

Hearing Protection





**DSI SAFETY INC KNOWN AS DYNAMIC SAFETY INTERNATIONAL
IS A CANADIAN OWNED AND OPERATED COMPANY
THAT PRODUCES AND OFFERS (8) PRODUCTS LINES OF PERSONEL
PROTECTIVE EQUIPMENT (PPE)**

CANADIAN

A totally Canadian company owned and managed by Canadians with three (3) manufacturing facilities employing over 75 people, who design and manufacture Personnel Protective Equipment (PPE) in Canada for Canadian workers.

CERTIFICATION

All of our Hearing Protection products sold by Dynamic have been tested by Paul Michael and Associates in accordance with "EPA" and meets the ANSI S3.19-1974 regulation. They are also in accordance with Canada Class A(L).

This certification guarantee's Canadian workers that the hearing protection products sold by Dynamic offer the correct selection of products for the protection required.

PRODUCT OFFERING

For now, Dynamic offers Canadian workers a diversified choice of earplugs and bands able to answer most of their needs in hearing protection products. All these products are made in Europe (Sweden).

We are also developing in a partnership a full line of earmuffs to be launch in the fall of this year and again we are partnering with some of the most knowledgeable players in the industry. Our earmuff line will be partially made in Canada and fully assembled in Canada.

OUR GOAL

No compromises on quality! We will sell only first quality products. We will offer the best service levels in the industry.

We will be competitively priced. We will offer only EPA certified products that meets ANSI S3.19-1974 regulation and Canadian Class A(L) standards to our customers whenever possible. We will do our best to answer all of the needs of Canadian workers in regards to hearing protection. We will do our best to manufacture more and more of our product offering in Canada in order to create more Canadian jobs.

Always remember: at Dynamic our mission is to concentrate on Comfort, Fit, Reliability and Safety so you can focus 100% of your efforts in your work.

Hearing Protection

REMEMBER: VALUE FOLLOWS INNOVATION.

The polyurethane foam used to manufacture our plugs consists of an optimized mixture ratio. The foam cell structures and homogeneity undergo regular stringent testing. This consistency, along with our manufacturing know-how, allows our earplugs to have noticeably improved recovery time and clamping pressure.

TESTS AND STANDARDS

All Dynamic hearing protection products comply with EPA standards and have been tested in accordance with ANSI S3.19-1974 and Canadian Class A(L) regulations.

DYNAMIC - GRIP TECHNOLOGY

- Pleasant and comfortable fitting because of an optimal configuration with the ear canal. Perfect attenuation due to a soft canal sealing.
- Linear attenuation = recognition of important signals.
- Wearer is not isolated (incommunicado).
- No distortion of sound characteristics.

ABSORPTION FIGURES

The significant advantages of Dynamic earplugs include their outstanding absorption and real comfort thanks to the unique cellular structure of the plug.

ALL EARS WHEN IT COMES TO SAFETY

Choosing the right product using the NRR method

Goal = Noise Level - NRR Value

EX: Car Racing - Noise Level 110 dB(A)

Chosen Product:

