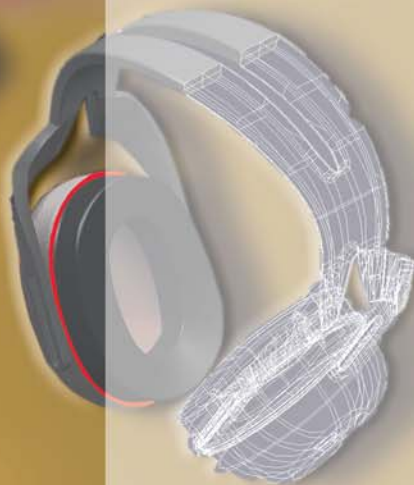


NORTH

HEARING PROTECTION



NORTH North Safety Products



HEAD PROTECTION



EYE & FACE PROTECTION



HEARING PROTECTION



RESPIRATORY PROTECTION



HAND PROTECTION



PROTECTIVE CLOTHING



FIRST AID PRODUCTS



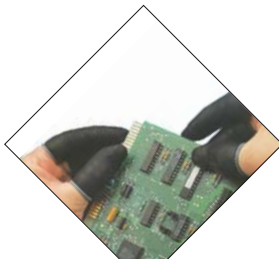
TRAFFIC SAFETY PRODUCTS



SIGNS AND LOCKOUTS



FALL PROTECTION



CONTROLLED ENVIRONMENT



PROTECTIVE FOOTWEAR



CONSUMER PRODUCTS

North Safety Products is the most diversified manufacturer of Safety and Personal Protective Equipment (PPE) in the world, with thirteen complete product lines, manufactured in ISO 9000 certified plants and employing over 3,000 people throughout the world.

North works closely with distributors and end users alike through innovative product design, quality manufacturing, solid marketing, training and support to our customers. Our goal is to enhance worker safety, improve productivity, and create confidence on the job and in the market place.

HEARING PROTECTION

The complete line of North hearing protection products and accessories is unsurpassed in the PPE industry. Our products are designed with the user in mind to be as comfortable as possible while protecting against hazardous noise in the workplace. North tests all of its hearing protection products at an independent third party NVLAP certified laboratory. Our utmost concern is with the quality and protection provided by North products and our commitment to making the workplace a safer and more productive environment.

Affiliated Companies

SALISBURY
Setting industry standards since 1855.

1-877-406-4501

TOTAL FIRE GROUP™
ADVANCED PERSONAL PROTECTION
1-800-688-6148

NORTH

HEARING PROTECTION

Training



As a world class manufacturer of PPE, North offers a wide variety of comprehensive inhouse and onsite training programs on all product lines.



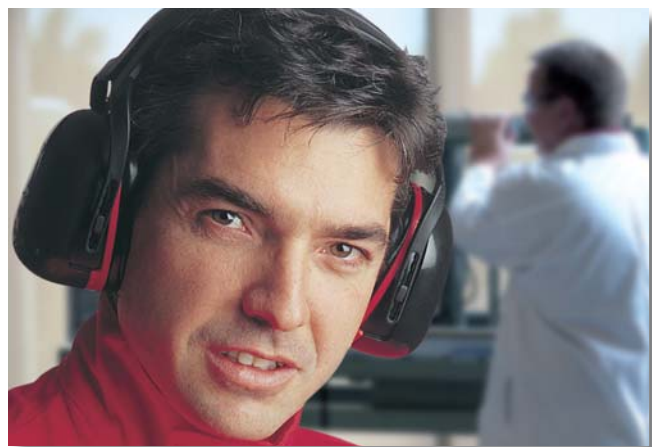
Research and Development



Research and development utilizing computer aided design is an ongoing process integrating our expertise in engineering, ergonomics and manufacturing. New models are developed, manufactured and tested for performance as well as consumer tested for fit, style and comfort.

Manufacturing

North uses modern, computerized injection molding presses in the fabrication of its hearing protection devices, producing a wide range of designs with consistent quality and performance.



Quality and Standards Testing

North tests its earmuffs and earplugs at Michael & Associates, an independent third party NVLAP certified laboratory. Using computer based audiology equipment, this provides assurance that the hearing protectors meet the requirements of the governing standards. All test data is available upon request.

DISPOSABLE

PROTECTION



THE LEADER IN PVC PLUGS

DECIDAMP²™

NRR

- Uncorded 29 dB
- Corded 29 dB



280006



282505

FEATURES/BENEFITS

- **Expands to fit ear canal**
Maximizes wearer protection.
- **Foam Construction**
One size fits most. Lightweight, soft and comfortable. Non-toxic and non-irritating, disposable.
- **Sealed Pouches**
Available in cellophane and degradable paper. Maximum cleanliness, assures employees that plugs are unused.
- **Available with Cord**
More convenient to use, visible for safety checks.

Part#	Description	Packaging
Uncorded		
280005	1 pair per cellophane pouch	200 pairs/carton
280019	5 pairs per poly bag	50 bags/carton
282505	1 pair per degradable paper pouch	200 pairs/carton
Corded		
280006	1 pair per cellophane pouch	100 pairs/carton
280035	1 pair per degradable paper pouch	100 pairs/carton

DECI 4200™

NRR

- Uncorded 31 dB
- Corded 27 dB



284240



284200

FEATURES/BENEFITS

- **Soft Polyurethane Foam**
Expands to fit ear canal
Maximizes noise protection.
Non-toxic and non-irritating, comfortable, flexible, easy to wear.
- **Sealed Pouches**
Available in cellophane and degradable paper in uncorded only
Minimizes contamination.
- **Available with Cord**
Visible for safety checks, reduces incidence of lost plugs.

Part#	Description	Packaging
Uncorded		
284200	1 pair per cellophane pouch	200 pairs/carton
284201	1 pair per degradable paper pouch	200 pairs/carton
Corded		
284240	1 pair per plastic pouch	100 pairs/carton

ANTIMICROBIAL

DISPOSABLE **HEARING**

PROTECTION



DECI GUARD AB™

WITH ANTIMICROBIAL AGENTS THAT PROTECT THE PRODUCT AGAINST DEGRADING MICROORGANISMS. AVAILABLE ONLY FROM NORTH

NRR

- Uncorded 29dB
- Corded 29dB



FEATURES/BENEFITS

- **Antimicrobial Protection**
Protects the product against degrading microorganisms.
It won't wear out, wash off or rub away.
Available only from North.
- **Re-engineered PVC Formula**
Higher density foam construction, improved, stronger cell structure, excellent wearer protection, better fit in the ear canal, increased comfort.
- **Quicker Recovery**
Easier to insert in the ear canal, earplugs quickly expand to fit the ear canal leading to increased ease of use.
- **Foam Construction**
One size fits most, lightweight, non-toxic and non-irritating, disposable.
- **Sealed Pouches**
Maximum cleanliness, assures employees that plugs are unused.
Available in cellophane and degradable paper.

