

SOUND CONTROL®

PASSIVE

ANSI S3.19-1974 Attenuation Charts for MSA Helmet-Mounted Hearing Protectors

HPE Cap Model Part No. 10061272 (Meets CSA Class A)

Helmet	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	23	26	31	33	34	38	40	43	43
NRR-27	Stand. dev. (dB)	2.6	2.6	2.5	2.2	2.6	2.6	2.0	3.7	2.4
V-Gard 500 Cap	Mean	23	25	30	34	33	39	40	45	44
NRR-26	Stand. dev. (dB)	3.1	3.5	2.7	2.2	2.5	3.1	2.2	3.4	2.6
Topgard® Cap	Mean	23	25	32	34	33	38	40	43	42
NRR-26	Stand. dev. (dB)	2.5	3.1	3.2	2.7	2.3	3.8	2.7	4.1	3.5
Thermalgard® Cap	Mean	24	25	32	33	34	36	40	43	43
NRR-27	Stand. dev. (dB)	2.7	3.3	2.8	2.3	1.9	2.7	2.2	3.3	3.5
Vanguard® Cap	Mean	20	24	32	34	33	38	38	40	41
NRR-26	Stand. dev. (dB)	3.4	2.9	3.1	2.8	2.2	2.3	2.1	2.7	3.3



EXC Cap Model Part No. 10061230 (Meets CSA Class A)

Helmet	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	18	22	29	32	34	36	39	42	41
NRR-25	Stand. dev. (dB)	2.6	2.2	2.3	2.6	2.5	3.4	3.5	4.3	3.6
V-Gard 500 Cap	Mean	16	22	29	32	33	37	39	44	42
NRR-24	Stand. dev. (dB)	3.5	3.0	3.0	2.4	2.3	2.7	2.6	3.4	3.2
Topgard® Cap	Mean	18	22	28	32	33	35	38	42	41
NRR-24	Stand. dev. (dB)	3.8	2.9	2.6	2.7	2.2	2.7	1.5	3.8	3.7
Thermalgard® Cap	Mean	16	21	30	32	33	35	39	41	41
NRR-23	Stand. dev. (dB)	2.7	2.4	2.6	3.2	4.2	3.7	4.5	3.6	3.7
Vanguard® Cap	Mean	17	21	30	32	33	36	37	39	40
NRR-24	Stand. dev. (dB)	3.3	2.1	2.8	3.3	2.4	2.0	2.6	3.1	3.4



XLS Cap Model Part No. 10061535 (Meets CSA Class A)

Helmet	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	17	22	28	31	33	35	38	40	41
NRR-23	Stand. dev. (dB)	3.9	2.8	3.4	2.3	3.1	3.9	2.6	3.5	3.7
V-Gard 500 Cap	Mean	17	21	28	31	33	37	38	41	42
NRR-22	Stand. dev. (dB)	4.3	3.4	2.8	2.4	2.4	3.8	3.1	4.1	4.1
Topgard® Cap	Mean	18	21	26	31	33	36	39	41	41
NRR-23	Stand. dev. (dB)	3.5	2.5	2.3	3.4	2.9	3.3	3.2	3.7	4.1
Thermalgard® Cap	Mean	18	20	28	31	33	35	37	41	41
NRR-22	Stand. dev. (dB)	3.4	2.6	3.6	3.2	3.7	3.8	3.4	3.9	4.3
Vanguard® Cap	Mean	17	20	29	33	33	37	39	41	41
NRR-23	Stand. dev. (dB)	3.5	2.7	3.2	2.5	2.8	4.4	4.1	2.5	3.6



SOUND CONTROL®

ELECTRONIC

ListenOnly Basic Cap Model (NRR – 20dB)

Part No. 10061277

(Meets CSA Class B)

ANSI S3.19-1974 Data

Helmets	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	13	16	24	30	33	34	34	38	37
V-Gard 500 Cap	Stand. dev. (dB)	2.2	2.2	2.8	2.8	3.6	3.1	2.7	3.2	3.2
Topgard® Cap										
Thermalgard® Cap										
Vanguard® Cap										
Super-V® Cap										

FM Pro Cap Model (NRR – 22dB)

Part No. 10061281

(Meets CSA Class A)

ANSI S3.19-1974 Data

Helmets	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	14	18	26	30	32	35	34	38	38
V-Gard 500 Cap	Stand. dev. (dB)	2.6	2.3	2.6	2.8	3.8	3.8	3.4	3.4	3.4
Topgard® Cap										
Thermalgard® Cap										
Vanguard® Cap										
Super-V® Cap										

CutOff Pro Cap Model (NRR – 22dB)

Part No. 10061279

(Meets CSA Class A)

ANSI S3.19-1974 Data

Helmets	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	14	18	26	30	32	35	34	38	38
V-Gard 500 Cap	Stand. dev. (dB)	2.6	2.3	2.6	2.8	3.8	3.8	3.4	3.4	3.4
Topgard® Cap										
Thermalgard® Cap										
Vanguard® Cap										
Super-V® Cap										

Connect-by-Cable Cap Model (NRR – 20dB)

Connect-by-Cable CutOff Cap Model (NRR – 20dB)

ANSI S3.19-1974 Data

Helmets	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
V-Gard® Cap	Mean	17	22	28	33	34	33	36	39	36
V-Gard 500 Cap	Stand. dev. (dB)	3.4	3.1	2.8	2.5	3.2	2.6	2.9	3.3	3.1
Topgard® Cap										
Thermalgard® Cap										
Vanguard® Cap										
Super-V® Cap										



MSA
The Safety Company