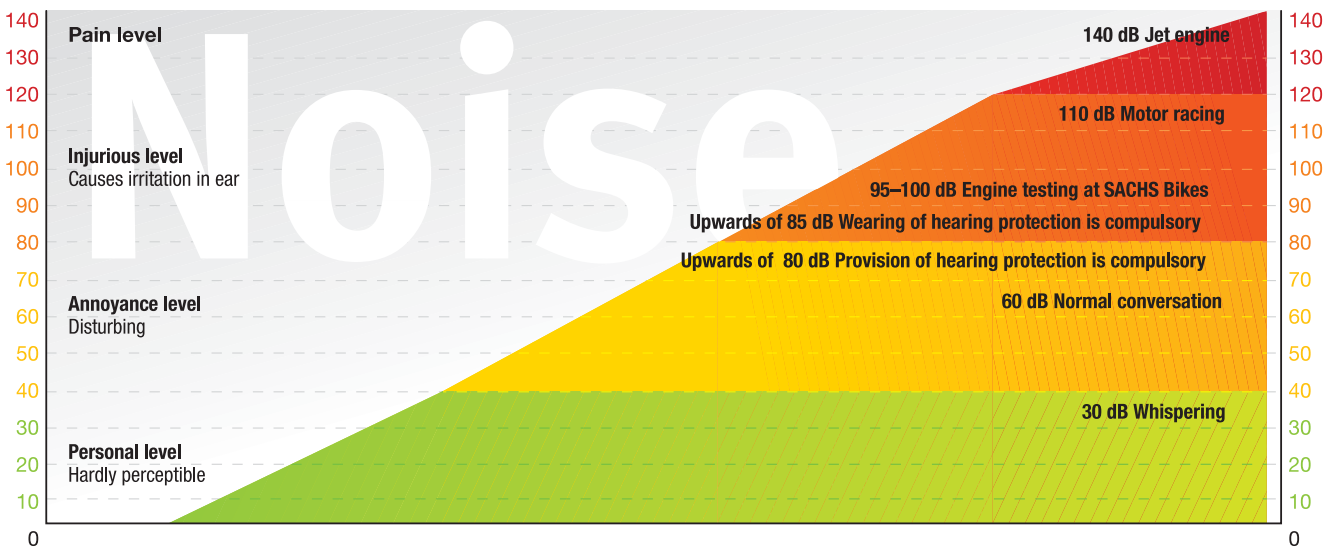
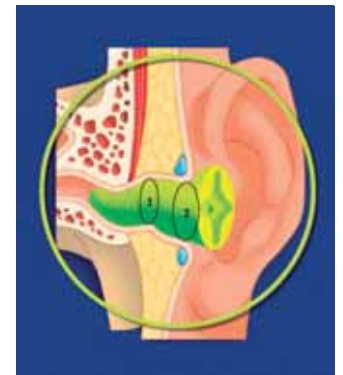
NP101 "DYNA-FIT"

NRR 32 dB

Result

=78 dB

The optimum value with hearing protection is between 70 and 80 dB.



HEARING PROTECTION

As one of the leading manufacturers of personal protective equipment we would like to make sure that Canadian workers are aware of the need to protect their hearing. Loss of hearing is a gradual process, yet we seldom if ever are conscious of deterioration until it is too late. Workplace noise can easily be compounded by factors within our everyday environment, such as traffic, domestic machinery, gadgets and loud music. All of which contribute to the invisible problem of impaired and irreversible loss of hearing. It is a fact that threats to our hearing are largely invisible that should force us to address them positively and continuously.

Long-term damage does not normally become apparent until about 10 to 20 years later. Together, we have an opportunity and an obligation to educate people who are at risk due to workplace noise and to provide them with the very best, most comfortable safety solutions.

Disposable Earplugs “Dyna-Fit”

**MEETS ANSI S3.19-1974 REGULATION
& CANADIAN CLASS A(L) STANDARDS**



- Excellent protection – Very high absorption level
- Excellent sound – Top voice recognition
- Excellent fit – Very comfortable to wear
- The ergonomically shaped Dynamic “Dyna-fit”

Disposable earplugs are characterized by very high sound absorption levels, making it suitable for use in very loud environments. The “Dyna-Fit” foam earplug has a sealed surface, preventing foreign bodies from penetrating the plug. The soft foam offers real comfort, even when worn for extended periods.

The “X” embossed in the end of the plug makes it easy to remove while simultaneously reducing the pressure on the outer wall of the ear canal.

