



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-1A	Ear-muff, over-the-head type, plastic cups with foam liner and foam filled cushion, Size: S, M, L SNR = 31 dB
FM-1B	Ear-muff, over-the-head type, plastic cups with foam liner and foam filled cushion, Size: S, M, L SNR = 31 dB
FM-1C	Ear-muff, behind-the-head type, plastic cups with foam liner and foam filled cushion, metal neckband, Size: S, M, L SNR = 30 dB
FM-1D	Ear-muff, helmet-mounted type, plastic cups with foam liner and foam filled cushion, plastic and steel cup supporting arms, attached to industrial helmet model: MSA Vgard, SNR = 28 dB

Classification:

FM-1A (EN 352-1)	SNR = 31 dB		H = 33 dB		M = 29 dB		L = 21 dB			
Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 32.5$	$SNR_S = 1.9$	
Mean attenuation (dB)	15.8	21.8	30.9	40.1	37.5	34.3	31.5	$H_M = 35.3$	$H_S = 2.2$	
Standard Deviation (dB)	2.4	2.5	2.9	2.9	3.0	2.7	2.6	$M_M = 31.4$	$M_S = 2.0$	
Assumed protection (dB)	13.3	19.3	28.0	37.3	34.5	31.6	28.9	$L_M = 23.1$	$L_S = 2.2$	

FM-1B (EN 352-1)	SNR = 31 dB		H = 35 dB		M = 29 dB		L = 20 dB			
Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 32.2$	$SNR_S = 1.2$	
Mean attenuation (dB)	15.8	19.4	31.2	40.4	37.4	37.0	34.8	$H_M = 37.0$	$H_S = 1.7$	
Standard Deviation (dB)	2.7	1.6	2.9	2.4	3.2	3.0	2.5	$M_M = 30.4$	$M_S = 1.3$	
Assumed protection (dB)	13.1	17.8	28.3	38.0	34.1	34.0	32.3	$L_M = 21.8$	$L_S = 1.7$	

FM-1C (EN 352-1)	SNR = 30 dB		H = 32 dB		M = 29 dB		L = 21 dB			
Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 32.0$	$SNR_S = 1.9$	
Mean attenuation (dB)	18.3	20.6	29.1	38.4	36.4	33.2	34.1	$H_M = 34.8$	$H_S = 2.8$	
Standard Deviation (dB)	4.0	2.5	2.5	2.5	3.2	3.8	3.5	$M_M = 30.5$	$M_S = 1.8$	
Assumed protection (dB)	14.3	18.0	26.6	35.8	33.2	29.4	30.6	$L_M = 23.4$	$L_S = 2.6$	

FM-1D (EN 352-3)	SNR = 28 dB		H = 30 dB		M = 27 dB		L = 20 dB			
Frequency (Hz)	125	250	500	1000	2000	4000	8000	$SNR_M = 30.4$	$SNR_S = 2.0$	
Mean attenuation (dB)	16.7	19.8	27.1	35.3	35.5	31.3	31.0	$H_M = 32.9$	$H_S = 2.6$	
Standard Deviation (dB)	3.0	2.7	3.4	3.6	3.2	3.5	3.8	$M_M = 28.9$	$M_S = 2.2$	
Assumed protection (dB)	13.7	17.0	23.7	31.7	32.3	27.8	27.2	$L_M = 22.3$	$L_S = 2.6$	

Standards/Technical specifications applied:
EN 352-1:2020; EN 352-3:2020

Technical reports/Approval documents:

Intertek: 190725089GZU-001

Michael & Associates: Q4648A Revision 1, Q4738A Revision 1, Q5995A Revision 1, Q4649A Revision 1

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Signed on behalf of SATRA:

Geoff Graham