

1409 Reusable Earplugs

1409 Earplugs are designed to provide hearing protection in work environments where high noise levels are exposed. Produced in accordance with the EN 352-2:2020+A1:2024 standard, the product supports the user against harmful noise levels with its 28 dB SNR protection value. Thanks to its ergonomic design and soft TPE material, it offers comfortable use all day long.



TPE Material

It is made of Thermoplastic Elastomer (TPE) material, which has the characteristics of high flexibility and softness. While it offers comfortable use thanks to its structure that adapts to the ear canal it can be reused thanks to its cleanable feature.

CE 2777

Technical Specifications

SNR	28 dB
Product Material	TPE
Color	Gray
Carton Quantity	500 Pairs
Box Quantity	100 Pairs
Standards	EN 352-2:2020+A1:2024



Storage Box

Thanks to the plastic storage box, the earplugs can be stored hygienically and safely when not in use. It helps maintain the lifespan of the product by reducing the risk of contamination during transportation.

STARLINE

Standards

1409 Earplugs have been tested and certified in accordance with the EN 352-2:2020+A1:2024 standard under the European Union Personal Protective Equipment (PPE) Regulation (EU) 2016/425.

EN 352-2 standard; defines the performance, safety, marking and user information requirements of earplugs and verifies that the hearing protection performance of the product complies with internationally accepted criteria.

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	$H_M =$	32.8 dB	$H_S =$	4.8 dB	$H =$	28 dB
Mean Attenuation (dB)	29,0	28,6	26,3	30,2	30,9	32,1	35,6	43,8	$M_M =$	30.5 dB	$M_S =$	4.6 dB	$M =$	26 dB
Standard Deviation (dB)	4,7	6,1	5,7	5,4	4,8	5,0	7,6	5,0	$L_M =$	28.5 dB	$L_S =$	5.1 dB	$L =$	23 dB
Assumed Protection (dB)	24,3	22,5	20,6	24,8	26,1	27,1	28,0	38,8	$SNR_M = 32.6$ dB $SNR_S = 4.5$ dB $SNR = 28$ dB					

Tested according to EN 352-2:2020+A1:2024 standard.

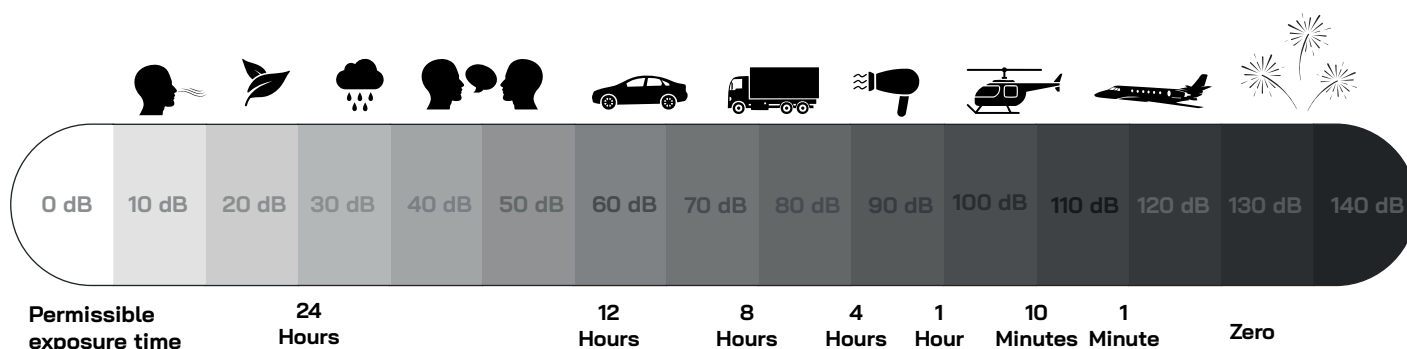
Noise Exposure and Protection

Noise levels in workplaces are determined by sound level meters and noise dosimeters. Prolonged exposure to high noise can cause permanent health issues such as hearing loss, tinnitus, and communication difficulties.

Difficulty in hearing conversations, insufficiency of normal voice tones, or a ringing sensation in the ears after work are key indicators of high noise exposure.

It is recommended to use appropriate hearing protection based on the results of the risk assessment to protect hearing health.

Decibel Scale























STARLINE

● Areas for Use

Earplugs are used to protect the sense of hearing in working environments exposed to high noise levels. It is widely preferred in many industrial areas, especially in mines, construction sites, metal processing facilities, automotive factories, machinery production facilities, textile factories, recycling facilities, oil and natural gas fields.

It is also used in airports, logistics centers, agricultural enterprises, energy facilities and noisy maintenance and repair works. It is an important personal protective equipment that improves the safety and comfort of workers in all environments where noise can cause hearing loss.

 <p>Machine CNC machines, presses, compressors, lathes and milling machines</p>	 <p>Metal Cutting, grinding, welding, foundry, press lines</p>	 <p>Automotive Press shops, assembly lines, test areas, paint lines</p>	 <p>Mining Drilling, blasting, crushers, conveyor systems</p>	 <p>Construction Rotary hammer equipments, road construction</p>
 <p>Chemistry Compressor rooms, pumping stations, process equipments</p>	 <p>Oil & Gas Drilling sites, compressors, turbines, refineries</p>	 <p>Recycling Crushing, grinding and separation machines</p>	 <p>Textile Weaving, knitting and yarn production machines</p>	 <p>Tree Sawing, planing, milling and woodworking machines</p>
 <p>Paint Industry Mixers, aeration and production equipments</p>	 <p>Factory (General) Production lines, packaging machines, compressors</p>	 <p>Dining / Bakery Industrial mixers, packaging lines</p>	 <p>Dairy and Meat Industry Cutting, processing, packaging and cooling equipments</p>	 <p>Agriculture Tractors, combines, feed preparation machines</p>
 <p>Shipping Warehouse operations, forklift traffic loading bays</p>	 <p>Transportation Airports, rail system maintenance areas</p>	 <p>Cleaning Industrial cleaning machines, high-pressure equipments</p>	 <p>Health / Hospital Technical services, sterilization units maintenance workshops</p>	 <p>Leather Industry Cutting and processing machines</p>

STARLINE

Instructions for Use



Maintenance and Cleaning

Before the earplugs are reinserted into the ear, all earwax and dirt on them should be removed. Dirty earplugs can be wiped with a damp cloth. Do not use solutions, disinfectants, or chemicals. This product may be adversely affected by some chemicals. Additional information should be requested from the manufacturer. Earplugs should be checked regularly to ensure they are functioning correctly. Earplugs should always be used in noisy environments. All usage instructions must be followed. Incorrect placement may reduce effectiveness and may result in hearing loss or damage.



Service Life

The exact service life of the product will largely depend on how it is used and where it is stored. Therefore, it is crucial to carefully inspect the earplugs before use and replace them if you decide they are not suitable for use.



Storage

When not in use, store the Earplugs in their case away from extreme temperatures. If the Earplugs are wet, allow them to dry slowly and naturally away from direct heat sources before storing them.

Order Information

MODEL	Cord Type	Packaging	Barcode	Carton Quantity
1409	Cordless	Plastic Flea	8680907013789	500 Pairs
1409-C	PVC Cord	Plastic Flea	8680907927383	500 Pairs
1409D	Cordless	Plastic Flea	8680907013796	500 Pairs
1409D-C	PVC Cord	Plastic Flea	8680907013802	500 Pairs

* Models 1409D and 1409D-C include metal detectable metal ball.