Model:	NP101
Color:	Red - Cordless
Packaging:	1 pair per bag
	200 bags per dispenser box
	10 dispenser boxes per case

Model:	NP101C
Color:	Red – with cord
Packaging:	1 pair per bag
	100 bags per dispenser box
	10 dispenser boxes per case



NP101C

NP101

	SNR: 37 dB		H: 36 dB		M: 34 dB		L: 34 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	35.3	38.4	39.3	40.8	38.9	37.8	45.9	45.1
Standard Deviation dB	4.2	6.3	5.3	5.5	5.5	4.3	3.9	4.6
Assumed Protection dB (APV)	31.1	32.1	34.0	35.3	33.4	33.5	42.0	40.5

	NRR: 32 dB		CSA Class A(L) Standards / ANSI S3.19-1974 Regulations							
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000	
Mean Attenuation dB	39.9	41.8	42.3	38.2	35.6	42.1	43.9	46.8	47.1	
Standard Deviation dB	4.2	4.4	3.7	2.4	2.2	2.3	2.8	4.1	3.2	
Assumed Protection dB (APV)	31.5	33.0	34.9	33.4	31.2	37.5	38.3	38.6	40.7	

FEATURES	ADVANTAGES	BENEFITS
Tapered	Fits to the natural contour of the ear canal	Light & comfortable with a secure fit, Give optimum performance and protection
X-Emboss	Less materiel at the entrance to the ear canal	Reduce expansion pressure for optimal comfort and all day use.
High Attenuation	High and immediate noise reduction	Minimizes disturbance and unpleasant noise levels
Compatible with other personal protective equipment	Allows the user to wear all necessary protection & equipment needed in a work situation	Improved conformity to safety requirements
Soft PU foam	Slow expansion to perfectly fit the size and form of the ear canal	Increase hygiene, Maximum performance, long wearing comfort

Ideal for use in workshops, manufacturing, construction and other work environments.

Disposable Earplugs “Dyna-Fit Lite”

**MEETS ANSI S3.19-1974 REGULATION
& CANADIAN CLASS A(L) STANDARDS**



The highly innovative shape of the Dynamic “Dyna-Fit Lite” disposable earplug dramatically reduces the level of sound that can be built up in the inner ear when wearing hearing protectors. The innovative channel and cavity design increases the surface area and absorption. The earplug delivers softer acoustics and absorbs noise interference, making it possible to hear speech and warning sounds clearly. Soft foam offers superb comfort, even when worn all day. The inner cavity makes it easy to remove since it reducing the pressure on the outer wall of the ear canal.

Model:	NP102
Color:	Lime-Green - Cordless
Packaging:	1 pair per bag
	200 bags per dispenser box
	10 dispenser boxes per case

Model:	NP102C
Color:	Lime-Green – with cord
Packaging:	1 pair per bag
	100 bags per dispenser box
	10 dispenser boxes per case



	SNR: 36 dB		H: 34 dB		M: 33 dB		L: 32 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	32.7	34.8	36.8	38.9	36.9	36.2	44	41.5
Standard Deviation dB	4.6	4.4	5.6	5.2	4.7	3.7	4.0	5.0
Assumed Protection dB (APV)	28.1	30.4	31.2	33.7	32.3	32.5	40.0	36.5

	NRR: 30 dB		CSA Class A(L) Standards / ANSI S3.19-1974 Regulations						
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	31.5	30.2	35.6	35.1	38.4	42.8	45.5	47.4	46.6
Standard Deviation dB	3.9	2.9	2.9	2.9	2.6	3.6	4.6	2.7	3.1
Assumed Protection dB (APV)	23.7	24.4	29.8	29.3	33.2	35.6	36.3	42	40.4

FEATURES	ADVANTAGES	BENEFITS
Larger Surface Area	Minimal pressure in the ear canal	Superb comfort
Unique Design	Absorbs inner ear sound	Smallest possible diameter for easier insertion
Hollow Middle	Designed to fit the natural form of the ear canal	Expansion pressure adjusted for optimal comfort
		Simple insertion and hygienic removal after use
	Low and direct noise attenuation	Reduced attenuation gives improved voice comprehension and awareness of warning signals

ideal for use in manufacturing, warehouses and distribution, building and construction, energy, oil & gas



Disposable & Detectable Earplugs “Dyna-Fit Detect”

MEETS ANSI S3.19-1974 REGULATION & CANADIAN CLASS A(L) STANDARDS

The DYNAMIC “DYNA-FIT DETECT” NP101CD is a copy of the “DYNA-FIT” NP101C to the exception that it is detectable due to the addition of a metal insert connected to the cord. This product was made for the food industry and for that reason it’s color is of a bright blue which make it easier to trace if by accident it falls into food production areas.