Part#	Description	Packaging
Uncorded		
280205	1 pair per cellophane pouch	200/carton
280210	1 pair per biodegradable paper pouch	200/carton
Corded		
280250	1 pair per plastic pouch	100/carton
280255	1 pair per biodegradable paper pouch	100/carton

SOUND FIT

NRR

- Corded 29dB
- Uncorded 29dB



FEATURES/BENEFITS

- One size
- Easy to use
- Slow recovery PVC foam for a comfortable fit
- Dispenser boxes
- Moisture resistant
- Highly visible for easy identification
- Flame retardant
- Form a constant and effective noise seal
- Available corded or uncorded

Part#	Description	Packaging
Uncorded		
EP07	1 pair in an individual plastic bag	200 pairs/carton
EP08	1 pair in an individual paper bag	200 pairs/carton
Corded		
EP09	1 pair in an individual plastic bag	100 pairs/carton
EP10	1 pair in an individual paper bag	100 pairs/carton

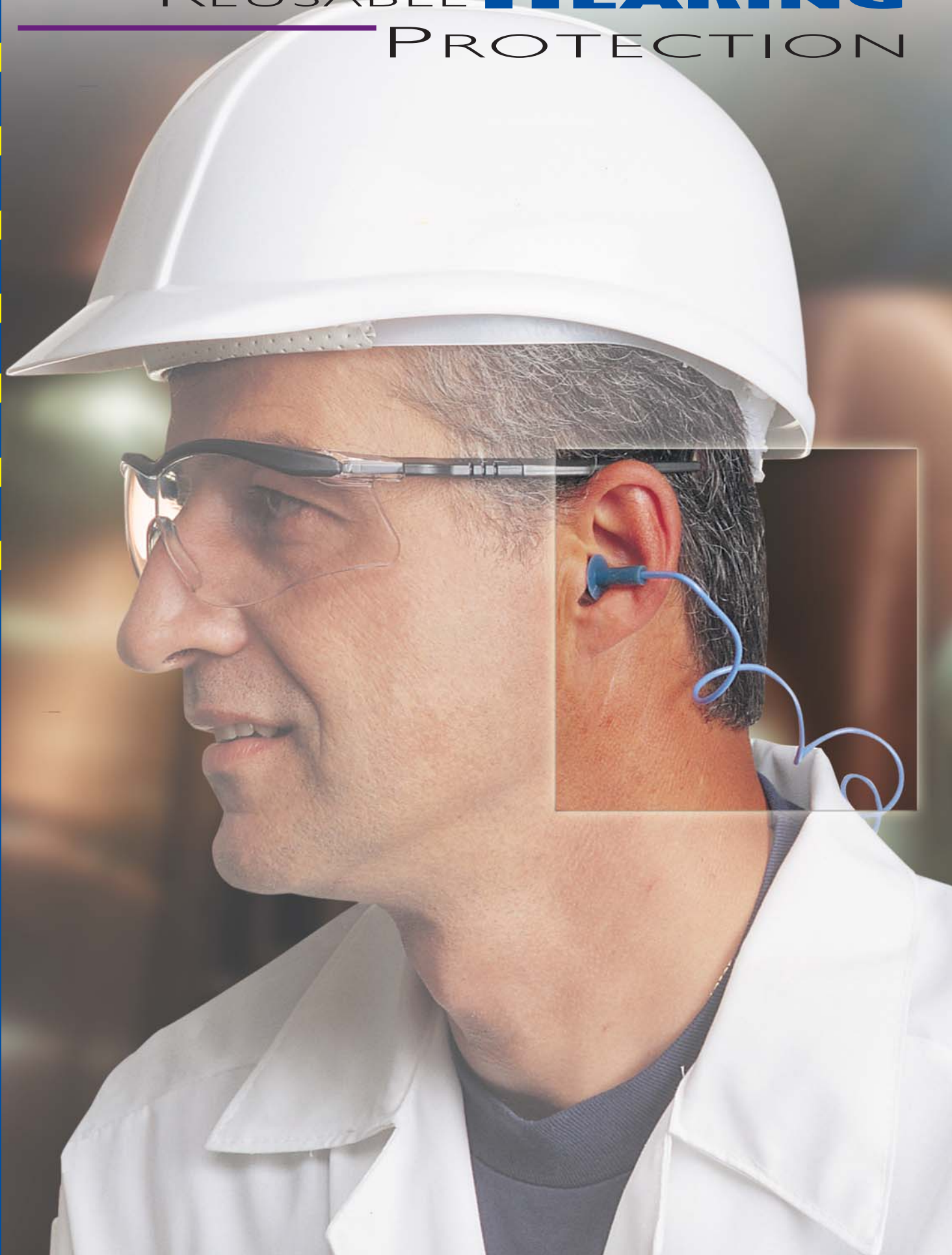
NORTH

Safety Products

ANTIMICROBIAL

REUSABLE **H**EARING

PROTECTION



COM-FITAB™

281605



NRR
27dB



281601



281613

COM-FIT®

281411



NRR
26dB



281405



281403

CONIC-FIT

EP02



NRR
24 dB



EP01

FEATURES/BENEFITS

- **Antimicrobial Protection**
Protects the product against degrading microorganisms.
It won't wear out, wash off or rub away.
Available only from North.
- **Insertion Device**
Ease of insertion, reduces attenuation variability.
- **Made of silicone rubber**
Non-toxic and non-irritating, durable, can be sterilized in boiling water or alcohol.
- **Triple-flange design**
Provides multi-surface sealing over a wide range of ear canal sizes.
- **Color coded in three sizes**
Fits broad range of users, neon colors for easier safety checks, easier to remember size.
- **Available with cord**
Convenient for wearing around neck, minimizes loss.

Available in 3 sizes: **Small, Medium and Large**

Part#	Description	Packaging
Com-fitAB Com-fit Uncorded		
281601	281401 Carrying Case 1 pair per box Green Small	20 boxes/carton
281603	281403 Carrying Case 1 pair per box Orange Medium	20 boxes/carton
281605	281405 Carrying Case 1 pair per box Blue Large	20 boxes/carton
Poly Bag		
281602	281402 1 pair per bag Green Small	100 bags/carton
281604	281404 1 pair per bag Orange Medium	100 bags/carton
281606	281406 1 pair per bag Blue Large	100 bags/carton
Corded		
281611	281411 Carrying Case 1 pair per box Green Small	20 boxes/carton
281613	281413 Carrying Case 1 pair per box Orange Medium	20 boxes/carton
281615	281415 Carrying Case 1 pair per box Blue Large	20 boxes/carton
Poly Bag		
281612	281412 1 pair per bag Green Small	100 bags/carton
281614	281414 1 pair per bag Orange Medium	100 bags/carton
281616	281416 1 pair per bag Blue Large	100 bags/carton

FEATURES/BENEFITS

- **Triple-flange design**
Provides multi-surface sealing over a wide range of ear canal sizes.
- **Color coded in three sizes**
Fits broad range of users, highly visible colors for easier safety checks, easier to remember size.
- **Insertion Device**
Ease of insertion, reduces attenuation variability.
- **Made of silicone rubber**
Non-toxic and non-irritating, durable, can be sterilized in boiling water or alcohol.
- **Available with cord**
Convenient for wearing around neck, minimizes loss.

