M100 = Class 3, M300 = Class 4

PLEASE NOTE: If H31P3* is required for use on industrial Helmets, an additional 3M™ Back Plate Helmet Earmuff Attachment will need to be ordered. Please see below table to.

3M Helmet Adapters

UU010853503

Z3GS 25MM

Helmet Adapter for 3M Scott Safety Helmets and 3M Scott Safety Visor Range



XL001642468

Z3E 30MM

Helmet Adapter for common helmets



XL001642484

Z3G 25MM

Helmet Adapter for 3M Visor Range



WARNING! Hearing Protection Products

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see supervisor, User instructions, or call 3M TechAssist Helpline 1800 024 46.

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