The DYNAMIC “DYNA-FIT DETECT” is safe, comfortable with a high NRR rating easily detectable due to its metal insert and its bright blue color plus it is very economical. The blue connecting PVC cord makes this product practical to wear and limits the risk of process contamination.

Model:	NP101CD
Color:	Bright Blue - with cord
Packaging:	1 pair per bag 100 bags per dispenser box
	10 dispensers boxes per case



SNR: 37 dB	H: 36 dB M: 34 dB L: 34 dB							
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	35.3	38.4	39.3	40.8	38.9	37.8	45.9	45.1
Standard Deviation dB	4.2	6.3	5.3	5.5	5.5	4.3	3.9	4.6
Assumed Protection dB (APV)	31.1	32.1	34.0	35.3	33.4	33.5	42.0	40.5

NRR: 32 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations								
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	39.9	41.8	42.3	38.2	35.6	42.1	43.9	46.8	47.1
Standard Deviation dB	4.2	4.4	3.7	2.4	2.2	2.3	2.8	4.1	3.2
Assumed Protection dB (APV)	31.5	33.0	34.9	33.4	31.2	37.5	38.3	38.6	40.7

FEATURES

- Detectable foam plug
- X-Emboss
- High Attenuation
- Compatible with other personal protective equipment
- Traceable Cord

ADVANTAGES

- Fits to the natural contour of the ear canal. Easily tracable by a metal detector.
- Less bulky material at the entrance to the ear canal.
- High and immediate noise reduction
Slow expansion to perfectly fit the size and form of the ear canal.
- Allows the user to wear all necessary protective equipment needed to work safely.
- Increase safety and protect production.

BENEFITS

- Light and comfortable with a secure fit
Provides optimal performance and protection.
- Reduces expansion pressure for optimal comfort and all day use.
Simple insertion and hygienic removal after use.
- Minimizes disturbance and unpleasant noise level.
- Improved conformity.
- Contains metal material making it easy to trace

Reusable & Detectable Ear-plugs “Comfort-Fit Detect”

MEETS ANSI S3.19-1974 REGULATION & CANADIAN CLASS A(L) STANDARDS



Highly comfortable, Noise absorbent, Reusable, Detectable and safe - The new “COMFORT-FIT DETECT” is all of these. These reusable earplugs are made of washable plastic from MEDICAL Industry technology. This product is also made for the food industry. Its bright blue colour makes it easier to detect in production areas and it is reusable, making it more economical.

Model:	NP104CD
Color:	Bright Blue - with cord
Packaging:	1 pair per small reusable box
	100 pair per inner box
	10 inner boxes per case



NP104CD

SNR: 27 dB			H: 24 dB		M: 22 dB		L: 27 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	26.6	26.9	24.3	26.1	28.8	32.8	32.6	38.1
Standard Deviation dB	6.1	6.1	4.1	5.1	5.1	5	6.5	5.3
Assumed Protection dB (APV)	20.5	20.8	20.2	21.0	23.7	27.8	26.1	32.8

NRR: 25 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations									
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000	
Mean Attenuation dB	32.4	31.5	32.3	32	33.6	38.1	37.4	39.9	43.8	
Standard Deviation dB	5.4	4.7	4	3.8	3.5	3.4	3.3	4.7	4.2	
Assumed Protection dB (APV)	21.6	22.1	24.3	24.4	26.6	31.3	30.8	30.5	35.4	

FEATURES

- Detectable Reusable earplug.
- Pre-Formed stem with no rolling
- Moderate attenuation
- Traceable Cord
- Package in small reusable case

ADVANTAGES

- Easy to trace with a metal detector.
- Self-sealing flanges.
- Stiffened shaft makes insertion easy and avoids contact with the parts inserted into the ear canal.
- Soft and comfortable feel on contact.
- Natural sound
- Excellent voice clarity and speech comprehension.
- Increases safety and convenience
- Easy to store in the pocket when not in use.