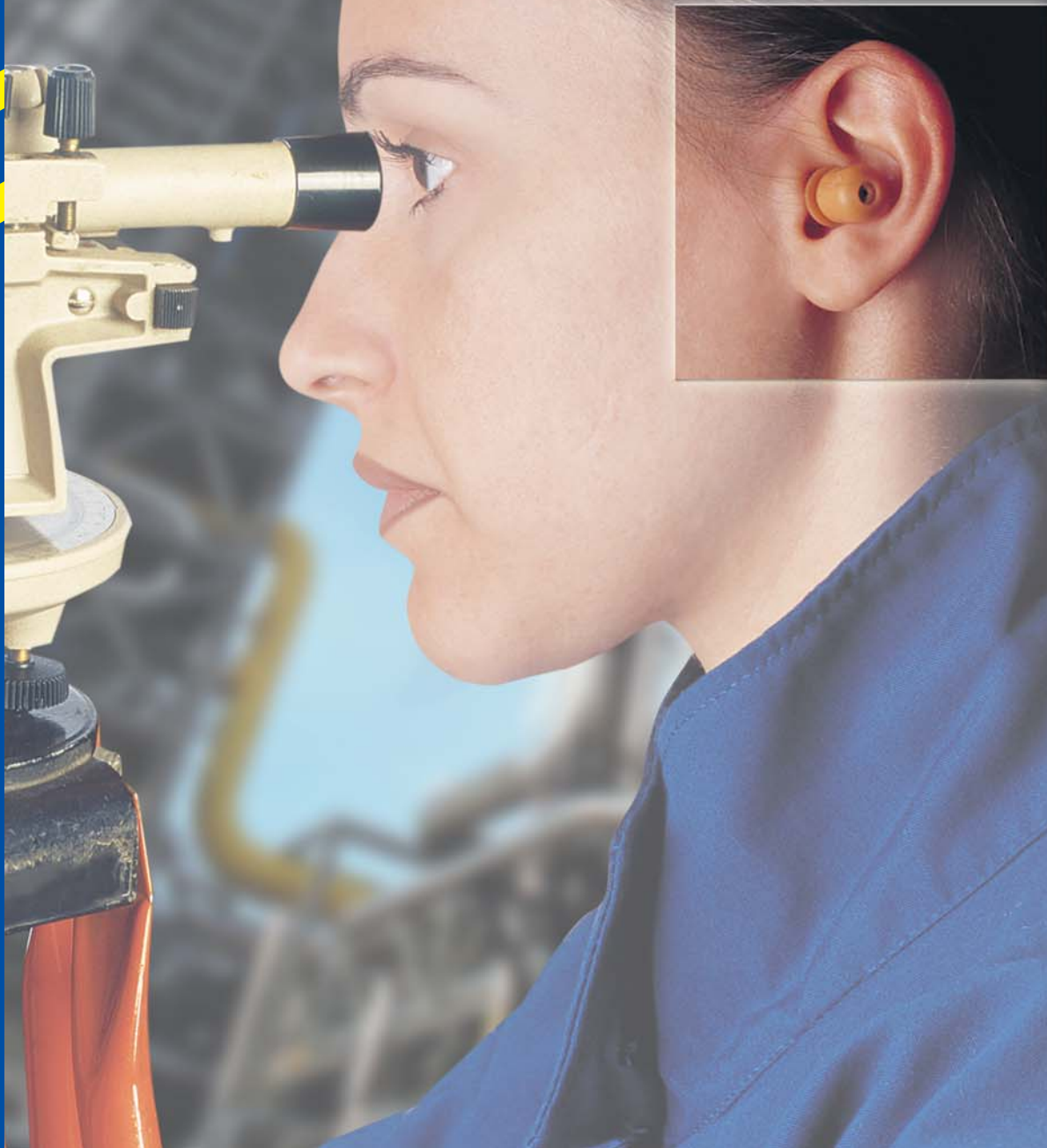
FEATURES/BENEFITS

- **Extreme comfort and fit**
Made from soft injection molded material.
- **One size fits most**
Extra long tab permits simple insertion and removal.
- **Each pair comes with its own storage case and handy chain**
- **Orange Color**
Highly visible color for easier safety checks.
- **Available with cord**
Convenient for wearing around neck, minimizes loss.

Part#	Description	Packaging
Uncorded		
EP01	Carrying Case 1 pair per box	20 boxes/carton
EP01100	Poly Bag 1 pair per bag	100 bags/carton
Corded		
EP02	Carrying Case 1 pair per box	20 boxes/carton
EP02100	Poly Bag 1 pair per bag	100 bags/carton

SPECIALTY REUSABLE

PROTECTION





FEATURES/BENEFITS

- **Exterior made with silicone rubber**
Soft and comfortable, non-toxic and non-irritating, durable.
- **Filled with silicone putty**
Conforms to ear canal, one size fits most.
- **Available with cord**
Convenient for wearing around neck, minimizes loss, visible for safety checks.
- **Easy to clean**
Wash in soap and water, boil in water, or wipe with alcohol.

Part#	Description	Packaging
Uncorded	Universal Size	
281120	1 pair per box	20 boxes/carton
281121	1 pair per bag	100 bags/carton
Corded	Universal Size	
281125	1 pair per box	20 boxes/carton
281126	1 pair per bag	100 bags/carton



FEATURES/BENEFITS

- **Moving diaphragm**
Attenuates harmful high-level impact noises, yet allows passage of normal background sounds and warning signals.
- **Made of silicone rubber**
Non-toxic and non-irritating, durable, easily cleaned.
- **Available in three sizes**
Minimizes fitting problems.
- **Triple-flange design**
Provides multi-surface sealing over a wide range of ear canal sizes.

Available in 3 sizes: **Small, Medium and Large**

Part#	Description	Packaging
Carrying Case		
281501	1 pair per box Small	20 boxes/carton
281503	1 pair per box Medium	20 boxes/carton
281505	1 pair per box Large	20 boxes/carton
Replacement Cushions		
281511	1 pair per box Small	12 boxes/carton
281513	1 pair per box Medium	12 boxes/carton
281515	1 pair per box Large	12 boxes/carton

BANDED

PROTECTION



BANDED SOLUTIONS

DECI 4300™ LIGHT-BAND

NRR
16 dB



284300

FEATURES/BENEFITS

- Semi-aural light hearing protector
- Easy to use
 - Does not require insertion into the ear canal.
- The soft caps (Pods) fit over the ear canal entrance
 - It blocks out low level harmful noise.
- Easy to replace
- Excellent uses for: intermittent use and visitors

Part#	Description	Packaging
284300	1 pair per ziplock bag	10 pairs/carton
Replacement Pods		
284320	10 pairs per bag	20 bags/carton

SILENT BAND-IT®

NRR
25 dB



281133

FEATURES/BENEFITS

- Exterior manufactured from silicone rubber
 - Soft and comfortable, durable, non-toxic and non-irritating.
 - Clean with soap and water or wipe with alcohol.
- Filled with silicone putty
 - Conforms to ear canal.
- Adjustable stainless steel band
 - Provides wearing flexibility (over-the-head, behind-the-head, under-the-chin).

Part#	Description	Packaging
Silent Band-It		
281133	1 set per ziplock bag	12 bags/carton
Hygiene Pack		
281135	1 Package contains: 2 replacement earplugs, 2 plug holders, 2 screws, and instructions.	1 package

INDUSTRIAL

EARMUFFS



UNIVERSAL *USE*

MUSTANG

DESIGNED FOR PROTECTION
THE POPULAR CHOICE

NRR

- EM4155 23 dB
- EM4157 20 dB



FEATURES

- No snag band - low profile for model EM4155
- Unique tension adjustability of EM4157 arms
- Unique cup design
- Good attenuation
- Durable
- Maximum comfort
- Soft sealing cushions
- Lightweight
- Dielectric

Part#	Color	Weight
Head Band Earmuff		
EM4155	Blue	209g./7.4oz.
Cap Mounted Earmuff		
EM4157	Blue	284g./9.3oz.

HORNET

FOR GENERAL APPLICATIONS
THE IDEAL PROTECTION

NRR

- EM2175 24 dB
- EM2177 22 dB



FEATURES

- Unique cup design
- Good to high frequency attenuation
- Lightweight
- Large soft sealing foam cushions (cool & comfortable)
- Dielectric
- Padded headband on EM2175
- Low profile cap mounted arms on EM2177

Part#	Color	Weight
Head Band Earmuff		
EM2175	Red	224g./7.9oz.
Cap Mounted Earmuff		
EM2177	Red	272g./9.6oz.

THE **NEW** **GENERATION**



SETTING THE **NEW** INDUSTRY STANDARD

JAGUAR

MAXIMUM

ATTENUATION, COMFORT & PROTECTION

NRR

• EM7195 29dB



EM7195



EM7197

FEATURES

- The latest generation of earmuffs
- Unique cup design allows for easy adjustment
- Large earmuff for maximum attenuation
- Comfortable, large, soft sealing cushions
- ABS head band with highly comfortable pad
- Distinctive style /cup and black band
- Lightweight in comparison with its size

Part#	Color	Weight
Jaguar	Head Band Earmuff	
EM7195	Black/Charcoal Grey	299g./10.5oz.
	Cap Mounted Earmuff	
EM7197	Black/Charcoal Grey	249g./8.8oz.

SABRE

UNIQUE

DESIGN & PERFORMANCE

NRR

• EM1115 26dB



EM1115



EM1117

FEATURES

- The latest generation of earmuffs
- Unique cup design allows for easy adjustment
- Large earmuff for maximum attenuation
- Comfortable, large, soft sealing cushions
- ABS head band with highly comfortable pad
- Distinctive style /cup and black band
- Lightweight in comparison with its size

Part#	Color	Weight
Sabre	Head Band Earmuff	
EM1115	Black/Red	255g./9oz.
	Cap Mounted Earmuff	
EM1117	Black/Red	302g./10.7oz.

