

ANSI S3.19-1974 Attenuation Charts

MSA Helmet-Mounted SoundControl® and left/RIGHT™ Hearing Protection



SoundControl HPE Cap Model



SoundControl EXC Cap Model



SoundControl XLS Cap Model

SoundControl HPE Cap Model (P/N 10061272)

	NRR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD® H1 CAP	25	A	Mean	18	21	29	34	35	39	41	43	42
			Std. Dev. (dBA)	3.1	2.6	2.6	2.5	3.0	1.5	2.8	3.2	2.9
V-GARD CAP (M)	27	A	Mean	23	26	31	33	34	38	40	43	43
			Std. Dev. (dBA)	2.6	2.6	2.5	2.2	2.6	2.6	2.0	3.7	2.4
TOPGARD® CAP	26	A	Mean	23	25	32	34	33	38	40	43	42
			Std. Dev. (dBA)	2.5	3.1	3.2	2.7	2.3	3.8	2.7	4.1	3.5
THERMALGARD® CAP	27	A	Mean	24	25	32	33	34	36	40	43	43
			Std. Dev. (dBA)	2.7	3.3	2.8	2.3	1.9	2.7	2.2	3.3	3.5
V-GARD 500 CAP	26	A	Mean	23	25	30	34	33	39	40	45	44
			Std. Dev. (dBA)	3.1	3.5	2.7	2.2	2.5	3.1	2.2	3.4	2.6
VANGUARD II™ CAP	26	A	Mean	20	24	32	34	33	38	38	40	41
			Std. Dev. (dBA)	3.4	2.9	3.1	2.8	2.2	2.3	2.1	2.7	3.3

SoundControl EXC Cap Model (P/N 10061230)

	NCR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD CAP (M)	25	A	Mean	18	22	29	32	34	36	39	42	41
			Std. Dev. (dBA)	2.6	2.2	2.3	2.6	2.5	3.4	3.5	4.3	3.6
TOPGARD CAP	24	A	Mean	18	22	28	32	33	35	38	42	41
			Std. Dev. (dBA)	3.8	2.9	2.6	2.7	2.2	2.7	1.5	3.8	3.7
THERMALGARD CAP	23	A	Mean	16	21	30	32	33	35	39	41	41
			Std. Dev. (dBA)	2.7	2.4	2.6	3.2	4.2	3.7	4.5	3.6	3.7
V-GARD 500 CAP	24	A	Mean	16	22	29	32	33	37	39	44	42
			Std. Dev. (dBA)	3.5	3.0	3.0	2.4	2.3	2.7	2.6	3.4	3.2
VANGUARD II CAP	24	A	Mean	17	21	30	32	33	36	37	39	40
			Std. Dev. (dBA)	3.3	2.1	2.8	3.3	2.4	2.0	2.6	3.1	3.4

WE KNOW WHAT'S AT STAKE.

ANSI S3.19-1974 Attenuation Charts



SoundControl SH Full-Brim Model



left/RIGHT (High) Cap Model



left/RIGHT (Medium) Cap Model

SoundControl XLS Cap Model (P/N 10061535)

	NRR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD H1 CAP	23	A	Mean	16	19	27	32	35	40	40	39	38
			Std. Dev. (dBA)	3.1	2.7	2.9	2.2	2.0	2.4	3.1	2.8	3.3
V-GARD CAP (M)	23	A	Mean	17	22	28	31	33	35	38	40	41
			Std. Dev. (dBA)	3.9	2.8	3.4	2.3	3.1	3.9	2.6	3.5	3.7
TOPGARD CAP	23	A	Mean	18	21	26	31	33	36	39	41	41
			Std. Dev. (dBA)	3.5	2.5	2.3	3.4	2.9	3.3	3.2	3.7	4.1
THERMALGARD CAP	22	A	Mean	18	20	28	31	33	35	37	41	41
			Std. Dev. (dBA)	3.4	2.6	3.6	3.2	3.7	3.8	3.4	3.9	4.3
V-GARD 500 CAP	22	A	Mean	17	21	28	31	33	37	38	41	42
			Std. Dev. (dBA)	4.3	3.4	2.8	2.4	2.4	3.8	3.1	4.1	4.1
VANGUARD II CAP	23	A	Mean	17	20	29	33	33	37	39	41	41
			Std. Dev. (dBA)	3.5	2.7	3.2	2.5	2.8	4.4	4.1	2.5	3.6

SoundControl SH Full-Brim Model (P/N 10129327)

	NRR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD SLOTTED FULL-BRIM HAT	25	A	Mean	16.6	20.9	31.3	34.9	34.6	37.2	39.4	41.1	40.3
			Std. Dev. (dBA)	2.5	1.9	2.1	2.8	3.1	3.2	2.7	2.0	3.0

left/RIGHT (High) Cap Model (P/N 10087422)

