



Notified Body:

SATRA customer number:

EU Type-Examination Certificate

Certificate number:

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

Product reference:

Description:

- FM-1 Ear-muff, over-the-head type, plastic cups with foam liner and foam filled cushion, plastic headband, Size: S, M, L SNR = 31 dB
- FM-2 Ear-muff, over-the-head type, plastic cups with foam liner and foam filled cushion, plastic headband, Size: S, M, L SNR = 33 dB
- FM-3 Ear-muff, over-the-head type, plastic cups with foam liner and foam filled cushion, plastic headband, Size: S, M, L SNR = 34 dB

Classification:

FM-1

Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 32.0$ dB	$SNR_S = 1.4$ dB
Mean attenuation (dB)	15.9	19.2	28.1	37.7	37.5	40.1	37.5	$H_M = 38.2$ dB	$H_S = 2.0$ dB
Standard Deviation (dB)	1.9	2.0	2.3	2.4	2.0	2.9	2.8	$M_M = 29.7$ dB	$M_S = 1.5$ dB
Assumed protection (dB)	14.0	17.2	25.8	35.3	35.5	37.2	34.6	$L_M = 21.6$ dB	$L_S = 1.4$ dB
	SNR = 31 dB		H = 36 dB		M = 28 dB		L = 20 dB		

FM-2

Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 34.4$ dB	$SNR_S = 1.7$ dB
Mean attenuation (dB)	19.6	23.0	32.5	39.5	33.9	40.1	40.2	$H_M = 36.3$ dB	$H_S = 2.3$ dB
Standard Deviation (dB)	2.6	2.3	2.7	2.4	2.5	3.2	3.9	$M_M = 32.7$ dB	$M_S = 1.8$ dB
Assumed protection (dB)	17.0	20.7	29.8	37.1	31.4	36.9	36.3	$L_M = 25.5$ dB	$L_S = 2.1$ dB
	SNR = 33 dB		H = 34 dB		M = 31 dB		L = 23 dB		

FM-3

Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 35.5$ dB	$SNR_S = 2.0$ dB
Mean attenuation (dB)	21.7	23.8	33.3	38.2	35.9	41.5	39.6	$H_M = 37.9$ dB	$H_S = 2.6$ dB
Standard Deviation (dB)	2.8	2.2	2.7	2.8	2.8	3.4	3.0	$M_M = 33.6$ dB	$M_S = 2.0$ dB
Assumed protection (dB)	18.8	21.6	30.6	35.4	33.1	38.1	36.6	$L_M = 26.8$ dB	$L_S = 2.0$ dB
	SNR = 34 dB		H = 35 dB		M = 32 dB		L = 25 dB		

Standards/Technical specifications applied:
EN 352-1:2020

Technical reports/Approval documents:

- Intertek: 190725089GZU-001
- Michael & Associates: Q4453A Revision 1, Q4455A Revision 1, Q4457A Revision 1

Signed on behalf of SATRA:

Geoff Graham

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