THE **ALL DAY**
PROTECTION



PHANTOM

ALL DAY

PROTECTION, COMFORT & DURABILITY



EM2261



EM2266



EM2262

NRR

- EM2262 22 dB
- EM2261 21 dB
- EM2266 21 dB

FEATURES

- Bright yellow color
- Lightweight
- Comfortable soft sealing cushions
- Low profile
- Universal slot adapter
- Individual spring band wire
- Two low mounting points for even, comfortable alignment
- Good attenuation
- Padded headband on EM2262
- Easy mounting arms and slot adapters for cap muff EM2266

Part#	Color	Weight
Neck Band Earmuff		
EM2261	Yellow	180g./6.4oz.
Head Band Earmuff		
EM2262	Yellow	201g./8.5oz.
Cap Mounted Earmuff		
EM2266	Yellow	268g./8.5oz.

HURRICANE

THE ULTIMATE

IN LOW PROFILE & COMFORT



EM4231



EM4236



EM4232

NRR

- EM4231 22 dB
- EM4232 22 dB
- EM4236 20 dB

FEATURES

- Unique cup design
- Attractive beige color
- Comfortable cushions
- Slim and tapered for use with hard hat and face protection equipment
- Individual spring band wire
- Comfortable alignment and pressure equalization due to the two low mounting points
- Universal adapter for cap mounted muffs

Part#	Color	Weight
Neck Band Earmuff		
EM4231	Beige	171g./6oz.
Head Band Earmuff		
EM4232	Beige	180g./6.4oz.
Cap Mounted Earmuff		
EM4236	Beige	260g./9.2oz.

DESIGNED FOR
FULL
FREQUENCY
PROTECTION



STEALTH

SUPERIOR PROTECTION

MAKING HARMFUL SOUNDS INVISIBLE



EM1281



EM1286



EM1282

NRR

- EM1282 25 dB
- EM1281 24 dB
- EM1286 24 dB

FEATURES

- Unique cup design
- Large, soft and comfortable sealing cushions
- Extremely good attenuation at low and high frequency
- Individual spring band wire
- Two low mounting points for even, comfortable alignment
- Padded head band on EM1282
- Easy mounting of arms & slots for cap muff EM1286
- Universal slot adapters

Part#	Color	Weight
Neck Band Earmuff		
EM1281	Green	208g./7.3oz.
Head Band Earmuff		
EM1282	Green	220g./7.8oz.
Cap Mounted Earmuff		
EM1286	Green	287g./10.5oz.

INTRUDER

ULTIMATE PROTECTION

EXCELLENT ATTENUATION AT ALL FREQUENCIES



EM7206



EM7202



EM7209

NRR

- EM7202 28 dB
- EM7206 27 dB
- EM7209 27 dB

FEATURES

- Unique cup design
- Exceptional performance
- Large, flexible and comfortable cushions offering equal distribution of pressure
- Head band is made of individual spring band wire with a soft padded cushion easily adapting to the head
- Two low mounting anchor points on each side of the cup for even pressure and comfortable alignment
- First class comfort at all times

Part#	Color	Weight
Cap Mounted Earmuff for Full Brim Hat		
EM7209	Black/White	305g./11.2oz.
Head Band Earmuff		
EM7202	Black/White	231g./8.1oz.
Cap Mounted Earmuff		
EM7206	Black/White	290g./10oz.

THE ALL NEW
FOLDABLE,
LIGHT DUTY
PROTECTOR



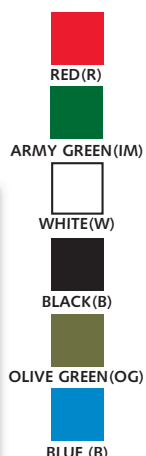
CONCORD

Level dependent device

ELECTRONIC IMPACT WITH UNIQUE, SEPARATE STEREO EARMUFF



EM6288I



FEATURES

- Unique separate stereo earmuff
- Ideal for impact sounds, such as noises found on firing ranges
- Reduces level dependent noise to comfortable levels
- Allows you to hear the quietest sounds, such as movement
- Collapsible to fit in pocket or gear bag
- Sleek modern cup profile
- Soft, foam-filled cushions

Part#	Color	Weight
Foldable Head Band Earmuff		
EM6288IR	Red	220g./8oz.
EM6288IM	Army green	220g./8oz.
EM6288IW	White	220g./8oz.
EM6288IB	Black	220g./8oz.
EM6288IOG	Olive green	220g./8oz.
EM6288IBL	Blue	220g./8oz.

CHALLENGER

FOLDABLE EARMUFF CREATED FOR EASY TRANSPORTATION

EM6298



NRR
20 dB

FEATURES

- Foldable head band for easy storage and transportation
- Soft sealing cushions
- Ultra light
- Compact
- Pocket size

Part#	Color	Weight
Foldable Head Band Earmuff		
EM6298	Black	138g./4.8oz.

MOSQUITO

LIGHT DUTY PROTECTION



EM3144

NRR
21 dB

Created for people who need good protection when exposed to intermittent harmful noises.

FEATURES/BENEFITS

- Ultra light
- Good performance
- Cups are made of styrene
- Comfortable head band
- Dielectric

Part#	Color	Weight
Head Band Earmuff		
EM3144	Black	148g./5.3oz.

THE TOTAL PROTECTION CONCEPT

Fully integrated protection

HEAD/EYE/FACE/HEARING

Specialized kits for Industry, Agriculture and Forestry



FK12



FK10



FK13A



FK15

Combination Forestry Kits

- FK10 Deluxe Kit**
1 Lateral hard hat A99R SUMMIT white
1 CP5005 Plastic bracket with insert for screen visor
1 FS01 Forestry screen
1 Muff, model EM7206 Intruder
- FK11 Quality Kit**
1 Hard hat A69R orange
1 CP5005 Plastic bracket with insert for screen visor
1 FS01 Forestry screen
1 Muff, model EM1286 Stealth
- FK12 Regular Kit**
1 Hard hat A79R orange
1 FS03 Forestry screen
1 Muff, model EM2266 Phantom
- FK12A Regular Kit**
1 Hard hat A79R orange or A29R
1 FS03/FV Forestry screen with sun visor
1 Muff, model EM2266 Phantom
- FK13 Economical Kit**
1 Hard hat A79 red
1 FS03 Forestry screen
1 Muff, model EM4157 Mustang
- FK13A Economical Kit**
1 Hard hat A79 red
1 FS03/FV Forestry screen with sun visor
1 Muff, model EM4157 Mustang

Various Combination Industrial Kits

- FK14 Quality Kit**
1 A69R Ratchet cap white
1 CP5005 Plastic bracket with insert for visor
1 A8151 Clear visor 6 x 15 1/2"
1 Muff, model EM1286 Stealth
- FK15 Regular Kit**
1 A79R Ratchet cap dark green
1 CP5005 Plastic bracket with insert for visor
1 A8150/40 Clear visor 8 x 15 1/2"
1 Muff, model EM2266 Phantom
- FK16 Economical Kit**
1 A79 Hard hat cap white
1 CP5005 Plastic bracket with insert for visor
1 A8150/40 Clear visor 8 x 15 1/2"
1 Muff, model EM4157 Mustang
- FK17 Deluxe Kit**
1 A99R Hard hat white
1 CP5005 Plastic bracket with insert for visor
1 A8151 Clear visor 6 x 15 1/2"
1 Muff, model EM7206 Intruder
- FK18 Special Kit**
1 A49R Hard hat white
1 CP5006 Plastic bracket with insert for visor
1 A8151 Clear visor 6 x 15 1/2"
1 Muff, model EM7209 Intruder

NOTE: Forestry kit combinations can be made to your specifications.

Using your preferred hard hat: A119R, A99, A99R, A79, A79R, A69, A69R. With or without a carrier: CP5005.

Your choice of screens: FS01, FS02, FS03 or FS04.

Your choice of hearing protectors: EM4157, EM1117, EM7197, EM4236, EM2266, EM1286, EM7206.

IMPORTANT: As you can see, your choices are many, or buy each item separately and build your own kit.

