

3M™ 1310 Banded Earplugs

Technical datasheet



Product description

The 3M™ 1310 Banded Earplugs are fitted with semi-aural eartips designed to seal the entrance part of the ear canal to help reduce exposure to hazardous levels of noise and loud sound.

The 3M™ 1310 are approved for use in under-the-chin (U-T-C) and behind-the-head (B-T-H) wearing mode. They may be used for protection against moderate noise exposure offering protection across all test frequencies. See full attenuation data below.

Key features

- ▶ Flexible and durable band featuring pressure diffusion technology
- ▶ Soft semi-aural foam eartips seal entrance part of ear canal
- ▶ Replacement eartips are available (3M™ 1311)
- ▶ Designed to be worn in U-T-C and B-T-H wearing mode for minimal interference with other PPE such as head protection
- ▶ SNR 26dB (U-T-C) and SNR 25dB (B-T-H)
- ▶ Compatible with the 3M™ E-A-Rfit™ Dual-Ear Validation System

Standard and approval:

The 3M™ 1310 banded earplugs are type approved against the European Regulation (EU) 2016/425 by BSI Group, The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands, Notified Body No. 2797.

These products meet the requirement of the Harmonised European Standard EN 352-2:2002.

The applicable Certificate(s) and Declaration(s) of Conformity are available at www.3M.com/Hearing/certs.

Materials

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

Band	Acetal (POM)
Eartips	Polyurethane foam

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

Attenuation values in U-T-C wearing mode

f (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	22.6	21.7	21.8	23.6	25.1	34.8	40.5	42.7
sf (dB)	5.0	4.6	4.5	4.3	3.0	3.2	4.3	3.6
APVf (dB)	17.6	17.0	17.3	19.3	22.1	31.6	36.2	39.1

SNR = 26dB, H = 30dB, M = 22dB, L = 19dB

Attenuation values in B-T-H wearing mode

f (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	19.9	20.1	20.4	22.7	24.7	36.2	40.1	42.9
sf (dB)	4.6	4.1	4.7	5.5	2.9	4.3	3.0	4.1
APVf (dB)	15.3	16.0	15.8	17.2	21.8	31.9	37.1	38.8

SNR = 25dB, H = 30dB, M = 21dB, L = 18dB, APVf (dB) = Mf – sf (dB)

Key:

f = Test frequency

Mf = Mean attenuation value

sf = Standard deviation

APVf = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with $L_C - L_A = -2\text{dB}$)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with $L_C - L_A = +2\text{dB}$)

L = Low-frequency attenuation value (predicted noise level reduction for noise with $L_C - L_A = +10\text{dB}$)

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