BENEFITS

- Comfortable even when used for long periods
- Reduces the risk for making it dirty.
- Simple insertion and hygienic removal after use.
- Safe usage that blocks out hazardous noise yet allows warning signals and voices to be clearly understood.
- Contains metal material making it easy to trace
- Reusable, makes the product very cost effective

HEARING PROTECTION



Reusable Earplugs "Quiet-Fit"

MEETS ANSI S3.19-1974 REGULATION & CANADIAN CLASS A(L) STANDARDS



This multiple flange ultra soft TPE reusable plug is the right answer for dirty, not too noisy work environments. (Up to a noise level of less than 100dB). The smooth, dirt- repellent surface of the DYNAMIC "QUIET-FIT" Reusable earplug will prevent the plug from collecting irritating particles that can cause injuries to the ear canal. The plug can be easily cleaned using soap and water in order to maintain excellent wearer comfort and safety.

The corded "QUIET-FIT" provided with a string material made cord that does not transfer the sound even on your neck or clothing. When not in use the plugs can be stored into the original packaging of a small ziplock type bag.

Model:	NP103
Color:	Red - Cordless
Packaging:	1 pair per bag
	100 bags per dispenser box
	10 dispensers boxes per case

Model:	NP103C
Color:	Red – with cord
Packaging:	1 pair per bag
	100 bags per dispenser box
	10 dispenser boxes per case

SNR: 23 dB		H: 24 dB		M: 20 dB		L: 17 dB	
Frequency Hz	63 125	250 500	1000 2000	4000 8000			
Mean Attenuation dB	23.7 23.2	21.1 22.6	24.8 31.7	33.4 39.4			
Standard Deviation dB	5.6 5.8	6.8 5.2	5.7 6.0	9.5 8.2			
Assumed Protection dB (APV)	18.1 17.4	14.3 17.4	19.1 25.7	23.9 31.2			

NRR: 23 dB		CSA Class A(L) Standards / ANSI S3.19-1974 Regulations							
Frequency Hz	125 250	500 1000	2000 3150	4000 6300	8000				
Mean Attenuation dB	31.6 31.1	32.9 30.8	33.7 38.0	38.2 42.7	45.6				
Standard Deviation dB	4.2 3.9	4.3 4.1	4.5 4.5	3.7 4.4	4.9				
Assumed Protection dB (APV)	23.2 23.3	24.3 22.6	24.7 29	30.8 33.9	35.8				

FEATURES

- Reusable Ultra-soft TPE plug
- Pre-Formed stem with no rolling
- Moderate attenuation
- Removable Cord
- Packaged in small Zip-Lock type bag.

ADVANTAGES

- Self sealing flanges
- Can be used in noise level up 100dB(A)
- Simple insertion without having to roll the plug prior to insertion.
- Soft and comfortable feel on contact with the skin.
- Excellent for speech clarity and comprehension.
- Multiple Choices
- When working with machines the cord could be detached easily for added safety.
- Easy to store in the Zip-Lock bag when not in use.

BENEFITS

- Provide all day comfort
- Can be reused several times
- Reduce the risk for unhygienic contamination
- Safe usage that blocks out hazardous noise yet allows warning signals and voice to be clearly understood.
- Safe and secure
- The earplugs can be removed and cleaned with mild soap and water
- Reusable which make these plugs very cost effective

Ideal for use in workshops, warehouses, light manufacturing and other area where noise is under 100dB(A).

