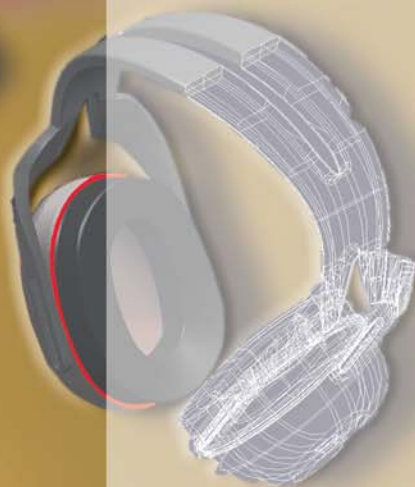


NORTH

HEARING PROTECTION



NORTH North Safety Products



HEAD PROTECTION



EYE & FACE PROTECTION



HEARING PROTECTION



RESPIRATORY PROTECTION



HAND PROTECTION



PROTECTIVE CLOTHING



FIRST AID PRODUCTS



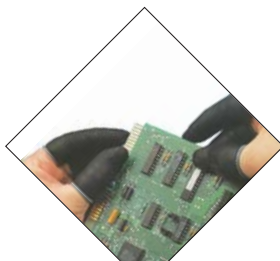
TRAFFIC SAFETY PRODUCTS



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.



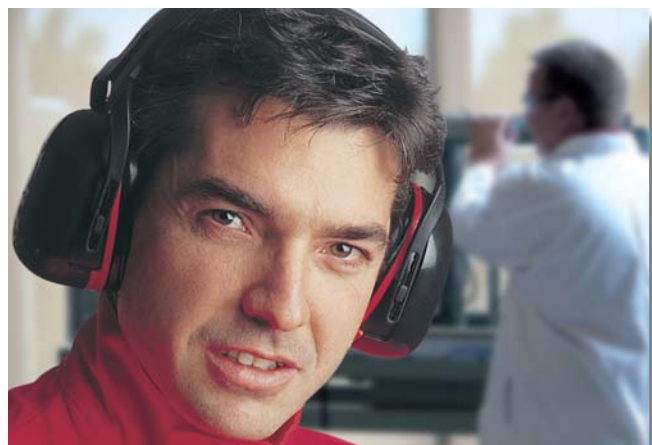
Research and Development



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



**Only Dispenser
that Vends
One Plug at a Time!**

EAR PLUG DISPENSER

The key design feature of North Safety Products ear plug dispenser is our dispense mechanism, which allows for one plug at a time, every time. No other industry dispenser can make this claim. North's ear plug dispenser allows you to do away with dispensers that jam or dispense several plugs at a time. Jammed dispensers cause wasted time and inefficiencies at the user plant. The dispenser was designed not to contain a catch for earplugs, thereby eliminating the chance for plug contamination. Ear plug buckets are sold containing 500 pairs of loose ear plugs. Each refill container is sealed for your protection with tamper evident tape. Easy bucket replacement from the bracket is with a simple push of the tab. Each dispenser comes with a wall mount and a table top stand is sold as an optional accessory.

FEATURES	BENEFITS
• Patented dispense mechanism ensures one plug at a time	• Decrease wasted time at job site
• Plugs dispensed directly to the user	• No excess plugs
• Dispenses either DeciDamp2 or Deci4200 ear plugs	• Reduces possibility of plug contamination
• Screw on/off refill container	• User flexibility
• Dispenser comes with wall mount (table top stand optional)	• Ability to use same dispenser for either plug
• Locking tab	• Quick, easy replacement
• Container sealed with tamper evident tape	• Saves user time and money
	• Dispenser cannot fall out of bracket
	• Sealed for your protection



280050
DeciDamp2
Refill Container

280000
Dispenser

280000ST
Table Stand



280020
Deci4200
Refill Container

Part#	Description
280000	Ear Plug Dispenser for DeciDamp2 and Deci4200 Ear Plugs
280050	DeciDamp2 refill container. 500 pairs of DeciDamp2 Ear Plugs
280020	Deci4200 refill container. 500 pairs of Deci4200 Ear Plugs
280000ST	Table Stand for DeciDamp/DeciDamp2 Ear Plug Dispenser