	NRR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD H1 CAP	27	AL	Mean	20	23	33	40	39	38	38	38	39
			Std. Dev. (dBA)	3.5	2.2	3.1	2.4	2.8	3.3	3.7	3.5	3.3
V-GARD CAP (M)	28	AL	Mean	20	26	33	39	38	37	38	40	39
			Std. Dev. (dBA)	2.6	1.9	2.1	3.3	3.1	2.9	2.8	2.1	3.3
TOPGARD CAP	27	A	Mean	19	25	33	37	37	37	36	37	36
			Std. Dev. (dBA)	2.7	2.4	2.5	3.0	2.9	2.9	2.9	2.7	3.2
THERMALGARD CAP	27	AL	Mean	20	26	33	36	36	37	37	39	38
			Std. Dev. (dBA)	3.0	2.6	3.3	3.2	2.8	2.7	2.0	3.1	3.7
V-GARD 500 CAP	27	AL	Mean	21	26	34	36	36	37	37	39	39
			Std. Dev. (dBA)	3.8	2.5	2.8	3.1	2.3	3.1	3.1	2.9	4.0
VANGUARD II CAP	26	A	Mean	19	25	32	36	36	37	37	37	37
			Std. Dev. (dBA)	3.3	2.9	3.1	3.0	2.6	2.7	2.6	3.4	2.8
V-GARD CAP (S)	27	AL	Mean	20	26	33	39	38	37	38	37	38
			Std. Dev. (dBA)	2.4	2.5	3.2	2.8	3.7	3.0	2.6	3.0	2.7
SUPER-V CAP	27	AL	Mean	20	26	33	37	37	38	36	39	38
			Std. Dev. (dBA)	2.9	3.1	3.1	2.8	3.4	2.8	2.2	3.4	3.9

left/RIGHT (Medium) Cap Model (P/N 10087429)

	NRR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD H1 CAP	23	A	Mean	15	19	28	38	38	38	36	35	37
			Std. Dev. (dBA)	3.1	2.3	3.0	3.5	3.0	2.7	3.2	3.2	4.1
V-GARD CAP (M)	25	A	Mean	17	22	29	36	37	39	38	40	39
			Std. Dev. (dBA)	3.0	2.2	2.1	3.1	3.3	2.8	2.9	3.8	4.4
TOPGARD CAP	24	A	Mean	15	21	29	35	35	38	39	38	38
			Std. Dev. (dBA)	2.9	2.7	2.6	3.4	3.0	3.4	2.9	3.3	3.6
THERMALGARD CAP	24	A	Mean	18	23	29	33	35	38	37	39	39
			Std. Dev. (dBA)	3.9	3.1	2.7	3.1	3.1	3.5	3.6	3.4	3.4
V-GARD 500 CAP	24	A	Mean	17	23	29	35	37	40	39	40	39
			Std. Dev. (dBA)	3.8	3.3	2.8	2.4	2.6	3.2	3.1	3.4	4.4
VANGUARD II CAP	24	A	Mean	16	20	29	34	35	37	35	38	37
			Std. Dev. (dBA)	2.7	2.4	2.3	2.9	3.2	3.1	2.2	3.9	3.7
V-GARD CAP (S)	24	A	Mean	17	21	29	36	35	38	39	38	39
			Std. Dev. (dBA)	3.4	3.0	2.8	3.1	2.6	2.7	3.0	3.6	3.5
SUPER-V CAP	24	A	Mean	16	21	30	35	36	39	36	39	39
			Std. Dev. (dBA)	2.0	2.8	3.3	3.3	3.3	2.6	3.5	5.0	4.7



left/RIGHT (Low) Cap Model

left/RIGHT (Low) Cap Model (P/N 10087439)

	NRR	CSA Class	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-GARD H1 CAP	21	B	Mean	12	16	23	35	33	33	33	34	32
			Std. Dev. (dBA)	2.2	2.1	2.5	2.5	2.2	2.6	2.4	1.8	1.7
V-GARD CAP (M)	21	B	Mean	14	17	25	31	32	33	35	35	35
			Std. Dev. (dBA)	2.9	2.8	2.3	3.0	2.8	2.4	2.1	2.8	2.7
TOPGARD CAP	21	B	Mean	14	17	25	32	31	33	36	35	34
			Std. Dev. (dBA)	3.5	2.8	2.1	3.0	3.1	2.0	2.6	2.5	2.6
THERMALGARD CAP	21	B	Mean	15	18	26	31	32	32	35	35	35
			Std. Dev. (dBA)	3.2	2.9	2.4	2.9	2.3	2.6	3.5	3.0	2.6
V-GARD 500 CAP	21	B	Mean	15	20	25	32	32	32	35	36	35
			Std. Dev. (dBA)	2.7	3.1	2.6	2.5	2.5	3.1	3.6	2.7	3.7
VANGUARD II CAP	20	B	Mean	13	17	25	30	30	32	34	35	35
			Std. Dev. (dBA)	3.0	2.4	3.0	3.0	2.6	2.5	2.1	3.0	2.9
V-GARD CAP (S)	21	B	Mean	15	19	37	33	31	31	35	35	34
			Std. Dev. (dBA)	3.7	2.8	3.0	3.7	3.0	2.3	3.2	2.8	2.9
SUPER-V CAP	20	B	Mean	14	17	25	32	32	33	35	36	35
			Std. Dev. (dBA)	2.8	2.7	2.9	3.5	3.4	3.0	2.7	2.5	3.4

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

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