Reusable Earplugs “Comfort-Fit”

MEETS ANSI S3.19-1974 REGULATION & CANADIAN CLASS A(L) STANDARDS



Model:	NP104
Color:	Lime-Green - Cordless
Packaging:	1 pair per reusable pack
	100 pair per inner box
	10 inner boxes per case

Model:	NP104C
Color:	Lime-Green – with cord
Packaging:	1 pair per reusable pack
	100 pair per inner box
	10 inner boxes per case

This DYNAMIC 4 multi flange reusable plug is by far the softest TPE plug offered in the market today, it provides a high attenuation ratio of NRR 25dB. The smooth dirt-repellant surface of the plug will prevent the plug from collecting irritating particles that can cause injuries to the ear canal. Easy to clean with mild soap and water maintaining ultimate comfort to the user.

The corded “COMFORT-FIT” plug is provided with a string material cord that does not transfer sound even when rubbing against your neck or clothing. The cord can be removed if need be.

When not in use the plug store’s into the reusable packet it came in.



	SNR: 27 dB		H: 24 dB		M: 22 dB		L: 27 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	26.6	26.9	24.3	26.1	28.8	32.8	32.6	38.1
Standard Deviation dB	6.1	6.1	4.1	5.1	5.1	5	6.5	5.3
Assumed Protection dB (APV)	20.5	20.8	20.2	21.0	23.7	27.8	26.1	32.8

	NRR: 25 dB		CSA Class A(L) Standards / ANSI S3.19-1974 Regulations						
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	32.4	31.5	32.3	32	33.6	38.1	37.4	39.9	43.8
Standard Deviation dB	5.4	4.7	4	3.8	3.5	3.4	3.3	4.7	4.2
Assumed Protection dB (APV)	21.6	22.1	24.3	24.4	26.6	31.3	30.8	30.5	35.4

FEATURES	ADVANTAGES	BENEFITS
Multiple-Flange TPE earplug.	Self-sealing flange Seals against hazardous noise ,water and others unusable particles.	Provides all day comfort Can be reused several times
Pre-Formed stem with no rolling required	Stiffened shaft makes insertion easy and avoids contact with the parts inserted into the ear. Soft and comfortable feel on contact with the skin.	Reduces the risk of unhygienic contamination.
Even and Moderate Attenuation	Natural sound Excellent for speech clarity and comprehension.	Simple insertion and hygienic removal after use Safe usage that blocks out hazardous noise yet allows warning signals and voices to be clearly understood.
Removable Cord	Multiple Choice When working with machines the cord can be detached easily for added safety.	Safe and secure The earplug can be removed and cleaned with mild soap and water
Comes in small packets.	Easy to store in the packet when not in use.	Reusable, which makes the product more economical

Ideal for use in light manufacturing areas, dairies, laboratories, canning, pharmaceuticals and many others.

Disposable Earplugs Dispenser



NP100

Easy-to-use, robust wall-mounted dispenser. Easy installation equipped with a controlled release mechanism which ensures that the correct number of plugs are dispensed. The audible “1/2 click” system prevents over supply thus reducing wastage costs. The transparent design makes it easy to monitor the number of plugs remaining in the dispenser. A collecting tray catches the earplugs. Installed in a convenient location the dispenser has sufficient capacity to supply large production areas with hearing protection at a favorable price.

Model:	NP100
Color:	Black- Clear container
Packaging:	1 unit box (Earplugs not included)

FEATURES

- Wall mounted dispenser
- Simple “1/2 click”
- Simple refilling
- Hygienic refilling
- Foam Earplugs suitable for refilling

ADVANTAGES

- Easy to assemble
- Simple to use
- Earplugs easily accessible for everyone.
- Simple “click” reliably dispenses 2 earplugs.
- The holder is transparent so it is easy to see when it is time to refill.
- The dispenser holds 300 pairs of plugs when refilled.
- Packed in a box
- Available in different colors and shapes for dispenser refilling .

BENEFITS

- Easy to mount on a wall.
- Can be strategically placed for users access.
- Convenient and simple for the user.
- Less waste, protects the environment.
- Convenient
- Plugs are always available for users.
- Convenient, Hygienic, Saves valuable time
- Simple to open and fill the dispenser with the right earplugs.