THE LEADER IN PVC PLUGS

DECIDAMP²™

NRR

- Uncorded 29 dB
- Corded 29 dB

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
280005BP*	Bulk pack	500 pairs/carton
280019	5 pairs per zip-lock bag	50 bags/carton
282505	1 pair per degradable paper pouch	200 pairs/carton
Corded		
280006	1 pair per plastic pouch	100 pairs/carton
280035	1 pair per degradable paper pouch	100 pairs/carton

*Available in the U.S. Only

DECI 4200™

NRR

- Uncorded 33dB
- Corded 33dB

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		
284200UO	1 pair per cellophane pouch	200 pairs/carton
284200UOBP*	Bulk pack	500 pairs/carton
284201UO	1 pair per degradable paper pouch	200 pairs/carton
Corded		
284240CO	1 pair per plastic pouch	100 pairs/carton

*Available in the U.S. Only

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

 Available in the U.S. Only



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
280205BP*	Bulk Pack	500/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

 Available in Canada Only



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

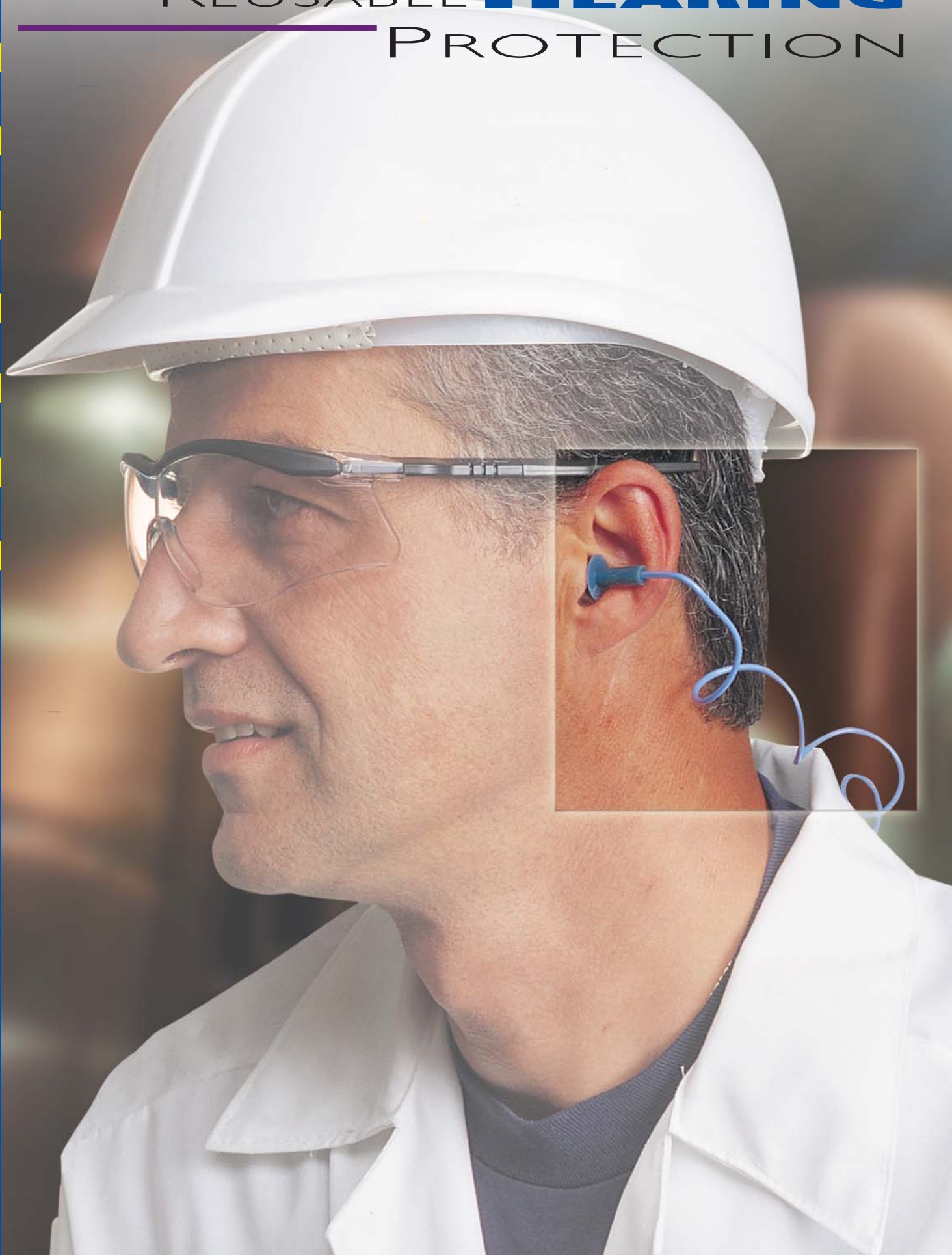
NRR
• Sans corde 29dB
• Avec corde 29dB

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

ANTIMICROBIAL

REUSABLE **H**EARING

PROTECTION



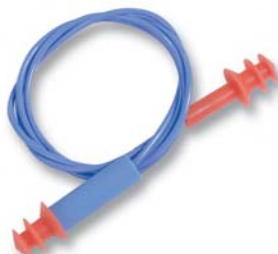
281605



NRR
27dB



281601



281613

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	Color	Size	Packaging
Uncorded				
281601	1 pair per box	Green	Small	20 boxes/carton
281603	1 pair per box	Orange	Medium	20 boxes/carton
281605	1 pair per box	Blue	Large	20 boxes/carton
Poly Bag				
281602	1 pair per bag	Green	Small	100 bags/carton
281604	1 pair per bag	Orange	Medium	100 bags/carton
281606	1 pair per bag	Blue	Large	100 bags/carton
Corded				
281611	1 pair per box	Green	Small	20 boxes/carton
281613	1 pair per box	Orange	Medium	20 boxes/carton
281615	1 pair per box	Blue	Large	20 boxes/carton
Poly Bag				
281612	1 pair per bag	Green	Small	100 bags/carton
281614	1 pair per bag	Orange	Medium	100 bags/carton
281616	1 pair per bag	Blue	Large	100 bags/carton