For hat colors, refer to color grid in Head Protection catalog (up to 20 colors available)

ACCESSORIES

CP5002



CP5004



CP5005
CP5005SP



CP5006



CP5007
CP5007SP



FS01/FS01S
FS02



FS03/FS03S
FS04



A8151



FV01

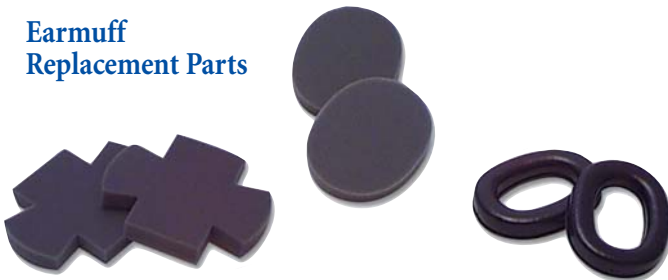


A8150/40



FS03/FV
FS03S/FV
FS04/FV

Earmuff
Replacement Parts



PNIB/0



Carriers

Hard Hat Series	CP5002	CP5004	CP5005	CP5005SP	CP5006	CP5007	CP5007SP
The Peak		✓	✓			✓	
The K ² Short Peak		✓		✓			✓
The K ¹		✓	✓			✓	
Everest					✓		
Summit	✓		✓			✓	
Matterhorn		✓	✓			✓	

CP5002, CP5004: Aluminum carriers "High Heat Resistant"
 CP5005, CP5005SP, CP5006: Plastic carriers made from Nylon
 CP5007, CP5007SP: Plastic carriers "Heat Resistant"

Visors

Part#	Description	
FS01	7" x 15 1/2"	Black metal screen
FS01S	7" x 15 1/2"	Stainless steel screen
FS02	7" x 15 1/2"	Nylon screen
FS03	7" x 15 1/2"	Black metal screen with integrated adapters
FS03/FV	7" x 15 1/2"	Black metal screen with integrated adapters and sun visor
FS03S	7" x 15 1/2"	Stainless steel screen with integrated adapters
FS03S/FV	7" x 15 1/2"	Stainless steel screen with integrated adapters and sun visor
FS04	7" x 15 1/2"	Nylon screen with integrated adapters
FS04/FV	7" x 15 1/2"	Nylon screen with integrated adapters and sun visor
FV01		Sun visor for FS03, FS03S or FS04
A8151	6" x 15 1/2" .40mm	Special clear flat die-cut polycarbonate visor with nose-cut
A8150/40	8" x 15 1/2" .40mm	Clear flat die-cut Pet-G copolyester visor

Earmuff Replacement Parts

Part#	Description
HK50	North hygiene kit for models: EM3144/EM6298
HK100	North hygiene kit for models: EM4155/EM4157 EM4231/EM4232/EM4236
HK200	North hygiene kit for models: EM1117/EM1281 EM1282/EM1286/EM2177/EM2261/EM2262 EM2266
HK250	North hygiene kit for model: EM2175
HK300	North hygiene kit for model: EM1115
HK400	North hygiene kit for models: EM7197/EM7202 EM7206/EM7209
HK500	North hygiene kit for model: EM7195

Neck Protectors

Part#	Description
PNIB/0	Neck protector, PVC/nylon (Orange)
PNIC/0	Neck protector, fire retardant (Orange)
PNIE/0	Neck protector, NOMEX® (Orange)

Nomex is a Registered Trademark of DuPont Company.

ATTENUATION TABLES

DECIDAMP^{2™}

280005
280006
280019
282505
280035

CORDED
U.S.A. / CANADA

UNCORDED
U.S.A. / CANADA


FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	32.5	34.0	36.3	35.4	36.3	42.1	43.6	46.2	45.4	29	A (L)
Standard Deviation (dB)	3.2	3.7	3.7	3.1	3.1	3.3	2.7	4.7	2.8		

Tested in accordance with ANSI S3.19-1974

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	31.7	33.1	36.3	35.7	35.4	41.4	42.3	44.6	44.8	29	A (L)
Standard Deviation (dB)	3.6	3.7	3.7	2.8	3.1	3.8	3.6	3.1	3.3		

Tested in accordance with ANSI S3.19-1974

CORDED / UNCORDED
EUROPE


FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 31dB M: 26dB L: 23dB SNR: 30dB
Mean Attenuation (dB)	24.0	26.1	28.6	30.8	30.9	34.7	43.2	42.9	
Standard Deviation (dB)	9.8	7.9	7.4	5.4	5.8	4.0	4.6	7.4	
Assumed Protection	14.2	18.2	21.2	25.3	25.1	30.7	38.6	35.6	

Tested according to EN 352-2: 1993

CORDED
AUSTRALIAN STANDARDS


FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	SLC ₈₀
Mean Attenuation (dB)	23.6	28.2	30.7	32.4	33.7	39.8	42.4	27.5
Standard Deviation (dB)	9.6	9.1	8.1	7.1	5.0	5.3	4.8	

Tested in accordance with AS 1270-1988

UNCORDED
AUSTRALIAN STANDARDS


FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	SLC ₈₀
Mean Attenuation (dB)	23.1	26.7	28.7	29.9	35.4	39.8	38.8	27
Standard Deviation (dB)	7.2	8.0	7.7	6.4	4.3	2.8	7.9	

Tested in accordance with AS 1270-1988

DECIGUARD AB[™]

280205
280250
280210
280255

CORDED
U.S.A. / CANADA

UNCORDED
U.S.A. / CANADA


FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	34.7	36.1	39.5	37.4	35.8	42.4	44.0	46.8	47.1	29	A (L)
Standard Deviation (dB)	5.1	5.0	5.0	3.9	3.0	3.2	2.5	4.7	3.6		

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	33.9	34.5	37.7	36.2	34.9	42.6	43.8	46.8	46.8	29	A (L)
Standard Deviation (dB)	4.8	4.6	4.5	3.8	2.5	2.5	2.8	4.2	3.2		

Tested in accordance with ANSI S3.19-1974

CORDED / UNCORDED
EUROPE


FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 31dB M: 26dB L: 23dB SNR: 30dB
Mean Attenuation (dB)	24.0	26.1	28.6	30.8	30.9	34.7	43.2	42.9	
Standard Deviation (dB)	9.8	7.9	7.4	5.4	5.8	4.0	4.6	7.4	
Assumed Protection	14.2	18.2	21.2	25.3	25.1	30.7	38.6	35.6	

Tested according to EN 352-2: 1993

CORDED / UNCORDED
AUSTRALIAN STANDARDS


FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	SLC ₈₀
Mean Attenuation (dB)	23.9	26.9	29.8	33.7	33.4	40.1	39.5	28.5
Standard Deviation (dB)	6.2	6.5	5.8	4.0	3.4	3.7	6.6	

Tested in accordance with AS 1270-1988

DECI 4200[™]

284200 / 284201

U.S.A. / CANADA


FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	32.8	34.7	37.9	38.1	38.6	42.8	44.6	44.7	43.9	31	A (L)
Standard Deviation (dB)	4.0	3.8	3.1	3.0	2.9	2.9	3.6	4.1	4.6		

Tested in accordance with ANSI S3.19-1974

DECI 4240

284240

EUROPE


FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 32dB M: 28dB L: 27dB SNR: 31dB
Mean Attenuation (dB)	29.6	32.8	32.8	34.2	32.3	34.3	43.4	45.6	
Standard Deviation (dB)	5.1	6.6	8.0	7.4	5.4	4.4	5.0	4.4	
Assumed Protection	24.5	26.2	24.7	26.8	26.9	29.8	38.5	41.1	

Tested according to EN 352-2: 1993

AUSTRALIAN STANDARDS


FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	SLC ₈₀
Mean Attenuation (dB)	29.4	30.8	32.5	31.8	33.9	43.8	44.4	28.5
Standard Deviation (dB)	7.1	8.8	8.0	7.2	5.0	4.3	4.5	

Tested in accordance with AS 1270-1988

COM-FIT AB[™]

281601 281611
281602 281612
281603 281613
281604 281614
281605 281615
281606 281616