Refill Packs for Earplug Dispenser

The dispenser can be filled with the following DYNAMIC foam earplugs: NP101/300 and NP102/250. The refill boxes are made of environmental friendly cardboard which can be recycled to reduce waste.

Model:	NP101/300
Color:	Red - Cordless
Packaging:	300 pairs of "Dyna-Fit" model NP101 loose in a refill box
	4 box of 300 pairs per case

Model:	NP102/250
Color:	Lime-Green - Cordless
Packaging:	250 pairs of "Dyna-Fit Lite" model NP101 loose in a refill box
	4 box of 250 pairs per case



NP101/300

NP102/250

Hygiene Storage Box for Reusable Earplugs

A sturdy, transparent plastic case, comes with a chain for storing earplugs safely and hygienically.

Model:	NPCASE
Color:	Transparent
Packaging:	60 units per inner box 10 inner boxes per case



NPCASE

HEARING PROTECTION



Banded Ear Protection “Lite-Band”

MEETS ANSI S3.19-1974 REGULATION & CANADIAN CLASS A(L) STANDARDS



Innovative and unique, soft, oval shape foam earplug guarantee of the most comfortable fit. The band is ergonomically shaped and its stability limits contact with clothing and resulting sound transmission. The DYNAMIC “LIGHT-BAND” is the lightest banded ear protector available in the market. Weighs just 8 gr.

Ideal for short jobs, for people moving in and out of noise areas or for visitors.

Model:	NP105
Color:	Black band Lime-Green pods
Packaging:	1 per bag
	10 per inner box
	10 inner boxes per case



NP105

	SNR: 24 dB		H: 27 dB		M: 19 dB		L: 18 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	23.7	22.0	21.6	19	23.9	31.9	39.6	39.6
Standard Deviation dB	4	2.9	4.7	4.3	3.6	4.0	2.7	3.7
Assumed Protection dB (APV)	19.7	19.1	16.9	14.7	20.2	27.9	36.9	35.9

	NRR: 20 dB		CSA Class A(L) Standards / ANSI S3.19-1974 Regulations							
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000	
Mean Attenuation dB	27.5	28.1	24.5	25.6	32.3	38.8	41.2	44.6	44	
Standard Deviation dB	5.7	4.7	3.7	3.9	3.5	4	4.5	4.6	4.6	
Assumed Protection dB (APV)	16.1	18.7	17.1	17.8	25.3	30.8	32.2	35.4	34.8	

FEATURES

- Banded ear plugs
- Ear plugs with an oval cap shape
- Low weight
- Replacement pods

ADVANTAGES

- Ergonomic pre-formed band
Positioned under the chin
Perfect fit
- Oval cap shape of the plug fits well over the ear canal.
- Low weight makes the bands comfortable to wear
- Easy to change when they are worn or dirty.

BENEFITS

- Light, comfortable and secure fit
Fixed position with reduced sound transmission.
- Good fitting without pressure
Excellent stability once fitted
- Easy fitting, comfortable to wear for long periods.
- Hygienic
Economic

Ideal for in and out of factory jobs, visitors, foreman or supervisors, light manufacturing, etc.

DYNAMIC

**Safety
Products
from Head
to Toe**



www.dsisafety.com



A CANADIAN COMPANY

HEARING PROTECTION



NP101 - NP101C - NP101CD

European Standards EN 352-2:202

SNR: 37 dB			H: 36 dB		M: 34 dB		L: 34 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	35.3	38.4	39.3	40.8	38.9	37.8	45.9	45.1
Standard Deviation dB	4.2	6.3	5.3	5.5	5.5	4.3	3.9	4.6
Assumed Protection dB (APV)	31.1	32.1	34.0	35.3	33.4	33.5	42.0	40.5

