



SOUNDSAVER® PRO+



As personal protective equipment (PPE) of class 2, Soundsaver® Pro+ is subject to the obligations of the European Union for this product category (2003/10/EU).

EC type examination:

Soundsaver® Pro+ has been type examined according to the European norm EN 352-2 by the European standard EN 352-2 by the PZT GmbH Wilhelmshaven/ Germany.

Patent:

The Soundsaver® Pro+ attenuation valve is patent-protected.

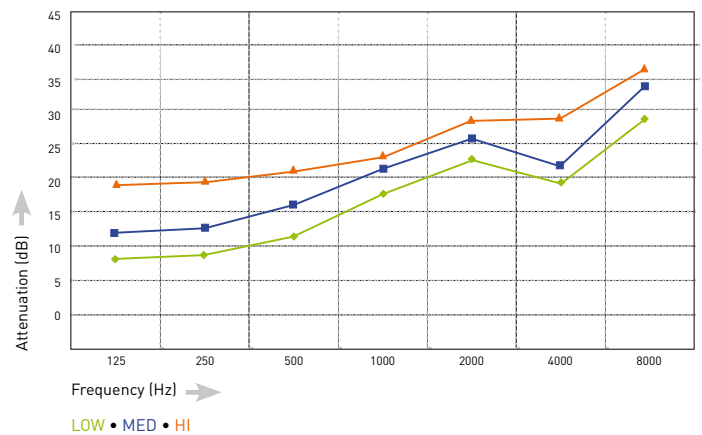
ISO 9001:

Soundsaver® Pro+ is manufactured by Audiolab Austria in compliance with the ISO 9001 quality directives.

Protective effect of SOUNDSAVER® PRO+

[APV-value]

Acoustic test according to PZT GmbH, Wilhelmshaven





Minimum attenuation according to EN 352-2

Frequency in Hz	125	250	500	1000	2000	4000	8000
$M_f - s_f$ in dB	5	8	10	12	12	12	12

M_f are mean attenuation values and s_f is the standard deviation according to EN 24869-1

Mean attenuation values in dB

Frequency in Hz	125	250	500	1000	2000	4000	8000
HI	22.8	23	24.5	26.9	30.9	21.7	41
MED	16.6	16.7	18.8	23.9	29.3	26.3	39.2
LOW	11.3	11.8	14.8	20.6	27.5	22.6	35.8

Standard deviation in dB

Frequency in Hz	125	250	500	1000	2000	4000	8000
HI	3.5	3.3	2.9	3.1	2.8	3.5	4.4
MED	4.5	3.4	3.0	2.9	3.6	4.1	4.4
LOW	3.5	3.2	3.2	3.1	4.1	3.2	7.1

Assumed protection value (APV) in dB

Frequency in Hz	125	250	500	1000	2000	4000	8000
HI	19.3	19.7	21.6	23.8	28.1	28.2	36.6
MED	12.1	13.3	15.8	21.0	25.7	22.2	34.8
LOW	7.8	8.6	11.6	17.5	23.4	19.4	28.7

SNR Value, HML Values in dB

	SNR Value ¹	H-Value ²	M-Value ³	L-Value ⁴
HI	27	28	24	22
MED	22	24	19	16
LOW	19	21	16	11

¹ SNR is the value which is subtracted from the measured C-weighted sound pressure level in order to estimate the effective A-weighted sound pressure level.

² High-frequency attenuation value

³ Medium-frequency attenuation value

⁴ Low-frequency attenuation value

Other verified properties

	HI	MED	LOW
Ability of hearing signals in railway construction environment	X		
Ability of hearing signals for vehicle drivers in normal traffic situations	X		
Criteria „Hearing warning signals“, „information-related noises“ and „speech intelligibility“ fulfilled	X	X	X