U.S.A. / CANADA


FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	32.1	33.6	35.0	33.0	36.2	41.4	43.4	44.3	45.9	27	A (L)
Standard Deviation (dB)	5.7	4.5	4.2	3.3	3.7	3.6	4.6	4.2	4.7		

Tested in accordance with ANSI S3.19-1974

EUROPE


FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 28dB M: 23dB L: 22dB SNR: 27dB
Mean Attenuation (dB)	25.8	26.2	25.9	27.5	26.3	31.9	40.1	41.6	
Standard Deviation (dB)	5.7	5.2	5.0	5.0	4.3	4.4	9.5	6.0	
Assumed Protection	20.1	20.9	20.9	22.5	21.9	27.5	30.6	35.6	

Tested according to EN 352-2: 1993

AUSTRALIAN STANDARDS


FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	SLC ₈₀
Mean Attenuation (dB)	21.1	25.4	27.6	26.8	27.3	31.7	35.1	20
Standard Deviation (dB)	9.0	8.6	9.6	9.5	8.2	10.6	9.2	

Tested in accordance with AS 1270-1988

CONIC FIT

EP01100
EP02100

U.S.A. / CANADA


FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	27.2	27.2	28.3	32.2	37.4	41.9	38.5	38.4	34.3	24	A (L)
Standard Deviation (dB)	3.4	4.3	4.4	3.4	2.8	3.4	4.6	3.4	3.6		

Tested in accordance with ANSI S3.19-1974

EUROPE


FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 27dB M: 24dB L: 22dB SNR: 27dB
Mean Attenuation (dB)	25.1	25.0	25.6	27.4	26.6	31.1	32.7	43.3	
Standard Deviation (dB)	6.7	6.5	4.6	4.3	3.5	3.7	7.5	5.6	
Assumed Protection	13.8	18.5	21.0	23.1	23.1	27.4	25.1	37.7	

Tested according to EN 352-2: 1993

AUSTRALIAN STANDARDS


FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	SLC ₈₀
Mean Attenuation (dB)	16.5	17.4	19.8	23.8	30.9	32.4	23.1	3	20
Standard Deviation (dB)	7.8	5.8	5.6	6.6	4.8	3.0	9.5		
Mean Minus SD (dB)	8.6	11.6	14.1	17.2	26.1	29.4	13.6		

Tested in accordance with AS/NZS 1270:1999

SOUND FIT

EP07
EP08
EP09
EP10

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	27.1	31.2	36.7	37.5	38.8	43.2	44.1	45.4	45.4	29	A (L)
Standard Deviation (dB)	3.4	4.3	3.6	3.3	4.1	3.1	3.8	4.6	4.2		

Tested in accordance with ANSI S3.19-1974

EUROPE



FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	21.1	22.3	26.4	29.3	29.3	34.6	41.3	41.6	H: 31dB M: 25dB L: 22dB SNR: 28dB
Standard Deviation (dB)	7.3	5.7	6.2	6.1	5.4	3.6	5.4	7.1	
Assumed Protection	13.8	16.5	20.2	23.1	23.8	31.0	35.9	34.5	

Tested in accordance with EN 352-2: 1993

UNCORDED
AUSTRALIAN
STANDARDS



FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	23.8	25.9	29.4	31.4	34.3	41.2	38.2	SLC ₈₀
Standard Deviation (dB)	9.3	9.5	10.4	8.6	4.5	5.0	7.6	25.5

Tested in accordance with AS 1270-1988

CORDED
AUSTRALIAN
STANDARDS



FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	21.7	22.8	26.0	28.1	31.9	39.4	37.9	SLC ₈₀
Standard Deviation (dB)	9.1	10.0	9.1	8.1	4.9	5.8	7.5	23

Tested in accordance with AS 1270-1988

SONIC EAR VALVS®

281501 281505 281513
281503 281511 281515

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	6.7	5.8	5.3	13.3	22.7	23.1	21.3	27.9	23.7	6	A (L)
Standard Deviation (dB)	2.5	3.0	2.4	2.3	2.8	2.2	2.8	3.4	3.2		

Tested in accordance with ANSI S3.19-1974

SILENT PARTNER®

281120 281125
281121 281126

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	22.0	20.9	20.1	22.7	33.0	32.1	29.0	26.1	31.3	16	A (L)
Standard Deviation (dB)	5.2	4.6	3.7	3.2	3.5	5.2	4.0	2.8	4.2		

Tested in accordance with ANSI S3.19-1974

COM-FIT

281401 281411
281402 281412
281403 281413
281404 281414
281405 281415
281406 281416

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	29.6	27.6	30.0	31.7	34.3	40.3	42.1	45.7	45.6		
Standard Deviation (dB)	3.0	3.3	3.5	2.2	2.0	2.5	4.1	4.5	4.6		

Tested in accordance with ANSI S3.19-1974

EUROPE



FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	25.8	26.2	25.9	27.5	26.3	31.9	40.1	41.6	H: 28 dB M: 23 dB L: 22 dB SNR: 27 dB
Standard Deviation (dB)	5.7	5.2	5.0	5.0	4.3	4.4	9.5	6.0	
Assumed Protection	20.1	20.9	20.9	22.5	21.9	27.5	30.6	35.6	

Tested according to EN 352-2: 1993

AUSTRALIAN
STANDARDS



FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	21.1	25.4	27.6	26.8	27.3	31.7	35.1	SLC ₈₀
Standard Deviation (dB)	9.0	8.6	9.6	9.5	8.2	10.6	9.2	20

Tested in accordance with AS 1270-1988

DECI 4300™

LIGHT-BAND
284300

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	22.0	20.9	20.1	22.7	33.0	32.1	29.0	26.1	31.3	16	B
Standard Deviation (dB)	5.2	4.6	3.7	3.2	3.5	5.2	4.0	2.8	4.2		

Tested in accordance with ANSI S3.19-1974

EUROPE



FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	21.9	22.0	19.1	16.4	20.3	30.7	29.3	28.3	H: 23 dB M: 17 dB L: 16 dB SNR: 21 dB
Standard Deviation (dB)	5.5	5.0	3.8	2.9	3.7	3.4	3.2	9.1	
Assumed Protection	16.4	17.0	15.3	13.5	16.5	27.3	26.2	19.2	

Tested according to EN 352-2: 1993

SILENT BANDIT®

281133
281135

OVERHEAD
U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	17.8	23.5	26.7	30.4	36.5	42.3	42.5	41.6	41.7	25	A (L)
Standard Deviation (dB)	3.4	2.1	1.5	1.8	1.7	2.0	1.5	2.2	2.7		

BEHIND HEAD
U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	18.0	23.7	26.6	29.7	35.8	41.1	42.0	41.2	38.4	25	A (L)
Standard Deviation (dB)	2.1	2.8	2.3	1.6	1.3	1.8	1.9	2.7	2.4		

UNDER CHIN
U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	17.5	22.2	25.2	29.0	35.6	39.7	40.9	41.3	38.5	25	A (L)
Standard Deviation (dB)	1.9	1.7	1.7	1.5	1.5	1.5	1.4	2.2	1.7		

Tested in accordance with ANSI S3.19-1974

MUSTANG

EM4155
EM4157

EM4155

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	16.4	18.4	26.2	35.9	35.2	35.5	36.5	35.3	34.4	23	A
Standard Deviation (dB)	2.5	2.3	2.2	3.0	1.7	1.6	1.5	1.9	2.4		

Tested in accordance with ANSI S3.19-1974

EUROPE



FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	16.6	11.8	19.3	27.8	37.0	31.3	35.7	34.6	H: 31 dB M: 26 dB L: 17 dB SNR: 28 dB
Standard Deviation (dB)	4.5	2.8	2.6	2.7	2.4	3.3	2.5	3.2	
Assumed Protection	12.0	9.0	16.7	25.0	34.6	28.0	33.2	31.4	