281411



NRR
26dB



281405



281403

FEATURES/BENEFITS

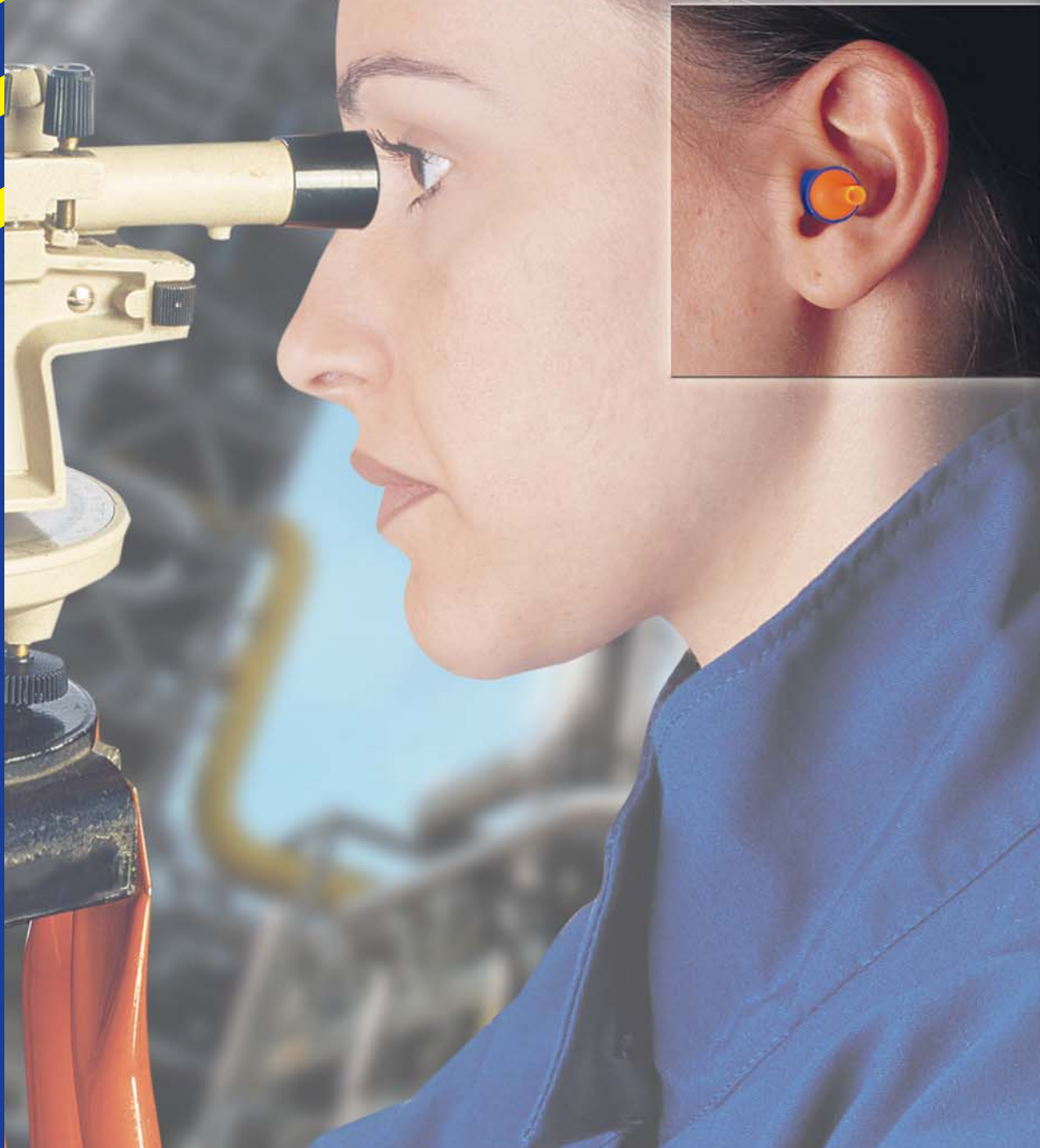
- **Triple-flange design**
Provides multi-surface sealing over a wide range of ear canal sizes.
- **Color coded in three sizes**
Fits broad range of users, highly visible colors for easier safety checks, easier to remember size.
- **Insertion Device**
Ease of insertion, reduces attenuation variability.
- **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.

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

Part#	Description	Color	Size	Packaging
Uncorded				
281401	1 pair per box	Green	Small	20 boxes/carton
281403	1 pair per box	Orange	Medium	20 boxes/carton
281405	1 pair per box	Blue	Large	20 boxes/carton
Poly Bag				
281402	1 pair per bag	Green	Small	100 bags/carton
281404	1 pair per bag	Orange	Medium	100 bags/carton
281406	1 pair per bag	Blue	Large	100 bags/carton
Corded				
281411	1 pair per box	Green	Small	20 boxes/carton
281413	1 pair per box	Orange	Medium	20 boxes/carton
281415	1 pair per box	Blue	Large	20 boxes/carton
Poly Bag				
281412	1 pair per bag	Green	Small	100 bags/carton
281414	1 pair per bag	Orange	Medium	100 bags/carton
281416	1 pair per bag	Blue	Large	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

CONIC-FIT



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	Carrying Case	
EP01	1 pair per box	20 boxes/carton
	Poly Bag	
EP01100	1 pair per bag	100 bags/carton
Corded	Carrying Case	
EP02	1 pair per box	20 boxes/carton
	Poly Bag	
EP02100	1 pair per bag	100 bags/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.



*Available in Canada Only

SABRE

UNIQUE

DESIGN & PERFORMANCE

NRR

• EM1115 26dB



EM1115



EM1117/OS

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/OS*	Black/Red	302g./10.7oz.