CSA Class A(L) / ANSI S3.19-1974

NRR: 32 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations								
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	39.9	41.8	42.3	38.2	35.6	42.1	43.9	46.8	47.1
Standard Deviation dB	4.2	4.4	3.7	2.4	2.2	2.3	2.8	4.1	3.2
Assumed Protection dB (APV)	31.5	33.0	34.9	33.4	31.2	37.5	38.3	38.6	40.7

NP102 - NP102C

European Standards EN 352-2:202

SNR: 36 dB			H: 34 dB		M: 33 dB		L: 32 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	32.7	34.8	36.8	38.9	36.9	36.2	44	41.5
Standard Deviation dB	4.6	4.4	5.6	5.2	4.7	3.7	4.0	5.0
Assumed Protection dB (APV)	28.1	30.4	31.2	33.7	32.3	32.5	40.0	36.5

CSA Class A(L) / ANSI S3.19-1974

NRR: 30 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations								
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	31.5	30.2	35.6	35.1	38.4	42.8	45.5	47.4	46.6
Standard Deviation dB	3.9	2.9	2.9	2.9	2.6	3.6	4.6	2.7	3.1
Assumed Protection dB (APV)	23.7	24.4	29.8	29.3	33.2	35.6	36.3	42	40.4

NP103 - NP103C

European Standards EN 352-2:202

SNR: 23 dB			H: 24 dB		M: 20 dB		L: 17 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	23.7	23.2	21.1	22.6	24.8	31.7	33.4	39.4
Standard Deviation dB	5.6	5.8	6.8	5.2	5.7	6.0	9.5	8.2
Assumed Protection dB (APV)	18.1	17.4	14.3	17.4	19.1	25.7	23.9	31.2

CSA Class A(L) / ANSI S3.19-1974

NRR: 23 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations								
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	31.6	31.1	32.9	30.8	33.7	38.0	38.2	42.7	45.6
Standard Deviation dB	4.2	3.9	4.3	4.1	4.5	4.5	3.7	4.4	4.9
Assumed Protection dB (APV)	23.2	23.3	24.3	22.6	24.7	29	30.8	33.9	35.8

NP104 - NP104C - NP104CD

European Standards EN 352-2:202

SNR: 27 dB			H: 24 dB		M: 22 dB		L: 27 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	26.6	26.9	24.3	26.1	28.8	32.8	32.6	38.1
Standard Deviation dB	6.1	6.1	4.1	5.1	5.1	5	6.5	5.3
Assumed Protection dB (APV)	20.5	20.8	20.2	21.0	23.7	27.8	26.1	32.8

CSA Class A(L) / ANSI S3.19-1974

NRR: 25 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations									
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000	
Mean Attenuation dB	32.4	31.5	32.3	32	33.6	38.1	37.4	39.9	43.8	
Standard Deviation dB	5.4	4.7	4	3.8	3.5	3.4	3.3	4.7	4.2	
Assumed Protection dB (APV)	21.6	22.1	24.3	24.4	26.6	31.3	30.8	30.5	35.4	

NP105

European Standards EN 352-2:202

SNR: 24 dB			H: 27 dB		M: 19 dB		L: 18 dB	
Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	23.7	22.0	21.6	19	23.9	31.9	39.6	39.6
Standard Deviation dB	4	2.9	4.7	4.3	3.6	4.0	2.7	3.7
Assumed Protection dB (APV)	19.7	19.1	16.9	14.7	20.2	27.9	36.9	35.9

CSA Class A(L) / ANSI S3.19-1974

NRR: 20 dB	CSA Class A(L) Standards / ANSI S3.19-1974 Regulations									
Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000	
Mean Attenuation dB	27.5	28.1	24.5	25.6	32.3	38.8	41.2	44.6	44	
Standard Deviation dB	5.7	4.7	3.7	3.9	3.5	4	4.5	4.6	4.6	
Assumed Protection dB (APV)	16.1	18.7	17.1	17.8	25.3	30.8	32.2	35.4	34.8	

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2477 Michelin Street
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