Tested according to EN 352-1: 1993

AUSTRALIAN
STANDARDS



FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	11.5	19.3	28.8	36.1	34.7	37.4	36.1			
Standard Deviation (dB)	4.0	2.3	2.9	3.3	3.5	3.0	5.1	5	9.4	29
Mean Minus SD (dB)	7.5	16.9	25.9	32.7	31.2	34.4	31.0			

Tested in accordance with AS/NZS 1270:1999

EM4157

U.S.A. / CANADA



FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	11.8	16.7	26.2	34.3	32.2	32.8	34.4	32.5	30.7	20	B
Standard Deviation (dB)	2.2	2.6	3.7	3.7	2.8	2.9	4.5	4.6	3.9		

Tested in accordance with ANSI S3.19-1974

EUROPE



FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	13.4	11.6	18.2	24.8	34.4	30.3	33.5	31.7	H: 28 dB M: 23 dB L: 15 dB SNR: 25 dB
Standard Deviation (dB)	5.7	3.8	3.6	4.2	3.2	3.2	4.7	6.5	
Assumed Protection	7.7	7.8	14.6	20.6	31.1	27.0	28.8	25.2	

Tested according to EN 352-1:1993, EN 352-3: 1993

AUSTRALIAN
STANDARDS



FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Value (dB)										
Standard Deviation (dB)										

RESULTS TO BE ANNOUNCED SHORTLY

ATTENUATION TABLES

SABRE EM1115

EM1115
U.S.A./CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	16.2	23.2	32.9	39.2	36.9	37.5	35.1	37.7	37.7	26	A
Standard Deviation (dB)	2.7	2.6	2.8	3.7	2.9	3.2	2.5	2.6	2.2		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: M: L: SNR:
Mean Attenuation (dB)									
Standard Deviation (dB)									
Assumed Protection									

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)										
Standard Deviation (dB)										

JAGUAR EM7195

EM7195
U.S.A./CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	18.9	26.6	36.4	40.3	38.4	36.5	38.0	38.4	39.0	29	A
Standard Deviation (dB)	2.6	2.1	3.2	2.7	2.6	2.0	2.3	1.9	3.1		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: M: L: SNR:
Mean Attenuation (dB)									
Standard Deviation (dB)									
Assumed Protection									

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)										
Standard Deviation (dB)										

HURRICANE EM4231 EM4232 EM4236

EM4231
U.S.A./CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	14.4	17.3	27.8	37.1	33.3	35.5	36.0	32.2	31.4	22	B
Standard Deviation (dB)	2.3	2.7	3.1	3.3	2.3	2.6	3.1	3.1	2.9		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 28 dB M: 25 dB L: 16 dB SNR: 27 dB
Mean Attenuation (dB)	13.6	12.2	18.9	28.6	36.6	29.4	35.4	32.8	
Standard Deviation (dB)	4.5	4.4	2.8	4.0	3.6	3.6	3.9	5.4	
Assumed Protection	9.1	7.8	16.1	24.6	32.9	25.7	31.5	27.3	

Tested according to EN 352-1:1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)										
Standard Deviation (dB)										

EM4232
U.S.A./CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	12.9	17.1	27.0	36.3	31.8	35.2	35.5	32.0	30.4	21	B
Standard Deviation (dB)	2.7	2.6	2.6	2.3	2.1	3.0	2.3	3.0	3.0		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 26 dB M: 23 dB L: 16 dB SNR: 25 dB
Mean Attenuation (dB)	15.7	12.6	17.4	25.3	35.6	28.5	35.1	33.3	
Standard Deviation (dB)	4.6	2.5	3.8	2.8	3.7	5.3	4.7	3.9	
Assumed Protection	11.1	10.1	13.5	22.4	31.9	23.2	30.4	29.4	

Tested according to EN 352-1:1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)										
Standard Deviation (dB)										

EM4236
U.S.A./CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	12.1	16.8	26.5	32.6	30.5	33.0	33.3	31.2	29.2	20	B
Standard Deviation (dB)	2.9	2.1	3.4	3.5	2.4	2.7	4.0	3.7	3.4		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: M: L: SNR:
Mean Attenuation (dB)									
Standard Deviation (dB)									
Assumed Protection									

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)										
Standard Deviation (dB)										

PHANTOM

EM2261

EM2262

EM2266

EM2261 U.S.A. / CANADA 	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA	
	Mean Attenuation (dB)	15.7	18.1	29.6	37.7	32.1	32.1	31.2	30.5	31.2	21	B	
	Standard Deviation (dB)	3.2	2.7	3.3	3.1	2.9	2.6	3.2	3.1	2.2			
Tested in accordance with ANSI S3.19-1974													
EUROPE 	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 30dB M: 25dB L: 17dB SNR: 27dB			
	Mean Attenuation (dB)	14.1	12.8	19.5	28.0	36.1	31.1	33.3	31.9				
	Standard Deviation (dB)	4.2	3.1	3.4	3.9	3.2	3.0	2.1	3.9				
	Assumed Protection	9.8	9.7	16.1	24.1	32.9	28.0	31.1	28.0				
Tested according to EN 352-1: 1993													
AUSTRALIAN STANDARDS 	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀		
	Mean Attenuation (dB)												
	Standard Deviation (dB)												
RESULTS TO BE ANNOUNCED SHORTLY													

RESULTS TO BE ANNOUNCED SHORTLY

EM2262 U.S.A. / CANADA 	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA	
	Mean Attenuation (dB)	14.3	19.3	29.7	36.1	30.9	34.3	36.4	34.0	33.8	22	B	
	Standard Deviation (dB)	2.4	2.5	3.6	3.4	2.6	2.1	3.4	3.8	3.5			
	Tested in accordance with ANSI S3.19-1974												
EUROPE 	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 29 dB M: 26 dB L: 17 dB SNR: 28 dB			
	Mean Attenuation (dB)	16.8	11.7	20.3	29.7	37.6	31.6	33.8	30.4				
	Standard Deviation (dB)	5.0	3.4	2.4	2.4	2.4	3.5	3.0	4.3				
	Assumed Protection	11.8	8.3	17.9	27.3	35.2	28.1	30.8	26.2				
Tested according to EN 352-1: 1993													
AUSTRALIAN STANDARDS 	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀		
	Mean Attenuation (dB)												
	Standard Deviation (dB)												
RESULTS TO BE ANNOUNCED SHORTLY													

RESULTS TO BE ANNOUNCED SHORTLY

EM2266 U.S.A. / CANADA 	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA	
	Mean Attenuation (dB)	14.3	19.4	26.4	33.7	31.1	34.5	34.6	34.2	33.3	21	B	
	Standard Deviation (dB)	2.6	2.6	3.6	4.4	3.1	4.0	3.8	3.6	3.9			
	Tested in accordance with ANSI S3.19-1974												
EUROPE 	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: M: L: SNR:			
	Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY											
	Standard Deviation (dB)												
	Assumed Protection												
AUSTRALIAN STANDARDS 	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀		
	Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY											
	Standard Deviation (dB)												

RESULTS TO BE ANNOUNCED SHORTLY

STEALTH

EM1281

EM1282

EM1286

EM1281 U.S.A. / CANADA 	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
	Mean Attenuation (dB)	15.3	20.6	32.1	38.4	35.1	34.4	34.1	34.9	35.2	24	A
	Standard Deviation (dB)	2.9	2.4	3.4	2.7	2.7	2.2	2.5	2.7	2.9		
Tested in accordance with ANSI S3.19-1974												
EUROPE 	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 32 dB M: 29 dB L: 20 dB SNR: 31 dB		
	Mean Attenuation (dB)	17.7	17.2	24.4	33.3	41.7	34.4	34.3	34.4			
	Standard Deviation (dB)	5.9	4.5	4.1	3.7	4.6	3.8	3.2	2.8			
	Assumed Protection	11.8	12.7	20.3	29.5	37.1	30.6	31.1	31.6			
Tested according to EN 352-1: 1993												
AUSTRALIAN STANDARDS 	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC₈₀	
	Mean Attenuation (dB)	11.9	20.5	30.2	35.3	32.3	35.8	33.3				
	Standard Deviation (dB)	5.2	4.7	3.9	4.7	4.8	3.4	7.6	5	11.0	28	
	Mean Minus SD (dB)	6.7	15.6	26.3	30.7	27.5	32.5	25.7				
	Tested in accordance with AS/NZS 1270:1999											