*Available in Canada Only

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 24 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



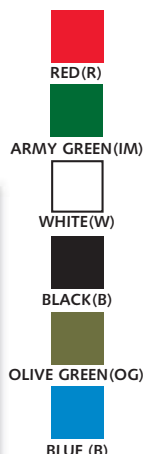
CONCORD

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



CP5006



CP5007
CP5007SP



Carriers

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

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

FS01



FS03



A8151



FV01



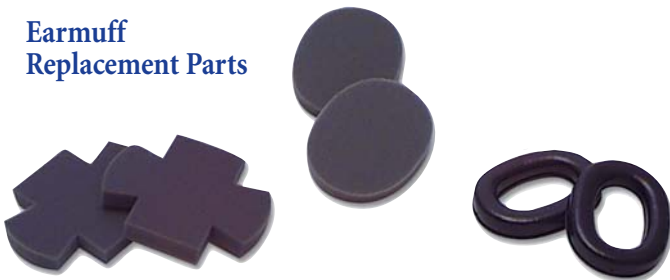
A8150/40



Visors

Part#	Description	
FS01	7" x 15 1/2"	Black metal screen
FS03	7" x 15 1/2"	Black metal screen with integrated adapters
FV01		Sun visor for FS03
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



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 / 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



PN1B0

Available in Canada Only

Neck Protector

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 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		

Tested in accordance with ANSI S3.19-1974

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	H: 31dB M: 25dB L: 22dB SNR: 28dB
Mean Attenuation (dB)	21.1	22.3	26.4	29.3	29.3	34.6	41.3	41.6	
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	

UNCORDED AUSTRALIAN STANDARDS



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

Tested in accordance with AS 1270-1988

CORDED AUSTRALIAN STANDARDS



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

Tested in accordance with AS 1270-1988

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	26	A (L)
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	H: 28 dB M: 23 dB L: 22 dB SNR: 27 dB
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

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	H: 23 dB M: 17 dB L: 16 dB SNR: 21 dB
Mean Attenuation (dB)	21.9	22.0	19.1	16.4	20.3	30.7	29.3	28.3	
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

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	H: 31 dB M: 26 dB L: 17 dB SNR: 28 dB
Mean Attenuation (dB)	16.6	11.8	19.3	27.8	37.0	31.3	35.7	34.6	
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	

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	5 9.4	29
Standard Deviation (dB)	4.0	2.3	2.9	3.3	3.5	3.0	5.1		
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	H: 28 dB M: 23 dB L: 15 dB SNR: 25 dB
Mean Attenuation (dB)	13.4	11.6	18.2	24.8	34.4	30.3	33.5	31.7	
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	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
U.S.A. / CANADA	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		
EUROPE	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000			
	Mean Attenuation (dB)	14.1	12.8	19.5	28.0	36.1	31.1	33.3	31.9		H: 30 dB	
	Standard Deviation (dB)	4.2	3.1	3.4	3.9	3.2	3.0	2.1	3.9		M: 25 dB	
	Assumed Protection	9.8	9.7	16.1	24.1	32.9	28.0	31.1	28.0		L: 17 dB	
											SNR: 27 dB	
	Tested in accordance with ANSI S3.19-1974											
AUSTRALIAN STANDARDS	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC₈₀	
	Mean Attenuation (dB)											
	Standard Deviation (dB)											

RESULTS TO BE ANNOUNCED SHORTLY

EM2262	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
U.S.A. / CANADA	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		
EUROPE	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000			
	Mean Attenuation (dB)	16.8	11.7	20.3	29.7	37.6	31.6	33.8	30.4		H: 29 dB	
	Standard Deviation (dB)	5.0	3.4	2.4	2.4	2.4	3.5	3.0	4.3		M: 26 dB	
	Assumed Protection	11.8	8.3	17.9	27.3	35.2	28.1	30.8	26.2		L: 17 dB	
											SNR: 28 dB	
	Tested in accordance with ANSI S3.19-1974											
AUSTRALIAN STANDARDS	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC₈₀	
	Mean Attenuation (dB)											
	Standard Deviation (dB)											

RESULTS TO BE ANNOUNCED SHORTLY

EM2266	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
U.S.A. / CANADA	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		
EUROPE	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000			
	Mean Attenuation (dB)										H:	
	Standard Deviation (dB)										M:	
	Assumed Protection										L:	
											SNR:	
	Tested in accordance with ANSI S3.19-1974											
AUSTRALIAN STANDARDS	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC₈₀	
	Mean Attenuation (dB)											
	Standard Deviation (dB)											