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Tested in accordance with AS/NZS 1270:1999

EM1282 U.S.A. / CANADA 	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
	Mean Attenuation (dB)	16.7	22.8	33.2	38.8	34.0	34.7	33.9	35.2	34.3	25	A
	Standard Deviation (dB)	2.5	2.4	2.9	3.2	3.6	2.3	3.0	3.2	3.0		
Tested in accordance with ANSI S3.19-1974												
EUROPE 	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 28 dB M: 28 dB L: 19 dB SNR: 28 dB		
	Mean Attenuation (dB)	16.9	13.7	22.6	31.4	38.3	30.6	30.0	29.9			
	Standard Deviation (dB)	3.9	3.4	2.2	2.4	2.2	3.7	1.8	4.0			
Assumed Protection	13.0	10.3	20.4	29.0	31.6	26.9	28.2	25.9				
Tested according to EN 352-1: 1993												
AUSTRALIAN STANDARDS 	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀	
	Mean Attenuation (dB)	12.6	21.1	31.4	38.4	33.3	36.0	35.3				
	Standard Deviation (dB)	3.5	3.0	3.7	3.2	3.3	4.0	5.8	5	9.2		
	Mean Minus SD (dB)	9.0	18.1	27.6	35.3	29.9	32.0	29.5			30	
Tested in accordance with AS/NZS 1270:1999												

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Tested in accordance with AS/NZS 1270:1999

U.S.A. / CANADA 	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
	Mean Attenuation (dB)	15.6	21.5	31.3	37.8	34.1	33.0	33.7	33.8	33.4	24	A
	Standard Deviation (dB)	2.8	2.5	3.7	3.2	2.6	2.0	3.3	2.6	3.4		
Tested in accordance with ANSI S3.19-1974												
EUROPE 	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000		RESULTS TO BE ANNOUNCED SHORTLY	
	Mean Attenuation (dB)											
	Standard Deviation (dB)											
	Assumed Protection											
AUSTRALIAN STANDARDS 	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC₈₀	
	Mean Attenuation (dB)	11.8	19.0	29.6	34.6	31.7	34.6	33.4				
	Standard Deviation (dB)	3.5	4.1	5.7	4.0	3.7	3.7	5.4				

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Tested in accordance with AS/NZS 1270:1999

ATTENUATION TABLES

MOSQUITO EM3144

U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	14.0	15.8	26.6	32.6	34.8	32.9	36.0	34.7	35.8	21	B
Standard Deviation (dB)	3.1	2.1	2.8	3.0	3.3	2.4	3.4	3.3	4.7		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 30 dB M: 25 dB L: 16 dB SNR: 27 dB
Mean Attenuation (dB)	15.6	11.7	17.9	26.6	31.9	32.9	33.2	31.6	
Standard Deviation (dB)	4.4	3.3	2.7	2.3	2.6	3.2	2.3	4.3	
Assumed Protection	11.2	8.4	15.3	24.3	29.3	29.7	30.8	27.2	

Tested according to EN 352-1: 1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY									
Standard Deviation (dB)										

HORNET EM2175 EM2177

EM2175
U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	16.5	19.5	31.5	38.1	33.3	35.3	36.9	33.5	34.1	24	A
Standard Deviation (dB)	2.5	2.7	2.9	3.6	2.6	1.6	2.9	2.9	3.1		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 32 dB M: 27 dB L: 18 dB SNR: 29 dB
Mean Attenuation (dB)	15.1	13.0	20.5	30.0	39.9	33.8	34.6	32.8	
Standard Deviation (dB)	4.4	2.3	3.1	2.5	2.3	2.3	3.6	4.8	
Assumed Protection	10.7	10.7	17.4	27.5	37.5	31.6	31.1	27.9	

Tested according to EN 352-1: 1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY									
Standard Deviation (dB)										

EM2177
U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	14.7	19.5	26.9	34.3	33.0	34.6	35.0	34.7	34.8	22	A
Standard Deviation (dB)	2.3	2.8	2.7	2.6	3.4	3.2	3.7	4.0	3.8		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 30 dB M: 25 dB L: 17 dB SNR: 27 dB
Mean Attenuation (dB)	14.4	14.1	20.9	27.9	36.0	32.8	33.8	31.1	
Standard Deviation (dB)	6.3	5.2	3.7	4.6	3.8	3.8	4.5	3.5	
Assumed Protection	8.2	8.9	17.2	23.3	32.2	29.0	29.3	27.6	

Tested according to EN 352-1: 1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY									
Standard Deviation (dB)										

INTRUDER EM7202 EM7206 EM7209

EM7202
U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	18.7	26.7	34.5	39.7	37.2	34.1	37.0	37.5	37.4	28	A
Standard Deviation (dB)	2.3	2.2	2.8	2.8	2.4	2.0	2.6	3.3	3.1		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 31 dB M: 27 dB L: 19 dB SNR: 29 dB
Mean Attenuation (dB)	18.9	15.9	23.3	27.6	38.1	30.8	43.1	39.4	
Standard Deviation (dB)	6.1	3.9	4.6	3.4	3.9	3.4	5.1	4.7	
Assumed Protection	12.8	12.1	18.6	24.2	34.2	27.3	38.0	34.6	

Tested according to EN 352-1: 1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	10.8	20.6	32.4	37.8	36.0	38.6	37.9	5	11.6	30
Standard Deviation (dB)	3.4	3.4	3.6	2.8	3.7	2.9	6.5			
Mean Minus SD (dB)	7.4	17.3	28.9	35.0	32.3	35.8	31.4			

Tested in accordance with AS/NZS 1270:1999

EM7206
U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	17.9	27.8	35.4	38.0	34.9	33.0	35.8	36.8	36.3	27	A
Standard Deviation (dB)	2.4	1.8	2.9	2.6	3.0	1.9	2.7	2.9	2.9		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	RESULTS TO BE ANNOUNCED SHORTLY		
Mean Attenuation (dB)											
Standard Deviation (dB)											
Assumed Protection											

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY									
Standard Deviation (dB)										

EM7209
U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	16.8	22.0	30.8	34.2	32.6	33.9	39.6	40.0	40.1	24	B
Standard Deviation (dB)	3.1	3.3	3.5	2.3	2.4	3.9	2.6	3.2	3.1		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	RESULTS TO BE ANNOUNCED SHORTLY		
Mean Attenuation(dB)											
Standard Deviation (dB)											
Assumed Protection											

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	12.2	17.7	27.9	35.1	35.4	36.0	34.6	5	8.9	27
Standard Deviation (dB)	5.7	5.6	5.3	5.5	3.7	5.8	4.3			
Mean Minus SD (dB)	6.5	12.1	22.6	29.5	31.8	30.2	30.3			

Tested in accordance with AS/NZS 1270:1999

CHALLENGER EM6298

U.S.A. / CANADA
EPA

FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
Mean Attenuation (dB)	12.1	15.8	25.3	28.8	32.5	35.9	38.6	37.4	38.2	20	B
Standard Deviation (dB)	2.8	2.4	2.8	2.2	2.6	2.2	2.7	2.1	2.3		

Tested in accordance with ANSI S3.19-1974

EUROPE
CE

FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000	H: 28 dB M: 22 dB L: 15 dB NR: 25 dB
Mean Attenuation (dB)	14.6	11.5	14.1	23.0	25.5	31.5	35.3	33.2	
Standard Deviation (dB)	3.1	2.3	1.7	2.1	2.8	3.1	3.3	3.6	
Assumed Protection	11.6	9.2	12.4	20.9	22.7	28.4	32.0	29.6	

Tested according to EN 352-1: 1993

AUSTRALIAN
STANDARDS

AS 1270

FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC ₈₀
Mean Attenuation (dB)	RESULTS TO BE ANNOUNCED SHORTLY									
Standard Deviation (dB)										

Hearing Protection

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