RESULTS TO BE ANNOUNCED SHORTLY

STEALTH

EM1281

EM1282

EM1286

EM1281	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
U.S.A. / CANADA	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		
EUROPE	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000			
	Mean Attenuation (dB)	17.7	17.2	24.4	33.3	41.7	34.4	34.3	34.4		H: 32 dB	
	Standard Deviation (dB)	5.9	4.5	4.1	3.7	4.6	3.8	3.2	2.8		M: 29 dB	
	Assumed Protection	11.8	12.7	20.3	29.5	37.1	30.6	31.1	31.6		L: 20 dB	
											SNR: 31 dB	
	Tested in accordance with ANSI S3.19-1974											
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			28	
	Standard Deviation (dB)	5.2	4.7	3.9	4.7	4.8	3.4	7.6				
	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											

EM1282	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
U.S.A. / CANADA	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		
EUROPE	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000			
	Mean Attenuation (dB)	16.9	13.7	22.6	31.4	38.3	30.6	30.0	29.9		H: 28 dB	
	Standard Deviation (dB)	3.9	3.4	2.2	2.4	2.2	3.7	1.8	4.0		M: 28 dB	
	Assumed Protection	13.0	10.3	20.4	29.0	31.6	26.9	28.2	25.9		L: 19 dB	
											SNR: 28 dB	
	Tested in accordance with ANSI S3.19-1974											
AUSTRALIAN STANDARDS	FREQUENCY (Hz)	125	250	500	1000	2000	4000	8000	Class	(N)	SLC₈₀	
	Mean Attenuation (dB)	12.6	21.1	31.4	38.4	33.3	36.0	35.3			30	
	Standard Deviation (dB)	3.5	3.0	3.7	3.2	3.3	4.0	5.8				
	Mean Minus SD (dB)	9.0	18.1	27.6	35.3	29.9	32.0	29.5				
	Tested in accordance with AS/NZS 1270:1999											

EM1286	FREQUENCY (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
U.S.A. / CANADA	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		
EUROPE	FREQUENCY (Hz)	63	125	250	500	1000	2000	4000	8000			
	Mean Attenuation (dB)											
	Standard Deviation (dB)											
	Assumed Protection											
	Tested in accordance with ANSI S3.19-1974											
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			27	
	Standard Deviation (dB)	3.5	4.1	5.7	4.0	3.7	3.7	5.4				
	Mean Minus SD (dB)	8.2	14.9	23.8	30.5	28.0	30.9	28.0				
	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)										
Standard Deviation (dB)										

RESULTS TO BE ANNOUNCED SHORTLY

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)										
Standard Deviation (dB)										

RESULTS TO BE ANNOUNCED SHORTLY

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)										
Standard Deviation (dB)										

RESULTS TO BE ANNOUNCED SHORTLY

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)										
Standard Deviation (dB)										

RESULTS TO BE ANNOUNCED SHORTLY

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)										
Standard Deviation (dB)										

RESULTS TO BE ANNOUNCED SHORTLY

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Montreal
10550 Parkway Blvd.
Anjou, Quebec
H1J 2K4
Tel: (514) 351-SAFE (7233)
Fax: (514) 355-SAFE (7233)

Toronto
Sales Support
26 Dansk Court
Toronto, Ontario
M9W 5V8
Tel: (416) 675-2810
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Edmonton
6303 Roper Road
Edmonton, Alberta
T6B 3G6
Tel: (780) 437-2641
Fax: (780) 436-0048

Email: marketing@northsafety.ca

EUROPE & MIDDLE EAST

The Netherlands
Anodeweg 1
4338 RA Middelburg
The Netherlands
Tel: +31(0)118 656400
Fax: +31(0)118 627535

United Kingdom
Tel: +44(0)170 669 3800
Fax: +44(0)170 669 3801

Germany
Tel: +49(0) 40611775-0
Fax: +49(0) 40611775-10

Scandinavia
Tel: +46(0) 36377241
Fax: +46(0) 36377629

France
Tel: +33(0) 442 240264
Fax: +33(0) 442 609530

Email: marketing@northsafety.nl

CHINA

Tel: 86-10-67892289/90/91
Fax: 86-10-67892292

Email: marketing@northsafety.cn

ASIA & PACIFIC

Tel: 61-3-9337-9111
Fax: 61-3-9337-2808

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